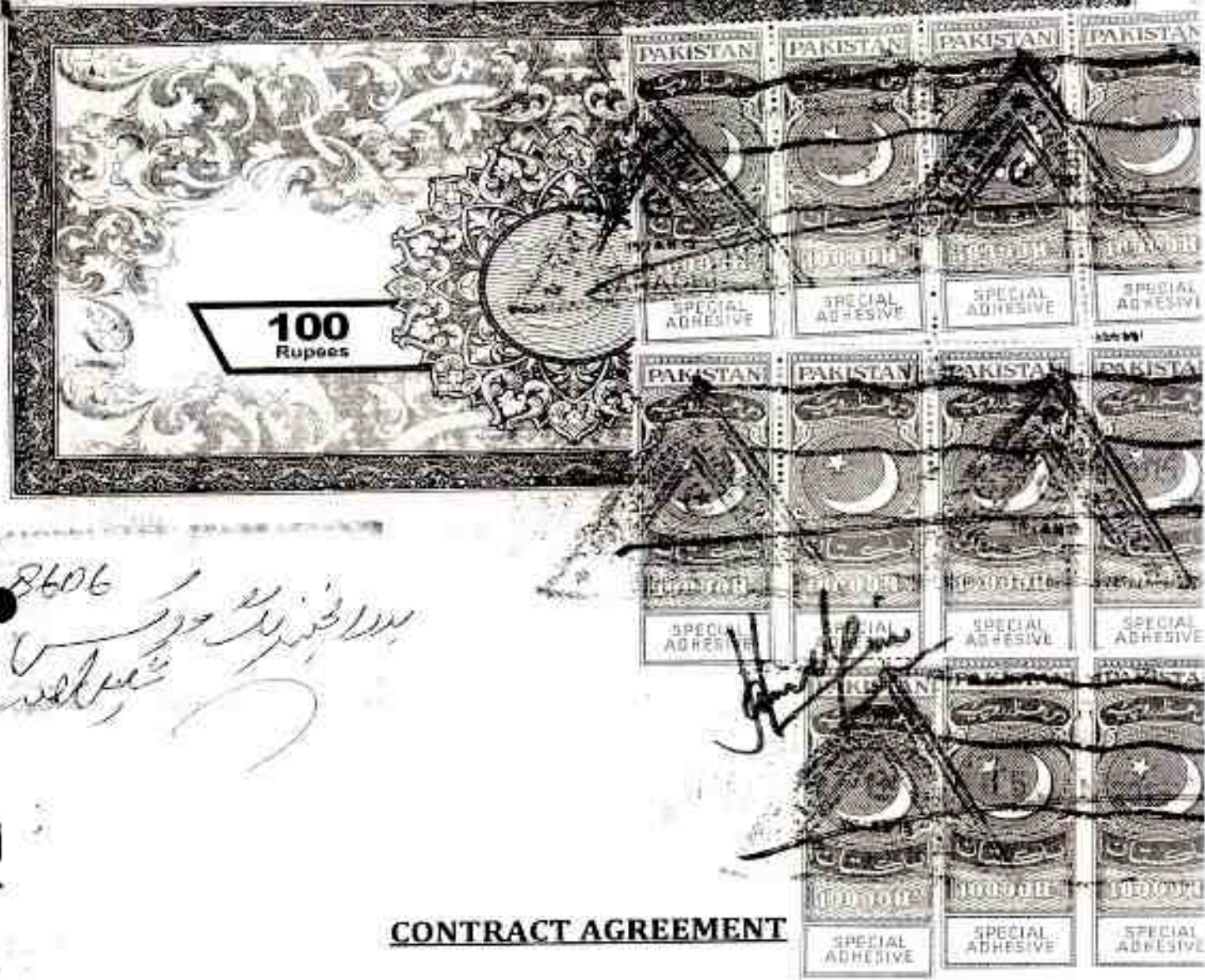


Rs. 980,800/- 7/7/15



8606
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CONTRACT AGREEMENT

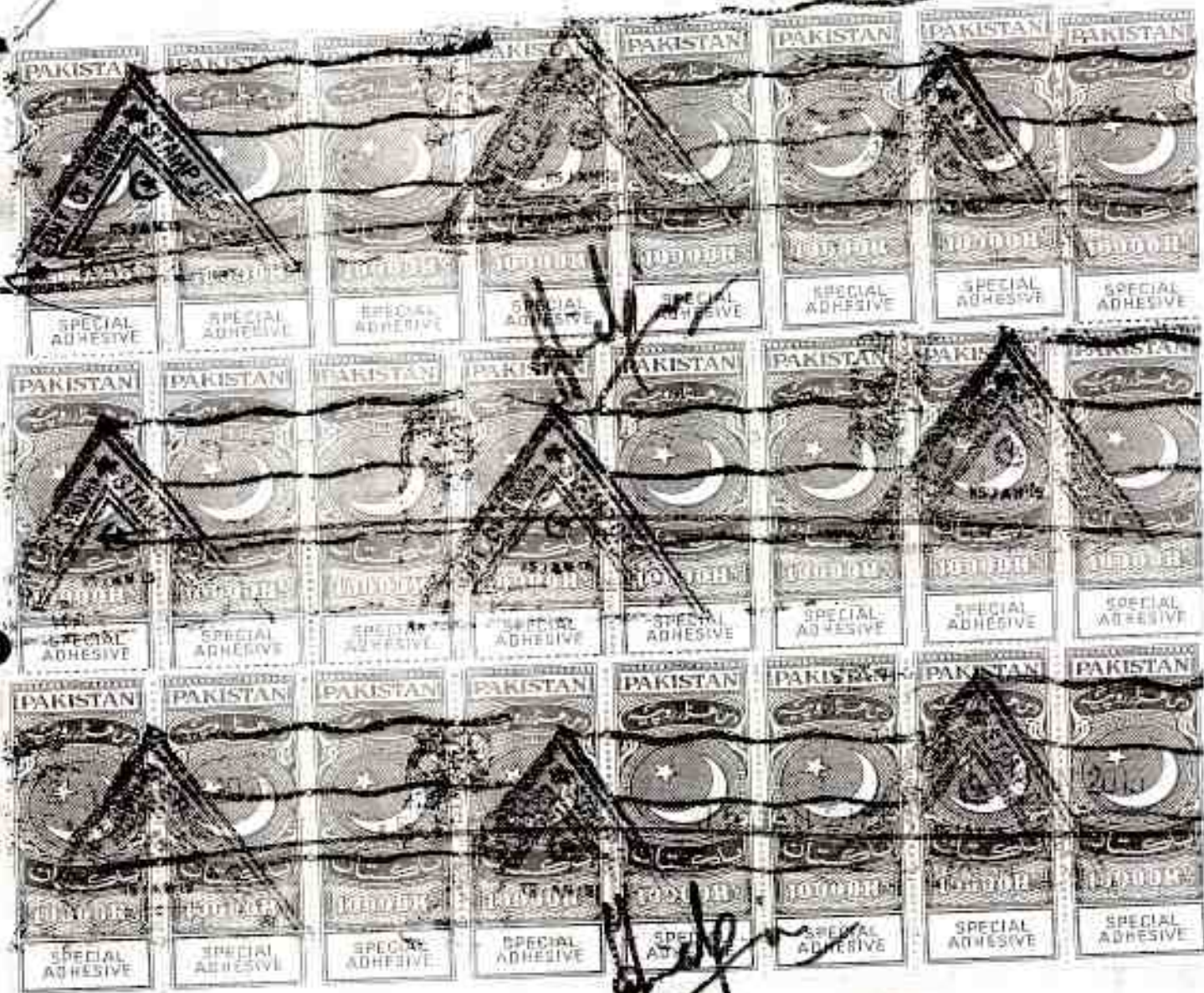
Contract Amount: 326,922,254/- (Three hundred twenty six million, nine hundred twenty two thousand and two hundred twenty four only)

Bid Reference: SBEP-P05-KHI-1

THIS CONTRACT AGREEMENT (hereinafter called the "Agreement") made on the 15th day of January 2015 between Program Management and Implementation Unit (PMIU) Sindh Basic Education Program, Education & Literacy Department, Government of Sindh (hereafter called the "Employer") of the one part and M/s Badar Engineering Works having their registered offices at C-175, Block 9, Gulshan-E-Iqbal, Near Aziz Bhatti Park, Karachi (hereafter called the "Contractor") of the other part.

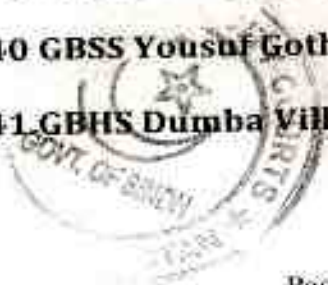
Program Director
 Sindh Basic Education Program
 Government of Sindh

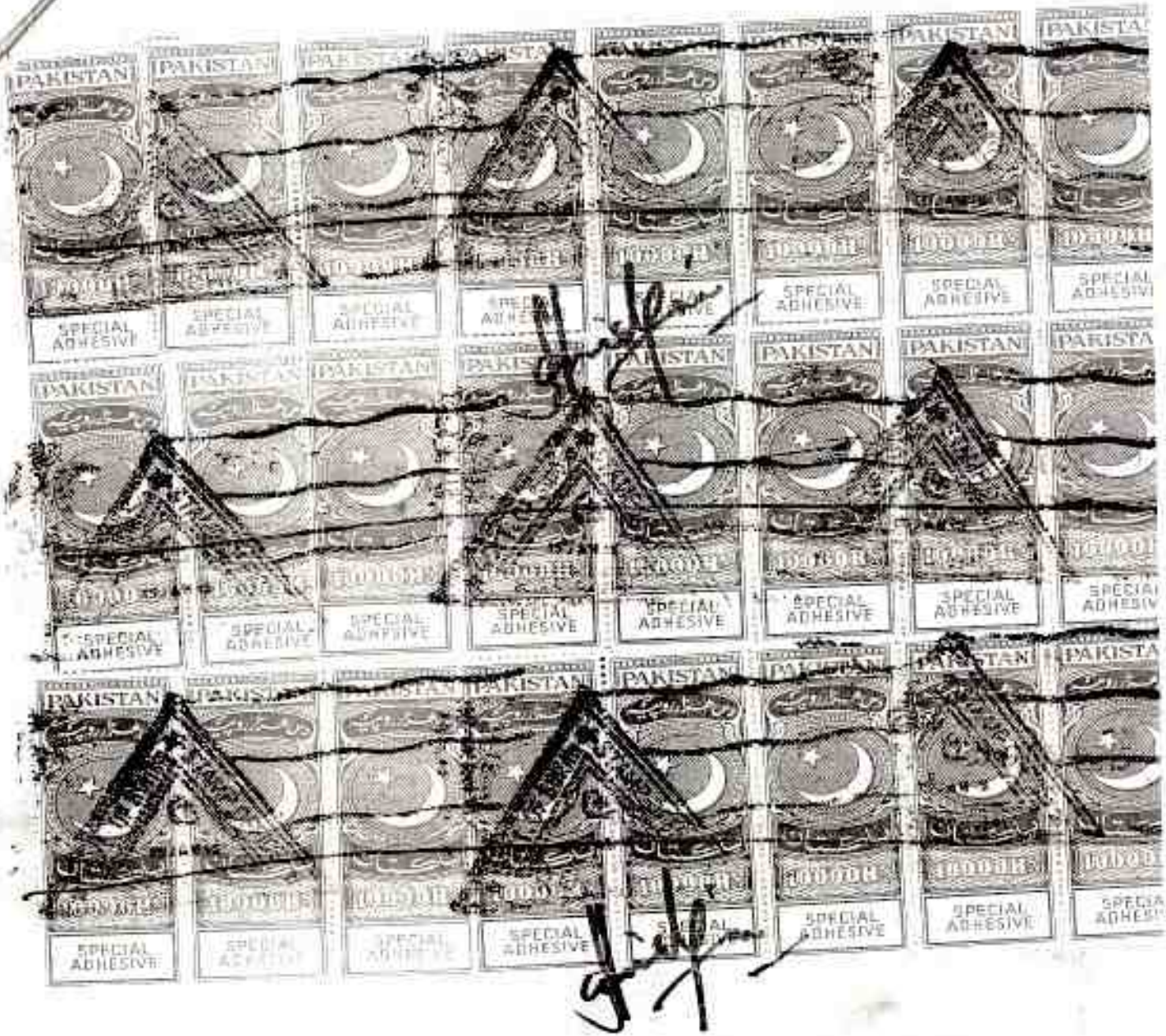




WHEREAS the Employer is desirous that certain Works, viz **Package 05:**
Construction of Five (05) Schools in Karachi (Gadap & Bin Qasim Town),
comprising of following schools:

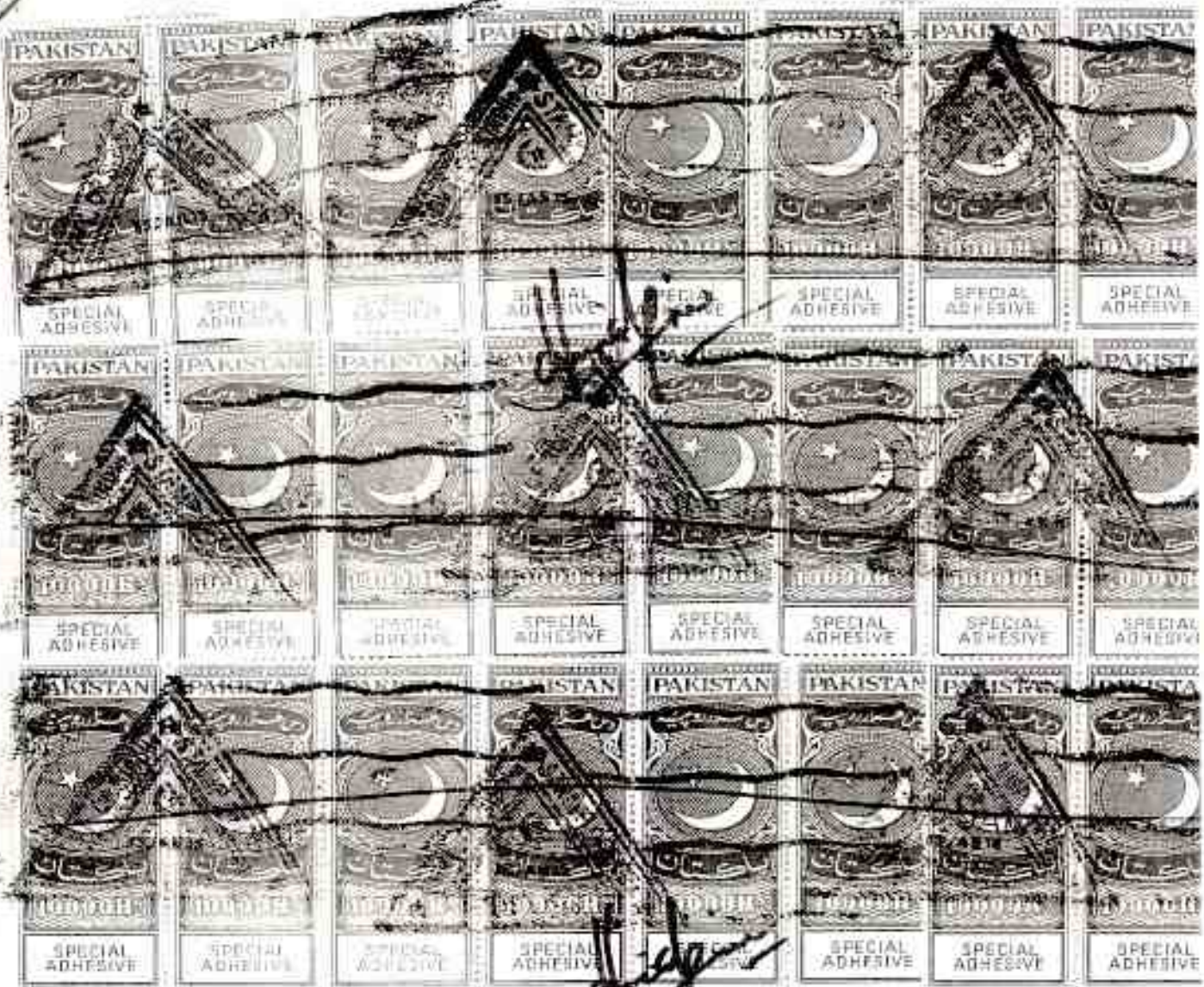
- i. **P05-KHI-37 GBPS Sindhi Jamaat Co-operative Housing Society (Bin Qasim Town)**
- ii. **P05-KHI-38 GBSS Cattle Colony (Bin Qasim Town)**
- iii. **P05-KHI-39 GBELS Waryo Gabol (Gadap Town)**
- iv. **P05-KHI-40 GBSS Yousuf Goth (Gadap Town)**
- v. **P05-KHI-41 GBHS Dumba Village (Gadap Town)**





Construction of double storey building with complete civil works including structural, architectural, plumbing, water supply, sewerage networks and related electrical and mechanical works along with external and landscaping works as described in the Drawings and Bill of Quantities in detail should be executed by the Contractor and has accepted a Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.





NOW this Agreement witnessed as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents after incorporating addenda, if any, except those parts relating to Instructions to Bidders shall be deemed to form and be read and construed as part of this Agreement, viz:
 - (a) The Contract Agreement;
 - (b) The Letter of Acceptance;
 - (c) The completed Form of Bid (FB - 1);

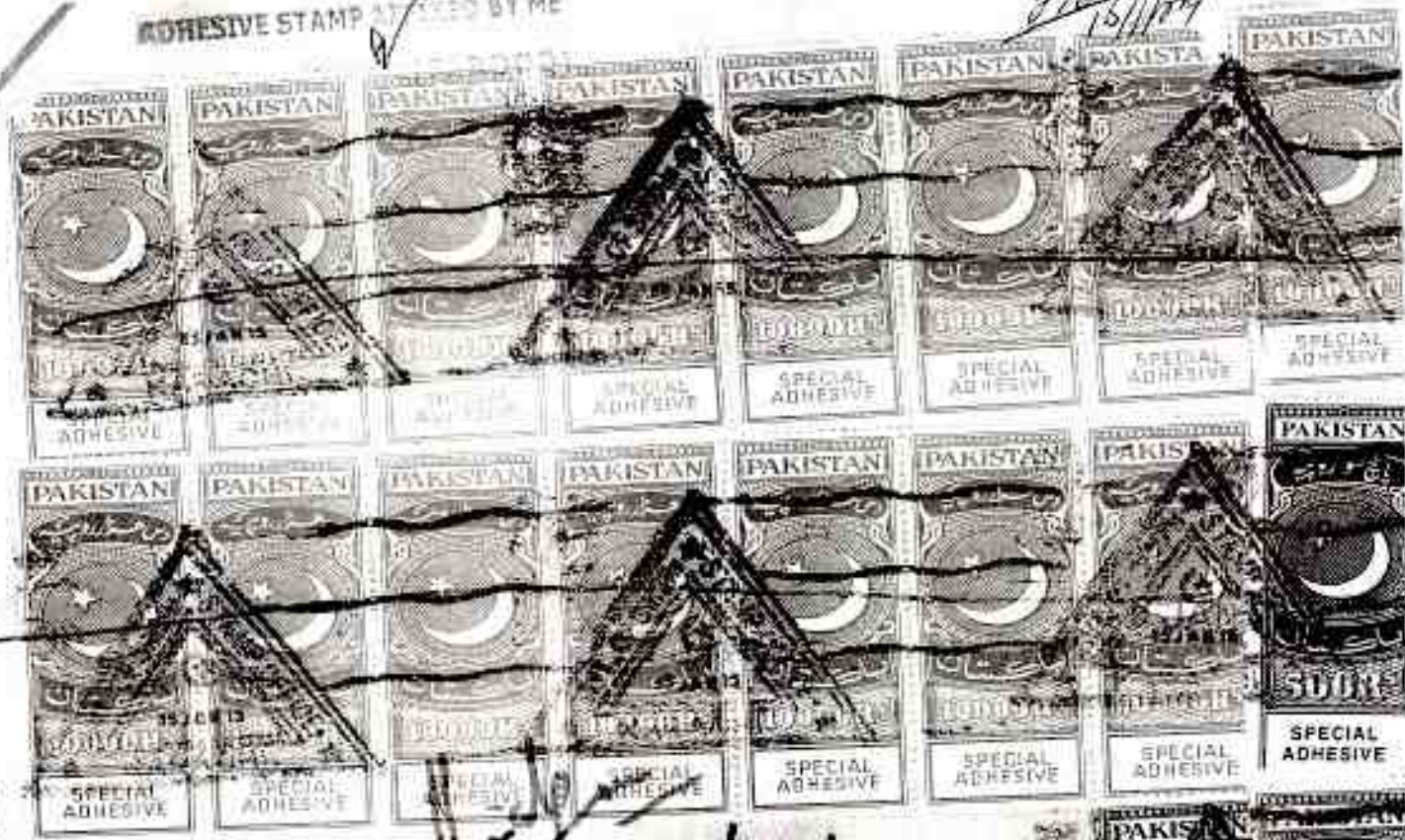
Page 4 of 7



M. A. Khan
Program Director
Sindh Basic Education Program
Government of Sindh

ADHESIVE STAMP ATTACHED BY ME

2/15/15/104



ASSISTANT SUPERINTENDENT OF STAMPS
STAMP OFFICE, CITY COURT,
KARACHI

15/01/2015

15 JAN 2015

- (d) Special Stipulations (Appendix-A to Bid);
- (e) The Particular Conditions of Contract Part II
- (f) The General Conditions - Part I;
- (g) The priced Bill of Quantities (Appendix-D to Bid);
- (h) The completed Appendices to Bid (B, C, E to L);
- (i) The Drawings;
- (j) The Specifications.
- (k) Addendum 1 (Minutes of Pre Bid Meeting)



3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy defects therein in conformity and in all respects with the provisions of the Contract.

Program Director
Sindh Basic Education Program
Government of Sindh



4. The Employer hereby covenants to pay the Contractor, in consideration of the execution and completion of the Works as per provisions of the Contract, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
5. Any dispute if so arises during the project life cycle will be amicably resolved with the decisions of mutually agreed arbitrator, which will be decided later on, who has consented to act as Arbitrator if & when needed.



IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed on the day, month and year first before written in accordance with their respective laws.

Signature of the Contractor




Name: **Ozair Naseer**
CNIC: 42101-2138279-1

(Seal)



Signed, Sealed and Delivered in the presence of:

Witness:



Name: Uzma Hanif
Title: I.S to CEO
CNIC: 42101-5975330-3

Signature of Employer




Name: **Tameezuddin Khero**
CNIC: _____

(Seal)

Witness:



Name: Akram Ali Khouray
Title: Deputy Program Dir
CNIC: 42201-8468355-1

Halcrow Pakistan (Pvt) Limited

3rd Floor, Nawa-e-Waqt House, Mauvo Area, Sector G-7/1, Zero Point, Islamabad, Pakistan
Tel +92 51 220 3451-55 Fax +92 51 220 3462
hpk@halcrowpk.com, www.halcrowpk.com



Zahid Rasheed
Advisor-Technical
M/S. Badar Engineering Works (Pvt.) Ltd,
C-175, Block-09, Gulshan-E-Iqbal,
Near Aziz Bhatti Park, Karachi-75300
Tel: 021-34821159-60

Our ref: SBEP/HPK/PM/P05-001

20 January 2015

Sindh Basic Education Program (SBEP)
Package No: SBEP-P05-KHI-I
Construction of Five (05) Schools in Karachi (Bin Qasim & Gadap Towns)
Engineer's Notice to Commence the Works

Dear Mr. Zahid Rasheed,

Pursuant to Clause 8.1 of the Conditions of Contract for the subject work, you are hereby given notice to commence and proceed with the Works with due expedition and without delay. The date for commencement of works shall be considered as 22nd January 2015 and completion of time shall be calculated accordingly.

Please acknowledge the receipt of this letter.

Thanking you.

Yours sincerely,


Sohail Shamin Siddiqui
Project Manager/The Engineer
A&E Services for SBEP

Encl: -

CC: Mr. Tameezuddin Khero, Program Director, SBEP-PMIU, E&L Deptt. Govt. of Sindh
Ghufran Shafi, Contracting Officer's Representative (COR)-SBEP, USAID Pakistan, Karachi
Ali Hassan Jamali, Construction Manager, A&E Services for SBEP, Halcrow
Muhammad Naveed, Resident Engineer, Package-05, A&E Services for SBEP, Halcrow


BID EVALUATION REPORT


(In compliance to Rule 45 of SPP Rules 2010)


1. Name of Procuring Agency	Program Management & Implementation Unit, Sindh Basic Education Program, Education & Literacy Deptt. Govt. of Sindh
2. Tender Reference No:	Package No. SBEP-P05-KH1-1
3. Tender Description/ Name of Work/Item:	Construction of Five (05) Schools in Karachi (Gadap & Bin Qasim Towns), Package-05
4. Method of Procurement:	Single Stage One Envelope Procedure
5. Tender Published	Tender Documents issued to all the pre-qualified contractor firms vide Letter No. SBEP/USAID/PD/1027/2014 dated 8 th Sept 2014
6. Total Bid documents issued:	26
7. Total Bids Received:	04
8. Technical Bid Opening date (if applicable)	N/A
9. No of Bid technically qualified (if applicable)	N/A
10. Bid(s) Rejected:	01
11. Financial Bid Opening date	16 th October 2014 @ 1530 Hours


12. Bid Evaluation Report:

S #	Name of Firm or Bidder	Cost Offered by Bidder (PKR)	Ranking in terms of cost	Comparison with Engr's Estimated Cost	Reasons for acceptance/rejection	Remarks
1	M/s. Shoukat Khan & Company Lulazar Colony, Mansehra Road Abbottabad	408,170,343/-	3 rd	18.05% above	Higher Rates	---
2	M/s. Al-Shafi Enterprises 7/C Sunset Boulevard, Phase-II, DHA, Karachi	501,926,712/-	2 nd	45.16% above	Higher Rates	---
3	M/s. Badar Engineering Works C-175, Block-9, Gulshan-E-Iqbal, Karachi	326,922,254/-	1 st Lowest	5.59% Below	1 st Lowest evaluated responsive bidder with acceptable market rates	Recommended for award of work
4	M/s. Murtazvi Builders (Pvt.) Ltd. 406, Panorama Centre, Raja Ghazanfar Ali Road, Saddar, Karachi	---	---	---	---	Non- Responsive and rejected as per sub-clause 1B-26.4 of Instructions to Bidders and Rule 10 (2) & 13 (1) (b) of SPP Rules


Addl. Secretary (GA/C) (E&L Deptt.)


Superintending Engineer (W&S)
Defunct CDGK (W&S) Department



Rep. of M/s. Halcrow
Co-opted Member


Chairman / Convener of Committee

SINDH BASIC EDUCATION PROGRAM
CONSTRUCTION OF NEW SCHOOLS FOR UPGRADATION OF EXISTING SCHOOLS
 Package No: SBEP-PC5-KHI-1, Karachi (Bin Qasim & Gadap Towns)

SUMMARY OF COST

S. No	SCHOOL NAME	Engineering Estimate	Min. Social. Cost (M/S. KHA & Co.)	Min. Social. Cost (%)	Min. Social. Est. (Schools)	Min. Social. Cost (%)	Min. Social. Est. (M/S. KHA & Co.)	Min. Social. Cost (%)	Min. Social. Est. (M/S. KHA & Co.)	Min. Social. Cost (%)
1	GBPS Sindhi Jameat Cooperative Housing Society (Bin Qasim Town)	87,501,428	92,068,482	14.9%	132,415,757	47.8%	82,443,073	1.2%		
2	GBSS Castle Colony (Bin Qasim Town)	73,198,715	85,198,168	16.4%	104,499,568	42.8%	70,899,377	-3.0%		
3	GBES Weryo Gabel (Gadap Town)	73,888,423	86,794,232	17.5%	188,543,702	44.2%	78,882,432	2.7%	NON RESPONSIVE	
4	GBSS Yousof Gath (Gadap Town)	59,817,158	70,318,092	17.9%	88,668,292	45.4%	80,206,409	1.8%		
5	GBHS Dumba Village (Gadap Town)	54,285,365	64,582,111	19.0%	78,258,822	45.0%	85,185,429	1.7%		
Sub Total-A		342,471,688	400,546,123	17.0%	492,382,038	43.8%	346,717,310	3.7%		
Rebate offered (if any)		0	0		0		22,791,258	(6.6%)		
Amount After Rebate (Rs.)		342,471,688	400,546,123	1.0%	492,382,038	43.8%	323,926,052	-6.2%		
Subtracting Amount of Provisional Sum for comparison		500,000	500,000		500,000		500,000			
Sub Total-B (Net Cost of School Buildings)		341,971,688	400,046,123	17.0%	491,882,038	43.8%	323,426,052	-6.00%		
Adding Daywork cost (Cumulative for five Schools)		3,801,592	3,124,220		15,044,674		4,356,700			
Total Bid Price (Rs.)		345,773,280	403,170,343	18.05%	506,926,712	45.16%	327,782,752	-5.60%		
Adding Provisional Sum in the bid price of lowest bidder (M/s. Badar Engineering Works)		500,000					500,000			
FINAL BID PRICE (Rs.)		346,273,280					328,282,752	-5.89%		


 Superintendent Engineer, V&S
 Member


 Adm. Secretary (GAC) (E&L Dept.)
 Member


 Rep. of M/s. Halcrow Pakistan Pvt. Ltd.
 Co-Opted Member


 Program Director, PMU-SBEP, E&L Dept. GOS
 Chairman/Convener of Committee



USAID
FROM THE AMERICAN PEOPLE



ORIGINAL

GOVERNMENT OF SINDH
EDUCATION & LITERACY DEPARTMENT
Project Management & Implementation Unit (PMIU)

BID DOCUMENTS

Sindh Basic Education Program (SBEP)
Construction of Five Schools in Karachi, Sindh.
(Bin Qasim & Gadap Towns)

October 2014

be  **Badar
Engineering
Works**

C - 175, Block - 9, Gulshan - e - Iqbal, Karachi.
Tel: +92-21-3482-1159-60 Fax: +92-21-3482-1179
Email: info@badarengineering.com



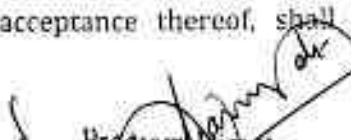
Ref: 786/BEW/USAID/2014/01

Dated: October 16, 2014

Bid Reference No. SBEP-05-KHI-1
(Construction of Five School in Karachi)

The Program Director,
Program Management and Implementation Unit,
Sindh Basic Education Program (SBEP),
Education & Literacy Department, Govt. of Sindh,
H # 29-D, Block-2, Clifton, Karachi Pakistan.

1. Having examined the Bidding Documents including Instructions to Bidders, Bidding Data, Conditions of Contract, Specifications, Drawings and Bill of Quantities and Addenda Nos. / Additional clarifications of Pre Bid Meeting for the execution of the above-named Works, we, the undersigned, offer to execute and complete such Works and remedy any defects therein in conformity with the Conditions of Contract, Specifications, Drawings, Bill of Quantities and Addenda for the sum of Rs: 331,262,437/- (Rupees THREE HUNDRED THIRTY ONE MILLION TWO HUNDRED SIXTY TWO THOUSAND, FOUR HUNDRED THIRTY SEVEN ONLY) or such other sum as may be ascertained in accordance with the said conditions.
2. We understand that all the Appendices attached hereto form part of this Bid.
3. As security for due performance of the undertakings and obligations of this Bid, we submit herewith a Bid Security in the amount of Rs. PKR 4,400,000/- (Rupees: FOUR MILLION, FOUR HUNDRED THOUSAND ONLY) drawn in your favor or made payable to you and valid for a period of 90 days beginning from the date Bids are opened.
4. We/i undertake, if our Bid is accepted, to commence the Works and to complete the whole of the Works comprised in the Contract within the time stated in Appendix-A to Bid.
5. We/i agree to abide by this Bid for the period of 90 days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
6. Unless and until a formal Agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.


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Sindh Basic Education Program
Government of Sindh

Page 1 of 2



Badar Engineering Works

*CIVIL *ELECTRICAL *MECHANICAL *HVAC *INTERIOR WORKS

- 7. We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other bidder for the Works.
- 8. We understand that you are not bound to accept ~~the lowest~~ or any Bid you may receive.
- 9. We undertake, if our/ my bid is accepted, to execute the Performance Security referred to in Clause 4.2 of Conditions of Contract for the due performance of the Contract.

In the capacity of C.E.O duly authorized to sign Bids for and on behalf of
BADAR ENGINEERING WORKS
 Dated this Sixteenth (16th) day of October 2014.

Signature: 
 Ozair Naseer - C.E.O.



Address: C-175, Block-9, Gulshan-e-Iqbal, Karachi.
 Ph: 021-34821159-60
 Fax: 021-34821179

Witness:

Signature: 

Name: ZAHID RASHEED

Address: C-175, BLOCK-9, GULSHAN-E-IQBAL, KARACHI.
MOBILE # 0310 2163684

Occupation: TECHNICAL ADVISOR
BADAR ENGINEERING WORKS.


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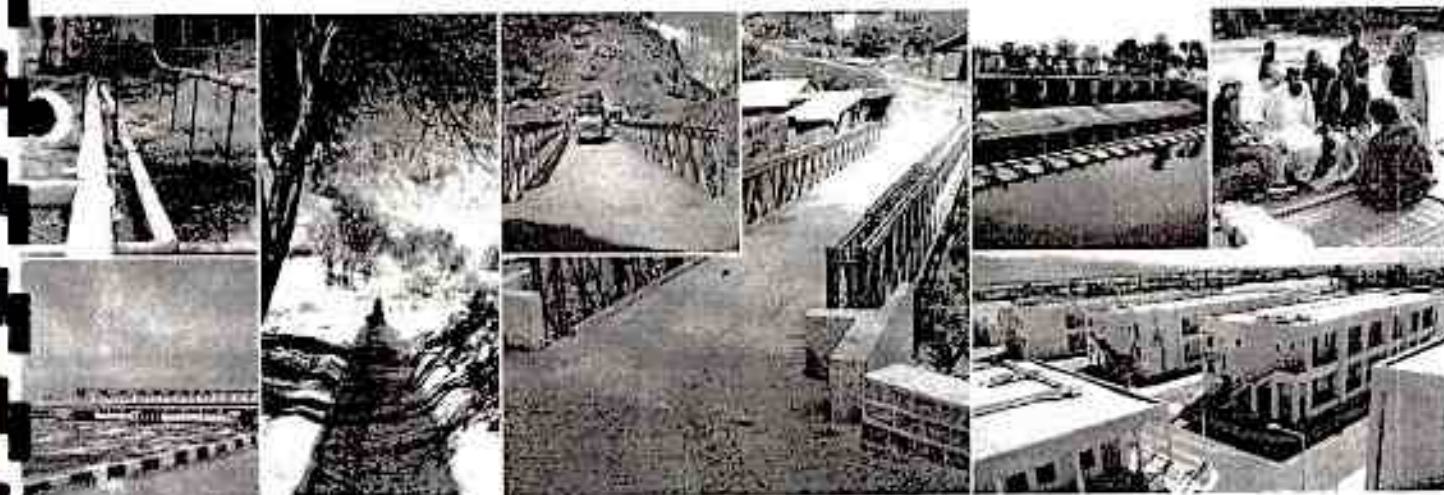
GOVERNMENT OF SINDH, EDUCATION & LITERACY DEPARTMENT

Project Management Implementation Unit (PMIU)

SINDH BASIC EDUCATION PROGRAM

Construction of Schools in Karachi City, Sindh

(Bin Qasim and Gadap Towns)



PACKAGE NO. SBEP-P05-KHI

Tender & Contract Documents

Volume-II

Bill of Quantities

JUNE, 2014




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Sindh Basic Education Program
Government of Sindh



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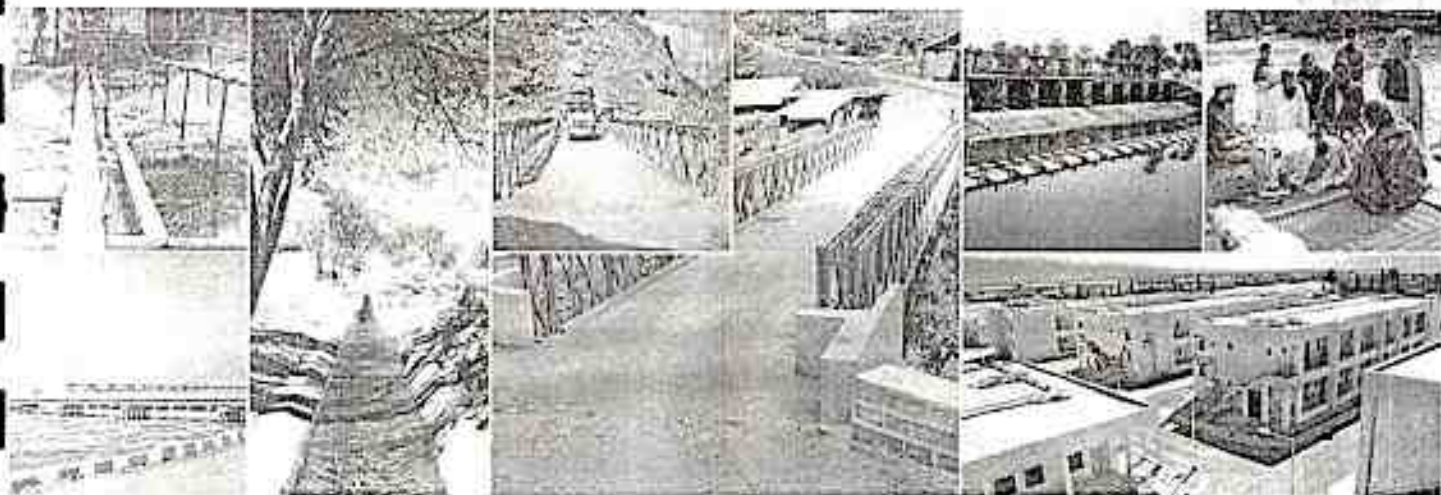
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SINDH BASIC EDUCATION PROGRAM

Construction of Schools in Karachi City, Sindh

(Bin Qasim and Gadap Towns)



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JUNE, 2014



[Signature]
alcrow
Program Director
Sindh Basic Education Program
Government of Sindh

GOVERNMENT OF SINDH, EDUCATION & LITERACY DEPARTMENT

Project Management Implementation Unit (PMIU)

SINDH BASIC EDUCATION PROGRAM

Construction of Schools in Karachi City, Sindh

(Bin Qasim and Gadap Towns)

Tender & Contract Documents

Volume Distribution

Volume-I:

Instructions to Bidders

Tender & Contract Forms

Conditions of Contract

Volume-II:

Bill of Quantities

Volume-IIIA:

Specifications – Special Provisions

Volume-IIIB:

Specifications – Technical Provisions

Volume-IV:

Drawings

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Government of Sindh



Construction of Schools Under
Sindh Basic Education Program

PACKAGE NO. SBEP-P05-KHI

Tender & Contract Documents

Volume II

Bill of Quantities

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2	Bill of Quantities (as per separate TOC attached)	4
3	Day Schedule	269
4	Summary of Cost	277
Annexure 1	Borehole Plans & Logs	
Annexure 2	Approved Supplier/Manufacturers	
Annexure 3	Tender Analysis Format	



1 - PREAMBLE TO BOQs



BILL OF QUANTITIES

Preamble

1. The Bill of Quantities shall be read in conjunction with the Conditions of Contract, Specifications and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work executed and measured by the Contractor and verified by the Engineer and valued at the rates and prices entered in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix as per the Contract.
3. The rates and prices entered in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the Contract include all costs of Contractor's plant, labour, supervision, materials, execution, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the Contract to execute and complete the Works as listed in the BOQ. Furthermore all duties, taxes and other levies payable by the Contractor under the Contract, or for any other cause, as on the date 14 days prior to deadline for submission of Bids, shall be included in the rates and prices and the total Bid Price submitted by the Bidder.
4. A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of item against which the contractor will have failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
5. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of the Works.
6. General directions and description of work and materials are not necessarily repeated nor summarised in the Bill of Quantities. References to the relevant sections of the Bidding Documents shall be made before entering prices against each item in the priced Bill of Quantities.
7. Provisional sums included and so designated in the Bill of Quantities shall be expended in whole or in part at the direction and discretion of the Engineer in accordance with Sub-Clause 13.5 of Part I, General Conditions of Contract.
8. Notwithstanding provision of Clause 13 of the General Conditions of Contract, no claim for extra payment will be admissible on account of anticipated profit or
 variation in overheads expenditure for the works not actually performed nor will any adjustment in the unit rate set forth in the Bill of Quantities be made because of any increase or decrease in the quantities indicated therein.



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Government of Sindh

9. The rates quoted in the rate column are full value of unit prices as shown in unit column and are firm and final and shall be full compensation for the works involved as per Drawings, Specifications and Contract Conditions.
10. Bore log is attached as Annexure-1 to this BOQ with tender documents for ease of understanding by the Contractor to established the quality of excavated material available for backfill from within the excavated earth, prior to start of work and also prior to quoting rates.
11. List of approved manufacturer is enclosed as Annexure-2 herewith BOQ for guidance only. The Contractor shall select source/manufacturer of different materials and submit to the Engineer for review and approval before making any procurement.
12. The contractor shall submit details of Rate Analysis / breakdown of cost for each item as per the format enclosed herewith as Annexure-3.


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Government of Sindh



2 – SCHOOL WORKS BOQs



GBPS SINDHI MUSLIM CO-OPERATIVE SOCIETY
(P05-KHI37)


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Government of Sindh



SINDH BASIC EDUCATION PROGRAM
CONSTRUCTION OF NEW SCHOOLS AND UPGRADATION OF EXISTING SCHOOLS
Package- 05: Karachi, City
GBPS SINDHI MUSLIM JAMAT COOPERATIVE, BIN QASIM TOWN
SUMMARY OF TENDERED COST

CODE	DESCRIPTION	AMOUNT IN PAK.RUPEES
------	-------------	----------------------

A. GENERAL ITEMS	4,575,195	1534495/-
B. CIVIL WORKS	5,756,871	57247876/-
C. EXTERNAL WORKS	14,676,106	14,616,661/-
D. ELECTRICAL WORKS	5,124,060	5,125,066/-
E. PLUMBING WORKS	3,919,781	
F. DAYWORK COST	4,956,105	

Sub-Total	87,820,418/-
-----------	---------------------

82,443,873/-

[Signature]
 Program Director
 Sindh Basic Education Program
 Government of Sindh



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
Temporary Facilities (Optional Items)						
Ref.Spec. No. G05						
01- 01 G 1	Providing and maintaining a rental building of area 1,500 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, water supply and sanitation complete in all respect as directed by the Engineer.	12	Month	2,000		24,000/-
OR						
01- 01 G 2	Providing and maintaining a tent school of area 1,500 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, water supply and sanitation complete in all respect as directed by the Engineer.	12	Month	2,500		30,000/-
OR						
01- 01 G 3	Providing and maintaining porta cabins for school of area 1,500 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, airconditioning, water supply and sanitation complete in all respect as directed by the Engineer.	12	Month	1,500		18,000/-
OR						
01- 01 G 3A	Shifting of furnitures and equipments and reinstall etc from existing school to rental building and reinstall as per specification and directed by the engineer.	1	L.S	25,000		25,000/-
01- 01 G 5	Repair & renovation of existing Government building proposed for temporary school during the construction. (The payable amount shall be assessed as per actual rehabilitation work on selected building and as per recommendation by the Engineer on BOQ rates of similar items quoted in the bid).	P.S.	P.S.			500,000
Sub- Total (Rs.)						559,000/-
Site Clearing and Grubbing						
Ref.Spec. No. G01						
01- 01 G 4	Clearing and Grubbing complete in all respect as directed by the Engineer.	31,019	Sft	5		155,095/-
DISMANTLING WORK						
Ref.Spec. No. G04						
01- 01 G 5	Dismantling, removing of existing building structure and foundations including disposal of debris materials to designated places/location as directed by the Engineer. All the dismantled materials shall be contractor's property and rate/price of dismantling work should include compensation of such items obtained by the Contractor from existing building.	1,160	Sft	20		23,200/-
01- 01 G 6	Dismantling, removing of existing sewerage lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.	20		1,000/-
01- 01 G 7	Dismantling, removing of existing water supply lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.	20		1,000/-
01- 01 G 8	Dismantling, removing of existing electrical supply line as directed by the Engineer.	150	Rft.	100		15,000/-

559,000

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Sindh Basic Education Program
Government of Sindh

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
01- 01 G 9	Dismantling of existing boundary wall as shown in the drawing including disposal of surplus material and as directed by the Engineer. Dismantled material shall be contractor's property.	320	Rft	200		32,000/-
01- 01 G 9A	Dismantling of existing walkways/platform/water tank ramp etc and flooring as shown in the drawing/ as per site including disposal of surplus material and as directed by the Engineer. Dismantled material shall be contractor's property.	2,740	Sft	30		82,200/-
POWER SUPPLY & TELECOMMUNICATION						
01- 01 G 10	Providing, installing, testing and commissioning of electrical supply line for re-routing as per new plan including cables, all fixtures, connections and all related civil works as directed by the Engineer.	1	Job	200,000		200,000/-
01- 01 G 11	Providing, installing, testing and commissioning of telephone line for re-routing as per new plan including cables, all fixtures, connections and all related civil works as directed by the Engineer.	1	Job	20,000		20,000/-
SIGN BOARD / PLAQUE Ref.Spec. No. SP 100						
01- 01 G 12	Providing and installation of Project sign board as per drawing complete including all civil related works, foundations, earthwork concrete, protection works complete as directed by the Engineer.	1	Job	20,000		20,000/-
01- 01 G 13	Providing, construction and installation of Inauguration Plaque as per drawing complete including all civil related works, foundations, earthwork concrete, protection works etc complete as directed by the Engineer.	1	Job	50,000		50,000/-
02- 01 G 14	Providing and maintenance of the Engineer's facilities at individual school site as per clause 44, Section-100 (SP), Volume-III (A), Specifications-Special Provisions. All items/ materials/ equipment shall become contractor's property at the completion of works.	12	Month	30,000		360,000/-
WATER TESTING Ref.Spec. No.						
01- 01 G 15	Sampling and testing of Water from bore of well (TDS) including submission of report as per specification.	1	Each	20,000		20,000/-
Total General Items (Rs.)						739,495/-
Sub- Total C/o to Summary General Items Pak Rs.						1576495/-

1534,495/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
CONSTRUCTION OF SCHOOL BUILDING						
SUB-STRUCTURE						
EARTHWORKS						
Ref Spec. No. C02						
01- 02 C.1	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places a) 0 ft to 5 ft b) More than 5 ft upto 10 ft.	38515 11344	Cft. CR.	15 15		577725/- 170,160/-
01- 02 C.2	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material source to be approved by the Engineer) upto free haulage limit.	24930 117181	Cft. Cft.	10 28		249,300/- 3,281,068/-
01- 02 C.2A	Engineered fill layer not exceeding 6" thick with ASSHTO A-1-a type material & soling with compaction should be 98% MDD. (Maximum Dry density) selected materials including watering and compaction to every layer as per specification and drawings. a) Stone soling 12" compacted layer b) Fill layer not exceeding 6" thick with ASSHTO A-1-a type material.		Cft. Cft.	1200 1,500		
01- 02 C.2B	Plate load test as per specifications, including in all respect work complete performe and test reports with any number of tests as required by the engineer.		Rate only Rate only L.s			500,000/-
DEWATERING						
Ref. Spec. No. G03						
01- 02 C.3	Designing, providing and installation of complete dewatering system including boring, strainer, filter and other all materials, pumping and disposal of water upto Engineer's satisfaction and to keep the construction surface dry all the time. a) Completion of installation works at site, up 100% running/ working position b) Dewatering, days not allow more than/ maximum payable	1 20	LS. Day	1,200,000 20,000		1,200,000/- 200,000/-
TERMITE CONTROL TREATMENT						
Ref. Spec. No. C03						
01- 02 C.4	Termite control treatment to surfaces following structures complete in all respect as per specification (Only plan area will be measured)	11525	Sq. ft.	32		368,800/-
REINFORCEMENT						
Ref. Spec. No. C04						
01- 02 C.5	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi	AS 110,000	ton			495,000/- 4730,000/-
01- 02 C.6	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi	Rate only 135,000	ton			0.00 135,000/-
PLAIN AND REINFORCED CONCRETE AND FORMWORKS						
Ref. Spec. No. C04						
01- 02 C.7	Blinding concrete 1250 psi using slag cement conforming to BS-146	2930	Cft.	160		468,800/-



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Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 8	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Isolated foundations b) Columns upto plinth c) Plinth beams d) SOG & Ramps Slabs e) Walls: <u>SITU CONCRETE 1:3:6</u> Ref.Spec. No. C04	10252 2124 2789 158 50	Cft. Cft. Cft. Cft. Cft.	256 256 256 256 270		262,512/- 543,744/- 708,864/- 40,448/- 13,500/-
07- 02 C 9	Situ concrete 1:3:6, with formwork under the plinth beam thickness as per drawings; using slag cement conforming to BS-146, straight or curve at any level including all anchors required to be built in Rec columns, pedestals, complete in all respect as per drawings and specifications. <u>BRICK MASONRY</u> Ref.Spec. No. C05	3474	Cft.	235		816,390/-
07- 02 C 9 A	Solid brick masonry under the plinth beam of one and half brick thickness, set in 1:4 using slag cement conforming to BS-146 & sand mortar, straight or curve at any level including all anchors required to be built in brick masonry, complete in all respect as per drawings and specifications. <u>HARDCORE/ STONE SOLING</u> Ref.Spec. No. C07	Rate only	Cft.	200		
01- 02 C 10	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings. <u>P.C.C UNDER FLOORING</u> Ref.Spec. No. C07	8563	Sq. ft.	40		342,520/-
01- 02 C 11	PCC 4" thick plain cement concrete (using slag cement conforming to BS-146) sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer. <u>PLINTH PROTECTION</u> Ref.Spec. No. C04 & C07	8563	Sq. ft.	185		158,415/-
01- 02 C 12	Blinding concrete 1250 psi using slag cement conforming to BS-146 <u>PROTECTION WORKS</u> Ref.Spec. No. C16	690	Cft.	210		144,900/-
01- 02 C 13	Vapor barrier sheet, under the floor as per drawings and specifications.	8563	Sq. ft.	40		342,520/-
01- 02 C 14	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	24796	Sq. ft.	30		743,880/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
SUPER-STRUCTURE WORKS						
<u>Ground Floor (From Plinth level to 1st Slab)</u>						
REINFORCEMENT						
Ref. Spec. No. C04						
01- 02 C 15	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	32	ton.	110,000		3,520,000/-
01- 02 C 16	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.		ton.	135,000		0.0
PLAIN AND REINFORCED CONCRETE AND FORMWORKS						
Ref. Spec. No. C04						
01- 02 C 17	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification:					
	a) Columns	1526	Cft.	256		390,656/-
	b) Beams & lintels	2171	Cft.	256		555,776/-
	c) Slab & projections	5582	Cft.	256		1,428,992/-
	d) Stair cases	373	Cft.	300		104,440/-
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts.	259	Cft.	550		112,450/-
	f) Parapet wall for stair cases	83	Cft.	300		24,900/-
<u>First Floor (From 1st Slab to 2nd slab)</u>						
REINFORCEMENT						
Ref. Spec. No. C04						
01- 02 C 18	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	34	ton.	110,000		3,740,000/-
01- 02 C 19	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.		ton.	135,000		0.0
PLAIN AND REINFORCED CONCRETE AND FORMWORKS						
Ref. Spec. No. C04						
01- 02 C 20	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification:					
	a) Columns	1680	Cft.	256		432,480/-
	b) Beams & lintels	2204	Cft.	256		564,224/-
	c) Slab & projections	5765	Cft.	256		1,475,840/-
	d) Stair cases	175	Cft.	350		61,250/-
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts	206	Cft.	550		113,300/-
	f) Parapet wall for stair cases	32	Cft.	350		11,200/-
<u>Second Floor / Roof (From 2nd slab to 3rd slab & tower)</u>						
REINFORCEMENT						
Ref. Spec. No. C04						
01- 02 C 21	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	4	ton.	110,000		440,000/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 22	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.		ton	135,000		07 135,000/-
PLAIN AND REINFORCED CONCRETE AND FORMWORKS						
01- 02 C 23	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures components complete in all respect as per drawings and specification:					
	a) Columns	108	CH.	325		37,800/-
	b) Beams & Intels	137	CH.	350		47,950/-
	c) Slab & projections	230	CH.	270		62,100/-
	d) Parapet Wall/ Purdi	815	CH.	266		208,640/-
	e) Precast coping for parapet wall at roof and erecting/ facing including shuttering and all accessories and/or embedded parts.	1000	Rt.	215		215,000/-
	g) Over head water tank, column, walls & slab	396	CH.	315		124,740/-
	f) Others Misc Str	20	CH.	400		8,000/-
FINISHING WORKS						
For Ground floor						
BLOCK MASONRY						
01- 02 C 24	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 4" thick	1863	CH.	310		577,530/-
	b) 6" thick	279	CH.	250		69,750/-
	c) 8" thick	5430	CH.	120		705,900/-
	d) 4" thick, external cavity; wall with all accessories/ arrangements for stone tile facing or Color Crete finishing including cavity arrangements / accessories/ anchorages, angle irons and metal fusing & PVC pipe as weep hole etc at any height and level.	1845	CH.	400		738,000/-
BRICK MASONRY						
01- 03 C 24 A	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.					
	a) 4-1/2" thick		CH.	620		
	b) 3" thick		CH.	520		
	c) 13-1/2" thick		CH.	410		
DOORS FRAMES						
01- 02 C 26	Ref. Spec. No. C09 & C11 G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and pattern detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	752	Rt.	322		242,144/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	CEMENT PLASTER Ref. Spec. No. C06					
01- 02 C 25	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	375	Sq. ft.	80		30,000/-
01- 02 C 28	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	8780	Sq. ft.	40		351,200/-
01- 02 C 29	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	20773	Sq. ft.	40		830,920/-
	ALUMINIUM WORKS Ref. Spec. No. C11					
01- 02 C 30	Supply and fix in position as specified anodized aluminum operable windows and ventilators of 2"x4" section, approved manufacturer having minimum wall thickness not less than 1.6 mm with netted shutter and 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fittings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	1733	Sq. ft.	600		1,039,800/-
01- 02 C 31	Supply and fix in position as specified anodized aluminum doors with fixed panel both side and top of approved 2"x4" section, manufacturer having minimum wall thickness not less than 1.6 mm with 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fittings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	116	Sq. ft.	850		98,600/-
	STRUCTURAL STEEL Ref. Sec. No. C13					
01- 02 C 32	Mild steel grills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings and specification.	2166	Kg	150		324,900/-
01- 02 C 33	Providing and fixing railing for stairs/ramps as per drawing and specifications complete in all respect. a) MS railing stairs b) M.S railing at entrance	54 60	Rft Rft	950 1100		51,300/- 66,000/-
01- 02 C 34	Providing and fixing MS pipe railing for courtyard with paintings, as per drawing and specifications complete in all respect and approved by the Engineer.	177	Rft	750		132,750/-
01- 02 C 35	Providing and fixing MS folding gate (Emergency Exit) with paintings, complete in all respects as per drawing and specifications.	2	No	80,000		1,60,000/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 35 A	Providing and fixing MS folding Main entrance gate with paintings, complete in all respects as per drawing and specifications.	1	No	110,000		110,000/-
FLOOR AND WALL FINISHES						
Ref Spec. No. C07						
01- 02 C 36	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	7841	Sq ft.	175		1,372,175/-
01- 02 C 37	Providing and laying terrazzo tile for entrance ramp (3/4" thick) with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	75	Sq.ft.	250		18,750/-
01- 02 C 38	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	494	Sq ft.	65		32,110/-
01- 02 C 39	Porcelain tile floor (type) using tile of size 8"x8" (full body), approved quality, colour and shade laid in approved pattern set in specified mortar including cement concrete base, complete in all respect as shown on the drawings and specifications.	730	Sq.ft.	130		94,900/-
01- 02 C 40	Porcelain tile in Dado using tile of size 8"x8", quality, colour and shade laid in approved pattern including rough plaster base complete in all respect as shown on drawings and specifications.	3654	Sq.ft.	130		475,020/-
MARBLE WORKS						
Ref Spec. No. C07 & C08						
01- 02 C 41	Pre-polished marble on entrance steps, stairs, ramp & floor etc using approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.					
	a) Entrance Steps & Platform (3/4" thick)	325	Sq.ft.	750		243,750/-
	b) Entrance Steps-Risers (1/2" thick)	60	Sq.ft.	700		42,000/-
01- 02 C 42	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	362	Sq ft.	750		271,500/-
01- 02 C 43	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	105	Sq.ft.	750		79,500/-
01- 02 C 44	Pre-polished marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect as shown on the drawings.	53	Sq.ft.	750		39,750/-



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Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 45	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc. colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	83	Sq.ft.	750		62,250/-
	PAINTING Ref.Spec. No. C10					
01- 02 C 46	Providing and applying three or more coats of distemper paint to C.C.Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	8780	Sq.ft.	28		245,840/-
01- 02 C 47	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	20773	Sq.ft.	40		830,920/-
01- 02 C 48	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	375	Sq.ft.	45		16,875/-
	WOODEN DOORS Ref.Spec. No. C09					
01- 02 C 49	Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partial wood frame and infill, polish, color/lacker, beading/ Architrave, with all hardware (Locks, door closer, door stopper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	1093	Sq.ft.	800		874,400/-
01- 02 C 50	Fixed 6mm plain laminated glass panel part at above door panel with solid wood batten including teak polish/lacker at both sides around the glass of approved type, quality complete in all respect as shown on the drawings and specifications.	148	Sq.ft.	1200		177,600/-
	FALSE CEILING Ref.Spec. No. C14					
01- 02 C 51	1/2" thick gypsum board ceiling including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on the drawings and specifications.	730	Sq.ft.	187		136,510/-
	Pre cast C.C Patren jali Ref.Spec. No C18, C5					
01- 02 C 52	C.C Patren jali as per approved designed and specification	360	Sq.ft.	120		43,200/-

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Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
CLADDING/ EXTERNAL FACING						
01- 02 C 53	Ref. Spec. No. C19 & C20 Providing and laying stone cladding stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using mortar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	5691	Sq ft	100		559,100
01- 02 C 53.A	Providing and laying Color-Crete with 3/4" Cement sand plaster on external facing as per approved sample type size mentioned in drawings and specifications with expanded materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using mortar 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	3074	Sq.ft.	50		153,700
01- 02 C 53.B	Ref. Spec. No. C05 Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq.ft.	800		
FINISHING WORKS						
For First floor						
BLOCK MASONRY						
01- 02 C 54	Ref. Spec. No. C18 Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, wall ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.	551	Cft.	310		170,810
	a) 4" thick	63	Cft.	250		15,750
	b) 6" thick	6198	Cft.	130		805,740
	c) 8" thick					
	d) 4" thick, external cavity; wall with all accessories arrangements for stone tile facing or Color Crete finishing including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	1845	CR.	400		738,000

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	BRICK MASONRY Ref Spec. No. C05					
01- 02 C 54 A	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.					
	a) 4-1/2" thick	Rate only	Cft.	610		
	b) 9" thick	Rate only	Cft.	500		
	c) 13-1/2" thick	Rate only	Cft.	410		
	DOORS FRAMES Ref. Spec. No. C09 & C11					
01- 02 C 55	G.I. frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and palam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	725	R.R.	310		224,750/-
	CEMENT PLASTER Ref. Spec. No. C 08					
01- 02 C 55	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers including complete in all respect as shown on the drawings.	175	Sq.ft.	80		14,000/-
01- 02 C 57	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	8713	Sq.ft.	40		348,520/-
01- 02 C 57 A	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	20562	Sq.ft.	40		822,480/-
	ALUMINIUM WORKS Ref. Spec. No. C 11					
01- 02 C 55	Supply and fix in position as specified anodized aluminum openable windows and ventilators of 2"x4" section, approved manufacturer having minimum wall thickness not less than 1.6 mm with netted shutter and 6mm plain laminated glazing of approved brand and Standard and all imported ironmongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	1434	Sq.ft.	600		848,400/-
	STRUCTURAL STEEL Ref. Sec No. C 13					
01- 02 C 59	Mild steel grills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings.	1739	Kg	150		260,850/-
01- 02 C 60	Providing and fixing MS stair railing as per drawing and specifications complete in all respect.	30	R.R.	950		28,500/-



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Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 61	Providing and fixing MS pipe railing for courtyard with paintings, as per drawing and specifications complete in all respect and approved by the engineers.	201	Rft	1000		201,000/-
FLOOR AND WALL FINISHES						
Ref. Spec. No. C 07, 08						
01- 02 C 62	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	9213	Sq. ft.	175		1,622,275/-
01- 02 C 63	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	576	Sq. ft.	65		37,440/-
01- 02 C 64	Porcelain tile floor (type) using tile of size 8"x8" (full body), approved quality, colour and shade laid in approved pattern set in specified mortar including cement concrete base, complete in all respect as shown on the drawings.	500	Sq. ft.	130		65,000/-
01- 02 D 65	Porcelain tile in Dado using tile of size 8"x8", quality, colour and shade laid in approved pattern including rough plaster base complete in all respect.	2364	Sq. ft.	130		307,320/-
MARBLE WORKS						
Ref. Spec. No. C 07, 08						
01- 02 C 66	Pre-polished marble on stairs/steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	176	Sq. ft.	750		1,32,000/-
01- 02 C 67	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	60	Sq. ft.	800		49,000/-
01- 02 C 68	Pre-polished marble tile for counter tops & other area 3/4" thick using of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including complete in all respect as shown on the drawings.	50	Sq. ft.	750		37,500/-
01- 02 C 69	Pre-polished Marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	34	Sq. ft.	750		25,500/-
01- 02 C 70	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	45	Sq. ft.	750		33,750/-


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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	PAINTING					
01-02 C 71	Ref Spec. No. C 10 Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	2713	Sq.ft.	28		243,941/-
01-02 C 72	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	20562	Sq.ft.	40		822,480/-
	WOODEN DOORS					
01-02 C 73	Ref Spec. No. C 09, 12 Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partial wood frame and infill, polish, color/ lacker, beading/ Architrave, with all hardware: (Locks, door closer, door stopper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	1071	Sq.ft.	800		856,800/-
01-02 C 74	Fixed 8mm plain laminated glass panel part at above door panel with solid wood batten including teak polish/ lacker at both sides around the glass of approved type, quality complete in all respect as shown on the drawings and specifications.	93	Sq.ft.	1200		111,600/-
	FALSE CEILING					
01-02 C 75	Ref Spec. No C14 12mm thick gypsum board ceiling including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on the drawings and specifications.	635	Sq.ft.	185		117,475/-
	Pre cast C.C Pattern jali					
01-02 C 76	Ref Spec. No C18, C5 C.C Pattern jali as per approved designed and specification	731	Sq.ft.	120		87,720/-
	STONE CLADDING/ COLOR-CRETE/ EXTERNAL FACING					
01-02 C 77	Ref Spec. No. C19 & C20 Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and Instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using molar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	5591	Sq.ft.	100		559,100/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 77 A	Providing and laying Color-Crete with 3/4" Cement sand plaster on external facing as per approved sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal fusing etc at any height and level using mortar 1:4, as per size, Design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	3074	Sq.ft.	50		153,700/-
01- 02 C 77 B	Ref.Spec. No. C05 Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq.ft.	800		
WATER PROOFING AND BUILTUP ROOFING						
01- 02 C 78	Ref.Spec. No.C 16 Water proofing and built up roofing over roof slab comprising all the layers and coatings etc as shown in the drawings and specifications.	11795	Sq.ft.	125		1474375/-
FINISHING WORKS						
For Roof floor / Second floor						
BLOCK MASONRY						
01- 02 C 79	Ref.Spec. No. C18 Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block RCC structures for masonry, complete in all respect as per drawings and specifications					
	a) 4" thick	30	Cft.	310		9,300/-
	b) 6" thick	50	Cft.	250		12,500/-
	c) 8" thick	430	Cft.	240		103,200/-
	d) 4" thick, external cavity; wall with all accessories arrangements for stone tie facing or Color Crete finishing including cavity arrangements / accessories, anchorages, angle irons and metal fusing & PVC pipe as weep hole etc at any height and level.	1347	Cft.	400		538,800/-
BRICK MASONRY						
01- 02 C 79A	Ref.Spec. No. C05 Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.					
	a) 4-1/2" thick	Rate only	Cft	610		
	b) 9" thick	Rate only	Cft	510		
	c) 13-1/2" thick	Rate only	Cft	420		



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	DOORS FRAMES					
	Ref. Spec. No. C09 & C11					
01- 02 C 80	Q.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door. complete hardware/ fitting material (Hold fast & mortar etc) sizes and patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	35	R.ft.	300		10,500/-
	CEMENT PLASTER					
	Ref. Spec. No. C 08					
01- 02 C 81	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection, parapet or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and as per elevation complete in all respect as shown on the drawings.	2504	Sq.ft.	50		125,200/-
01- 02 C 82	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	388	Sq.ft.	40		15,520/-
01- 02 C 83	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams, plaster, at any height with all scaffoldings etc.	928	Sq.ft.	40		37,120/-
01- 02 C 84	3/4" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls to O.H.W Tank etc with making of chamfer corner in plaster as per drawings and specifications.	305	Sq.ft.	80		24,400/-
01- 02 C 85	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating.	150	Sq.ft.	40		6,000/-
01- 02 C 85	Water proofing coating treatment to all horizontal surfaces in contact with water shall be treated with 1 coat of crystalline water proofing coating.	210	Sq.ft.	40		8,400/-
01- 02 C 86	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivalent, including fixing of frame and embedded parts in concrete and painting, complete in all respect as per specification and as directed by the Engineer.	2	No.	18,000		36,000/-
01- 02 C 86 A	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer. (For O.H.W tank)	4	No.	500		2,000/-
	FLOOR AND WALL FINISHES					
	Ref. Spec. No. C 07, 08					
01- 02 C 87	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	180	Sq.ft.	175		31,500/-
01- 02 C 88	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	15	Sq.ft.	65		975/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	MARBLE WORKS					
01- 02 C 85	Ref. Spec. No. C 07, 08 Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc. colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	6	Sq.ft	750		4,500/-
	PAINTING					
01- 02 C 90	Ref. Spec. No. C 10 Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	388	Sq.ft	28		10,864/-
01- 02 C 91	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	928	Sq.ft	40		37,120/-
01- 02 C 92	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc complete in all respect as directed by the Engineer.	2504	Sq.ft	45		112,680/-
	WOODEN DOORS					
01- 02 C 93	Ref. Spec. No. C 09, C12 Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core panel wood frame and infill, polish, color/ laker, beading/ Architrave, with all hardware (Locks, door closer, door stopper, push plate kick plate etc) as per schedule and finish with laker polish complete in all respect as shown on the drawings and specifications.	45	Sq.ft.	1,100		49,500/-
	Precast C.C Patren jali and Railing					
01- 02 C 94	Ref. Spec. No C18, C5 & C21 C.C Patren jali as per approved designed and specification	100	Sq.ft.	120		12,000/-
01- 02 C 95	Precast water spout as per approved designed and specification	15	No	500		7,500/-
	CLADDING/ EXTERNAL FACING					
01- 02 C 96	Ref. Spec. No. C19 & C20 Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using mortar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	4083	Sq.ft.	100		408,300/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
02 C 97	Providing and laying Color-Crete with 3/4" Cement sand plaster on external facing as per approved sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal fixing etc at any height and level using mortar 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	566	Sq ft.	50		28,300/-
01- 02 C 98	Ref Spec. No C05 Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq ft.	800		
Total C/o to Summary for CIVIL WORKS Pak Rs.						57,557.87/-

57,557.87/-
57,247.876/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
EXTERNAL DEVELOPEMENT						
CONSTRUCTION OF BOUNDARY WALL						
Ref Spec. No. C02						
EARTHWORKS						
Ref. Spec. No.						
01-03 D 1	Excavation in all kinds of sub-surface materials, timbering upto following depths including disposal of surplus / rejected excavated materials to designated places.					
	a) 0 ft to 5 ft	3,076	Cft.	18		55,404/-
01-03 D 2	Fill and backfill with selected materials including watering and compaction to every layer as per specification.					
	a) From suitable excavated material (from stockpile of excavated materials)	1,539	Cft.	10		15,390/-
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	11,608	Cft.	30		348,180/-
01-03 D 3	Area fill with selected materials from outside source including watering and compaction to every layer as per specification for Play ground.	28,638	Cft.	30		856,170/-
DEWATERING						
Ref. Spec. No. G03						
01-03 D 4	Designing, providing and installation of complete dewatering system including boring, strainer, filter and other all materials, pumping and disposal of water upto Engineer's satisfaction and to keep the construction surface dry all the time.					
	a) Completion of installation works at site, up 100% running/ working position	1	L.S	1,200,000		1,200,000/-
	b) Dewatering	10	Day	10,000		1,00,000/-
TERMITE CONTROL TREATMENT						
Ref. Spec. No. C03						
01-03 D 5	Termite control treatment to surfaces following structures complete in all respect as per specification. (Only plan area will be measured)	2,465	Sq. ft.	32		78,880/-
REINFORCEMENT						
Ref. Spec. No. C04						
01-03 D 6	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	6.45	ton.	110,000		709,500/-
PLAIN AND REINFORCED CONCRETE						
Ref. Spec. No. C04						
01-03 D 7	Blinding concrete 1250 psi using slag cement conforming to BS-146	614	Cft.	210		127,940/-
01-03 D 7A	Situ concrete 1:3:6, with formwork under the pinth beam thickness as per drawings, using slag cement conforming to BS-146, straight or curve at any level including all anchors required to be built in RCC columns pedestals, complete in all respect as per drawings and specifications.	447	Cft.	256		114,432/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D08	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Footings b) Columns upto plinth c) Plinth beams	870 187 537	Cft. Cft. Cft.	202.50 202.50 202.50		217,500 47,872 137,472
01- 03 D09	Reinforced cement concrete using CP cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification. a) Columns <u>BLOCK MASONRY</u> Ref Spec. No. C18	388	Cft.	330		128,640
01- 03 D10	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 8" thick / 4" thick <u>BRICK MASONRY</u> Ref Spec. No. C05	2,504	Cft.	130		325,520
01- 03 D10A	Solid brick masonry wall 9" thick with using slag cement conforming to BS-146 set in 1:4 cement sand mortar, straight or curve below plinth beam, planters including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per Drawings and Specifications. a) 9" thick	Rate only	Cft.	1500		
01- 03 D10 B	Solid brick masonry wall with pointing on both faces above plinth beam 9" thick set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties, and other fixtures required to be built in brick masonry, complete in all respect as per Drawings and specifications. a) 4 1/2" thick <u>CEMENT PLASTER</u> Ref Spec. No. C08	Rate only	Cft.	1800		
01- 03 D11	3/4" thick, 1:4 cement-sand plaster to specified exterior surfaces (Columns, wall, beams and project etc.) including making grooves as per design and elevation complete in all respect as shown on the drawings. <u>PROTECTION WORKS</u> Ref.Spec. No. C16	2,918	Sq.ft.	45		131,355
01- 03 D12	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	3,725	Sq.ft.	35		130,375



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D13	<u>COPING</u> Ref. Spec. No. C04 Providing and fixing 3" thick coping including plaster using OP cement for boundary wall complete as shown on the drawings.	408	Rft.	190		77,520/-
01- 03 D14	<u>STRUCTURAL STEEL</u> Ref. Sec.No. C13 Mild steel main gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 14'x7')	2	no	275,000		550,000/-
01- 03 D15	Mild steel wicket gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 3'x7')	2	no	120,000		240,000/-
01- 03 D 15A	<u>CLADDING/ EXTERNAL FACING</u> Ref. Spec. No. C19 & C20 Providing and laying stone cladding/ stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using mortar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	6936	Sq.ft.	100		693,600/-
01- 03 D 16	<u>LANDSCAPING</u> Ref. Sec.No. C17 Fill and backfill with selected materials including watering and compaction to every layer as per specification.	1,539	Cft.	45		69,315/-
01- 03 D17	Area fill with selected materials including watering and compaction to every layer as per specification.	48,750	Cft.	35		1,706,250/-
01- 03 D18	Relocation and replanting of removed trees as per specifications and as directed by the Engineer.	20	Na.	1,000		20,000/-
01- 03 D19	Development of lawn (grass) including fertilizer mixed with earth including spreading and watering etc. and cutting etc. till guarantee period (12 months) complete in all respect as shown on the drawings and as per specifications.	10,215	Sq.ft.	20		204,300/-
01- 03 D20	12" thick approved selected sweet earth including spreading, levelling, dressing and watering etc. complete in all respect as per specifications and as directed by the Engineer.	10,215	Cft.	40		408,600/-



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D21	Trees/ plants of the following types and size/ height including excavation, backfilling, manure/ fertilizer, supports and water etc. complete in all respect as shown on the drawings, specifications and as directed by the Engineer: a) Neem tree (3 to 4 feet) b) Babul tree (3 to 4 feet) c) Galmohar (3 to 4 feet) d) Champa (2 to 3 feet) e) Grape Jasmine (2 to 3 feet) f) Cement Concrete planters	16 5 12 30 27 168	No. No. No. No. No. Rt	1,500 2,000 2,200 2,800 1,800 900		24,000/- 5,000/- 24,400/- 54,000/- 48,600/- 151,200/-
<u>Footpath Walkway (Precast Paving Blocks / Tiles)</u> Ref. Sec No.C21						
01- 03 D22	4" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	2,098	Sq.ft.	55		115,390/-
01- 03 D23	Precast cement concrete paving blocks envicrete or approved equivalent of size 8" x 4" x 2.5" laid in approved pattern including 2" thick sand cushion.	2,098	Sq.ft.	170		356,660/-
01- 03 D24	PCC concrete kerb envicrete or approved equivalent including lean, haunching concrete etc complete as per drawing and specifications with earth cutting/ filling, levelling, dressing etc complete in all respect as per specifications and as directed by the Engineer.	455	Rt	230		104,650/-
01- 03 D24A	Plain cement concrete panel flooring including 1/2" Groove @ 8" o/c, joints etc complete as shown in the drawings.	768	Sq.ft.	85		66,980/-
<u>EXTERNAL SEWER & MANHOLES</u>						
01- 03 D25	Construction of manholes with material including excavation, base top RCC slab, GI steps, CC benching water proof internal plaster, external bitumen coating etc in/out connections etc. i. 24" x 24" SIZE ii. 36" x 36" SIZE	8 2	Nos. Nos.	20,000 25,000		160,000/- 50,000/-
01- 03 D26	Supply and fix water tight (Square Type) Malleable Iron Manhole cover with frame of CME or Equivalent, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	10	No.	12,000		120,000/-
<u>Septic Tank</u>						
01- 03 D27	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer a) 0 to 5 ft b) More than 5 ft upto 10 ft	630 430	Cft. Cft.	18 18		11,340/- 7,740/-
01- 03 D28	Binding concrete 1200 psi using slag cement conforming to BS-146	55	Cft.	210		11,550/-



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Figures	Words	
01- 03 029	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of Crystalline water proofing coating.	490	Sq.ft.	32		15,680/-
01- 03 030	Water proofing coating treatment to all surfaces in contact with water shall be treated with 1 coat of Crystalline water proofing coating on horizontal surface	140	Sq.ft.	60		8,400/-
01- 03 030	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) Base Slab. b) Walls including chamfer etc. c) Top Slab	111	CR.	256		28,416/-
		345	CR.	256		88,320/-
		70	CR.	256		17,920/-
01- 03 031	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60, as mentioned in drawings and directed by the Engineer.	1.5	Ton	110,000		165,000/-
01- 03 032	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	90	Sq.ft.	40		3,600/-
01- 03 033	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of coatings required for windows & door etc with jame plaster, at any height with all scaffoldings etc.	630	Sq.ft.	40		25,200/-
01- 03 034	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings complete in all respect as shown on the drawings and specifications.	430	Sq.ft.	60		25,800/-
01- 03 035	Providing embedding 10" wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	51	Rft.	160		8,160/-
01- 03 036	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivalent, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	No.	12,000		24,000/-
01- 03 037	Supply and fitting of malleable iron rungs, etc, complete in all respects, as per drawing and directed by the Engineer.	10	No.	500		8,000/-
01- 03 038	<u>Soakage Pit</u> Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft. b) More than 5 ft upto 10 ft. c) More than 10 ft upto full depth.	900	CR.	1000		16,200/-
		900	CR.	1000		16,200/-
		1,800	CR.	1000		32,400/-
01- 03 038	Blinding concrete 2000 psi using slag cement conforming to BS-146	28	CR.	210		5,850/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D40	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications: a) 20" thick b) 16" thick c) 12" thick	680	Cft	550		374,000/-
		550	Cft	415		228,250/-
		210	Cft	280		58,800/-
01- 03 D41	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. Pre-cast R.C.C Slab	50	Cft	225		20,250/-
01- 03 D42	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 as mentioned in drawings and directed by the Engineer.	0.35	Ton	110,000		38,500/-
01- 03 D43	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivalent, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	1	No	12,000		12,000/-
01- 03 D44	Supply and fitting of malleable iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	24	No	500		12,000/-
<u>Ground Storage Tank</u>						
01- 03 D45	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft.	725	Cft	18		13,050/-
		12	Cft	18		216/-
01- 03 D46	Blinding concrete 1250 psi using slag cement conforming to BS-146	48	Cft	210		10,080/-
01- 03 D47	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) Base Slab b) Walls including chamfer etc. c) Top slabs d) Precast Slab	100	Cft	256		25,600/-
		255	Cft	256		65,280/-
		60	Cft	256		15,360/-
		10	Cft	256		2,560/-
01- 03 D48	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 as mentioned in drawings and directed by the Engineer.	1	Ton	110,000		110,000/-
01- 03 D49	Providing embedding 10" (250 mm) wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	55	Rt.	215		11,825/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Figures	Words	
01- 03 D50	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block RCC structures for masonry, complete in all respect as per drawings and specifications. a) 12" thick	75	Cft.	280		21,000/-
01- 03 D51	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivalent, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	Nd.	35,000		70,000/-
01- 03 D52	Supply and fitting of malleable iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	10	Nd.	1,000		10,000/-
01- 03 D53	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications	530	Sq. ft.	80		42,400/-
01- 03 D54	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	116	Sq. ft.	65		7,540/-
01- 03 D55	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	435	Sq. ft.	55		23,925/-
01- 03 D56	2" thick, 3000psi (dry) cement concrete floor and screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	185	Sq. ft.	175		32,375/-
01- 03 D57	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc complete in all respect as per specifications.	90	Sq. ft.	85		7,650/-
01- 03 D58	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	12	Sq. ft.	45		540/-
01- 03 D59	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	40	Sq. ft.	75		3,000/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Figures	Words	
01- 03 D50	MS Door including paint etc complete in all respect as shown in the drawings	15	Sq.ft	635		9,525/-
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 2 coats of crystalline water proofing coating on vertical surfaces	577	Sq.ft.	45		25,965/-
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 1 coat of crystalline water proofing coating on horizontal surfaces.	83	Sq.ft.	60		4,980/-
Tube Well / Pneumatic Pump						
Construction works						
01- 03 D62	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft	150	Cft	25		3,750/-
01- 02 C 63	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials)	20	Cft	35		700/-
		40	Cft.	45		1,800/-
01- 03 D64	Blinding concrete 1250 psi using slag cement conforming to BS-146	60	Cft.	210		12,600/-
01- 03 D65	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification: Pre-cast R.C.C Slab including Beam:	35	Cft.	350		12,250/-
01- 03 D66	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 as mentioned in drawings and directed by the Engineer.	0.05	Ton	132,100		6605/- 66050/-
01- 03 D67	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, wall ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications: a) 20" thick, for foundation b) 16" thick, for foundation c) 12" thick, for foundation d) 12" thick, for above G.L. e) 4" thick, for parapet wall	50	Cft	550		27,500/-
		40	Cft	415		16,600/-
		45	Cft	495		19,600/-
		100	Cft	1100		44,000/-
		10	Cft	110		4,400/-
01- 03 D68	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffolding (wall, beams, projection or any structural members etc.) including making grooves as per design, dia course, edges, chamfers and complete in all respect as shown on the drawings and specifications:	285	Sq.ft.	80		22,800/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D69	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	25	Sq.ft.	65		1,625/-
01- 03 D70	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	150	Sq.ft.	55		8,250/-
01- 03 D71	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	25	Sq.ft.	40		1,000/-
01- 03 D72	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	25	Sq.ft.	185		4,625/-
01- 03 D73	Plain cement concrete 2" thick floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	25	Sq.ft.	175		4,375/-
01- 03 D74	Plain cement concrete 2" thick screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	33	Sq.ft.	175		5,775/-
01- 03 D75	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. complete in all respect as per specifications.	285	Sq.ft.	85		24,225/-
01- 03 D76	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	25	Sq.ft.	45		1,125/-
01- 03 D77	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	150	Sq.ft.	75		11,250/-
01- 03 D78	Vapor barrier sheet, under foundations and floor as per drawings and specifications.	25	Sq.ft.	55		1,375/-
01- 03 D79	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	250	Sq.ft.	40		10,000/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>Kanchan Arsenic filter</u>					
01- 03 D80	Excavation and backfilling in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places a) 0 ft to 5 ft	75	Cft.	25		1,875/-
01- 03 D81	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	50	Cft.	32		1,600/-
		100	Cft.	45		4,500/-
01- 03 D82	Blinding concrete 1250 psi using slag cement conforming to BS-145.	15	Cft.	210		3,150/-
01- 03 D83	Reinforced cement concrete using slag cement conforming to BS-145 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) Footing b) Columns up bottom first slab c) Slabs & projection d) Walls including chamfer etc.	25	Cft.	256		6,400/-
		20	Cft.	270		5,400/-
		35	Cft.	56		8,960/-
		60	Cft.	90		23,200/-
01- 03 D84	Hot rolled Deformed steel bars conforming to ASTM A-615 grade 60 as mentioned in drawings and directed by the Engineer.	0.5	Ton	132,100		66,050/-
01- 03 D85	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	84	Sq ft.	40		3,360/-
01- 03 D86	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	84	Sq.ft.	125		15,540/-
01- 03 D87	2" thick, 3000 cement concrete floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	84	Sq.ft.	175		14,700/-
01- 03 D88	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	152	Sq.ft.	80		12,160/-
01- 03 D89	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	126	Sq.ft.	65		8,190/-



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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D90	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating.	126	Sq.ft.	45		5,670/-
01- 03 D91	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	218	Sq.ft.	40		8,720/-
	<u>Hoisting Tank</u>					
01- 03 D92	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer.	755	Cft.	18		13,590/-
	a) 0 to 5 ft	540	Cft.	18		9,720/-
	b) More than 5 ft upto 10 ft.					
01- 03 D93	Blinding concrete 1250 psi using slag cement conforming to BS-146	50	Cft.	256		12,800/-
01- 03 D94	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of Crystalline water proofing coating.	466	Sq.ft.	35		16,310/-
01- 03 D95	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer					
	a) Base Slab	107	Cft.	256		27,392/-
	b) Walls including chamfer etc.	335	Cft.	256		85,760/-
	c) Top Slab	88	Cft.	316		27,590/-
01- 03 D96	Hot rolled deformed steel bars conforming to ASTM A-515 grade 60,as mentioned in drawings and directed by the Engineer	1,150	Ton	110,000		126,500/-
01- 03 D97	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	102	Sq.ft.	40		4,080/-
01- 03 D98	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	349	Sq.ft.	40		13,960/-
01- 03 D99	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings complete in all respect as shown on the drawings and specifications.	466	Sq.ft.	45		20,970/-
01- 03 D100	Providing embedding 10" wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer	44	Rt.	500		22,000/-
01- 03 D101	Supply and fix water sight (Round Type, 24") Pre-cast heavy duty cover with M.S frame work, including lifting handle, making good, complete in all respect as per specification and as directed by the Engineer.	2	No.	10,000		20,000/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Figures	Words	
01-03 D102	Supply and fitting of malleable iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No.	500		8,000/-
	Soakage Trench					
01-03 D103	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0' to 5 ft b) More than 5 ft upto 10 ft	5.125	Cft	18		92,250/-
			Cft	35		
01-03 D104	Blinding concrete 1250 psi using slag cement conforming to BS-146	151	Cft.	256		38,656/-
01-03 D105	Solid brick masonry wall from 13-1/2" to 31-1/2" thicknesses set in 1:4 cement sand mortar.	520	Cft	410		213,200/-
01-03 D106	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. Pre-cast R.C.C Slab including beam	250	Cft	310		77,500/-
01-03 D107	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60, as mentioned in drawings and directed by the Engineer.	0.57	Ton	110,000		62,700/-
01-03 D108	Supply and fix water tight (Round Type, 24") Pre-cast heavy duty cover with M/S frame work, including lifting handle, making good, complete in all respect as per specification and as directed by the Engineer	6	No.	2,000		12,000/-
01-03 D109	Supply and fitting of malleable iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	18	No.	500		9,000/-
01-03 D110	Supply and fill 1/2" to 2" size gravel in trench complete in all respects, as per drawing and directed by the Engineer	150	Cft	500		75,000/-
01-03 D111	Plain cement concrete panel flooring: Plain cement concrete panel flooring including sub flooring and base preparation, joints etc complete as shown in the drawings	3,481	Sq.ft.	256		893,696/-
Sub-Total C/o to Summary for External Development work Pak Rs.						1,427,252/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
32-04E 1	<u>PART -1 Distribution Board</u> <u>Distribution Board</u> Fabrication, Supply, installation, Testing and commissioning at site of following Distribution board, made of MS Sheet 16 SWG with hinged door, handle, catcher, earthing bar, neutral strip, internal wiring from MCBs terminating on cable terminal blocks, 2 coats of antirust and powder coated paint of approved colour, including cost of all necessary materials complete in all respects, DBs shall be manufactured as per specification, single line diagram complete in all respect up to the satisfaction of Engineer					
i)	MDBLP-GF	1	No.	70,000		70,000
ii)	DBLP-GF1	1	No.	45,000		45,000
iii)	DBLP-GF2	1	No.	45,000		45,000
iv)	DBLP-FF1	1	No.	45,000		45,000
v)	DBLP-FF2	1	No.	45,000		45,000
vi)	MCC-WP	1	No.	90,000		90,000
vii)	DB-EXT (IP 54)	1	No.	45,000		45,000
CARRIED FORWARD TO SUMMARY						385,000

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART-2: CABLES AND CONDUITS					
37-04E 2	L.V. Power Cables Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 600 / 1000 Volt grade manufactured by any one of the manufacturers as mentioned in approved manufacturer list in pre-laid conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the employers electrical engineer before placing the order with the manufacturer.					
	a) 4 Core Cu/PVC/PVC CABLE					
	i. 4 core 10mm sq.	545	R.ft	276		150,420/-
	ii. 4 core 16mm sq.	330	R.ft	354		116,820/-
	iii. 4 core 50mm sq.	100	R.ft	2022		202,200/-
	b) Circuit Protective Conductor (CPC)					
	i. 1 core 10mm sq. PVC insulated colour Green/Yellow	545	R.ft	66		35,970/-
	ii. 1 core 16mm sq. PVC insulated colour Green/Yellow	330	R.ft	104		34,320/-
	iii. 1 core 25mm sq. PVC insulated colour Green/Yellow	100	R.ft	150		15,000/-
37-04E 3	P.V.C. Conduit and Accessories Supply at site of PVC conduit to be installed on slabs, walls, floor, columns or as required as per site conditions including cost of all PVC conduit accessories, steel pull wires, complete in all respects.					
	a) 32mm (1.25") dia. PVC conduit to pull electric cable.	415	R.ft	25		10,375/-
	b) 38mm (1.5") dia. PVC conduit to pull electric cable.	360	R.ft	41		14,760/-
	c) 50mm (2") dia. PVC conduit to pull electric cable.	135	R.ft	68		9,180/-
	d) 75mm (3") dia. PVC conduit to pull electric cable.	200	R.ft	105		21,000/-
CARRIED FORWARD TO SUMMARY						604,545/-

510,045/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART-3 Wiring & Conduiting					
25-04E 4	Circuit Wiring & Conduiting					
a)	Circuit Wiring and conduiting from DB to switch / Fan dimmer with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	32	Nos.	2,000		64,000/-
	Same as item (a) but wiring from switch to switch with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable	57	Nos.	1,500		85,500/-
b)	in 20 mm. dia PVC conduit.					
c)	Wiring from switch/dimmer to first light/fan point with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm dia PVC conduit, complete with cables and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	181	Nos.	1,600		289,600/-
d)	Wiring and conduiting of light point to point with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	105	Nos.	1,000		1,05,000/-
e)	Circuit Wiring and conduiting from DB to power socket outlet with 2 x 4 sq.mm 1 core Cu/PVC insulated cable + CPC 4 sq.mm 1 core Cu/PVC insulated cable in 20 mm dia PVC conduit complete with cables, conduits and all necessary accessories such as sheet steel back box with earth connecting point bends, junction boxes, sockets etc., as per the specifications and drawings and approval by the Engineer.	21	Nos.	3,000		63,000/-
f)	Same as item (e) but wiring between adjacent socket outlets with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC	17	Nos.	2,000		34,000/-



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Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
g)	Same as (e) but wiring from socket outlet to socket outlet with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC.	37	Nos.	2,000		37,000/-
h)	Wiring and conduiting from DB to water pump/LBS with 2 x 6 sq.mm 1 core Cu/PVC insulated cable + CPC 6 sq.mm 1 core Cu/PVC insulated cable in 25 mm dia PVC conduit complete with cables, conduits and all necessary accessories such as bends, junction boxes, sockets etc., as per the specifications and drawings and approval by the Engineer.	4	Nos.	4,000		16,000/-
CARRIED FORWARD TO SUMMARY						69,000/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART-4: LIGHT FIXTURES, FANS, SWITCHES, OUTLETS & ACCESSORIES					
37-04E 5	LIGHT FIXTURES Supply, installation, testing and commissioning of following light fittings. ceiling /wall mounted / with hanging arrangement made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, as per approved manufacturer, fittings shall be duly approved by Engineer.					
	a. Fluorescent Light TMS 015 with 1x36Watt TL-D lamp color 84 & electronic ballast.	73	Nos.	1,628		118,844/-
	b. Fluorescent Light TMS 015 with 1x18Watt TL-D lamp color 84 & electronic ballast.	6	Nos.	2,000		12,000/-
	c. LED Light TCS398 2x16Watt TL-Master LED lamp with M2 Louver .	22	Nos.	6,000		132,000/-
	d. LED Light TCS398 2x18Watt TL-Master LED lamp with M2 Louver (with hanging arrangement)	94	Nos.	4,500		423,000/-
	e. Fluorescent Light TBS 318 with 1x36Watt TL-D lamp color 84 & electronic ballast.	16	Nos.	4,500		72,000/-
37-04E 6	Ceiling Fans Supply, installation and commissioning of 4-blades ceiling fans of following sizes, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respects, fittings shall be duly approved by Engineer.					
	a. 56" dia.	7	Nos.	4,000		28,000/-
	b. 48" dia.	65	Nos.	3,500		227,500/-
	c. 36" dia.	1	Nos.	3,500		3,500/-
37-04E 7	Switches & Fan Dimmers Supply and installation of following type gang switches of 10 Amp rating, including 16 SWG sheet steel back box recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respect, as per specifications and drawings and approval by the Engineer.					
	i) One gang - 1 Way Switch	6	Nos.	230		1,380/-
	ii) Two gang - 1 Way Switch	25	Nos.	390		9,750/-
	iii) Three gang - 1 Way Switch	14	Nos.	550		7,700/-
	iv) Four gang - 1 Way Switch	2	Nos.	604		1,208/-
	v) One gang - Fan Dimmer	7	Nos.	1,194		8,358/-
	vi) Two gang - Fan Dimmer	33	Nos.	2,125		70,125/-
	vii) One gang - 2 Way Switch	2	Nos.	350		700/-



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Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
37-04E 8	SOCKETS Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of anti-rust paint), complete in all respects, as per specifications and drawings, as per approved manufacturer list and approval by the Engineer.					
	i) 10A, 2-pin universal Switch Socket outlet.	29	Nos.	630		18,270/-
	ii) 13A, 3-pin Simplex Switch Socket outlet.	32	Nos.	560		17,920/-
	iii) 13A, 3-pin Duplex Switch Socket outlet.	10	Nos.	840		8,400/-
	iv) 15A, 3-pin Round Switch Socket outlet.	6	Nos.	560		3,360/-
	v) Floor Box - Type B	16	Nos.	5,500		88,000/-
37-04E 9	LOAD BREAK SWITCHES Supply, installation, testing & commissioning of following size Load Break switch with MS back box including all accessories complete in all respects, as per specifications and drawings and approval by the Engineer.					
	i) 30 Amp SPN LBS	1	Nos.	3,000		3,000/-
CARRIED FORWARD TO SUMMARY						1,95,950/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART-5: <u>EARTHING SYSTEM</u>					
37-04E 10	<u>Earth Electrode</u> Supply at site and installation of Copper earth electrodes, 10 feet long and 17mm dia including cost of all necessary materials, complete in all respects, as per specification.	11	Nos.	2,000		22,000/-
37-04E 11	<u>Copper Conductor</u>					
	a) Supply, installation and connecting up of 1 x 16sqmm 1-Core Cu/PVC cable, directly buried in ground from ECP in pit to earth electrode, includes excavation, backfilling of earth, cad-welding of copper conductor to earth electrode rod at one end and provision/ fixing of cable lugs at other end, including all accessories as per the Specifications and Drawings and to the entire satisfaction and approval of the Engineer.	10	R.ft	2,000		20,000/-
	b) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable in 38mm dia PVC conduit, directly buried in ground, from Pit to ECP / MCC, as per drawing or as per the instructions of the engineer, including cost of excavation, backfilling of earth, brass nuts, bolts, washers, all necessary accessories, complete in all respects.	25	R.ft	200		5,000/-
	c) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from ECP to U-link box and from U-Link box to data patch panel, as per drawing or as per the instructions of the engineer, including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	85	R.ft	200		17,000/-
	d) Supply, installation and connections of bare copper conductor 50 mm sq. in 38mm dia PVC conduit, from building rebars / earth electrode to earth connecting point, as per drawing or as per the instructions of the engineer, including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	15	R.ft	355		5,325/-
	e) Supply, installation and connections of copper conductor 1x50 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from earth connecting point to distribution board, as per drawing or as per the instructions of the engineer, including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	15	R.ft	355		5,325/-



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Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
37-04E 12	<u>Earth Connecting Points (ECP)</u> Supply of earth connecting points consisting of copper plate 300mm long x 50mm wide x 8mm thick to be installed as and where shown on drawings, complete with fixing arrangement, brass nuts bolts, washers, lugs, 1/2" dia. holes to facilitate connections of incoming copper strips / copper conductors and outgoing CPC.	2	Nos.	5,000		10,000/-
37-04E 13	<u>ECP (in inspection Chamber)</u> Supply of earth connecting points in Earth pit / inspection chamber consisting of copper plate 200mm long x 50mm wide x 8mm thick with necessary holes, all fixing accessories of the copper plates on the wall of main holes, brass nuts bolts, washers, including cost of all necessary materials, complete in all respects.	2	Nos.	22,000		44,000/-
37-04E 14	<u>Earth pit / Inspection Chamber</u> Construction of Earth pit/ inspection chamber 375mm x 375mm x 450mm deep with 150mm thick wall and 330mm x 330mm heavy duty R.C.C. Cover, complete in all respects, as per specification.	2	Nos.	5,000		10,000/-
37-04E 15	<u>Testing</u> Testing of the earthing system with "Earth Tester" along with other testing accessories. Testing shall be performed in the presence of the Engineer and written test result duly verified by the Engineer shall be submitted to the Client for his record.	1	Job	5,000		5,000/-
CARRIED FORWARD TO SUMMARY						835,650/-

331,650/-

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Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART-6: TELEPHONE / VOICE SYSTEM					
32-04E 16	<u>Telephone / Data Network</u>					
	a) Wiring for each telephone point from Utility box to telephone point with Cat 6 UTP in 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects, as per drawing and specification.	230	R.ft	90		20,700/-
	b) Wiring for each data point from Utility box with Cat 6A UTP, to data point, including cost of 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects as per drawing and specification.	1200	R.ft	90		1,08,000/-
	c) Wiring from Utility box with Four pair Cat 6A UTP, to data patch panel, including cost of 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects as per drawing and specification.	140	R.ft	90		12,600/-
	d) Supply, Installation of following telephone / data Outlet plate including RJ-45 ICs and 16 SWG sheet steel back box recessed in wall or wall surface, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.					
	i) Simplex Outlet RJ 45	23	Nos.	750		17,250/-
	ii) Duplex Outlet RJ 45	3	Nos.	1,200		3,600/-
37-04E 17	<u>U-link Box</u>					
	Supply, Installation, testing and commissioning of U-link box, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.	1	Nos.	50,000		50,000/-
37-04E 18	<u>Patch Panel</u>					
	a) Supply and installation of following Patch Panels complete in all respects as per the specifications and drawings and to the approval of the Engineer.					
	i) 24 Port Patch Panel	1	Nos.	28,000		28,000/-
37-04E 19	<u>Telephone / Data Patch Cords</u>					
	a) Supply and connecting of telephone 2 Pair drop cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer.	5	Nos.	500		2,500/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	b) Supply and connecting of data CAT 6A patch cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer.					
	i) 1 meter long	24	Nos.	750		18,000/-
	ii) 3 meter long	24	Nos.	1,000		24,000/-
37-04E 20	<u>Communication Rack</u>					
	Supply installation of 15U Data racks for the fixing of 12 port rack mounted 19" CAT-6A UTP Patch Panel with cable organizer including all installation accessories as per specification complete in all respect to the approval of engineer.	1	Nos.	28,000		28,000/-
37-04E 21	<u>Telephone Sets</u>					
	Supply and connection of following type of Telephone sets.					
	a) Telephone with CLI Module	2	Nos.	9,000		18,000/-
	b) Telephone without CLI Module	3	Nos.	4,000		12,000/-
CARRIED FORWARD TO SUMMARY						342,650/-
37-04E 22	<u>PART -7 Fire Alarm System</u> <u>Fire Alarm System</u>					
	a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect.					
	i) Smoke detector with buzzer	8	Nos.	12,000		96,000/-
	ii) Heat detector with buzzer	4	Nos.	12,000		48,000/-
CARRIED FORWARD TO SUMMARY						144,000/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
PART - 8 LIGHTNING PROTECTION SYSTEM						
37-04E 23	<u>Roof Conductor</u> Supply at site and installation of 50sqmm stranded bare copper conductor fixed on parapet walls or on flat surface of roof as shown on drawing or as required as per site conditions, including cost of copper saddles, copper crossing 3"x3" as shown on drawings, brass screws, all necessary fixing material / accessories, complete in all respects.	1415	R.ft.	280		396,200.
37-04E 24	<u>Down Conductor</u> a) Supply at site, installation, connections of 50mm sq. stranded bare copper conductor in 38mm dia. PVC conduit as down conductors to be installed within the columns from air terminal on roof to building rebars, all other required accessories including cadweld, complete in all	675	R.ft.	300		202,500.
37-04E 25	<u>Air terminal</u> Supply, installation and connecting up of 1 x 16mm DIA SOUND ROUND COPPER 600mm LONG AERIAL ROD as and where shown on drawings, complete with fixing arrangement, cost of all necessary materials / accessories, complete in all respects.	8	Nos	20,000		160,000.
37-04E 26	<u>Copper Test Link</u> Supply at site and installation of sectionable copper test link made of 200mm x 200mm uPVC enclosure with necessary holes, all fixing accessories of the copper test link to be installed on the wall of manholes, brass nuts bolts, washers, including cost of all necessary materials, complete in all respects.	8	Nos	30,000		240,000.
CARRIED FORWARD TO SUMMARY						998,700.

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART -9 Public Address System					
37-04E 27	<u>Amplifier</u> a) Supply, installation & commissioning of following type amplifier with three outputs, three microphone inputs and one music input, complete in all respect, as per approved manufacturer list. i) 30W	2	Nos.	39,000		60,000/-
37-04E 28	<u>Speakers</u> a) Supply, installation & commissioning of 10W wall mounted speaker with all accessories complete in all respects, as per approved manufacturer list.	4	Nos.	3,000		12,000/-
37-04E 29	<u>Microphone</u> Cordless Microphone.	2	Nos.	8,000		16,000/-
37-04E 30	<u>Wiring</u> Wiring with 2 Core, 2.5 sq.mm PVC insulated and PVC sheathed Cable from Amplifier / controller to speaker and speaker to speaker in 20mm dia PVC conduit complete in all respects upto maximum (15 Nos speaker) as shown in riser diagram.	180	R.F.	90		16,200/-
CARRIED FORWARD TO SUMMARY						104,200/-

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Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART -10 EXTERNAL AREA LIGHTING					
37-04E31	LIGHT FIXTURES Supply, installation, testing and commissioning of following light fittings, wall mounted arrangement made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, as per approved manufacturer, fittings shall be duly approved by Architect / Engineer					
	a) Bulkhead light fixture mounted on wall with 1x18Watt PLC lamp.	12	Nos.	3,500		42,000/-
	b) Britlite or equivalent Bollard Light Fixture in die cast aluminum body powder coated suitable for walkways with 1x18WATT PLC LAMP IP-67.	5	Nos.	15,000		75,000/-
37-04E32	Wiring & Conduiting					
	a) Circuit Wiring and conduiting from DB to first light point with 1 x 4 sq.mm 3 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables for external lighting, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer	5	Nos.	5,000		25,000/-
	b) Same as item (a) but wiring from light point to light point.	12	Nos.	3,000		36,000/-
CARRIED FORWARD TO SUMMARY						178,000/-

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Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART -11 MISCELLANEOUS WORKS					
37-04E 33	<u>Cable TV System</u>					
	a) Supply, installation, testing and commissioning of RG-8 co-axial cable wiring for Cable TV system from U-link Box to TV outlet complete in all respects, as per the specifications and drawings and approval by the Engineer.	90	Rft	90		8,100/-
	b) <u>Outlets</u> Supply, installation testing and commissioning of cable TV outlet along with 16 SWG back box having earth terminals and 2 coats of antirust paint, complete in all respects, as per the specifications and drawings and approval by the Engineer	2	Nos.	2,000		4,000/-
37-04E 34	<u>Manholes</u>					
	Construction of water tight concrete handhole / cable chamber with Heavy duty RCC cover with lifting hooks and these words "ELECTRICAL CABLES" written with paint on cover. Complete in all respect as per drawing and specification. Sizes of Manhole are as under:					
	i) 1'-6" x 1'-6" x 2'-6" deep	6	Nos.	10,000		60,000/-
37-04E 35	<u>Utility / PTCL Connection</u>					
	a) Supply and co-ordination for the utility connection from Utility as per required electrical load demand. The utility connection charges shall be paid separately as per actual on submission of receipt.	1	Job	50,000		50,000/-
	b) Supply and co-ordination for the telephone connection from PTCL as per required demand. The telephone connection charges shall be paid separately as per actual on submission of receipt.	1	Job	10,000		10,000/-
CARRIED FORWARD TO SUMMARY						32,100/-

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Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART -12 SOLAR ROOM ELECTRIFICATION WORKS					
37-04E 30	LIGHT FIXTURES Supply, installation, testing and commissioning of following light fittings, ceiling / wall mounted made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complet					
	a. Fluorescent Light TCW096 with 1x36Watt TL-D lamp color 84 & electronic ballast (IP65).	1	Nos.	7,000		7,000/-
	b. Fluorescent Light TMS 015 with 1x36Watt TL-D lamp color 84 & electronic ballast.	3	Nos.	5,000		15,000/-
37-04E 37	Switches & Fan Dimmers Supply and installation of following type gang switches of 10 Amp rating, including 16 SWG sheet steel back box recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respect, as per specifications and drawings and approval					
	i) Three gang - 1 Way Switch	1	Nos.	800		800/-
37-04E 38	SOCKETS Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and dr.					
	i) 13A, 3-pin Duplex Switch Socket outlet.	1	Nos.	1,500		1,500/-
37-04E 39	Fire Alarm System a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect.					
	i) Heat detector with buzzer	1	Nos.	12,000		12,000/-



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Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
37-G4E.40	<u>Circuit Wiring & Conduiting</u>					
a)	Circuit Wiring and conduiting from DB to switch with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	1	Nos.	3,000		3,000/-
b)	Same as item (a) but wiring from switch to switch with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit.	1	Nos.	2,500		2,500/-
c)	Same as item (b) but wiring from switch to first light point.	3	Nos.	2,000		6,000/-
d)	Same as item (b) but wiring from light point to light point.	1	Nos.	1,800		1,800/-
CARRIED FORWARD TO SUMMARY						49,600/-
GRAND TOTAL						512,506/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
PLUMBING WORKS (BUILDING)						
PLUMBING FIXTURES						
Supply and installation of plumbing fixtures & faucets complete in all respects including all accessories, support hangers, etc. ready to use as per specifications, drawings and instructions of Consultant.						
01-05P1	European style coupled water closet with seat cover, flush tank C.P. (chrome plated) connector, thimble etc. a. Type - EWC	7	No.	10,000		70,000
01-05P2	Asian style water closet Orissa type with flush tank C.P. (chrome plated) connector, uPVC Class "E" flush pipe, thimble, P-Trap, etc.	22	No.	2,500		55,000
01-05P3	Urinal wall hung type with automatic 1/2" size flush valve, CP trap, waste, connector and fixing accessories.		No.	5,000		
01-05P4	Wash basin (WB) including C.P P- trap/Bottle Trap, stop cocks, etc. i. Type - WB - V (Vanity)	16	No.	2,300		19,680
01-05P5	Wash basin hot and cold water mixer, waste, etc for following i. Type - WB - V (Vanity)		No.	4,000		
01-05P6	Toilet Hand Shower with flexible chain & telephone type shower including tee stop cock etc. complete in all respect. Type - TS	29	No.	1,800		52,200
01-05P7	Stainless steel lab. sink including stop cocks, P-trap, Bottle trap, waste pipe etc complete in all respects.		No.	4,850		
01-05P8	SK - 1, 36" x 20" single bowl and single drainer. Sink hot and cold water mixer, etc. for following a. For SK-1	4	No.	4,850		19,400
01-05P9	S.S Grease Trap 7.5 Kg. capacity, inlet/outlet 2" Dia. connections.		No.	5,000		
01-05P10	Toilet accessories complete set, (imported make)		No.	4,500		
	i. Soap dispenser	7	No.	1,000		7,000
	ii. Toilet paper holder	29	No.	2,500		72,500
	iii. Coat Hook	7	No.	2,000		14,000
	iv. Mirror 5mm (Belgium)	120	Sft	1,800		216,000
	v. Paper Rack	7	No.	200		1,400
				Page Total		1,45,100

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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
<u>Plumbing Water Supply</u>						
01-05P11	Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for water supply as per DIN 8077-8078 for pipes and DIN 16962, PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.					
	i) 1/2" internal dia (20 mm outer dia)	50	Rft.	155		7,750/-
	ii) 3/4" internal dia (32 mm outer dia)	370	Rft.	200		74,000/-
	iii) 1" internal dia (40 mm outer dia)	550	Rft.	230		126,500/-
	iv) 1 1/4" internal dia (50 mm outer dia)	155	Rft.	350		54,250/-
	v) 1 1/2" internal dia (63 mm outer dia)	230	Rft.	450		103,500/-
	vi) 2" internal dia (75 mm outer dia)		Rft.	2,000		
	vii) 2 1/2" internal dia (90 mm outer dia)		Rft.	3,000		
01-05P12	Providing and installing gateball valves, Kitz or approved equivalent make, including jointing, fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters:					
	i) 1/2" internal dia (20 mm outer dia)	2	No	8,000		16,000/-
	ii) 1" internal dia (40 mm outer dia)	6	No	9,750		58,500/-
	iii) 1 1/2" internal dia (50 mm outer dia)	4	No	13,450		53,800/-
	iv) 1 1/2" internal dia (63 mm outer dia)	2	No	21,650		43,300/-
	v) 2" internal dia (75 mm outer dia)		No	20,000		
	vi) 2 1/2" internal dia (90 mm outer dia)		No	12,500		
Page Total						537,600/-

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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	Plumbing Sewerage					
01-05P13	Providing, fixing, cutting, jointing and testing uPVC piping conforming to BS-4514 and BS 5255 including uPVC fittings with solvent cement jointing, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter:					
	2" dia	105	Rft.	228		23,940/-
	3" dia		Rft	80		
	4" dia	440	Rft	876		385,440/-
	6" dia	110	Rft.	1,328		146,080/-
01-05P14	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.	49	No.	2,150		1,05,350/-
01-05P15	Construction of rectangular brick masonry manhole of following sizes for sewer complete with plastering from internal and external side, RCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, rungs, complete as per drawings					
01-05P16	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects	13	No.	2,800		36,400/-
01-05P17	Providing and fixing Clean Out complete in all respects	13	No.	14,450		187,850/-
	Water Cooler					
01-05P18	Providing and fixing drinking water cooler of capacity 80 gallons per hour including all accessories and making connections to water supply and drainage systems complete in all respects as per details in specifications	4	No	3,850		15,400/-
Page Total						1,038,060/-

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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
EXTERNAL DEVELOPMENT						
Septic Tank						
01-05P19	Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with 'B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer.					
	6" wd (150 mm)	15	Rft.	1200		18,000/-
	4" dia. pipe sleeves in walls	5	Nos	500		2,500/-
	6" dia. pipe sleeves in walls	2	Nos	800		1,600/-
Soakage Pit						
01-05P20	Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with 'B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer.					
	6" wd (150 mm)	6	Rft.	1200		6,000/-
Ground Water Storage Tank						
01-05P21	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipe (Heavy Quality) of B.S.S. 1387-1967 complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer.					
	i) 1 1/2" dia	5	Rft	450		2,250/-
	ii) 1 3/4" dia	5	Rft	1300		6,500/-
	iii) 2" dia, pipe sleeves, 9' long	2	Nos	400		800/-
Overhead Water Storage Tank						
01-05P22A	Vent Pipe 4" dia as per drawing and specifications for U.G.W Tank, O.H.W Tank complete in all respects, puddle flange, specials as per drawing or directed by the Engineer.	4	Nos	2500		10,000/-
01-05P22B	Providing, laying, cutting, jointing, testing and disinfecting brass pipe sleeves/ connection pie with puddle including coupler (Heavy Quality) of approved as per B.S.S coads complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer.					
	i) 1 1/2" dia, pipe sleeves, 10' long	2	Nos	1500		3,000/-
	ii) 2 1/2" dia, pipe sleeves, 10' long	3	Nos	2000		6,000/-
Kanchan Arsenic Filter						
Filter Material.						
01-05P23	Providing & laying gravel, including screening and washing as per drawing or directed by the Engineer.					
	Gravel size 8 mm to 15 mm.	21	Cft	38		798/-
01-05P24	Providing & laying coarse sand, including screening and washing as per drawing or directed by the Engineer.	42	Cft	45		1,890/-
01-05P25	Providing & laying fine sand, including screening and washing as per drawing or directed by the Engineer.	42	Sq.ft.	125		5,250/-
01-05P26	Providing & fixing M.S sheet 1/4" thick, 1/8" Dia hole 2 inch b/c (Diffuser Plate), as per drawing or directed by the Engineer.	37	Sq.ft.	100		3,700/-
						39,996/-



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P27	Providing & laying Dry rammed brick ballast 1-1/2" to 2" (40mm to 50mm) gauge, including screening and washing as per drawing or directed by the Engineer.	9	Ct.	55		495/-
01-05P28	Providing & laying iron nails with out coating (1" thick layer) as per drawing or directed by the Engineer.	125	Kg.	132		16,500/-
01-05P29	Providing & fixing cover over Kanchan Filter of PVC sheet 1/2" thick, as per drawing or directed by the Engineer.	32	Sq. ft.	550		17,600/-
01-05P30	Providing, laying, cutting, jointing, testing and disinfecting PPRC pipe including plastic shower heads with all fittings complete in all respects as per drawing or directed by the Engineer. i) 1/2" internal dia (32 mm outer dia)	23	Rt.	490		11,270/-
01-05P31	Providing and fixing Plastic Shower Heads	9	Nos.	1750		15,750/-
<u>Tube Well / Pneumatic Pump</u>						
01-05P32	Boring for tubewell in all types of soil except shingle and rock, from ground level to 100 ft (30m) Depth, including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. i) 8" id (200mm)	100	Rt.	2800		280,000/-
01-05P33	Boring for tubewell in all types of soil except shingle and rock, from a depth of 100 ft to 200 ft (30 to 60 m) below ground level, including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. i) 8" id (200mm)	50	Rt.	3,500		175,000/-
01-05P34	Providing and installing P.V.C. ball/End plug B.S.S. class 'D', in tubewell bore hole, complete in all respect and as directed by the Engineer. (2" id (100mm))	1	Each	1,200		1,200/-
01-05P35	Providing and installing P.V.C. blind pipe B.S.S Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer, etc, complete in all respect and as directed by the Engineer. i) 1" id(25mm) ii) 1-1/4" id(30mm) iii) 2" id(50mm)	150	Rt.	400		60,000/-
		40	Rt.	325		13,000/-
01-05P36	Providing and installing P.V.C. strainer B.S.S Class 'D' in tubewell bore hole, including sockets and solvents, etc, complete in all respect and as directed by the Engineer. (2" id(50mm))	40	Rt.	425		17,000/-
01-05P38	Providing and installing P.V.C. blind pipe B.S.S Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer, complete in all respect and as directed by the Engineer. i) 4" id (100mm)	60	Rt.	525		31,500/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P37	Testing and developing of bore hole, complete in all respect and as directed by the Engineer.	3	Per Hr	20,000		60,000/-
01-05P38	Shrouding with graded pea gravel 3/8" to 1/8" around tubewell in bore hole, complete in all respect and as directed by the Engineer	45	cu. ft.	1,000		45,000/-
01-05P39	Providing/fixing injector valve as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	Each	85,250		85,250/-
01-05P40	Providing/fixing P.V.C. Cup/Cover as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	No.	300		300/-
01-05P41	Providing/fixing Pneumatic Pump (having 4 impellers capable to carry a discharge of 400 gals/hr against 90 ft head and 3 HP Motor), complete in all respect and as directed by the Engineer. EXTERNAL PIPING Plumbing Water Supply	1	Set.	150,000		150,000/-
01-05P42	Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for water supply as per DIN 8077-8078 for pipes and DIN 16962, PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.					
	i) 1/2" internal dia (20 mm outer dia)		RR	220		
	ii) 3/4" internal dia (32 mm outer dia)	30	RR	308		9,240/-
	iii) 1" internal dia (40 mm outer dia)	150	RR	230		34,500/-
	iv) 1 1/2" internal dia (50 mm outer dia)	130	RR	350		45,500/-
	v) 1 3/4" internal dia (63 mm outer dia)	13	RR	450		5,850/-
	vi) 2" internal dia (75 mm outer dia)		RR	20,000		
	vii) 2 1/2" internal dia (90 mm outer dia)		RR	30,000		

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P43	Providing and installing gate/ball valves, Kitz or approved equivalent make, including jointing, fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters					
	(i) 3/4" internal dia (32 mm outer dia)	2	No	8,000		16,000/-
	(ii) 1" internal dia (40 mm outer dia)	5	No	9,750		48,750/-
	(iii) 1 1/4" internal dia (50 mm outer dia)	4	No	12,250		49,000/-
	(iv) 1 1/2" internal dia (63 mm outer dia)	0	No	16,000		
	(v) 2" internal dia (75 mm outer dia)		No	32,000		
	(vi) 2 1/2" internal dia (90 mm outer dia)		No	45,000		
	<u>Plumbing Sewerage</u>					
01-05P44	Providing, fixing, cutting, jointing and testing uPVC piping conforming to BS-4514 and BS 5255 including uPVC fittings with solvent cement jointing, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter:					
	2" dia		Rft	500		
	3" dia		Rft	800		
	4" dia	32	Rft	876		28,032/-
	6" dia	430	Rft	1,070		460,100/-
01-05P45	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.		No	15,000		
01-05P46	Construction of rectangular brick masonry manhole of 2'x2' for sewer complete with plastering from internal and external side, PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, rungs, complete as per drawings.		No	34,000		
01-05P47	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.		No	3,000		
01-05P48	Providing and fixing Clean Out complete in all respects		No	8,000		
	<u>Water Supply Pump For GST</u>					
01-05P49	Supply at site, installation, testing and commissioning of water supply reciprocating pump with 2HP motor as per specification complete in all respect.	2	No	50,000		1,00,000/-
				Page Total		2,658,020/-
				G-Total C/o to Summary		



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Handwritten notes: *G-Total = 3,919,781/- for Plumbing works*


Stamp: GBPS Sindhi Muslim Jamat (Pg. 53 of 53)

GBSS CATTLE COLONY
(P05-KHI38)



SINDH BASIC EDUCATION PROGRAM
CONSTRUCTION OF NEW SCHOOLS AND UPGRADATION OF EXISTING SCHOOLS
Package- 05: Karachi City
GBSS CATTLE COLONY TOPOGRAPHIC SURVEY, BIN QASIM TOWN
SUMMARY OF TENDERED COST

CODE	DESCRIPTION	AMOUNT IN PAK.RUPEES
A.	GENERAL ITEMS	4,560,105/- 1518/05/-
B.	CIVIL WORKS	53,530,806/-
C.	EXTERNAL WORKS	7,425,643/- 7125653/-
D.	ELECTRICAL WORKS	5,035,032/-
E.	PLUMBING WORKS	3,989,745/- 378978/-
F.	DAYWORK COST	4,956,100/-
Sub-Total		75,997,431/- 70,999,377/-


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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
<u>Temporary Facilities (Optional Items)</u>						
01- 01 G 1	Ref. Spec. No. G05 Providing and maintaining a rental building of area 2,000 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, water supply and sanitation complete in all respect as directed by the Engineer.	12	Month	2,000		24,000
OR						
01- 01 G 2	Providing and maintaining a tent school of area 2,000 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, water supply and sanitation complete in all respect as directed by the Engineer.	12	Month	2,500		30,000
OR						
01- 01 G 3	Providing and maintaining porta cabins for school of area 2,000 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, airconditioning, water supply and sanitation complete in all respect as directed by the Engineer.	12	Month	1,500		18,000
OR						
01- 01 G 3A	Shifting of furnitures and equipments and reinstall etc from existing school to rental building and reinstall as per specification and directed by the engineer.	1	L.S	25,000		25,000
01- 01 G 5	Repair & renovation of existing Government building proposed for temporary school during the construction. (The payable amount shall be assessed as per actual rehabilitation work on selected building and as per recommendation by the Engineer on BOQ rates of similar items quoted in the bid).	P.S.	P.S.			500,000
Sub- Total (Rs.)						597,000 555,000
<u>Site Clearing and Grubbing</u>						
01- 01 G 4	Ref. Spec. No. G01 Clearing and Grubbing complete in all respect as directed by the Engineer.	22,973	Sft	5		114,865
<u>DISMANTLING WORK</u>						
01- 01 G 5	Ref. Spec. No. G04 Dismantling, removing of existing building structure and foundations including disposal of debris materials to designated places/location as directed by the Engineer. All the dismantled materials shall be contractor's property and rate/price of dismantling work should include compensation of such items obtained by the Contractor from existing building.	6,452	Sft	20		129,040
01- 01 G 6	Dismantling, removing of existing sewerage lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.	20		1,000
01- 01 G 7	Dismantling, removing of existing water supply lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.	20		1,000
01- 01 G 8	Dismantling, removing of existing electrical supply line as directed by the Engineer.	150	Rft.	100		15,000



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
01- 01 G 9	Dismantling of existing boundary wall as shown in the drawing including disposal of surplus material and as directed by the Engineer. Dismantled material shall be contractor's property.	160	Rft	100		16,000
01- 01 G 9A	Dismantling of existing walkways/platform/water tank ramp etc and flooring as shown in the drawing/ as per site including disposal of surplus material and as directed by the Engineer. Dismantled material shall be contractor's property.	540	Sft	30		16,200
<u>POWER SUPPLY & TELECOMMUNICATION</u>						
01- 01 G 10	Providing, installing, testing and commissioning of electrical supply line for re-routing as per new plan including cables, all fixtures, connections and all related civil works as directed by the Engineer.	1	Job	200,000		200,000
01- 01 G 11	Providing, installing, testing and commissioning of telephone line for re-routing as per new plan including cables, all fixtures, connections and all related civil works as directed by the Engineer.	1	Job	20,000		20,000
<u>SIGN BOARD / PLAQUE</u> Ref.Spec. No. SP 100						
01- 01 G 12	Providing and installation of Project sign board as per drawing complete including all civil related works, foundations, earthwork concrete, protection works complete as directed by the Engineer.	1	Job	20,000		20,000
01- 01 G 13	Providing, construction and installation of Inauguration Plaque as per drawing complete including all civil related works, foundations, earthwork concrete, protection works etc complete as directed by the Engineer.	1	Job	50,000		50,000
02- 01 G 14	Providing and maintenance of the Engineer's facilities at individual school site as per clause 44, Section-100 (SP), Volume-III (A), Specifications-Special Provisions. All items/ materials/ equipment shall become contractor's property at the completion of works.	12	Month	30,000		360,000
<u>WATER TESTING</u> Ref.Spec. No.						
01- 01 G 15	Sampling and testing of Water from bore of well (TDS) including submission of report as per specification.	1	Each	20,000		20,000
Total General Items (Rs.)						1518,105/-
Sub- Total C/o to Summary General Items Pak Rs.						1518,105/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
CONSTRUCTION OF SCHOOL BUILDING						
SUB-STRUCTURE						
EARTHWORKS						
Ref. Spec. No. C02						
01- 02 C 1	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places.	38515	Cft.	15		577,725
	a) 0 ft to 5 ft	11344	Cft.	15		170,160
	b) More than 5 ft upto 10 ft.					
01- 02 C 2	Fill and backfill with selected materials including watering and compaction to every layer as per specification.	24930	Cft.	10		249,300
	a) From suitable excavated material (from stockpile of excavated materials)	69543	CH.	28		1,947,204
	b) Obtained from outside sources (material source to be approved by the Engineer) upto free haulage limit.					
01- 02 C 2A	Engineered fill layer not exceeding 6" thick with AASHTO A-1-a type material & soiling with compaction should be 98% MDD, (Maximum Dry density) selected materials including watering and compaction to every layer as per specification and drawings.					
	a) Stone soiling 12" compacted layer	Rate only	Cft.	555		
	b) Fill layer not exceeding 6" thick with AASHTO A-1-a type material.	Rate only	CR.	960		
01- 02 C 2B	Plate load test as per specifications, including in all respect work complete performe and test reports with any number of tests as required by the engineer.	Rate only	L.s	500000		
DEWATERING						
Ref. Spec. No. G03						
01- 02 C 3	Designing, providing and installation of complete dewatering system including boring, strainer, filter and other all materials, pumping and disposal of water upto Engineer's satisfaction and to keep the construction surface dry all the time.					
	a) Completion of installation works at site, up 100% running/ working position	Rate only	L.S.	1200000		
	b) Dewatering. Days not allow more than maximum payable	Rate only	Day	10000		
TERMITE CONTROL TREATMENT						
Ref. Spec. No. C03						
01- 02 C 4	Termite control treatment to surfaces following structures complete in all respect as per specification. (Only plan area will be measured)	11525	Sq.ft.	32		368,800
REINFORCEMENT						
Ref. Spec. No. C04						
01- 02 C 5	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	43	ton	110000		4730000



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 6	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate only	ton.	135,000		
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u> Ref.Spec. No. C04					
01- 02 C 7	Blinding concrete 1250 psi using slag cement conforming to BS-146.	2930	Cft	160		468,800
01- 02 C 8	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Isolated foundations b) Columns upto plinth c) Plinth beams d) SOG & Ramps Slabs e) Walls	10252 1554 2769 158 50	Cft Cft Cft Cft Cft	256 256 256 256 270		2,624,512 397,824 708,864 40,448 13,500
	<u>SITU CONCRETE 1:3:6</u> Ref.Spec. No. C04					
07- 02 C 9	Situ concrete 1:3:6, with formwork under the plinth beam thickness as per drawings, using slag cement conforming to BS-146, straight or curve at any level including all anchors required to be built in Roc columns pedestals, complete in all respect as per drawings and specifications.	1500	Cft	235		352,500
	<u>BRICK MASONRY</u> Ref.Spec. No. C05					
07- 02 C 9 A	Solid brick masonry under the plinth beam of one and half brick thickness, set in 1:4 using slag cement conforming to BS-146 & sand mortar, straight or curve at any level including all anchors required to be built in brick masonry, complete in all respect as per drawings and specifications.	Rate only	Cft.	1200		
	<u>HARDCORE/ STONE SOLING</u> Ref.Spec. No. C07					
01- 02 C 10	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	8560	Sq.ft.	40		342,400
	<u>P.C.C UNDER FLOORING</u> Ref.Spec. No. C07					
01- 02 C 11	PCC 4" thick plain cement concrete (using slag cement conforming to BS-146) sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	8560	Sq.ft.	185		1,583,600
	<u>PLINTH PROTECTION</u> Ref.Spec. No. C04 & C07					
01- 02 C 12	Blinding concrete 1250 psi using slag cement conforming to BS-146	680	Cft.	210		144,900



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
PROTECTION WORKS						
01- 02 C.13	Ref. Spec. No. C16 Vapor barrier sheet, under the floor as per drawings and specifications.	8560	Sq.ft.	40		342,400
01- 02 C.14	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	23222	Sq.ft.	30		696,660
SUPER-STRUCTURE WORKS						
Ground Floor (From Plinth level to 1st Slab)						
REINFORCEMENT						
01- 02 C.16	Ref. Spec. No. C04 Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	32	ton.	110,000		3,520,000
01- 02 C.16	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.		Rate only	ton.	135,000	
PLAIN AND REINFORCED CONCRETE AND FORMWORKS						
01- 02 C.17	Ref. Spec. No. C04 Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification:					
	a) Columns	1526	Cft.	256		390,656
	b) Beams & lintels	2029	Cft.	256		519,424
	c) Slab & projections	5882	Cft.	256		1,428,992
	d) Stair cases	373	Cft.	280		104,440
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts.	198	Cft.	550		108,900
	f) Parapet wall for stair cases.	83	Cft.	300		24,900
First Floor (From 1st Slab to 2nd slab)						
REINFORCEMENT						
01- 02 C.16	Ref. Spec. No. C04 Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	34	ton.	110,000		3,740,000
01- 02 C.16	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.		Rate only	ton.	135,000	

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
PLAIN AND REINFORCED CONCRETE AND FORMWORKS						
Ref Spec. No. C04						
01- 02 C 20	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification:					
	a) Columns	1600	Cft.	256		432,640
	b) Beams & lintels	2000	Cft.	256		527,360
	c) Slab & projections	5765	Cft.	256		1,475,840
	d) Stair cases	175	Cft.	350		61,250
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts	206	Cft.	550		113,300
	f) Parapet wall for stair cases	32	Cft.	350		11,200
Second Floor / Roof (From 2nd slab to 3rd slab & lower)						
REINFORCEMENT						
Ref Spec. No. C04						
01- 02 C 21	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi	4	ton.	110,000		440,000
01- 02 C 22	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.		Rate only	135,000		
PLAIN AND REINFORCED CONCRETE AND FORMWORKS						
Ref Spec. No. C04						
01- 02 C 23	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures components complete in all respect as per drawings and specification:					
	a) Columns	108	Cft.	350		37,800
	b) Beams & lintels	124	Cft.	350		43,400
	c) Slab & projections	292	Cft.	270		68,040
	d) Parapet Wall/ Purdi	819	Cft.	256		208,640
	e) Precast coping for parapet wall at roof and erecting/ fixing including shuttering and all accessories and/or embedded parts	1000	Rft.	215		215,000
	g) Over head water tank, column, walls & slab	396	Cft.	315		124,740
	f) Others Misc Str.	20	Cft.	400		8,000

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	FINISHING WORKS					
	<u>For Ground floor</u>					
	BLOCK MASONRY					
	Ref Spec. No C15					
01- 02.C.24	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 4" thick	1863	Cft.	310		577,530
	b) 6" thick	278	Cft.	250		69,750
	c) 8" thick	5430	Cft.	130		705,900
	d) 4" thick, external cavity, wall with all accessories arrangements for stone tile facing or Color Crete finishing including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	1845	Cft.	400		738,000
	BRICK MASONRY					
	Ref Spec. No. C05					
01- 02.C.24.A	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.					
	a) 4-1/2" thick	Rate only	Cft.	610		
	b) 9" thick	Rate only	Cft.	530		
	c) 13-1/2" thick	Rate only	Cft.	430		
	DOORS FRAMES					
	Ref Spec. No. C09 & C11					
01- 02.C.25	G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and pattern detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	752	R.ft.	322		242,144
	CEMENT PLASTER					
	Ref Spec. No. C06					
01- 02.C.26	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth troweled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	375	Sq.ft.	80		30,000
01- 02.C.28	1/2" thick, 1:4 cement sand smooth troweled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	8780	Sq.ft.	40		351,200



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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 29	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with joints plaster, at any height with all scaffolding etc.	20773	Sq ft	40		830,920
	ALUMINIUM WORKS Ref. Spec. No. C11					
01- 02 C 30	Supply and fix in position as specified anodized aluminum operable windows and ventilators of 2"x4" section, approved manufacturer having minimum wall thickness not less than 1.6 mm with netted shutter and 5mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fittings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	1733	Sq ft	600		1,039,800
01- 02 C 31	Supply and fix in position as specified anodized aluminum doors with fixed panel both side and top of approved 2"x4" section, manufacturer having minimum wall thickness not less than 1.6 mm with 5mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fittings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	116	Sq.ft.	850		98,600
	STRUCTURAL STEEL Ref. Sec No. C13					
01- 02 C 32	Mild steel gills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings and specification.	2166	Kg	150		324,900
01- 02 C 33	Providing and fixing railing for stairs/ramps as per drawing and specifications complete in all respect. a) MS railing stairs b) M.S railing at entrance	54 60	Rft Rft	950 1100		51,300 66,000
01- 02 C 34	Providing and fixing MS pipe railing for courtyard with paintings, as per drawing and specifications complete in all respect and approved by the Engineer.	177	Rft	750		132,750
01- 02 C 35	Providing and fixing MS folding gate (Emergency Exit) with paintings, complete in all respects as per drawing and specifications.	2	No	80,000		160,000
01- 02 C 35 A	Providing and fixing MS folding Main entrance gate with paintings, complete in all respects as per drawing and specifications.	1	No	110,000		110,000



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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
FLOOR AND WALL FINISHES						
01- 02 C 36	Ref. Spec. No. C07 Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	7841	Sq.ft	175		1,372,175
01- 02 C 37	Providing and laying terrazzo tile for entrance ramp (3/4" thick) with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer	75	Sq.ft	250		18,750
01- 02 C 38	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	494	Sq.ft	65		32,110
01- 02 C 39	Porcelain tile floor (type) using tile of size 8"x8" (full body), approved quality, colour and shade laid in approved pattern set in specified mortar including cement concrete base, complete in all respect as shown on the drawings and specifications	730	Sq.ft	130		94,900
01- 02 C 40	Porcelain tile in Dado using tile of size 8"x8", quality, colour and shade laid in approved pattern including rough plaster base complete in all respect as shown on drawings and specifications	3664	Sq.ft	130		476,320
MARBLE WORKS						
01- 02 C 41	Ref. Spec. No. C07 & C08 Pre-polished marble on entrance steps, stairs, ramp & floor etc using approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings: a) Entrance Steps & Platform (3/4" thick) b) Entrance Steps Risers (1/2" thick)	325 60	Sq.ft Sq.ft	750 700		243,750 42,000
01- 02 C 42	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings	382	Sq.ft	750		286,500
01- 02 C 43	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	105	Sq.ft	750		79,500
01- 02 C 44	Pre-polished marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect as shown on the drawings	10	Sq.ft	750		7,500

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 45	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc. colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	83	Sq.ft.	750		62,250
	PAINTING Ref.Spec. No. C10					
01- 02 C 46	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	8780	Sq.ft.	28		245,840
01- 02 C 47	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	20773	Sq.ft.	40		830,920
01- 02 C 48	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	375	Sq.ft.	45		16,875
	WOODEN DOORS Ref.Spec. No. C09					
01- 02 C 49	Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partial wood frame and infill, polish, color/lecker, beading/ Architrave, with all hardware (Locks, door closer, door stopper, push plate kick plate etc) as per schedule and finish with lecker polish complete in all respect as shown on the drawings and specifications.	1093	Sq.ft.	800		874,400
01- 02 C 50	Fixed 6mm plain laminated glass panel part at above door panel with solid wood batten including teak polish/lecker at both sides around the glass of approved type, quality complete in all respect as shown on the drawings and specifications.	148	Sq.ft.	1200		175,200
	FALSE CEILING Ref.Spec. No. C14					
01- 02 C 51	1/2" thick gypsum board ceiling including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on the drawings and specifications.	730	Sq.ft.	187		136,510
	Pre cast C.C Patren jali Ref.Spec. No.C18, C5					
01- 02 C 52	C.C Patren jali as per approved designed and specification.	360	Sq.ft.	120		43,200



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	CLADDING/ EXTERNAL FACING Ref.Spec. No C19 & C20					
01- 02 C 53	Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using mortar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	5581	Sq.ft.	100		559,100
01- 02 C 53 A	Providing and laying Color-Crete with 3/4" Cement sand plaster on external facing as per approved sample type size mentioned in drawings and specifications with expanded materials at joints, arrangements / accessories, anchorages, angle irons and metal fusing etc at any height and level using mortar 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	3074	Sq.ft.	50		153,700
01- 02 C 53 B	Ref.Spec. No. C05 Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq.ft.	800		
	FINISHING WORKS For First floor BLOCK MASONRY Ref Spec. No.C18					
01- 02 C 54	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 4" thick	551	Cft.	310		170,810
	b) 6" thick	83	Cft.	250		20,750
	c) 8" thick	6198	Cft.	130		805,740
	d) 4" thick, external cavity wall with all accessories arrangements for stone tile facing or Color-Crete finishing including cavity arrangements / accessories, anchorages, angle irons and metal fusing & PVC pipe as weep hole etc at any height and level.	1845	Cft.	400		738,000



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Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 54 A	<u>BRICK MASONRY</u> Ref. Spec. No. C05 Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications. a) 4-1/2" thick b) 9" thick c) 13-1/2" thick	Rate only Rate only Rate only	Cft. Cft. Cft.	650 550 440		
01- 02 C 55	<u>DOORS FRAMES</u> Ref. Spec. No. C09 & C11 G.I frame 16swg redoxided inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	725	R.ft.	350		224,750
01- 02 C 56	<u>CEMENT PLASTER</u> Ref. Spec. No. C 06 3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers including complete in all respect as shown on the drawings	175	Sq.ft.	80		14,000
01- 02 C 57	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	8713	Sq.ft.	40		348,520
01- 02 C 57 A	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	20562	Sq.ft.	40		822,480
01- 02 C 58	<u>ALUMINIUM WORKS</u> Ref. Spec. No. C 11 Supply and fix in position as specified anodized aluminum operable windows and ventilators of 2"x4" section, approved manufacturer having minimum wall thickness not less than 1.6 mm with nested shutter and 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	1414	Sq.ft.	600		848,400



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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	STRUCTURAL STEEL Ref. Sec No. C 13					
01- 02 C 59	Mild steel grills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings.	1735	Kg	150		260,850
01- 02 C 60	Providing and fixing MS stair railing, as per drawing and specifications complete in all respect.	30	Rft	950		28,500
01- 02 C 61	Providing and fixing MS pipe railing for courtyard with paintings, as per drawing and specifications complete in all respect and approved by the engineers.	201	Rft	1,100		221,100
	FLOOR AND WALL FINISHES Ref. Spec. No. C 07, 08					
01- 02 C 62	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	9213	Sq. ft.	175		1,612,275
01- 02 C 63	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	576	Sq. ft.	65		37,440
01- 02 C 64	Porcelain tile floor (type) using tile of size 8"x8" (full body), approved quality, colour and shade laid in approved pattern set in specified mortar including cement concrete base, complete in all respect as shown on the drawings.	500	Sq. ft.	130		65,000
01- 02 C 65	Porcelain tile in Dado using tile of size 8"x8", quality, colour and shade laid in approved pattern including rough plaster base complete in all respect.	2364	Sq. ft.	130		307,320
	MARBLE WORKS Ref. Spec. No. C 07, 08					
01- 02 C 66	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	176	Sq. ft.	750		132,000
01- 02 C 67	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	50	Sq. ft.	800		40,000
01- 02 C 68	Pre-polished marble tile for counter tops & other area 3/4" thick using of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including complete in all respect as shown on the drawings.	50	Sq. ft.	750		37,500



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Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02.C.69	Pre-polished Marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	34	Sq.ft	750		25,500
01- 02.C.70	Providing and laying Pre-polished-marble threshold 3/4" thick of approved size, making of edges of marble etc. colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings	45	Sq.ft.	750		33,750
PAINTING						
01- 02.C.71	Ref Spec. No. C 10 Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	8713	Sq.ft.	28		243,964
01- 02.C.72	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	20562	Sq.ft.	40		822,480
WOODEN DOORS						
01- 02.C.73	Ref Spec. No. C.09, 12 Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partial wood frame and infill, polish, color/ lacker, beading/ Architrave, with all hardware (Locks, door closer, door stopper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	1071	Sq.ft	800		856,800
01- 02.C.74	Fixed 6mm plain laminated glass panel part at above door panel with solid wood batten including teak polish/ lacker at both sides around the glass of approved type, quality complete in all respect as shown on the drawings and specifications.	93	Sq.ft.	1200		111,600
FALSE CEILING						
01- 02.C.75	Ref Spec. No.C14 12mm thick gypsum board ceiling including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on the drawings and specifications.	635	Sq.ft.	185		117,475
Pre cast C.C.Patren jali						
01- 02.C.76	Ref Spec. No.C18, C5 C.C.Patren jali as per approved designed and specification	731	Sq.ft.	120		87,720



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
STONE CLADDING/ COLOR-CRETE/ EXTERNAL FACING						
Ref.Spec. No. C19 & C20						
01- 02 C 77	Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using mortar fill between brick masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc. complete in all respect, as per drawings, specifications and as directed by the Engineer.	5591	Sq.ft.	100		559,100
01- 02 C 77.A	Providing and laying Color-Crete with 3/4" Cement sand plaster on external facing as per approved sample type size mentioned in drawings and specifications with expanded materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using mortar 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	3074	Sq.ft.	50		153,700
Ref.Spec. No. C05						
01- 02 C 77.B	Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq.ft.	800		
WATER PROOFING AND BUILTUP ROOFING						
Ref.Spec. No.C 15						
01- 02 C 78	Water proofing and built up roofing over roof slab comprising all the layers and coatings etc as shown in the drawings and specifications.	11785	Sq.ft.	125		1,474,375

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	FINISHING WORKS					
	<u>For Roof floor / Second floor</u>					
	BLOCK MASONRY					
	Ref. Spec. No. C15					
01- 02-C-79	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 4" thick	30	Cft.	310		9,300
	b) 6" thick	50	Cft.	250		12,500
	c) 8" thick	430	Cft.	240		103,200
	d) 4" thick, external cavity, wall with all accessories arrangements for stone tile facing or Color Crete finishing including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	1347	Cft.	400		538,800
	BRICK MASONRY					
	Ref. Spec. No. C05					
01- 02-C-79A	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.					
	a) 4-1/2" thick	Rate only	Cft.	450		
	b) 9" thick	Rate only	Cft.	310		
	c) 13-1/2" thick	Rate only	Cft.	450		
	DOORS FRAMES					
	Ref. Spec. No. C09 & C11					
01- 02-C-80	G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and pattern detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	35	R.ft.	300		10,500
	CEMENT PLASTER					
	Ref. Spec. No. C06					
01- 02-C-81	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection, parapet or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and as per elevation complete in all respect as shown on the drawings.	2504	Sq.ft.	50		125,200
01- 02-C-82	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	388	Sq.ft.	40		15,520



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Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02-C-83	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	928	Sq.ft.	40		37,120
01- 02-C-84	3/4" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls to O.H.W Tank etc with making of chamfer corner in plaster as per drawings and specifications.	305	Sq.ft.	80		24,400
01- 02-C-85	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating.	150	Sq.ft.	40		6,000
01- 02-C-86	Water proofing coating treatment to all horizontal surfaces in contact with water shall be treated with 1 coat of crystalline water proofing coating.	210	Sq.ft.	40		8,400
01- 02-C-88	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivalent, including fixing of frame and embedded parts in concrete and painting, complete in all respect as per specification and as directed by the Engineer.	2	No.	18,000		36,000
01- 02-C-88 A	Supply and fixing of malleable iron rings, etc. complete in all respects, as per drawing and directed by the Engineer. (For O.H.W tank)	4	No.	500		2,000
<u>FLOOR AND WALL FINISHES</u>						
01- 02-C-87	Ref.Spec. No: C 07, 06 Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	180	Sq.ft.	175		31,500
01- 02-C-88	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	16	Sq.ft.	65		1,040
<u>MARBLE WORKS</u>						
01- 02-C-89	Ref.Spec. No: C 07, 05 Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc. colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	6	Sq.ft.	750		4,500

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>PAINTING</u>					
01-02-C-90	Ref. Spec. No. C 10 Providing and applying three or more coats of distemper paint to G.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	388	Sq.ft.	28		10,864
01-02-C-91	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	928	Sq.ft.	40		37,120
01-02-C-92	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	2504	Sq.ft.	45		112,680
	<u>WOODEN DOORS</u>					
01-02-C-93	Ref. Spec. No. D 09, C12 Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partial wood frame and infill, polish, color/ lacker, beading/ Architrave, with all hardware (Locks, door closer, door stopper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	45	Sq.ft.	1100		49,500
	<u>Pre cast C.C Patren jali and Railing</u>					
01-02-C-94	Ref. Spec. No C16, C5 & C21 C.C Patren jali as per approved designed and specification.	100	Sq.ft.	120		12,000
01-02-C-95	Precast water spout as per approved designed and specification.	15	No.	500		7,500
	<u>CLADDING/ EXTERNAL FACING</u>					
01-02-C-96	Ref. Spec. No. C19 & C20 Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using mortar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc. complete in all respect, as per drawings, specifications and as directed by the Engineer.	4083	Sq.ft.	100		408,300



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Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 97	Providing and laying Color-Crete with 3/4" Cement sand plaster on external facing as per approved sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using mortar 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	568	Sq ft.	50		28,360
01- 02 C 98	Ref. Spec. No. C05 Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq ft.	800		
Total C/o to Summary for CIVIL WORKS Pak Rs.						53,530,806/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
EXTERNAL DEVELOPEMENT						
CONSTRUCTION OF BOUNDARY WALL						
Ref.Spec. No. C02						
EARTHWORKS						
Ref.Spec. No.						
01-03 D 1	Excavation in all kinds of sub-surface materials, timbering upto following depths including disposal of surplus / rejected excavated materials to designated places.	912	Cft.	18		16,416
01-03 D 2	Fill and backfill with selected materials including watering and compaction to every layer as per specification.	456	Cft.	10		4,560
	a) From suitable excavated material (from stockpile of excavated materials)	3,506	Cft.	30		105,180
01-03 D 3	Area Fill with selected materials from outside source including watering and compaction to every layer as per specification for Play ground.	4,905	Cft.	30		147,150
DEWATERING						
Ref.Spec.No. G03						
01-03 D 4	Designing, providing and installation of complete dewatering system including boring, strainer, filter and other all materials, pumping and disposal of water upto Engineer's satisfaction and to keep the construction surface dry all the time.					
	a) Completion of installation works at site, up 100% running/ working position	Rate only	L.S.	1,20,000		
	b) Dewatering	Rate only	Day	10,000		
TERMITE CONTROL TREATMENT						
Ref.Spec. No. C03						
01-03 D 5	Termite control treatment to surfaces following structures complete in all respect as per specification: (Only plan area will be measured)	746	Sq.ft.	32		23,872
REINFORCEMENT						
Ref.Spec. No. C04						
01-03 D 6	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	1.97	ton.	110,000		216,700
PLAIN AND REINFORCED CONCRETE						
Ref.Spec. No. C04						
01-03 D 7	Binding concrete, 1250 psi using slag cement conforming to BS-146.	153	Cft.	210		32,130
01-03 D 7A	Sub concrete 1:3:6, with formwork under the pirth beam thickness as per drawings, using slag cement conforming to BS-146, straight or curve at any level including all anchors required to be built in Rec columns pedestals, complete in all respect as per drawings and specifications	135	Cft.	256		34,560

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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03-08	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Footings b) Columns upto plinth c) Plinth beams	256 61 162	Cft. Cft. Cft.	250 256 256		64,000 15,616 41,472
01- 03-09	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification; a) Columns <u>BLOCK MASONRY</u> Ref Spec. No. C18	127	Cft.	280		35,560
01- 03-010	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/RCC structures for masonry, complete in all respect as per drawings and specifications. a) 8" thick / 4" thick <u>BRICK MASONRY</u> Ref Spec. No. C05	756	Cft.	130		98,280
01- 03-010 A	Solid brick masonry wall 9" thick with using slag cement conforming to BS-146 set in 1:4 cement sand mortar, straight or curve below plinth beam, planters including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per Drawings and Specifications. a) 9" thick	Rate only	Cft.	310		
01- 03-010 B	Solid brick masonry wall with pointing on both faces above plinth beam 9" thick set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties, and other fixtures required to be built in brick masonry, complete in all respect as per Drawings and specifications. a) 4-1/2" thick <u>CEMENT PLASTER</u> Ref. Spec. No. C06	Rate only	Cft.	528		
01- 03-011	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces (Columns, wall, beams and project etc.) including making grooves as per design and elevation, complete in all respect as shown on the drawings. <u>PROTECTION WORKS</u> Ref. Spec. No. C16	898	Sq.ft.	45		40,410
01- 03-012	Two coats of hot bitumen 10:20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	1,118	Sq.ft.	35		39,130



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	COPING Ref. Spec. No. C04					
01-03-D13	Providing and fixing 3" thick coping including plaster using OP cement for boundary wall complete as shown on the drawings.	147	Rft.	190		27,930
	STRUCTURAL STEEL Ref. Sec. No. C13					
01-03-D14	Mild steel main gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size 14x7)	1	no.	275,000		275,000
01-03-D15	Mild steel wicket gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size 3x7)	1	no.	120,000		120,000
	CLADDING/EXTERNAL FACING Ref. Spec. No. C19 & C20					
01-02-C15A	Providing and laying stone cladding/ stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using mortar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	2499	Sq.ft.	100		249,900
	LANDSCAPING Ref. Sec. No. C17					
01-03-D16	Fill and backfill with selected materials including watering and compaction to every layer as per specification.	450	Cft.	45		20,250
01-03-D17	Area fill with selected materials including watering and compaction to every layer as per specification.	21,267	Cft.	35		744,345
01-03-D18	Relocation and replanting of removed trees as per specifications and as directed by the Engineer.	25	No.	1,000		25,000
01-03-D19	Development of lawn (grass) including fertilizer mixed with earth including spreading and watering etc. and cutting etc. till guarantee period (12 months) complete in all respect as shown on the drawings and as per specifications.	9,284	Sq.ft.	80		742,720
01-03-D20	12" thick approved selected sweet earth including spreading, levelling, dressing and watering etc. complete in all respect as per specifications and as directed by the Engineer.	9,284	Cft.	40		371,360



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D21	Trees/ plants of the following types and size/ height including excavation, backfilling, manure/ fertilizer, supports and water etc. complete in all respect as shown on the drawings, specifications and as directed by the Engineer. a) Neem tree (3 to 4 feet) b) Babul tree (3 to 4 feet) c) Gamohar (3 to 4 feet) d) Champa (2 to 3 feet) e) Grape Jasmine (2 to 3 feet) f) Cement Concrete planters.	9 4 9 28 28 158	No. No. No. No. No. Rt	1,500 1,000 1,000 1,800 1,800 9,00		13,500 4,000 10,800 50,400 50,400 151,200
	Footpath Walkway (Precast Paving Blocks / Tiles): Ref. Sec.No.G21					
01- 03 D22	4" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	1,858	Sq.ft.	55		102,190
01- 03 D23	Precast cement concrete paving blocks envicrete or approved equivalent of size 8" x 4" x 2.5" laid in approved pattern including 2" thick sand cushion.	1,858	Sq.ft.	170		315,860
01- 03 D24	PCC concrete kerb envicrete or approved equivalent including lean, haunching concrete etc complete as per drawing and specifications with earth cutting/ filing, leveling, dressing etc complete in all respect as per specifications and as directed by the Engineer.	211	Rt	230		48,530
01- 03 D24A	Plain cement concrete panel flooring including 1/2" Groove @ 8" c/c, joints etc complete as shown in the drawings	315	Sq.ft.	85		26,775
	EXTERNAL SEWER & MANHOLES					
01- 03 D25	Construction of manholes with material including excavation, base top RCC slab, GI steps, CC benching water proof internal plaster, external bitumen coating etc inlet/out connections etc. i. 24" x 24" SIZE ii. 36" x 36" SIZE	8 2	Nos. Nos.	20,000 25,000		160,000 50,000
01- 03 D26	Supply and fix water tight (Square Type) Malleable Iron Manhole cover with frame of CME or Equivalent for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer	10	No	12,000		120,000
	Septic Tank					
01- 03 D27	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft	830 430	Cft. Cft.	18 18		14,940 7,740
01- 03 D28	Blinding concrete 1250 psi using slag cement conforming to BS-146	55	Cft.	210		11,540
01- 03 D29	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of Crystalline water proofing coating	490	Sq.ft.	32		15,680



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-03 D30	Water proofing coating treatment to all surfaces in contact with water shall be treated with 1 coat of Crystalline water proofing coating on horizontal surface.	140	Sq.ft	60		8,400
01-03 D30	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer.					
	a) Base Slab	111	Cft.	256		28,416
	b) Walls including chamfer etc.	345	Cft.	256		88,320
	c) Top Slab	70	Cft.	256		17,920
01-03 D31	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 as mentioned in drawings and directed by the Engineer.	1.5	Ton	110,000		165,000
01-03 D32	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	80	Sq.ft	40		3,600
01-03 D33	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	630	Sq.ft.	40		25,200
01-03 D34	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings complete in all respect as shown on the drawings and specifications.	430	Sq.ft.	60		25,800
01-03 D35	Providing embedding 10" wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	51	Rft.	160		8,160
01-03 D36	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of GME or Equivalent, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	No.	12,000		24,000
01-03 D37	Supply and fixing of malleable iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No.	500		8,000
01-03 D38	<u>Soakage Pit</u> Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer.					
	a) 0 to 5 ft	900	Cft.	18		16,200
	b) More than 5 ft upto 10 ft.	900	Cft.	18		16,200
	c) More than 10 ft upto full depth.	1,800	Cft.	18		32,400
01-03 D39	Binding concrete 2000 psi using slag cement conforming to BS-146	25	Cft.	210		5,250



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 040	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block RCC structures for masonry, complete in all respect as per drawings and specifications. a) 20" thick b) 16" thick c) 12" thick	680 550 210	CR CR CR	550 415 280		374,000 228,250 58,800
01- 03 041	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. Pre-cast R.C.C Slab	90	CR	225		20,250
01- 03 042	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60, as mentioned in drawings and directed by the Engineer.	0.36	Ton	110,000		38,500
01- 03 043	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivalent, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	1	No.	12,000		12,000
01- 03 044	Supply and fitting of malleable iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	24	No.	500		12,000
	<u>Ground Storage Tank</u>					
01- 03 045	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft. b) More than 5 ft upto 10 ft.	725 12	CR. CR.	18 18		13,050 216
01- 03 046	Blinding concrete 1250 psi using slag cement conforming to BS-146	48	CR.	210		10,080
01- 03 047	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) Base Slab b) Walls including chamfer etc. c) Top slabs d) Precast Slab	100 255 60 10	CR. CR. CR. CR.	256 256 256 256		25,600 65,280 15,360 2,560
01- 03 048	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60, as mentioned in drawings and directed by the Engineer.	1	Ton	110,000		110,000
01- 03 049	Providing embedding 1 1/2" (250 mm) wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	55	RL	215		11,825



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 050	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 12" thick	75	CR.	280		21,000
01- 03 051	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of GME or Equivalent, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	No.	35,000		70,000
01- 03 052	Supply and fitting of malleable iron rungs, etc, complete in all respects, as per drawing and directed by the Engineer.	10	No.	1,000		10,000
01- 03 053	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth troweled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, tip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	530	Sq.ft.	80		42,400
01- 03 054	1/2" thick, 1:4 cement sand smooth troweled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	116	Sq.ft.	65		7,540
01- 03 055	1/2" thick, 1:4 cement sand smooth troweled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	435	Sq.ft.	55		23,925
01- 03 056	2" thick, 3000psi (dry) cement concrete floor and screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	185	Sq.ft.	175		32,375
01- 03 057	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc complete in all respect as per specifications.	90	Sq.ft.	85		7,650
01- 03 058	Providing and applying three or more coats of distemper paint to C C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	12	Sq.ft.	45		540
01- 03 059	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	40	Sq.ft.	75		3,000
01- 03 250	MS Door including paint etc complete in all respect as shown in the drawings.	15	Sq.ft.	635		9,525



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 2 coats of crystalline water proofing coating on vertical surfaces	577	Sq.ft	45		25,965
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 1 coat of crystalline water proofing coating on horizontal surfaces	83	Sq.ft.	60		4,980
Tube Well / Pneumatic Pump						
Construction work						
01- 03 D62	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft	150	Cft.	25		3,750
01- 02 C-03	Fill and backfill with selected materials including watering and compaction to every layer as per specification a) From suitable excavated material (from stockpile of excavated materials)	20	Cft.	35		700
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	40	Cft.	45		1,800
01- 03 D64	Blinding concrete 1250 psi using slag cement conforming to BS-146	60	Cft.	210		12,600
01- 03 D65	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification: Pre-cast R.C.C Slab including Beam	35	Cft.	350		12,250
01- 03 D66	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 as mentioned in drawings and directed by the Engineer.	0.05	Ton	133,100		6,605
01- 03 D67	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls, ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 20" thick, for foundation b) 16" thick, for foundation c) 12" thick, for foundation d) 12" thick, for above G.L e) 4" thick, for parapet wall	50 40 45 180 10	Cft Cft Cft Cft Cft	550 425 280 290 210		27,500 16,600 12,600 34,200 2,100
01- 03 D68	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications:	285	Sq.ft.	80		22,800
01- 03 D69	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	25	Sq.ft.	65		1,625



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 070	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jama plaster, at any height with all scaffoldings etc.	150	Sq.ft	55		8,250
01- 03 071	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	25	Sq.ft.	40		1,000
01- 03 072	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	25	Sq.ft	185		4,625
01- 03 073	Plain cement concrete 2" thick floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	25	Sq.ft	175		4,375
01- 03 074	Plain cement concrete 2" thick screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	33	Sq.ft	175		5,775
01- 03 075	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. complete in all respect as per specifications.	285	Sq.ft.	85		24,225
01- 03 076	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	25	Sq.ft.	45		1,125
01- 03 077	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	150	Sq.ft.	75		11,250
01- 03 078	Vapor barrier sheet, under foundations and floor as per drawings and specifications.	25	Sq.ft.	55		1,375
01- 03 079	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	250	Sq.ft.	40		10,000
<u>Kanchan Arsenic filter</u>						
01- 03 080	Excavation and backfilling in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places: a) 0 ft to 5 ft:	75	Cft.	25		1,875



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D81	Fill and backfill with selected materials including watering and compaction to every layer as per specification.					
	a) From suitable excavated material (from stockpile of excavated materials)	50	Cft.	32		1,600
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	100	Cft.	45		4,500
01- 03 D82	Binding concrete 1250 psi using slag cement conforming to BS-146	15	Cft.	210		3,150
01- 03 D83	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer					
	a) footing	25	Cft.	256		6,400
	b) Columns up bottom first slab	20	Cft.	270		5,400
	c) Slabs & projection	35	Cft.	256		8,960
	e) Walls including chamfer etc.	80	Cft.	110		8,800
01- 03 D84	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 as mentioned in drawings and directed by the Engineer.	0.476	Ton	132,100		62,880
01- 03 D85	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings	84	Sq.ft.	40		3,360
01- 03 D86	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	84	Sq.ft.	185		15,540
01- 03 D87	2" thick, 3000 cement concrete floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	84	Sq.ft.	175		14,700
01- 03 D88	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth troweled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	152	Sq.ft.	80		12,160
01- 03 D89	1/2" thick, 1:4 cement sand smooth troweled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	126	Sq.ft.	65		8,190
01- 03 D90	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating	126	Sq.ft.	45		5,670
01- 03 D91	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	218	Sq.ft.	40		8,720



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 082	Plain cement concrete panel flooring: Plain cement concrete panel flooring including sub flooring and base preparation, joints etc complete as shown in the drawings.	1,929	Sq.ft.	175		337,575
Sub- Total Cio to Summary for External Development work Pak Rs.						3,125,653

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1,125,653



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
32-04E 1	<u>PART -1 Distribution Board</u> <u>Distribution Board</u> Fabrication, Supply, installation, Testing and commissioning at site of following Distribution board, made of MS Sheet 16 SWG with hinged door, handle, catcher, earthing bar, neutral strip, internal wiring from MCBs terminating on cable terminal blocks, 2 coats of antirust and powder coated paint of approved colour, including cost of all necessary materials complete in all respects, DBs shall be manufactured as per specification, single line diagram complete in all respect up to the satisfaction of Engineer.					
	i) MDBLP-GF	1	No.	70,000		70,000
	ii) DBLP-GF1	1	No.	45,000		45,000
	iii) DBLP-GF2	1	No.	45,000		45,000
	iv) DBLP-FF1	1	No.	45,000		45,000
	v) DBLP-FF2	1	No.	45,000		45,000
	vi) MCC-WP	1	No.	90,000		90,000
	vii) DB-EXT (IP 54)	1	No.	45,000		45,000
CARRIED FORWARD TO SUMMARY						385,000

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-2: CABLES AND CONDUITS					
38-04E 2	L.V. Power Cables					
	Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 600 / 1000 Volt grade manufactured by any one of the manufacturers as mentioned in approved manufacturer list in pre-laid conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the employers electrical engineer before placing the order with the manufacturer.					
a)	4 Core Cu/PVC/PVC CABLE					
i.	4 core 10mm.sq.	545	R.ft	276		150,420
ii.	4 core 16mm.sq.	330	R.ft	354		116,820
iii.	4 core 50mm.sq.	100	R.ft	1,022		102,200
b)	Circuit Protective Conductor (CPC)					
i.	1 core 10mm sq. PVC insulated colour Green/Yellow	545	R.ft	66		35,970
ii.	1 core 16mm sq. PVC insulated colour Green/Yellow.	330	R.ft	104		34,320
iii.	1 core 25mm sq. PVC insulated colour Green/Yellow.	100	R.ft	150		15,000
38-04E 3	P.V.C. Conduit and Accessories					
	Supply at site of PVC conduit to be installed on slabs, walls, floor, columns or as required as per site conditions including cost of all PVC conduit accessories, steel pull wires, complete in all respects.					
a)	32mm (1.25") dia. PVC conduit to pull electric cable.	415	R.ft	25		10,375
b)	38mm (1.5") dia. PVC conduit to pull electric cable.	360	R.ft	41		14,760
c)	50mm (2") dia. PVC conduit to pull electric cable.	135	R.ft	68		9,180
d)	75mm (3") dia. PVC conduit to pull electric cable.	200	R.ft	105		21,000
CARRIED FORWARD TO SUMMARY						510,045



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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-3 <u>Wiring & Conduiting</u>					
38-04E-4	<u>Circuit Wiring & Conduiting</u>					
	a) Circuit Wiring and conduiting from DB to switch / Fan dimmer with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	32	Nos.	2,000		64,000
	b) Same as item (a) but wiring from switch to switch with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit.	57	Nos.	1,500		85,500
	c) Wiring from switch/dimmer to first light/fan point with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm dia PVC conduit, complete with cables and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	181	Nos.	1,600		289,600
	d) Wiring and conduiting of light point to point with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	105	Nos.	1,000		105,000
	e) Circuit Wiring and conduiting from DB to power socket outlet with 2 x 4 sq.mm 1 core Cu/PVC insulated cable + CPC 4 sq.mm 1 core Cu/PVC insulated cable in 20 mm dia PVC conduit complete with cables, conduits and all necessary accessories such as sheet steel back box with earth connecting point bends, junction boxes, sockets etc. as per the specifications and drawings and approval by the Engineer.	21	Nos.	3,000		63,000
	f) Same as item (e) but wiring between adjacent socket outlets with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC.	17	Nos.	2,000		34,000



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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
g)	Same as (e) but wiring from socket outlet to socket outlet with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC.	37	Nos.	1,000		37,000
h)	Wiring and conduiting from DB to water pump/LBS with 2 x 6 sq mm 1 core Cu/PVC insulated cable + CPC 6 sq.mm 1 core Cu/PVC insulated cable in 25 mm dia PVC conduit complete with cables, conduits and all necessary accessories such as bends, junction boxes, sockets etc. as per the specifications and drawings and approval by the Engineer.	4	Nos.	4,000		16,000
CARRIED FORWARD TO SUMMARY						694,100/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
PART-4: LIGHT FIXTURES, FANS, SWITCHES, OUTLETS & ACCESSORIES						
38-04E 5	LIGHT FIXTURES Supply, installation, testing and commissioning of following light fittings, ceiling / wall mounted / with hanging arrangement made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, as per approved manufacturer, fittings shall be duly approved by Engineer.					
	a. Fluorescent Light TMS 015 with 1x36Watt TL-D lamp color 84 & electronic ballast.	73	Nos.	1,628		118,844
	b. Fluorescent Light TMS 015 with 1x18Watt TL-D lamp color 84 & electronic ballast.	6	Nos.	2,000		12,000
	c. LED Light TCS398 2x16Watt TL-Master LED lamp with M2 Louver.	22	Nos.	6,000		132,000
	d. LED Light TCS398 2x16Watt TL-Master LED lamp with M2 Louver (with hanging arrangement)	94	Nos.	4,500		423,000
	e. Fluorescent Light TBS 318 with 1x36Watt TL-D lamp color 84 & electronic ballast.	16	Nos.	4,500		72,000
38-04E 6	Ceiling Fans Supply, installation and commissioning of 4-blades ceiling fans of following sizes, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respects, fittings shall be duly approved by Engineer.					
	a. 56" dia.	7	Nos.	4,000		28,000
	b. 48" dia.	65	Nos.	3,500		227,500
	c. 36" dia.	1	Nos.	3,500		3,500

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
38-04E 7	<u>Switches & Fan Dimmers</u> Supply and installation of following type gang switches of 10 Amp rating, including 16 SWG sheet steel back box recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respect, as per specifications and drawings and approval by the Engineer.					
	i) One gang - 1 Way Switch	6	Nos.	330		1,380
	ii) Two gang - 1 Way Switch	25	Nos.	390		9,750
	iii) Three gang - 1 Way Switch	14	Nos.	550		7,700
	iv) Four gang - 1 Way Switch	2	Nos.	604		1,208
	v) One gang - Fan Dimmer	7	Nos.	1,190		8,330
	vi) Two gang - Fan Dimmer	33	Nos.	3,125		70,125
	vii) One gang - 2 Way Switch	2	Nos.	350		700
38-04E 8	<u>SOCKETS</u> Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and drawings, as per approved manufacturer list and approval by the Engineer.					
	i) 10A, 2-pin universal Switch Socket outlet.	28	Nos.	630		18,270
	ii) 13A, 3-pin Simplex Switch Socket outlet.	32	Nos.	560		17,920
	iii) 13A, 3-pin Duplex Switch Socket outlet.	10	Nos.	840		8,400
	iv) 15A, 3-pin Round Switch Socket outlet.	6	Nos.	560		3,360
	v) Floor Box - Type B	16	Nos.	5,500		88,000
38-04E 9	<u>LOAD BREAK SWITCHES</u> Supply installation, testing & commissioning of following size Load Break switch with MS back box including all accessories complete in all respects, as per specifications and drawings and approval by the Engineer.					
	i) 30 Amp SPN LBS	1	Nos.	3,000		3,000
CARRIED FORWARD TO SUMMARY						
						1,25,495/-

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-5: <u>EARTHING SYSTEM</u>					
38-04E 10	<u>Earth Electrode</u> Supply at site and installation of Copper earth electrodes, 10 feet long and 17mm dia including cost of all necessary materials, complete in all respects, as per specification.	11	Nos.	2,000		22,000
38-04E 11	<u>Copper Conductor</u> a) Supply, installation and connecting up of 1 x 16sqmm 1-Core Cu/PVC cable, directly buried in ground from ECP in pit to earth electrode, includes excavation, backfilling of earth, cad-welding of copper conductor to earth electrode rod at one end and provision/ fixing of cable lugs at other end, including all accessories as per the Specifications and Drawings and to the entire satisfaction and approval of the Engineer.	10	R.ft	1,000		10,000
	b) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable in 38mm dia PVC conduit, directly buried in ground, from Pit to ECP / MCC, as per drawing or as per the instructions of the engineer, including cost of excavation, backfilling of earth, brass nuts, bolts, washers, all necessary accessories, complete in all respects.	25	R.ft	200		5,000
	c) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from ECP to U-link box and from U-Link box to data patch panel, as per drawing or as per the instructions of the engineer, including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	85	R.ft	200		17,000
	d) Supply, installation and connections of bare copper conductor 50 mm sq in 38mm dia PVC conduit, from building rebars / earth electrode to earth connecting point, as per drawing or as per the instructions of the engineer, including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	15	R.ft	355		5,325

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
e)	Supply, installation and connections of copper conductor 1x50 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from earth connecting point to distribution board, as per drawing or as per the instructions of the engineer. Including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	15	R.R	355		5,325
38-04E 12	<u>Earth Connecting Points (ECP)</u> Supply of earth connecting points consisting of copper plate 300mm long x 50mm wide x 6mm thick to be installed as and where shown on drawings, complete with fixing arrangement, brass nuts bolts, washers, lugs, 1/2" dia. holes to facilitate connections of incoming copper strips / copper conductors and outgoing CPC.	2	Nos.	5,000		10,000
38-04E 13	<u>ECP (In Inspection Chamber)</u> Supply of earth connecting points in Earth pit / inspection chamber consisting of copper plate 200mm long x 50mm wide x 6mm thick with necessary holes, all fixing accessories of the copper plates on the wall of main holes, brass nuts bolts, washers, including cost of all necessary materials, complete in all respects.	2	Nos.	22,000		44,000
38-04E 14	<u>Earth pit / Inspection Chamber</u> Construction of Earth pit/ inspection chamber 375mm x 375mm x 450mm deep with 150mm thick wall and 330mm x 330mm heavy duty R.C.C Cover, complete in all respects, as per specification.	2	Nos.	5,000		10,000
38-04E 15	<u>Testing</u> Testing of the earthing system with "Earth Tester" along with other testing accessories. Testing shall be performed in the presence of the Engineer and written test result duly verified by the Engineer shall be submitted to the Client for his record.	1	Job	5,000		5,000
CARRIED FORWARD TO SUMMARY						133,650

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-6: TELEPHONE / VOICE SYSTEM					
38-04E 15	<u>Telephone / Data Network</u>					
	a) Wiring for each telephone point from Utility box to telephone point with Cat 5 UTP in 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects, as per drawing and specification.	230	R.ft	90		20,700
	b) Wiring for each data point from Utility box with Cat 6A UTP, to data point, including cost of 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects as per drawing and specification.	1200	R.ft	90		108,000
	c) Wiring from Utility box with Four pair Cat 6A UTP, to data patch panel, including cost of 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects as per drawing and specification.	140	R.ft	90		12,600
	d) Supply, installation of following telephone / data Outlet plate including RJ-45 ICs and 16 SWG sheet steel back box recessed in wall or wall surface, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.					
	i) Simplex Outlet RJ 45	23	Nos	750		17,250
	ii) Duplex Outlet RJ 45	3	Nos	1,200		3,600
38-04E 17	<u>U-link Box</u>					
	Supply, installation, testing and commissioning of U-link box, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.	1	Nos	50,000		50,000
38-04E 18	<u>Patch Panel</u>					
	a) Supply and installation of following Patch Panels complete in all respects as per the specifications and drawings and to the approval of the Engineer.					
	i) 24 Port Patch Panel	1	Nos	28,000		28,000



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
38-04E 19	<u>Telephone / Data Patch Cords</u>					
	a) Supply and connecting of telephone 2 Pair drop cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer.	5	Nos.	500		2,500
	b) Supply and connecting of data CAT 5A patch cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer.					
	i) 1 meter long	24	Nos.	750		18,000
	ii) 3 meter long	24	Nos.	1,000		24,000
38-04E 20	<u>Communication Rack</u>					
	Supply installation of 15U Data racks for the fixing of 12 port rack mounted 19" CAT-5A UTP Patch Panel with cable organizer including all installation accessories as per specification complete in all respect to the approval of engineer.	1	Nos.	28,000		28,000
38-04E 21	<u>Telephone Sets</u>					
	Supply and connection of following type of Telephone sets.					
	a) Telephone with CLI Module	2	Nos.	9,000		18,000
	b) Telephone without CLI Module	3	Nos.	4,000		12,000
CARRIED FORWARD TO SUMMARY						342,650
<u>PART -7 Fire Alarm System</u>						
38-04E 22	<u>Fire Alarm System</u>					
	a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect.					
	i) Smoke detector with buzzer	8	Nos.	12,000		96,000
	ii) Heat detector with buzzer	4	Nos.	12,000		48,000
CARRIED FORWARD TO SUMMARY						144,000

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
PART - 8 LIGHTNING PROTECTION SYSTEM						
38-04E 23	<u>Roof Conductor</u> Supply at site and installation of 60sqmm stranded bare copper conductor fixed on parapet walls or on flat surface of roof as shown on drawing or as required as per site conditions, including cost of copper saddles, copper crossing 3"x3" as shown on drawings, brass screws, all necessary fixing material / accessories, complete in all respects.	1415	R. ft.	280		396,200
38-04E 24	<u>Down Conductor</u> a) Supply at site, installation, connections of 60mm.sq. stranded bare copper conductor in 38mm dia. PVC conduit as down conductors to be installed within the columns from air terminal on roof to building rebars, all other required accessories including cadweld, complete in all respects.	675	R. ft.	300		202,500
38-04E 25	<u>Air terminal</u> Supply, installation and connecting up of 1 x 10mm DIA SOUND ROUND COPPER 600mm LONG AERIAL ROD as and where shown on drawings, complete with fixing arrangement, cost of all necessary materials / accessories, complete in all respects.	8	Nos.	20,000		160,000
38-04E 26	<u>Copper Test Link</u> Supply at site and installation of sectionable copper test link made of 200mm x 200mm uPVC enclosure with necessary holes, all fixing accessories of the copper test link to be installed on the wall of manholes, brass nuts bolts, washers, including cost of all necessary materials, complete in all respects.	8	Nos.	30,000		240,000
CARRIED FORWARD TO SUMMARY						998,700

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -5 <u>Public Address System</u>					
38-04E 27	<u>Amplifier</u> a) Supply, installation & commissioning of following type amplifier with three outputs, three microphone inputs and one music input, complete in all respect, as per approved manufacturer list.					
	i) 30W	2	Nos.	30,000		60,000
38-04E 28	<u>Speakers</u> e) Supply, installation & commissioning of 10W wall mounted speaker with all accessories complete in all respects, as per approved manufacturer list.					
		4	Nos.	30,000		120,000
38-04E 29	<u>Microphone</u> Cordless Microphone.					
		2	Nos.	8,000		16,000
38-04E 30	<u>Wiring</u> Wiring with 2 Core, 2.5 sq.mm PVC insulated and PVC sheathed Cable from Amplifier / controller to speaker and speaker to speaker in 20mm dia PVC conduit complete in all respects upto maximum (15 Nos speaker) as shown in riser diagram.					
		180	R.ft.	90		16,200
CARRIED FORWARD TO SUMMARY						212,200/-

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -10 EXTERNAL AREA LIGHTING					
38-04E31	LIGHT FIXTURES					
	Supply, installation, testing and commissioning of following light fittings, wall mounted arrangement made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, as per approved manufacturer, fittings shall be duly approved by Architect / Engineer.					
	a) Bulkhead light fixture mounted on wall with 1x18Watt PLC lamp.	12	Nos.	3500		42,000
	b) Britlite or equivalent Bollard Light Fixture in die cast aluminum body powder coated suitable for walkways with 1x18WATT PLC LAMP IP-67.	5	Nos.	15000		75,000
38-04E32	Wiring & Conduiting					
	a) Circuit Wiring and conduiting from DB to first light point with 1 x 4 sq.mm 3 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables for external lighting, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	5	Nos.	5000		25,000
	b) Same as item (a) but wiring from light point to light point.	12	Nos.	3000		36,000
CARRIED FORWARD TO SUMMARY						143,000/-

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -11 MISCELLANEOUS WORKS					
38-04E 33	<u>Cable TV System</u>					
	a) Supply, installation, testing and commissioning of RG-6 co-axial cable wiring for Cable TV system from U-link Box to TV outlet complete in all respects, as per the specifications and drawings and approval by the Engineer.	90	Rft.	90		8,100
	b) <u>Outlets</u> Supply, installation testing and commissioning of cable TV outlet along with 16 SWG back box having earth terminals and 2 coats of anti-rust paint, complete in all respects, as per the specifications and drawings and approval by the Engineer.	2	Nos.	2,000		4000
38-04E 34	<u>Manholes</u>					
	Construction of water tight concrete handhole / cable chamber with Heavy duty RCC cover with lifting hooks and these words "ELECTRICAL CABLES" written with paint on cover. Complete in all respect as per drawing and specification. Sizes of Manhole are as under:					
	i) 1'-6" x 1'-6" x 2'-6" deep	6	Nos.	10,000		60,000
38-04E 35	<u>Utility / PTCL Connection</u>					
	a) Supply and co-ordination for the utility connection from Utility as per required electrical load demand. The utility connection charges shall be paid separately as per actual on submission of receipt.	1	Job	50,000		50,000
	b) Supply and co-ordination for the telephone connection from PTCL as per required demand. The telephone connection charges shall be paid separately as per actual on submission of receipt.	1	Job	10,000		10,000
CARRIED FORWARD TO SUMMARY						32,100

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -12 SOLAR ROOM ELECTRIFICATION WORKS					
38-04E 36	LIGHT FIXTURES Supply, installation, testing and commissioning of following light fittings, ceiling /wall mounted made of fiber / plastic body. Complete with electronic blast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complet.					
	a) Fluorescent Light TCW098 with 1x36Watt TL-D lamp color 84 & electronic ballast (IP65).	1	Nos	7,000		7,000
	b) Fluorescent Light TMS 015 with 1x35Watt TL-D lamp color 84 & electronic ballast.	3	Nos.	5,000		15,000
38-04E 37	Switches & Fan Dimmers Supply and installation of following type gang switches of 10 Amp rating, including 16 SWG sheet steel back box recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respect, as per specifications and drawings and approval					
	i) Three gang - 1 Way Switch	1	Nos.	800		800
38-04E 38	SOCKETS Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and dr					
	i) 13A, 3-pin Duplex Switch Socket outlet.	1	Nos.	1,500		1,500
38-04E 39	Fire Alarm System a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect.					
	i) Heat detector with buzzer	1	Nos.	12,000		12,000

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
38-04E 40	Circuit Wiring & Conduiting					
	a) Circuit Wiring and conduiting from DB to switch with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	1	Nos.	3,000		3,000
	b) Same as item (a) but wiring from switch to switch with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit.	1	Nos.	2,500		2,500
	c) Same as item (b) but wiring from switch to first light point	3	Nos.	2,000		6,000
	d) Same as item (b) but wiring from light point to light point.	1	Nos.	1,800		1,800
CARRIED FORWARD TO SUMMARY						49,600
GRAND TOTAL						5,035,032/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	PLUMBING WORKS (BUILDING) PLUMBING FIXTURES Supply and installation of plumbing fixtures & faucets complete in all respects including all accessories, support, hangers, etc. ready to use as per specifications, drawings and instructions of Consultant.					
01-05P1	European style coupled water closet with seat cover, flush tank C.P. (chrome plated) connector, thimble, etc. # Type - EWC	7	No.	10,000		70,000
01-05P2	Asian style water closet Orissa type with flush tank C.P. (chrome plated) connector, uPVC Class "E" flush pipe, thimble, P-Trap, etc.	22	No.	2,500		55,000
01-05P3	Urinal wall hung type with automatic 1/2" size flush valve, CP trap, waste, connector and fixing accessories.		No.	5,000		
01-05P4	Wash basin (WB) including C.P. P- trap/Bottle Trap, stop cocks, etc. i. Type - WB - V (Vanity)	16	No.	12,300		196,800
01-05P5	Wash basin hot and cold water mixer, waste, etc for following i. Type - WB - V (Vanity)		No.	4,000		
01-05P6	Toilet Hand Shower with flexible chain & telephone type shower including tee stop cock etc. complete in all respect. Type - TS	29	No.	1,800		52,200
01-05P7	Stainless steel lab. sink including stop cocks, P-trap, Bottle trap, waste pipe etc complete in all respects: SK - 1, 36" x 20" single bowl and single drainer	4	No.	4,850		19,400
01-05P8	Sink hot and cold water mixer, etc. for following. a. For SK-1		No.	28,000		
01-05P9	S.S Grease Trap 7.5 Kg. capacity, inlet/outlet 2" Dia connections.		No.	45,000		
01-05P10	Toilet accessories complete set, (Imported make) i. Soap dispenser ii. Toilet paper holder iii. Coat Hook iv. Mirror 5mm (Belgium) v. Paper Rack	7 29 7 120 7	No. No. No. Sft No.	1,000 2,500 3,000 1.80 200		7,000 72,500 21,000 216,000 1,400
				Page Total		485,100

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Figures	Words	
Plumbing Water Supply.						
01-05P11	Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for water supply as per DIN 8077-8078 for pipes and DIN 16962, PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.					
	i) 1/2" internal dia (20 mm outer dia)	50	Rt	155		7,750
	ii) 3/4" internal dia (32 mm outer dia)	370	Rt	200		74,000
	iii) 1" internal dia (40 mm outer dia)	550	Rt	230		126,500
	iv) 1 1/4" internal dia (50 mm outer dia)	155	Rt	350		54,250
	v) 1 1/2" internal dia (63 mm outer dia)	230	Rt	450		103,500
	vi) 2" internal dia (75 mm outer dia)		Rt	2,000		
	vii) 2 1/2" internal dia (90 mm outer dia)		Rt	3,000		
01-05P12	Providing and installing gate/ball valves, Kitz or approved equivalent make, including jointing, fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters:					
	i) 1/2" internal dia (32 mm outer dia)	2	No	8,000		16,000
	ii) 1" internal dia (40 mm outer dia)	6	No	9,750		58,500
	iii) 1 1/4" internal dia (50 mm outer dia)	4	No	13,450		53,800
	iv) 1 1/2" internal dia (63 mm outer dia)	2	No	21,650		43,300
	v) 2" internal dia (75 mm outer dia)		No	70,000		
	vi) 2 1/2" internal dia (90 mm outer dia)		No	125,000		
Page Total						537,600

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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
<u>Plumbing Water Supply</u>						
01-05P11	Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for water supply as per DIN 8077-8078 for pipes and DIN 16962, PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects:					
	i) ½" internal dia (20 mm outer dia)	50	RR	155		7,750
	ii) ¾" internal dia (32 mm outer dia)	370	RR	200		74,000
	iii) 1" internal dia (40 mm outer dia)	550	RR	230		126,500
	iv) 1½" internal dia (50 mm outer dia)	155	RR	350		54,250
	v) 1½" internal dia (53 mm outer dia)	230	RR	450		103,500
	vi) 2" internal dia (75 mm outer dia)		RR	2,000		
	vii) 2½" internal dia (90 mm outer dia)		RR	3,000		
01-05P12	Providing and installing gate/ball valves, Kitz or approved equivalent make, including jointing, fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters:					
	i) ¾" internal dia (32 mm outer dia)	2	No	8,000		16,000
	ii) 1" internal dia (40 mm outer dia)	6	No	9,750		58,500
	iii) 1½" internal dia (50 mm outer dia)	4	No	13,450		53,800
	iv) 1½" internal dia (53 mm outer dia)	2	No	21,650		43,300
	v) 2" internal dia (75 mm outer dia)		No	70,000		
	vii) 2½" internal dia (90 mm outer dia)		No	125,000		
Page Total						533,600

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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	Plumbing Sewerage					
01-05P13	Providing, fixing, cutting, jointing and testing uPVC piping conforming to BS-4514 and BS 5255 including uPVC fittings with solvent cement jointing, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter:					
	2" dia	105	Rft	228		23904
	3" dia		Rft	800		
	4" dia	440	Rft	876		385440
	6" dia	110	Rft	1328		146080
01-05P14	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.	49	No.	2,150		105350
01-05P15	Construction of rectangular brick masonry manhole of following sizes for sewer complete with plastering from internal and external side, PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, rungs, complete as per drawings.					
01-05P16	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.	13	No.	2,800		36400
01-05P17	Providing and fixing Clean Out complete in all respects.	13	No.	14,450		187850
	Water Cooler					
01-05P18	Providing and fixing drinking water cooler of capacity 60 gallons per hour including all accessories and making connections to water supply and drainage systems complete in all respects as per details in specifications.	4	No.	42,000		168,000

Page Total ~~2053000~~

1053060/-

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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
EXTERNAL DEVELOPMENT						
<u>Septic Tank</u>						
01-05P19	Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with 'B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer.	15	Rft.	1,200		18,000
	6" id (150 mm)	5	Nos	500		2,500
	4" dia, pipe sleeves in walls	2	Nos	800		1,600
<u>Seepage Pit</u>						
01-05P20	Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with 'B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer.	5	Rft.	1,200		6,000
<u>Ground Water Storage Tank</u>						
01-05P21	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipe (Heavy Quality) of B.S.S. 1387-1967 complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer.	5	Rft.	450		2,250
	i) 1/2" dia	5	Rft.	1,300		6,500
	ii) 1 1/2" dia	2	Nos	400		800
	iii) 2" dia, pipe sleeves, 9' long					
<u>Overhead Water Storage Tank</u>						
01-05P22A	Vent Pipe 4" dia as per drawing and specifications for U.G.W.Tank, O.H.W.Tank complete in all respects, puddle flange, specials as per drawing or directed by the Engineer.	4	Nos	2,500		10,000
01-05P22B	Providing, laying, cutting, jointing, testing and disinfecting brass pipe sleeves/ connection pie with puddle including coupler (Heavy Quality) of approved as per B.S.S. code complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer.	2	Nos	1,500		3,000
	i) 1 1/4" dia, pipe sleeves, 10' long	3	Nos	2,000		6,000
	ii) 2 1/2" dia, pipe sleeves, 10' long					
<u>Kanchan Arsenic Filter</u>						
<u>Filter Material.</u>						
01-05P23	Providing & laying gravel, including screening and washing as per drawing or directed by the Engineer.	21	Cft	38		798
	Gravel size 8 mm to 16 mm.					
01-05P24	Providing & laying coarse sand, including screening and washing as per drawing or directed by the Engineer.	42	Cft	45		1,890
01-05P25	Providing & laying fine sand, including screening and washing as per drawing or directed by the Engineer.	42	Sq. ft	125		5,250



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P26	Providing & fixing M.S sheet 1/4" thick, 1/8" Dia hole 2 inch c/c (Diffuser Plate), as per drawing or directed by the Engineer.	37	Sq.ft.	108		3,996
01-05P27	Providing & laying Dry rammed brick ballast 1-1/2" to 2" (40mm to 50mm) gauge, including screening and washing as per drawing or directed by the Engineer.	9	Cft.	55		495
01-05P28	Providing & laying iron nails with out coating (1" thick layer) as per drawing or directed by the Engineer.	125	Kg	132		16,500
01-05P29	Providing & fixing cover over Kanchan Filter of PVC sheet 1/2" thick, as per drawing or directed by the Engineer.	32	Sq.ft.	550		17,600
01-05P30	Providing, laying, cutting, jointing, testing and disinfecting PPRC pipe including plastic shower heads with all fittings complete in all respects as per drawing or directed by the Engineer i) 1/2" internal dia (32 mm outer dia)	23	Rft.	490		11,270
01-05P31	Providing and fixing Plastic Shower Heads	9	Nos	750		6,750
<u>Tube Well / Pneumatic Pump</u>						
01-05P32	Boring for tubewell in all types of soil except shingle and rock, from ground level to 100 ft (30m) Depth, including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. i) 8" Id (200mm)	100	Rft.	2800		280,000
01-05P33	Boring for tubewell in all types of soil except shingle and rock, from a depth of 100.1 to 200ft (30 to 60 m) below ground level, including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. i) 8" Id (200mm)	50	Rft.	3,500		1,75,000
01-05P34	Providing and installing P.V.C. ball/End plug B.S.S. class 'D', in tubewell bore hole, complete in all respect and as directed by the Engineer. (2" Id (100mm)	1	Each.	1,200		1,200
01-05P35	Providing and installing P.V.C. blind pipe B.S.S Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer, etc, complete in all respect and as directed by the Engineer. i) 1" Id(25mm) ii) 1-1/4" Id(30mm) iii) 2" Id(50mm)	150 40	Rft. Rft. Rft.	450 400 425		60,000 17,000
01-05P36	Providing and installing P.V.C. strainer B.S.S Class 'D' in tubewell bore hole, including sockets and solvents; etc, complete in all respect and as directed by the Engineer. (2" Id/50mm)	40	Rft.	425		17,000



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P36	Providing and installing P.V.C. blind pipe B.S.S. Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer, complete in all respect and as directed by the Engineer. i) 4" i/d (100mm)	60	Rft.	525		31,500
01-05P37	Testing and developing of bore hole, complete in all respect and as directed by the Engineer.	3	Per Hr.	20,000		60,000
01-05P38	Shrouding with graded pea gravel 3/8" to 1/8" around tubewell in bore hole, complete in all respect and as directed by the Engineer.	45	Ct.	1,000		45,000
01-05P39	Providing/fixing Injector valve as per B.S.S. quality, complete in all respect and as directed by the Engineer.	1	Each.	85,250		85,250
01-05P40	Providing/fixing P.V.C. Cup/Cover as per B.S.S. quality, complete in all respect and as directed by the Engineer.	1	Nb.	300		300
01-05P41	Providing/fixing Pneumatic Pump (having 4 impellers capable to carry a discharge of 400 gals/hr against 90 ft head and 3 HP Motor), complete in all respect and as directed by the Engineer. EXTERNAL PIPING Plumbing Water Supply	1	Set	15,000		15,000
01-05P42	Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for water supply as per DIN 8077-8078 for pipes and DIN 16962, PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.					
	i) 1/2" internal dia (30 mm outer dia)		Rft.	320		
	ii) 3/4" internal dia (32 mm outer dia)	30	Rft.	308		9,240
	iii) 1" internal dia (40 mm outer dia)	150	Rft.	230		34,500
	iv) 1 1/4" internal dia (50 mm outer dia)	130	Rft.	350		45,500
	v) 1 1/2" internal dia (63 mm outer dia)	13	Rft.	450		5,850
	vi) 2" internal dia (75 mm outer dia)		Rft.	2,000		
	vii) 2 1/2" internal dia (90 mm outer dia)		Rft.	3,000		



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P43	Providing and installing gate/ball valves, Kitz or approved equivalent make, including jointing, fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters:					
	i) ¾" internal dia (32 mm outer dia)	2	No	8,000		16,000
	ii) 1" internal dia (40 mm outer dia)	5	No	9,750		48,750
	iii) 1¼" internal dia (50 mm outer dia)	4	No	12,250		49,000
	iv) 1½" internal dia (63 mm outer dia)	0	No	18,500		
	v) 2" internal dia (75 mm outer dia)		No	31,000		
	vi) 2½" internal dia (90 mm outer dia)		No	45,000		
	<u>Plumbing Sewerage</u>					
01-05P44	Providing, fixing, cutting, jointing and testing uPVC piping conforming to BS-4514 and BS 5255 including uPVC fittings with solvent cement jointing, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter:					
	2" dia		Rft.	500		
	3" dia		Rft.	800		
	4" dia	32	Rft.	876		28,032
	6" dia	430	Rft.	1,090		468,700
01-05P45	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.		No.	25,400		
01-05P46	Construction of rectangular brick masonry manhole of 2'x2' for sewer complete with plastering from internal and external side, PCC 1:2:4 base slabs, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, rungs, complete as per drawings.		No.	40,000		
01-05P47	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.		No.	26,000		
01-05P48	Providing and fixing Clean Out complete in all respects.		No.	18,600		
	<u>Water Supply Pumps For GST</u>					
01-05P49	Supply at site, installation, testing and commissioning of water supply reciprocating pump with 2HP motor as per specification complete in all respect.	2	No	50,000		100,000
				Page Total 2,74,000		
				G-Total C/o to Summary		



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 G. Total 3,78,781
 Plumbing works
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GBELS WARYO GABOL
(P05-KHI39)



SINDH BASIC EDUCATION PROGRAM
CONSTRUCTION OF NEW SCHOOLS AND UPGRADATION OF EXISTING SCHOOLS
Package- 05: Karachi, City
GBELS WARYO GABOL GOTH, GADAP TOWN
SUMMARY OF TENDERED COST

CODE	DESCRIPTION	AMOUNT IN PAK.RUPEES
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A. GENERAL ITEMS		2,088,975/-
B. CIVIL WORKS		5,813,372/- 53,43,996/-
C. EXTERNAL WORKS		10,655,028/- 11,39,532/-
D. ELECTRICAL WORKS		5,017,000/- 50,38,367/-
E. PLUMBING WORKS		3,939,432/- 39,19,781/-
F. DAYWORK COST		4,956,100/-

Sub-Total 84,840,269/-


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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
<u>Temporary Facilities (Optional Items)</u>						
01- 01 G 1	Ref.Spec. No. G05 Providing and maintaining a rental building of area 1,500 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, water supply and sanitation complete in all respect as directed by the Engineer.	Rate only	Month	2,0000		
	OR					
01- 01 G 2	Providing and maintaining a tent school of area 1,500 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, water supply and sanitation complete in all respect as directed by the Engineer.	Rate only	Month	2,5000		
	OR					
01- 01 G 3	Providing and maintaining porta cabins for school of area 1,500 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, airconditioning, water supply and sanitation complete in all respect as directed by the Engineer.	Rate only	Month	1,5000		
	OR					
01- 01 G 3A	Shifting of furnitures and equipments and reinstall etc from existing school to rental building and reinstall as per specification and directed by the engineer.	Rate only	LS	25000		
01- 01 G 5	Repair & renovation of existing Government building proposed for temporary school during the construction. (The payable amount shall be assessed as per actual rehabilitation work on selected building and as per recommendation by the Engineer on BOQ rates of similar items quoted in the bid).	P.S.	P.S.			500,000
Sub- Total (Rs.)						500,000
<u>Site Clearing and Grubbing</u>						
01- 01 G 4	Ref.Spec. No. G01 Clearing and Grubbing complete in all respect as directed by the Engineer.	24,379	Sft	5		121895
	<u>DISMANTLING WORK</u>					
	Ref Spec. No. G04					
01- 01 G 5	Dismantling, removing of existing building structure and foundations including disposal of debris materials to designated places/location as directed by the Engineer. All the dismantled materials shall be contractor's property and rate/price of dismantling work should include compensation of such items obtained by the Contractor from existing building	3,504	Sft	20		70080.
01- 01 G 6	Dismantling, removing of existing sewerage lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property	50	Rft	20		1000.
01- 01 G 7	Dismantling, removing of existing water supply lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property	50	Rft	20		1000.
01- 01 G 8	Dismantling, removing of existing electrical supply line as directed by the Engineer.	150	Rft	100		15000.



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
01-01-G-9	Dismantling of existing boundry wall as shown in the drawing including disposal of surplus material and as directed by the Engineer. Dismantled material shall be contractor's property.	683	Rft	2,000		683000.
01-01-G-9A	Dismantling of existing walkways/platform/water tank ramp etc and flooring as shown in the drawing/ as per site including disposal of surplus material and as directed by the Engineer. Dismantled material shall be contractor's property.	600	Sft	30		27000.
POWER SUPPLY & TELECOMMUNICATION						
01-01-G-10	Providing, installing, testing and commissioning of electrical supply line for re-routing as per new plan including cables, all fixtures, connections and all related civil works as directed by the Engineer.	1	Job	200,000		200,000.
01-01-G-11	Providing, installing, testing and commissioning of telephone line for re-routing as per new plan including cables, all fixtures, connections and all related civil works as directed by the Engineer.	1	Job	20,000		20,000.
SIGN BOARD / PLAQUE Ref. Spec. No. SP 100						
01-01-G-12	Providing and installation of Project sign board as per drawing complete including all civil related works, foundations, earthwork concrete, protection works complete as directed by the Engineer.	1	Job	20,000		20,000.
01-01-G-13	Providing, construction and installation of Inauguration Plaque as per drawing complete including all civil related works, foundations, earthwork concrete, protection works etc complete as directed by the Engineer.	1	Job	50,000		50,000.
02-01-G-14	Providing and maintenance of the Engineer's facilities at individual school site as per clause 44, Section-100 (SP), Volume-III (A), Specifications-Special Provisions. All items/ materials/ equipment shall become contractor's property at the completion of works.	12	Month	30,000		360000.
WATER TESTING Ref. Spec. No.						
01-01-G-15	Sampling and testing of Water from bore of well (TDS) including submission of report as per specification	1	Each	20,000		20,000.
Total General Items (Rs.)						2,588,975.
Sub- Total C/o to Summary General Items Pak Rs.						2,588,975.

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
CONSTRUCTION OF SCHOOL BUILDING						
SUB-STRUCTURE						
EARTHWORKS						
Ref Spec. No. C02						
01- 02 C 1	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places. a) 0 ft to 5 ft b) More than 5 ft upto 10 ft.	30084 500	Cft. Cft.	15 15		451260 7,500
01- 02 C 2	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material/ source to be approved by the Engineer) upto free haulage limit.	15042 64853	Cft. Cft.	20 28		150420 1815884
01- 02 C 2A	Engineered fill layer not exceeding 6" thick with ASSHTO A-1-a type material & soling with compaction should be 98% MDD. (Maximum Dry density) selected materials including watering and compaction to every layer as per specification and drawings. a) Stone soling 12" compacted layer b) Fill layer not exceeding 6" thick with ASSHTO A-1-a type material.		Rate only Rate only	Cft. Cft.	1500 4000	
01- 02 C 2B	Plate load test as per specifications, including in all respect work complete perform and test reports with any number of tests as required by the engineer.		Rate only	Ls		
DEWATERING						
Ref. Spec. No. G03						
01- 02 C 3	Designing, providing and installation of complete dewatering system including boring, strainer, filter and other all materials, pumping and disposal of water upto Engineer's satisfaction and to keep the construction surface dry all the time. a) Completion of installation works at site, up 100% running/ working position b) Dewatering, days not allow more than maximum payable		Rate only Rate only	L.S. Day	120000 20000	
TERMITE CONTROL TREATMENT						
Ref. Spec. No. C03						
01- 02 C 4	Termite control treatment to surfaces following structures complete in all respect as per specification: (Only plan area will be measured)	11625	Sq. ft.	32		368,200
REINFORCEMENT						
Ref. Spec. No. C04						
01- 02 C 5	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	43	ton.	110,000		4730000



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 5	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi. <u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u> Ref.Spec. No. C04	<i>Rate only</i>	ton.	135,000		0.0 135,000.
01- 02 C 7	Blinding concrete 1250 psi using slag cement conforming to BS-146.	3314	Cft.	160		530240.
01- 02 C 8	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) isolated foundations b) Columns upto plinth c) Plinth beams d) SOG & Ramps Slabs e) Walls <u>SITU CONCRETE 1:3:6</u> Ref.Spec. No. C04	12209 1057 2789 158 50	Cft. Cft. Cft. Cft. Cft.	256 256 256 256 270		325504. 270592. 708864. 40448. 13500.
07- 02 C 9	Situ concrete 1:3:6, with formwork under the plinth beam thickness as per drawings, using slag cement conforming to BS-146, straight or curve at any level including all anchors required to be built in Rcc columns pedestals, complete in all respect as per drawings and specifications. <u>BRICK MASONRY</u> Ref.Spec. No. C05	1500	Cft.	235		352500.
07- 02 C 9 A	Solid brick masonry under the plinth beam of one and half brick thickness, set in 1:4 using slag cement conforming to BS-146 & sand mortar, straight or curve at any level including all anchors required to be built in brick masonry, complete in all respect as per drawings and specifications. <u>HARDCORE/ STONE SOLING</u> Ref.Spec. No. C07	Rate only	Cft.	1500		
01- 02 C 10	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings. <u>P.C.C UNDER FLOORING</u> Ref.Spec. No. C07	8560	Sq.ft.	40		342400.
01- 02 C 11	PCC 4" thick plain cement concrete (using slag cement conforming to BS-146) sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer. <u>PLINTH PROTECTION</u> Ref.Spec. No. C04 & C07	8560	Sq.ft.	185		1583600.
01- 02 C 12	Blinding concrete 1250 psi using slag cement conforming to BS-146 <u>PROTECTION WORKS</u> Ref.Spec. No. C16	690	Cft.	210		144900.
01- 02 C 13	Vapor barrier sheet, under the floor as per drawings and specifications.	8560	Sq.ft.	40		342400.



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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 14	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	22998	Sq. ft.	30		689940.
SUPER-STRUCTURE WORKS						
Ground Floor (From Plinth level to 1st Slab)						
REINFORCEMENT						
Ref.Spec. No. C04						
01- 02 C 15	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	32	ton	110,000		3520000.
01- 02 C 16	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.		ton	135,000		0.0 135,000.
<i>Rate only</i>						
PLAIN AND REINFORCED CONCRETE AND FORMWORKS						
Ref.Spec. No. C04						
01- 02 C 17	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification:					
	a) Columns	1526	Cft.	2556		390656.
	b) Beams & lintels	2029	Cft.	2556		519424.
	c) Slab & projections	5662	Cft.	2556		1428992.
	d) Stair cases	373	Cft.	2556		164440.
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts	198	Cft.	550		108900.
	f) Parapet wall for stair cases	83	Cft.	300		24900.
First Floor (From 1st Slab to 2nd slab)						
REINFORCEMENT						
Ref.Spec. No. C04						
01- 02 C 18	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	34	ton	110,000		3740000.
01- 02 C 19	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.		ton	135,000		0.0 135,000.
<i>Rate only</i>						
PLAIN AND REINFORCED CONCRETE AND FORMWORKS						
Ref.Spec. No. C04						
01- 02 C 20	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification:					
	a) Columns	1690	Cft.	2556		432640.
	b) Beams & lintels	2060	Cft.	2556		527360.
	c) Slab & projections	5765	Cft.	2556		1475840.
	d) Stair cases	175	Cft.	350		61250.
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts	206	Cft.	550		113300.
	f) Parapet wall for stair cases	32	Cft.	350		11200.



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs.)
				Figures	Words	
<u>Second Floor / Roof (From 2nd slab to 3rd slab & tower)</u>						
<u>REINFORCEMENT</u>						
Ref. Spec. No. C04						
01- 02 C 21	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	4	ton	110000		440000.
01- 02 C 22	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	<i>Rate only</i>	ton	135000		0. ⁰ 135,000.
<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u>						
Ref. Spec. No. C04						
01- 02 C 23	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures components complete in all respect as per drawings and specification:					
	a) Columns	108	Cft.	3500		37800.
	b) Beams & lintels	124	Cft.	3500		43400.
	c) Slab & projections	252	Cft.	2700		68040.
	d) Parapet Wall/ Furd	815	Cft.	256		208640.
	e) Precast coping for parapet wall at roof and erecting/ lining including shuttering and all accessories and/or embedded parts.	1000	Rt.	215		215000.
	g) Over head water tank: column, walls & slab	296	Cft.	315		124740.
	f) Others Misc. Str.	20	Cft.	400		8000.
<u>FINISHING WORKS</u>						
<u>For Ground floor</u>						
<u>BLOCK MASONRY</u>						
Ref. Spec. No. C18						
01- 02 C 24	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications:					
	a) 4" thick	1683	Cft.	310		577530.
	b) 6" thick	279	Cft.	250		69750.
	c) 8" thick	5430	Cft.	130		705900.
	d) 4" thick, external cavity; wall with all accessories arrangements for stone tile facing or Color Crete finishing including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level	1845	Cft.	400		738000.
<u>BRICK MASONRY</u>						
Ref. Spec. No. C05						
01- 02 C 24 A	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.					
	a) 4-1/2" thick	Rate only	Cft.	600		
	b) 9" thick	Rate only	Cft.	500		
	c) 13-1/2" thick	Rate only	Cft.	400		



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	DOORS FRAMES Ref.Spec. No. C09 & C11					
01- 02 C 25	G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door; complete hardware/ fitting material (Hold fast & mortar etc) sizes and pattern detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	782	R. ft.	302		242144.
	CEMENT PLASTER Ref.Spec. No. C06					
01- 02 C 26	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, r-1/2in, chamfers and complete in all respect as shown on the drawings and specifications.	375	Sq. ft.	80		30000.
01- 02 C 28	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	8780	Sq. ft.	40		351200.
01- 02 C 29	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	20773	Sq. ft.	40		830920.
	ALUMINIUM WORKS Ref.Spec. No. C11					
01- 02 C 30	Supply and fix in position as specified anodized aluminum operable windows and ventilators of 2"x4" section, approved manufacturer having minimum wall thickness not less than 1.6 mm with netted shutter and 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fittings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	1733	Sq. ft.	600		1039800.
01- 02 C 31	Supply and fix in position as specified anodized aluminum doors with fixed panel both side and top of approved 2"x4" section, manufacturer having minimum wall thickness not less than 1.6 mm with 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fittings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	116	Sq. ft.	850		98600.
	STRUCTURAL STEEL Ref. Sec.No. C13					
01- 02 C 32	Mild steel grills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings and specification.	2166	Kg	150		324900.



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 32	Providing and fixing railing for stairs/ramps as per drawing and specifications complete in all respect. a) MS railing stairs b) M.S railing at entrance	54 60	Rft Rft	950 1100		51300. 66000
01- 02 C 34	Providing and fixing MS pipe railing for courtyard with paintings, as per drawing and specifications complete in all respect and approved by the Engineer.	177	Rft	750		132750.
01- 02 C 35	Providing and fixing MS folding gate (Emergency Exit) with paintings, complete in all respects as per drawing and specifications.	2	No.	80000		160000.
01- 02 C 35 A	Providing and fixing MS folding Main entrance gate with paintings, complete in all respects as per drawing and specifications.	1	No.	110000		110,000.
<u>FLOOR AND WALL FINISHES</u>						
Ref.Spec. No. C07						
01- 02 C 36	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	7841	Sq.ft	175		1372175.
01- 02 C 37	Providing and laying terrazzo tile for entrance ramp (3/4" thick) with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	75	Sq.ft	250		18750.
01- 02 C 38	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	484	Sq.ft.	65		32110
01- 02 C 39	Porcelain tile floor (type) using tile of size 8"x8" (full body), approved quality, colour and shade laid in approved pattern set in specified mortar including cement concrete base, complete in all respect as shown on the drawings and specifications.	730	Sq.ft.	130		94900/- 64220.
01- 02 C 40	Porcelain tile in Dado using tile of size 8"x8", quality, colour and shade laid in approved pattern including rough plaster base complete in all respect as shown on drawings and specifications.	3604	Sq.ft.	130		476320.
<u>MARBLE WORKS</u>						
Ref. Spec. No. C07 & C08						
01- 02 C 41	Pre-polished marble on entrance steps, stairs, ramp & floor etc using approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.					243750/- 343750.
	a) Entrance Steps & Platform (3/4" thick)	325	Sq.ft.	750		42000.
	b) Entrance Steps Risers (1/2" thick)	60	Sq.ft.	700		



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Rs.		
				Figures	Words	
01- 02 C 42	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	382	Sq. ft.	750		286500.
01- 02 C 43	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	106	Sq. ft.	750		79500.
01- 02 C 44	Pre-polished marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish including complete in all respect as shown on the drawings.	53	Sq. ft.	750		39750.
01- 02 C 45	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	83	Sq. ft.	750		62250.
PAINTING						
Ref. Spec. No. C10						
01- 02 C 46	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	8780	Sq. ft.	28		245840/- 245840.
01- 02 C 47	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	20773	Sq. ft.	40		830920.
01- 02 C 48	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	375	Sq. ft.	45		16875.
WOODEN DOORS						
Ref. Spec. No. C09						
01- 02 C 49	Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partial wood frame and infill, polish, color/ locker, beading/ Architrave, with all hardware (Locks, door closer, door stopper, push plate kick plate etc) as per schedule and finish with locker polish complete in all respect as shown on the drawings and specifications.	1093	Sq. ft.	800		874400.



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 50	Fixed 6mm plain laminated glass panel part at above door panel with solid wood batten including teak polish/lacker at both sides around the glass of approved type, quality complete in all respect as shown on the drawings and specifications.	146	Sq.ft.	1200		175200.
	FALSE CEILING Ref.Spec. No. C14					
01- 02 C 51	1/2" thick gypsum board ceiling including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on the drawings and specifications.	733	Sq.ft.	187		136510.
	Pre cast C.C.Patren jali Ref.Spec. No.C18, C5					
01- 02 C 52	C.C.Patren jali as per approved designed and specification.	300	Sq.ft.	120		43200.
	CLADDING/ EXTERNAL FACING Ref.Spec. No.C19 & C20					
01- 02 C 53	Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using mortar fill between block masonry wall and stone cladding; set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	5591	Sq.ft.	100		559100.
01- 02 C 33 A	Providing and laying Color-Crete with 3/4" Cement sand plaster on external facing as per approved sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using mortar 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	3074	Sq.ft.	50		153700.
	Ref.Spec. No. C05					
01- 02 C 33 B	Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq.ft.	500		

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	FINISHING WORKS For First floor					
	BLOCK MASONRY Ref. Spec. No. C18					
01- 02 C 54	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 4" thick	551	Cft	320		170810.
	b) 6" thick	83	Cft	250		20750.
	c) 8" thick	6198	Cft	230		805740.
	d) 4" thick, external cavity, wall with all accessories arrangements for stone tie facing or Color Crete finishing including cavity arrangements / accessories, anchorages, angle irons and metal fusing & PVC pipe as weep hole etc at any height and level	1845	Cft	400		738000.
	BRICK MASONRY Ref. Spec. No. C05					
01- 02 C 54 A	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.					
	a) 4-1/2" thick	Rate only	Cft.	610		
	b) 8" thick	Rate only	Cft.	510		
	c) 13-1/2" thick	Rate only	Cft.	440		
	DOORS FRAMES Ref. Spec. No. C09 & C11					
01- 02 C 55	G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and pattern detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	725	R.ft.	310		224750.
	CEMENT PLASTER Ref. Spec. No. C 06					
01- 02 C 56	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers including complete in all respect as shown on the drawings.	175	Sq. ft.	80		14000.
01- 02 C 57	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	8713	Sq. ft.	40		348520.
01- 02 C 57 A	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	20562	Sq. ft.	40		822480.



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	ALUMINIUM WORKS Ref. Spec. No. C 11					
01- 02 C 58	Supply and fix in position as specified anodized aluminum operable windows and ventilators of 2'x4' section, approved manufacturer having minimum wall thickness not less than 1.5 mm with netted shutter and 6mm plain laminated glazing of approved brand and Standard and all imported ironmongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	1414	Sq. ft.	600		848400.
	STRUCTURAL STEEL Ref. Sec No. C 13					
01- 02 C 59	Mild steel grids as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings.	1739	Kg	150		260850.
01- 02 C 60	Providing and fixing MS stair railing as per drawing and specifications complete in all respect.	30	Rft	950		28500.
01- 02 C 61	Providing and fixing MS pipe railing for courtyard with paintings as per drawing and specifications complete in all respect and approved by the engineers.	201	Rft	1100		221100.
	FLOOR AND WALL FINISHES Ref. Spec. No. C 07, 08.					
01- 02 C 62	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	9213	Sq. ft.	175		1612275.
01- 02 C 63	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	578	Sq. ft.	65		37440.
01- 02 C 64	Porcelain tile floor (type) using tile of size 8"x8" (full body), approved quality, colour and shade laid in approved pattern set in specified mortar including cement concrete base, complete in all respect as shown on the drawings.	500	Sq. ft.	130		65000.
01- 02 C 65	Porcelain tile in Dado using tile of size 8"x8", quality, colour and shade laid in approved pattern including rough plaster base complete in all respect.	2364	Sq. ft.	130		307320.
	MARBLE WORKS Ref. Spec. No. C 07, 08					
01- 02 C 66	Pre-polished marble on stairs steps and landing etc. 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	176	Sq. ft.	750		132000.



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 67	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	50	Sq.ft.	800		40000.
01- 02 C 68	Pre-polished marble tile for counter tops & other area 3/4" thick using of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including complete in all respect as shown on the drawings.	50	Sq.ft.	750		37500.
01- 02 C 69	Pre-polished Marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	34	Sq.ft.	750		25500.
01- 02 C 70	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	45	Sq.ft.	750		33750.
PAINTING						
Ref.Spec. No. C 10						
01- 02 C 71	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	6713	Sq.ft.	28		243964
01- 02 C 72	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	20562	Sq.ft.	40		822480.
WOODEN DOORS						
Ref.Spec. No. C 06, 12						
01- 02 C 73	Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core portal wood frame and infill, polish, color/ lacker, beading/ Architrave, with all hardware (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	1071	Sq.ft.	800		856800.
01- 02 C 74	Fixed firm plain laminated glass panel part at above door panel with solid wood batten including leak polish/ lacker at both sides around the glass of approved type, quality complete in all respect as shown on the drawings and specifications.	93	Sq.ft.	1,200		111600.



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 75	<u>FALSE CEILING</u> Ref.Spec. No C14 12mm thick gypsum board ceiling including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on the drawings and specifications.	635	Sq.ft.	125		117475
01- 02 C 76	<u>Pre cast C.C Patren jali</u> Ref.Spec. No C18, C5 C.C Patren jali as per approved designed and specification	731	Sq.ft.	120		87720.
01- 02 C 77	<u>STONE CLADDING/ COLOR-CRETE/ EXTERNAL FACING</u> Ref.Spec. No. C19 & C20 Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using mortar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	5591	Sq.ft.	100		559100.
01- 02 C 77 A	Providing and laying Color-Crete with 3/4" Cement sand plaster on external facing as per approved sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using mortar 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	3074	Sq.ft.	50		153700.
01- 02 C 77 B	Ref.Spec. No. C05 Providing and laying Brck facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected brcks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq.ft.	800		
01- 02 C 78	<u>WATER PROOFING AND BUILT UP ROOFING</u> Ref.Spec. No C 15 Water proofing and built up roofing over roof slab comprising all the layers and coatings etc as shown in the drawings and specifications.	11795	Sq.ft.	125		1474375

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	FINISHING WORKS					
	For Roof floor / Second floor					
	BLOCK MASONRY					
	Ref. Spec. No. C18					
01- 02 C 74	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 4" thick	30	Cft.	320		9300.
	b) 6" thick	50	Cft.	250		12500.
	c) 8" thick	430	Cft.	40		163200.
	d) 4" thick, external cavity, wall with all accessories arrangements for stone tile facing or Color Crete finishing including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	1347	Cft.	400		538800.
	BRICK MASONRY					
	Ref. Spec. No. C05					
01- 02 C 78A	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.					
	a) 4-1/2" thick	Rate only	Cft.	610		
	b) 9" thick	Rate only	Cft.	510		
	c) 13-1/2" thick	Rate only	Cft.	410		
	DOORS FRAMES					
	Ref. Spec. No. C05 & C11					
01- 02 C 80	G.I frame 16swg redoxided inner & outer side and polish paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and pattern detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	35	R.F.	300		10500.
	CEMENT PLASTER					
	Ref. Spec. No. C 06					
01- 02 C 81	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection, parapet or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and as per elevation complete in all respect as shown on the drawings.	2504	Sq.ft.	50		125200.
01- 02 C 82	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	368	Sq.ft.	40		14720.
01- 02 C 83	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	928	Sq.ft.	40		37120.



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Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 84	3/4" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls to O.H.W Tank etc with making of chamfer corner in plaster as per drawings and specifications.	305	Sq.ft.	80		24,400.
01- 02 C 85	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating.	150	Sq.ft.	40		6,000.
01- 02 C 86	Water proofing coating treatment to all horizontal surfaces in contact with water shall be treated with 1 coat of crystalline water proofing coating.	210	Sq.ft.	40		8,400.
01- 02 C 88	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivalent, including fixing of frame and embedded parts in concrete and painting, complete in all respect as per specification and as directed by the Engineer.	2	No.	18,000		36,000.
01- 02 C 88 A	Supply and fitting of malleable iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer. (For O.H.W tank)	4	No.	500		2,000.
FLOOR AND WALL FINISHES						
Ref Spec. No. C 07, 08						
01- 02 C 87	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	160	Sq.ft.	175		31500.
01- 02 C 88	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	16	Sq.ft.	65		1640
MARBLE WORKS						
Ref Spec. No. C 07, 08						
01- 02 C 89	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc. colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	6	Sq.ft.	750		4,500.
PAINTING						
Ref Spec. No. C 10						
01- 02 C 90	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filing, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	388	Sq.ft.	28		10,864.
01- 02 C 91	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filing, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	928	Sq.ft.	40		37,120.



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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Rs.	Words	
01- 02 C 92	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	2504	Sq. ft.		45	112680.
	WOODEN DOORS Ref. Spec. No. C 09, C12					
01- 02 C 93	Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1 1/2" thick solid core partial wood frame and infill, polish, color/lacker, beading/ Architrave, with all hardware (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	45	Sq. ft.		1100	49500.
	Pre cast C.C. Patren jali and Railing Ref. Spec. No. C18, C5 & C21					
01- 02 C 94	C.C. Patren jali as per approved designed and specification	100	Sq. ft.		120	12000/- 12000/-
01- 02 C 95	Precast water spout as per approved designed and specification.	15	No.		500	7,500
	CLADDING/ EXTERNAL FACING Ref. Spec. No. C19 & C20					
01- 02 C 96	Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using mortar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	4083	Sq. ft.		1200	408,300.
	Providing and laying Color-Crete with 3/4" Cement sand plaster on external facing as per approved sample type size mentioned in drawings and specifications with expanded materials at joints, arrangements / accessories, anchorages, angle irons and metal fusing etc at any height and level using mortar 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	566	Sq. ft.		50	28,300
	Ref. Spec. No. C05					
01- 02 C 98	Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq. ft.		800	
Total G/o to Summary for CIVIL WORKS Pak Rs.						68,73,709/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
EXTERNAL DEVELOPEMENT						
CONSTRUCTION OF BOUNDARY WALL						
Ref. Spec. No. C02						
EARTHWORKS						
Ref. Spec. No.						
01- 03 D-1	Excavation in all kinds of sub-surface materials; limbering upto following depths including disposal of surplus / rejected excavated materials to designated places					
	a) 3 ft to 5 ft	3,923	Cft.	18		70614.
01- 03 C-2	Fill and backfill with selected materials including watering and compaction to every layer as per specification.					
	a) From suitable excavated material (from stockpile of excavated materials)	1,952	Cft.	10		19,620.
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	14,788	Cft.	30		443670.
01- 03 C3	Area Fill with selected materials from outside source including watering and compaction to every layer as per specification for Play ground.	1,000	Cft.	30		30,000.
DEWATERING						
Ref. Spec. No. C03.						
01- 03 D4	Designing, providing and installation of complete dewatering system including boring, strainer, filter and other all materials, pumping and disposal of water upto Engineer's satisfaction and to keep the construction surface dry all the time.					
	a) Completion of installation works at site, up 100% running/ working position	Rate only	L.S.	2,20,000		
	b) Dewatering	Rate only	Day	20,000		
TERMITE CONTROL TREATMENT						
Ref. Spec. No. C03						
01- 03 D5	Termite control treatment to surfaces following structures complete in all respect as per specification: (Only plan area will be measured)	3,141	Sq.ft.	32		109512
REINFORCEMENT						
Ref. Spec. No. C04						
01- 03 D6	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	620	ton	150,000		92,000.
PLAIN AND REINFORCED CONCRETE						
Ref. Spec. No. C04						
01- 03 D7	Blinding concrete 1250 psi using slag cement conforming to BS-146.	655	Cft.	210		137,550.
01- 03 C7A	Situ concrete 1:3:6, with formwork under the plinth beam thickness as per drawings, using slag cement conforming to BS-146, straight or curve at any level including all anchors required to be built in Rec columns pedestals, complete in all respect as per drawings and specifications.	570	Cft.	256		145,920.



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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D8	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Footings b) Columns upto plinth c) Plinth beams	1,109 236 684	Cft. Cft. Cft.	250 256 256		277,250. 60,416. 175,104.
01- 03 D9	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification. a) Columns	488	Cft.	280		136,920.
	<u>BLOCK MASONRY</u> Ref. Spec. No. C18					
01- 03 D10	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 8" thick / 4" thick	3,192	Cft.	130		414,960. 444,960
	<u>BRICK MASONRY</u> Ref. Spec. No. C05					
01- 03 D10 A	Solid brick masonry wall 9" thick with using slag cement conforming to BS-146 set in 1:4 cement sand mortar, straight or curve below plinth beam, planters including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per Drawings and Specifications. a) 9" thick	Rate only	Cft.	1,000		
01- 03 D10 B	Solid brick masonry wall with pointing on both faces above plinth beam 9" thick set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties, and other fixtures required to be built in brick masonry, complete in all respect as per Drawings and specifications. a) 4 1/2" thick	Rate only	Cft.	1,500		
	<u>CEMENT PLASTER</u> Ref. Spec. No. C06					
01- 03 D11	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces (Columns, wall, beams and project, etc.) including making grooves as per design and elevation complete in all respect as shown on the drawings.	3,710	Sq. ft.	45		166,950.
	<u>PROTECTION WORKS</u> Ref. Spec. No. C18					
01- 03 D12	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	4,744	Sq. ft.	35		166,040.

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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>COPING</u> Ref.Spec. No. C04					
01- 03 D13	Providing and fixing 3" thick coping including plaster using OP cement for boundary wall complete as shown on the drawings.	611	Rft	190		116,090.
	<u>STRUCTURAL STEEL</u> Ref. Sec.No. C13					
01- 03 D14	Mild steel main gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 14x7)	1	no	27,500		27,500
01- 03 D15	Mild steel wicket gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 3x7)	1	no	120,000		120,000
	<u>CLADDING/ EXTERNAL FACING</u> Ref.Spec. No. C19 & C20					
01- 03 D 15A	Providing and laying stone cladding/ stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using mortar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and clearing etc. complete in all respect, as per drawings, specifications and as directed by the Engineer.	10387	Sq.ft.	100		1,038,700.
	<u>LANDSCAPING</u> Ref. Sec.No. C17					
01- 03 D 16	Fill and backfill with selected materials including watering and compaction to every layer as per specification.	1,960	Cft.	45		88,200.
01- 03 D17	Area fill with selected materials including watering and compaction to every layer as per specification.	28,843	Cft.	35		
01- 03 D18	Relocation and replanting of removed trees as per specifications and as directed by the Engineer.	14	No	1,000		1,000
01- 03 D18	Development of lawn (grass) including fertilizer mixed with earth including spreading and watering etc. and cutting etc. till guarantee period (12 months) complete in all respect as shown on the drawings and as per specifications	11,500	Sq.ft.	80		920,000.
01- 03 D20	12" thick approved selected sweet earth including spreading, levelling, dressing and watering etc. complete in all respect as per specifications and as directed by the Engineer.	11,500	Cft.	40		460,000



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D21	Trees/ plants of the following types and size/ height including excavation, backfilling, manure/ fertilizer, supports and water etc. complete in all respect as shown on the drawings, specifications and as directed by the Engineer. a) Neem tree (3 to 4 feet) b) Babul tree (3 to 4 feet) c) Golmohar (3 to 4 feet) d) Champa (2 to 3 feet) e) Grape Jasmine (2 to 3 feet) f) Cement Concrete planters	14 5 10 22 22 170	No. No. No. No. No. Rft	15000 10000 30000 10000 10000 10000		21,000. 5,000. 12,000. 39,600. 39,600. 153,000.-
	<u>Footpath Walkway (Precast Paving Blocks / Tiles)</u> Ref. Sec.No.C21					
01- 03 D22	4" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	950	Sq.ft.	55		52,250.
01- 03 D23	Precast cement concrete paving blocks envicrete or approved equivalent of size 9" x 4" x 2.5" laid in approved pattern including 2" thick sand cushion.	950	Sq.ft.	170		161,500.
01- 03 D24	PCO concrete keth envicrete or approved equivalent including lean, haunching concrete etc complete as per drawing and specifications with earth cutting/ filling, levelling, dressing etc complete in all respect as per specifications and as directed by the Engineer.	161	Rft	230		37030.
01- 03 D24A	Plain cement concrete panel flooring including 1/2" Groove @ 8" o/c, joints etc complete as shown in the drawings.	315	Sq.ft.	85		26,775
	<u>EXTERNAL SEWER & MANHOLES</u>					
01- 03 D25	Construction of manholes with material including, excavation, base top RCC slab, GI steps, CC benching water proof internal plaster, external bitumen coating etc inlet/out connections etc. i. 24" x 24" SIZE k. 36" x 36" SIZE	8 2	Nos. Nos.	20,000 25,000		160,000. 50,000.
01- 03 D26	Supply and fix water tight (Square Type) Malleable Iron Manhole cover with frame of CME or Equivalent, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	10	No.	12,000		120,000.
	<u>Septic Tank</u>					
01- 03 D27	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft.	830 430	Cft. Cft.	18 18		14,940. 7,740.
01- 03 D28	Blinding concrete 1250 psi using slag cement conforming to BS-146	55	Cft.	210		11,550.



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D29	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of Crystalline water proofing coating.	480	Sq.ft.	32		15,680
01- 03 D30	Water proofing coating treatment to all surfaces in contact with water shall be treated with 1 coat of Crystalline water proofing coating on horizontal surface.	140	Sq.ft.	60		8,400
01- 03 D30	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) Base Slab. b) Walls including chamfer etc. c) Top Slab.	111 345 70	Cft. Cft. Cft.	256 256 256		28416. 88320. 17920.
01- 03 D31	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60, as mentioned in drawings and directed by the Engineer.	1.5	Ton	11000		165,000
01- 03 D32	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	90	Sq.ft.	40		3600.
01- 03 D33	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	630	Sq.ft.	40		25,200
01- 03 D34	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings complete in all respect as shown on the drawings and specifications.	430	Sq.ft.	60		25,800
01- 03 D35	Providing embedding 10" wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	51	Rtl.	160		8,160.
01- 03 D36	Supply and fix water tight (Square Type) Malleable Iron Manhole cover with frame of CME or Equivalent, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	No.	12000		24,000.
01- 03 D37	Supply and fitting of malleable iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No.	500		8,000.
01- 03 D38	<u>Soakage Pit</u> Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer: a) 0 to 5 ft. b) More than 5 ft upto 10 ft. c) More than 10 ft upto full depth.	900 900 1,800	Cft. Cft. Cft.	18 18 18		16,200. 16,200. 32,400.
01- 03 D38	Binding concrete 2000 psi using slag cement conforming to BS-146	25	Cft.	250		5250.



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D40	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 20" thick b) 16" thick b) 12" thick	680 550 210	Cft Cft Cft	550 415 226		374000 228250 58800
01- 03 D41	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. Pre-cast R.C.C Slab	90	Cft	225		20,250
01- 03 D42	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 as mentioned in drawings and directed by the Engineer.	0.35	Ton	110,000		38,500
01- 03 D43	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivalent, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	1	No	12,000		12,000
01- 03 D44	Supply and fitting of malleable Iron nungs, etc. complete in all respects, as per drawing and directed by the Engineer. <u>Ground Storage Tank</u>	24	No	500		12000
01- 03 D45	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft	725 12	Cft Cft	18 18		13050 216
01- 03 D46	Binding concrete 1250 psi using slag cement conforming to BS-146	48	Cft	210		10080
01- 03 D47	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) Base Slab b) Walls including chamfer etc. c) Top slabs d) Precast Slab	100 255 50 10	Cft Cft Cft Cft	256 256 256 256		25600 65280 15360 2560
01- 03 D48	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 as mentioned in drawings and directed by the Engineer.	1	Ton	110,000		110,000
01- 03 D49	Providing embedding 16" (250 mm) wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	55	Rft	215		11,825



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D50	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications: a) 12" thick	75	Cil.	280		21,000
01- 03 D51	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivalent, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	No.	35,000		70,000
01- 03 D52	Supply and fitting of malleable iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	10	No.	1,000		10,000
01- 03 D53	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	530	Sq.ft.	80		42400 42400
01- 03 D54	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	116	Sq.ft.	65		7540.
01- 03 D55	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	435	Sq.ft.	55		23925.
01- 03 D56	2" thick, 3000psi (ply) cement concrete floor and screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	185	Sq.ft.	175		32375.
01- 03 D57	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc complete in all respect as per specifications.	90	Sq.ft.	85		7650.
01- 03 D58	Providing and applying three or more coats of distemper paint to C-C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	12	Sq.ft.	45		540.
01- 03 D59	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	40	Sq.ft.	75		3000.



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-03-D00	M/S Door including paint etc complete in all respect as shown in the drawings.	15	Sq. ft.	635		9525.
01-03-D01	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 2 coats of crystalline water proofing coating on vertical surfaces	577	Sq. ft.	45		25965.
01-03-D01	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 1 coat of crystalline water proofing coating on horizontal surfaces.	63	Sq. ft.	60		4980.
<u>Tube Well / Pneumatic Pump</u>						
<u>Construction works</u>						
01-02-D02	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft	100	CR.	25		3750.
01-02-C03	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitably excavated material (from stockpile of excavated materials)	20	Cft.	35		700.
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	40	Cft.	45		1800.
01-03-D04	Blinding concrete 1250 psi using slag cement conforming to BS-146	60	Cft.	210		12600.
01-03-D05	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification; Pre-cast R.C.C Slab including Beam	35	CR.	350		12,250.
01-03-D06	Hot rolled, deformed steel bars conforming to ASTM A-315 grade 60, as mentioned in drawings and directed by the Engineer.	0.05	Ton	132400		6,605.
01-03-D07	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, wall ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 20" thick, for foundation b) 10" thick, for foundation c) 12" thick, for foundation d) 12" thick, for above G.L. e) 4" thick, for parapet wall	50 40 45 100 10	CR CR CR CR CR	550 550 550 2000 60		27,500. 16,600. 126,000 24,200 3,1200/-
01-03-D08	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	285	Sq. ft.	80		22,800.



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D69	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	25	Sq.ft	65		1,625.
01- 03 D70	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	150	Sq.ft	55		8,250.
01- 03 D71	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	25	Sq.ft	40		1,000.
01- 03 D72	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	25	Sq.ft	185		4,625.
01- 03 D73	Plain cement concrete 2" thick floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	25	Sq.ft	175		4,375.
01- 03 D74	Plain cement concrete 2" thick screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	33	Sq.ft	175		5,775.
01- 03 D75	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. complete in all respect as per specifications.	285	Sq.ft	85		24,225.
01- 03 D76	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	25	Sq.ft	45		1,125.
01- 03 D77	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	150	Sq.ft	75		11,250.
01- 03 D78	Vapor barrier sheet, under foundations and floor as per drawings and specifications.	25	Sq.ft	55		1,375.
01- 03 D79	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	250	Sq.ft	40		10,000.



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
<u>Kanchar Arsenic filter</u>						
01- 03 D60	Excavation and backfilling in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places: a) 0 ft to 5 ft	75	Cft.	25		1875.
01- 03 D81	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	50	Cft.	32		1600/- 4600
01- 03 D82	Blinding concrete 1250 psi using slag cement conforming to BS-146	15	Cft.	210		4500. 3150.
01- 03 D83	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer: a) footing b) Columns up bottom first slab c) Slabs & projection e) Walls including chamfer etc.	25 20 35 80	Cft. Cft. Cft. Cft.	256 70 55 90		6400. 5400. 8960. 23200.
01- 03 D84	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 as mentioned in drawings and directed by the Engineer.	0.5	Ton	132,100		66,050.
01- 03 D85	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	84	Sq. ft.	40		3,360.
01- 03 D88	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	84	Sq. ft.	185		15540
01- 03 D87	2" thick, 3000 cement concrete floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	84	Sq. ft.	175		14700.
01- 03 D89	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	152	Sq. ft.	80		12160.
01- 03 D89	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	126	Sq. ft.	65		8190.



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 090	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating.	126	Sq.ft.	45		5670.
01- 03 091	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	216	Sq.ft.	40		8720.
01- 03 092	Plain cement concrete panel flooring: Plain cement concrete panel flooring including sub flooring and base preparation, joints etc complete as shown in the drawings.	2,300	Sq.ft.	175		402500
Sub- Total C/o to Summary for External Development work Pak Rs.						10,65,500 11,39,5328

[Signature]
Program Director
Sindh Basic Education Program
Government of Sindh



GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
32-04E 1	<u>PART -1 Distribution Board</u> <u>Distribution Board</u> Fabrication, Supply, installation, Testing and commissioning at site of following Distribution board, made of MS Sheet 16 SWG with hinged door, handle, catcher, earthing bar, neutral strip, internal wiring from MCBs terminating on cable terminal blocks, 2 coats of antirust and powder coated paint of approved colour, including cost of all necessary materials complete in all respects. DBs shall be manufactured as per specification, single line diagram complete in all respect up to the satisfaction of Engineer.					
	i) MDBLP-GF	1	No.	70,000		70,000 -
	ii) DBLP-GF1	1	No.	45,000		45,000 -
	iii) DBLP-GF2	1	No.	45,000		45,000 -
	iv) DBLP-FF1	1	No.	45,000		45,000 -
	v) DBLP-FF2	1	No.	45,000		45,000 -
	vi) MCC-WP	1	No.	90,000		90,000 -
	vii) DB-EXT (IP 54)	1	No.	45,000		45,000 -
CARRIED FORWARD TO SUMMARY						365,000

[Signature]
Program Director
Sindh Basic Education Program
Government of Sindh



GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-2: CABLES AND CONDUITS					
39-04E 2	L.V. Power Cables Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 500 / 1000 Volt grade manufactured by any one of the manufacturers as mentioned in approved manufacturer list in prelaidd conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the employers electrical engineer before placing the order with the manufacturer.					
	a) 4 Core Cu/PVC/PVC CABLE					
	i. 4 core 10mm sq.	545	R.ft	276		150420.
	ii. 4 core 16mm sq.	330	R.ft	354		116820.
	iii. 4 core 50mm sq.	100	R.ft	1022		102200.
	b) Circuit Protective Conductor (CPC)					
	i. 1 core 10mm sq. PVC insulated colour Green/Yellow.	545	R.ft	66		35970.
	ii. 1 core 16mm sq. PVC insulated colour Green/Yellow.	330	R.ft	104		34320.
	iii. 1 core 25mm sq. PVC insulated colour Green/Yellow.	100	R.ft	150		15000.
39-04E 3	P.V.C. Conduit and Accessories Supply at site of PVC conduit to be installed on slabs, walls, floor, columns or as required as per site conditions including cost of all PVC conduit accessories, steel pull wires, complete in all respects.					
	a) 32mm (1.25") dia. PVC conduit to pull electric cable	415	R.ft	35		10375
	b) 38mm (1.5") dia. PVC conduit to pull electric cable	360	R.ft	41		14760.
	c) 50mm (2") dia. PVC conduit to pull electric cable.	135	R.ft	68		9180.
	d) 75mm (3") dia. PVC conduit to pull electric cable.	200	R.ft	105		21000

CARRIED FORWARD TO SUMMARY 520.0451



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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-3: <u>Wiring & Conduiting</u>					
36-04E 4	<u>Circuit Wiring & Conduiting</u>					
	a) Circuit Wiring and conduiting from DB to switch / Fan dimmer with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	32	Nos.	2,000		64,000.
	b) Same as item (a) but wiring from switch to switch with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit.	57	Nos.	1,500		85,500.
	c) Wiring from switch/dimmer to first light/fan point with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm dia PVC conduit, complete with cables and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	181	Nos.	1,600		2,89,600.
	d) Wiring and conduiting of light point to point with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	105	Nos.	898		94,290
	e) Circuit Wiring and conduiting from DB to power socket outlet with 2 x 4 sq.mm 1 core Cu/PVC insulated cable + CPC 4 sq.mm 1 core Cu/PVC insulated cable in 20 mm dia PVC conduit complete with cables, conduits and all necessary accessories such as sheet steel back box with earth connecting point bends, junction boxes, sockets etc., as per the specifications and drawings and approval by the Engineer.	21	Nos.	3,000		63,000.
	f) Same as item (e) but wiring between adjacent socket outlets with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC:	17	Nos.	2,000		34,000.



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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-3 <u>Wiring & Conduiting</u>					
35-04E 4	<u>Circuit Wiring & Conduiting</u>					
	a) Circuit Wiring and conduiting from DB to switch / Fan dimmer with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	32	Nos.	2,000		64000.
	b) Same as item (a) but wiring from switch to switch with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit.	57	Nos.	1,500		85500.
	c) Wiring from switch/dimmer to first light/fan point with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm dia PVC conduit, complete with cables and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	127	Nos.	2,100		267150.
	d) Wiring and conduiting in light point to point with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm dia PVC conduit, complete with cables, conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.					

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
g)	Same as (e) but wiring from socket outlet to socket outlet with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC.	37	Nos.	1,000		37,000-
h)	Wiring and conduiting from DB to water pump/LBS with 2 x 6 sq.mm 1 core Cu/PVC insulated cable + CPC 6 sq.mm 1 core Cu/PVC insulated cable in 25 mm dia PVC conduit complete with cables, conduits and all necessary accessories such as bends, junction boxes, sockets etc., as per the specifications and drawings and approval by the Engineer	4	Nos.	4,000		16,000-
CARRIED FORWARD TO SUMMARY						623,390-

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-4: LIGHT FIXTURES, FANS, SWITCHES, OUTLETS & ACCESSORIES					
36-04E 5	LIGHT FIXTURES Supply, installation, testing and commissioning of following light fittings: ceiling / wall mounted / with hanging arrangement made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, as per approved manufacturer, fittings shall be duly approved by Engineer.					
	a. Fluorescent Light TMS 015 with 1x36Watt TL-D lamp color 84 & electronic ballast.	73	Nos.	2,698		118,844
	b. Fluorescent Light TMS 015 with 1x18Watt TL-D lamp color 84 & electronic ballast.	6	Nos.	2,000		12,000
	c. LED Light TCS398 2x16Watt TL-Master LED lamp with M2 Louver.	22	Nos.	6,000		132,000
	d. LED Light TCS398 2x16Watt TL-Master LED lamp with M2 Louver (with hanging arrangement)	94	Nos.	4,500		423,000
	e. Fluorescent Light TBS 318 with 1x36Watt TL-D lamp color 84 & electronic ballast.	16	Nos.	4,500		72,000
39-04E 6	Ceiling Fans Supply, installation and commissioning of 4-blades ceiling fans of following sizes, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respects, fittings shall be duly approved by Engineer.					
	a. 55" dia.	7	Nos.	4,000		28,000
	b. 48" dia.	65	Nos.	3,500		227,500
	c. 36" dia.	1	Nos.	3,500		3,500


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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
39-04E 7	Switches & Fan Dimmers Supply and installation of following type gang switches of 10 Amp rating, including 16 SWG sheet steel back box recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respect, as per specifications and drawings and approval by the Engineer.					
	i) One gang - 1 Way Switch	6	Nos.	230		1380
	ii) Two gang - 1 Way Switch	25	Nos.	390		9,750
	iii) Three gang - 1 Way Switch	14	Nos.	550		7,700
	iv) Four gang - 1 Way Switch	2	Nos.	604		1208
	v) One gang - Fan Dimmer	7	Nos.	1,190		8,330
	vi) Two gang - Fan Dimmer	33	Nos.	2,125		70,125
	vii) One gang - 2 Way Switch	2	Nos.	350		700
39-04E 8	SOCKETS Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and drawings, as per approved manufacturer list and approval by the Engineer.					
	i) 10A, 2-pin universal Switch Socket outlet.	29	Nos.	630		18,270
	ii) 13A, 3-pin Simplex Switch Socket outlet.	32	Nos.	560		17,920
	iii) 13A, 3-pin Duplex Switch Socket outlet.	10	Nos.	840		8,400
	iv) 15A, 3-pin Round Switch Socket outlet.	6	Nos.	560		3,360
	v) Floor Box - Type B	16	Nos.	5,500		88,000
39-04E 9	LOAD BREAK SWITCHES Supply, installation, testing & commissioning of following size Load Break switch with MS back box including all accessories complete in all respects, as per specifications and drawings and approval by the Engineer.					
	i) 30 Amp SPN LBS	1	Nos.	3,000		3,000
CARRIED FORWARD TO SUMMARY						


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1254987/-
 425167/-



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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-5: <u>EARTHING SYSTEM</u>					
39-04E 10	<u>Earth Electrode</u> Supply at site and installation of Copper earth electrodes, 10 feet long and 17mm dia including cost of all necessary materials, complete in all respects, as per specification.	11	Nos.	20900		229,000
39-04E 11	<u>Copper Conductor</u>					
	a) Supply, installation and connecting up of 1 x 16sqmm 1-Core Cu/PVC cable, directly buried in ground from ECP in pit to earth electrode, includes excavation, backfilling of earth, cad-welding of copper conductor to earth electrode rod at one end and provision/ fixing of cable lugs at other end, including all accessories as per the Specifications and Drawings and to the entire satisfaction and approval of the Engineer.	10	R.ft	2000		20,000
	b) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable in 38mm dia PVC conduit, directly buried in ground, from Pit to ECP / MCC, as per drawing or as per the instructions of the engineer, including cost of excavation, backfilling of earth, brass nuts, bolts, washers, all necessary accessories, complete in all respects.	25	R.ft	194		4,856
	c) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from ECP to U-link box and from U-Link box to data patch panel, as per drawing or as per the instructions of the engineer, including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	85	R.ft	200		17,000
	d) Supply, installation and connections of bare copper conductor 50 mm sq. in 38mm dia PVC conduit, from building rebars / earth electrode to earth connecting point, as per drawing or as per the instructions of the engineer, including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	16	R.ft	355		5,325
	e) Supply, installation and connections of copper conductor 1x50 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from earth connecting point to distribution board, as per drawing or as per the instructions of the engineer, including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	15	R.ft	368		5,520



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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
39-04E 12	<u>Earth Connecting Points (ECP)</u> Supply of earth connecting points consisting of copper plate 300mm long x 50mm wide x 6mm thick to be installed as and where shown on drawings, complete with fixing arrangement, brass nuts bolts, washers, lugs, 1/2" dia holes to facilitate connections of incoming copper strips / copper conductors and outgoing CPC.	2	Nos.	5,000		10,000
39-04E 13	<u>ECP (in inspection Chamber)</u> Supply of earth connecting points in Earth pit / inspection chamber consisting of copper plate 200mm long x 50mm wide x 6mm thick with necessary holes, all fixing accessories of the copper plates on the wall of main holes, brass nuts bolts, washers, including cost of all necessary materials, complete in all respects.	2	Nos.	22,000		44,000
39-04E 14	<u>Earth pit / Inspection Chamber</u> Construction of Earth pit/ inspection chamber 375mm x 375mm x 450mm deep with 150mm thick wall and 330mm x 330mm heavy duty R.C.C Cover, complete in all respects, as per specification.	2	Nos.	5,000		10,000
39-04E 15	<u>Testing</u> Testing of the earthing system with "Earth Tester" along with other testing accessories. Testing shall be performed in the presence of the Engineer and written test result duly verified by the Engineer shall be submitted to the Client for his record.	1	Job	5,000		5,000
CARRIED FORWARD TO SUMMARY						331,695/-


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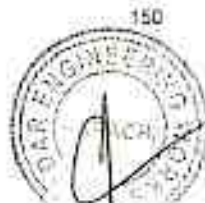
Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-6: TELEPHONE / VOICE SYSTEM					
39-04E 16	<u>Telephones / Data Network</u>					
	a) Wiring for each telephone point from Utility box to telephone point with Cat 6 UTP in 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects, as per drawing and specification.	230	R.ft	90		20,700
	b) Wiring for each data point from Utility box with Cat 6A UTP, to data point, including coat of 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects as per drawing and specification.	1200	R.ft	90		1,08,000
	c) Wiring from Utility box with Four pair Cat 6A UTP, to data patch panel, including coat of 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects as per drawing and specification.	140	R.ft	90		12,600
	d) Supply, Installation of following telephone / data Outlet plate including RJ-45 IOs and 18 SWG sheet steel back box recessed in wall or wall surface, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.					
	i) Simplex Outlet RJ 45	23	Nos.	750		17,250/-
	ii) Duplex Outlet RJ 45	3	Nos.	1200		3,600/-
39-04E 17	<u>U-link Box</u>					
	Supply, installation, testing and commissioning of U-link box, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.	1	Nos.	50,000		50,000/-
39-04E 18	<u>Patch Panel</u>					
	a) Supply and installation of following Patch Panels complete in all respects as per the specifications and drawings and to the approval of the Engineer.					
	i) 24 Port Patch Panel	1	Nos.	22,000		22,000/-
39-04E 19	<u>Telephone / Data Patch Cords</u>					
	a) Supply and connecting of telephone 2 Pair drop cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer.	5	Nos.	500		2,500/-



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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	b) Supply and connecting of data CAT 6A patch cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer.					
	i) 1 meter long	24	Nos.	750		18,000
	ii) 3 meter long	24	Nos.	1000		24,000
39-04E 20	<u>Communication Rack</u> Supply installation of 15U Data racks for the fixing of 12 port rack mounted 19" CAT-6A UTP Patch Panel with cable organizer including all installation accessories as per specification complete in all respect to the approval of engineer.	1	Nos.	28000		28,000
39-04E 21	<u>Telephone Sets</u> Supply and connection of following type of Telephone sets:					
	a) Telephone with CLI Module	2	Nos.	9,000		18,000
	b) Telephone without CLI Module	3	Nos.	4,000		12,000
CARRIED FORWARD TO SUMMARY						342,650/-
39-04E 22	<u>PART -7 Fire Alarm System</u> <u>Fire Alarm System</u> a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect					
	i) Smoke detector with buzzer	8	Nos.	12,000		96,000
	ii) Heat detector with buzzer	4	Nos.	12,000		48,000
CARRIED FORWARD TO SUMMARY						144,000/-


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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -8 LIGHTNING PROTECTION SYSTEM					
39-04E 23	<u>Roof Conductor</u> Supply at site and installation of 50sqmm stranded bare copper conductor fixed on parapet walls or on flat surface of roof as shown on drawing or as required as per site conditions, including cost of copper saddles, copper crossing 3"x3" as shown on drawings, brass screws, all necessary fixing material / accessories, complete in all respects.	1415	R.ft.	280		396200
39-04E 24	<u>Down Conductor</u> a) Supply at site, installation, connections of 50mm sq. stranded bare copper conductor in 38mm dia. PVC conduit as down conductors to be installed within the columns from air terminal on roof to building rebars, all other required accessories including cadweld, complete in all respects.	675	R.ft.	300		202500
39-04E 25	<u>Air terminal</u> Supply, installation and connecting up of 1 x 16mm DIA SOUND ROUND COPPER 800mm LONG AERIAL ROD as and where shown on drawings, complete with fixing arrangement, cost of all necessary materials / accessories, complete in all respects.	8	Nos.	20000		160000
39-04E 26	<u>Copper Test Link</u> Supply at site and installation of sectionable copper test link made of 200mm x 200mm uPVC enclosure with necessary holes, all fixing accessories of the copper test link to be installed on the wall of manholes, brass nuts bolts, washers, including cost of all necessary materials, complete in all respects.	8	Nos.	30000		240000
CARRIED FORWARD TO SUMMARY						998700

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	<u>PART -9 Public Address System</u>					
39-04E 27	<u>Amplifier</u> a) Supply, installation & commissioning of following type amplifier with three outputs, three microphone inputs and one music input, complete in all respect, as per approved manufacturer list. i) 30W	2	Nos.	30,000		60,000
39-04E 28	<u>Speakers</u> a) Supply, installation & commissioning of 10W wall mounted speaker with all accessories complete in all respects, as per approved manufacturer list.	4	Nos.	3,000		12,000
39-04E 29	<u>Microphone</u> Cordless Microphone.	2	Nos.	8,000		16,000
39-04E 30	<u>Wiring</u> Wiring with 2 Core, 2.5 sq.mm PVC insulated and PVC sheathed Cable from Amplifier / controller to speaker and speaker to speaker in 20mm dia PVC conduit complete in all respects upto maximum (15 Nos speaker) as shown in riser diagram.	180	R.ft.	90		16,200
CARRIED FORWARD TO SUMMARY						
104,200/-						

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -10 EXTERNAL AREA LIGHTING					
39-04E31	LIGHT FIXTURES Supply, installation, testing and commissioning of following light fittings, wall mounted arrangement made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, as per approved manufacturer, fittings shall be duly approved by Architect / Engineer.					
	a) Bulkhead light fixture mounted on wall with 1x18Watt PLC lamp.	12	Nos.	3,500		42,000
	b) Brittile or equivalent Bollard Light Fixture in die cast aluminum body powder coated suitable for walkways with 1x18WATT PLC LAMP IP-67.	2	Nos.	15,000		30,000
39-04E32	Wiring & Conduiting					
	a) Circuit Wiring and conduiting from DB to first light point with 1 x 4 sq.mm 3 core Cu/PVC insulated cable in 20 mm, dia PVC conduit, complete with cables for external lighting, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	4	Nos.	5,000		20,000/- 2,000
	a) Same as item (h) but wiring from light point to light point.	10	Nos.	3,000		30,000
CARRIED FORWARD TO SUMMARY						
						20,000/- 122,000/-

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -11 MISCELLANEOUS WORKS					
35-04E 33	<u>Cable TV System</u>					
	a) Supply, installation, testing and commissioning of RG-6 co-axial cable wiring for Cable TV system from U-link Box to TV outlet complete in all respects, as per the specifications and drawings and approval by the Engineer.	90	Rft.	90		8100
	b) <u>Outlets</u>					
	Supply, installation testing and commissioning of cable TV outlet along with 16 SWG back box having earth terminals and 2 coats of antirust paint, complete in all respects, as per the specifications and drawings and approval by the Engineer.	2	Nos.	2000		4000
30-04E 34	<u>Manholes</u>					
	Construction of water tight concrete handhole / cable chamber with Heavy duty RCC cover with lifting hooks and these words "ELECTRICAL CABLES" written with paint on cover. Complete in all respect as per drawing and specification. Sizes of Manhole are as under:					
	i) 1'-6" x 1'-6" x 2'-6" deep	4	Nos.	10000		40,000
39-04E 35	<u>Utility / PTCL Connection</u>					
	a) Supply and co-ordination for the utility connection from Utility as per required electrical load demand. The utility connection charges shall be paid separately as per actual on submission of receipt.	1	Job	50,000		50,000
	b) Supply and co-ordination for the telephone connection from PTCL as per required demand. The telephone connection charges shall be paid separately as per actual on submission of receipt.	1	Job	10,000		10,000
CARRIED FORWARD TO SUMMARY						12,100

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -12 SOLAR ROOM ELECTRIFICATION WORKS					
39-04E 36	LIGHT FIXTURES Supply, installation, testing and commissioning of following light fittings, ceiling /wall mounted made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete.					
	a. Fluorescent Light TCW098 with 1x36Watt TL-D lamp color 84 & electronic ballast (JP65).	1	Nos.	7,000		7,000
	b. Fluorescent Light TMS 015 with 1x36Watt TL-D lamp color 84 & electronic ballast.	3	Nos.	5,000		15,000
39-04E 37	Switches & Fan Dimmers Supply and installation of following type gang switches of 10 Amp rating, including 16 SWG sheet steel back box recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respect, as per specifications and drawings and approval.					
	i) Three gang - 1 Way Switch	1	Nos.	800		800
39-04E 38	SOCKETS Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and drawings.					
	i) 13A, 3-pin Duplex Switch Socket outlet	1	Nos.	1,500		1,500
39-04E 39	Fire Alarm System a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect.					
	i) Heat detector with buzzer	1	Nos.	12,000		12,000

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
35-04E 49	<u>Circuit Wiring & Conduiting</u>					
	a) Circuit Wiring and conduiting from DB to switch with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	1	Nos.	3,000		3,000
	b) Same as item (a) but wiring from switch to switch with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit.	1	Nos.	2,500		2,500
	c) Same as item (b) but wiring from switch to first light point.	3	Nos.	2,000		6,000
	d) Same as item (b) but wiring from light point to light point.	1	Nos.	1,800		1,800
CARRIED FORWARD TO SUMMARY						49,600/-
GRAND TOTAL						50,367/-

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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	PLUMBING WORKS (BUILDING): PLUMBING FIXTURES Supply and installation of plumbing fixtures & faucets complete in all respects including all accessories, support, hangers, etc ready to use as per specifications, drawings and instructions of Consultant.					
01-05P1	European style coupled water closet with seat cover, flush tank C.P. (chrome plated) connector, thimble, etc. a. Type - EWC	7	No.	10,000		70,000
01-05P2	Asian style water closet Onesa type with flush tank C.P. (chrome plated) connector, uPVC Class "E" flush pipe, thimble, P-Trap, etc.	22	No.	2,500		55,000
01-05P3	Unnal wall hung type with automatic 1/2" size flush valve, CP trap, waste, connector and fixing accessories.		No.	5,000		
01-05P4	Wash basin (WB) including C.P.P. trap/Bottle Trap, stop cocks, etc. i. Type - WB - V (Vanity)	16	No.	12,300		196,800
01-05P5	Wash basin hot and cold water mixer, waste, etc for following. i. Type - WB - V (Vanity)		No.	4,000		
01-05P6	Toilet Hand Shower with flexible drain & telephone type shower including tee stop cock etc. complete in all respect. Type - TS	20	No.	2,600		52,200
01-05P7	Stainless steel lab. sink including stop cocks, P-trap, Bottle trap, waste pipe etc complete in all respects. SK - 1: 36" x 20" single bowl and single drainer.	4	No.	4,850		19,400
01-05P8	Sink hot and cold water mixer, etc. for following. a. For SK-1		No.	22,000		
01-05P9	S.S Grease Trap 7.5 Kg. capacity, inlet/outlet 2" Dia connections.		No.	4,500		
01-05P10	Toilet accessories complete set, (imported make) i. Soap dispenser ii. Toilet paper holder iii. Coat Hook iv. Mirror 5mm (Belgium) v. Paper Rack	7 29 7 120 7	No. No. No. Sft No.	1,000 1,500 2,000 1,200 800		7,000 43,500 24,000 144,000 5,600
Page Total						485,100

[Signature]
Program Director
Sindh Basic Education Program
Government of Sindh



GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>Plumbing Water Supply</u>					
01-05P11	Providing, fixing, joining and testing Polypropylene Random (PPR) PN20 pressure pipe for water supply as per DIN 5077-8078 for pipes and DIN 16952 PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.					
	i) ½" internal dia (20 mm outer dia)	50	Rt.	155		7,750
	ii) ¾" internal dia (32 mm outer dia)	370	Rt.	200		74,000
	iii) 1" internal dia (40 mm outer dia)	550	Rt.	230		126,500
	iv) 1½" internal dia (50 mm outer dia)	155	Rt.	350		54,250
	v) 1½" internal dia (63 mm outer dia)	230	Rt.	450		103,500
	vi) 2" internal dia (75 mm outer dia)		Rt.	2,000		
	vii) 2½" internal dia (90 mm outer dia)		Rt.	3,000		
01-05P12	Providing and installing gate/ball valves, Kitz or approved equivalent make, including joining, fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters.					
	i) ½" internal dia (32 mm outer dia)	2	No	8,000		16,000
	ii) 1" internal dia (40 mm outer dia)	6	No	9,750		58,500
	iii) 1½" internal dia (50 mm outer dia)	4	No	13,450		53,800
	iv) 1½" internal dia (63 mm outer dia)	2	No	21,650		43,300
	v) 2" internal dia (75 mm outer dia)		No	90,000		
	vi) 2½" internal dia (90 mm outer dia)		No	125,000		
Page Total						537,600

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GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>Providing Sowerage</u>					
01-05P13	Providing, fixing, cutting, jointing and testing uPVC piping conforming to BS-4514 and BS 5255 including uPVC fittings with solvent cement jointing, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter:					
	2" dia	105	Rft.	228		23,940
	3" dia		Rft.	800		
	4" dia	440	Rft.	876		385,440
	6" dia	110	Rft.	1328		1,46,080
01-05P14	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.	49	No.	2,150		1,05,350
01-05P15	Construction of rectangular brick masonry manhole of following sizes for sewer complete with plastering from internal and external side, PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 16" dia manhole cover and frame, rungs, complete as per drawings.					
01-05P16	Providing and constructing gully trap of size 6" x 8" at locations shown on drawings with cover, complete in all respects.	13	No.	2,800		36,400
01-05P17	Providing and fixing Clean Out complete in all respects.	13	No.	14,450		187,850
	<u>Water Cooler</u>					
01-05P18	Providing and fixing drinking water cooler of capacity 60 gallons per hour including all accessories and making connections to water supply and drainage systems complete in all respects as per details in specifications.	4	No.	38,500		154,000
Page Total						1,039,080

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GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
EXTERNAL DEVELOPMENT						
Septic Tank						
01-05P19	Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with 'B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer	15	Rft.	1200		18,000
	6" id (150 mm)	5	Nos	500		2,500
	4" dia, pipe sleeves in walls	2	Nos	800		1,600
Soakage Pit						
01-05P20	Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with 'B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer	5	Rft.	1200		6,000
	6" id (150 mm)					
Ground Water Storage Tank						
01-05P21	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipe (Heavy Quality) of B.S.S. 1387-1367 complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer.	5	Rft.	450		2,250
	i) 3/4" dia	5	Rft.	1300		6,500
	ii) 1 1/2" dia	2	Nos	400		800
	iii) 2" dia, pipe sleeves, 8" long					
Overhead Water Storage Tank						
01-05P22A	Vent Pipe 4" dia as per drawing and specifications for U.G.W. Tank, O.H.W. Tank complete in all respects, puddle flange, specials as per drawing or directed by the Engineer.	4	Nos	2500		10,000
01-05P22B	Providing, laying, cutting, jointing, testing and disinfecting brass pipe sleeves/ connection pie with puddle including coupler (Heavy Quality) of approved as per B.S.S. code complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer.	2	Nos	1500		3,000
	i) 1 1/4" dia, pipe sleeves, 10" long	3	Nos	2000		6,000
	ii) 2 1/4" dia, pipe sleeves, 10" long					
Kanchan Arsenic Filter						
Filter Material						
01-05P23	Providing & laying gravel, including screening and washing as per drawing or directed by the Engineer.	21	Cft	38		798
	Gravel size 6 mm to 15 mm.					
01-05P24	Providing & laying coarse sand, including screening and washing as per drawing or directed by the Engineer.	42	Cft	45		1,890
01-05P25	Providing & laying fine sand, including screening and washing as per drawing or directed by the Engineer.	42	Sq.ft.	125		5,250
01-05P26	Providing & fixing M.S sheet 1/4" thick, 1/8" Dia hole 2 inch o/c (Diffuser Plate), as per drawing or directed by the Engineer.	37	Sq.ft.	108		3,996



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GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P27	Providing & laying Dry rammed brick ballast 1-1/2" to 2" (40mm to 50mm) gauge, including screening and washing as per drawing or directed by the Engineer.	9	CR.	55		495
01-05P28	Providing & laying iron nails with out coating (1" thick layer) as per drawing or directed by the Engineer.	125	Kg.	132		16,500
01-05P29	Providing & fixing cover over Kanchan Filter of PVC sheet 1/2" thick, as per drawing or directed by the Engineer.	32	Sq.ft.	550		17,600
01-05P30	Providing, laying, cutting, jointing, testing and disinfecting PPRC pipe including plastic shower heads with all fittings complete in all respects as per drawing or directed by the Engineer. (i) 1/2" internal dia (3/2 rmt outer dia)	23	RR.	490		11,270
01-05P31	Providing and fixing Plastic Shower Heads	9	Nos	1,750		15,750
<u>Tube Well / Pneumatic Pump</u>						
01-05P32	Boring for tubewell in all types of soil except shingle and rock, from ground level to 100 ft (30m) Depth, including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. (i) 8" id (200mm)	100	Rft.	3,200		320,000
01-05P33	Boring for tubewell in all types of soil except shingle and rock, from a depth of 100.1 to 200ft (30 to 60 m) below ground level, including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. (i) 8" id (200mm)	50	Rft.	3,500		175,000
01-05P34	Providing and installing P.V.C. ball/End plug B.S.S. class 'D' in tubewell bore hole, complete in all respect and as directed by the Engineer. (2" id (50mm)	1	Each	1,200		1,200
01-05P35	Providing and installing P.V.C. blind pipe B.S.S. Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer, etc, complete in all respect and as directed by the Engineer. (i) 1" id(25mm) (ii) 1-1/4" id(30mm) (iii) 2" id(50mm)	150	RR.	460		60,000
			RR.	400		
			RR.	425		
01-05P36	Providing and installing P.V.C. strainer B.S.S. Class 'D' in tubewell bore hole, including sockets and solvents, etc, complete in all respect and as directed by the Engineer (2" id(50mm)	40	Rft.	425		17,000
01-05P38	Providing and installing P.V.C. blind pipe B.S.S. Class 'D' in tubewell bore hole, including sockets and solvents, and jointing with strainer, complete in all respect and as directed by the Engineer. (1.4" id (100mm)	60	Rft.	525		31,500



GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P37	Testing and developing of bore hole, complete in all respect and as directed by the Engineer.	3	Per Hr.	20000		60,000
01-05P38	Shrouding with graded pea gravel 3/8" to 1/8" around tubewell in bore hole, complete in all respect and as directed by the Engineer.	45	Cft.	1000		45,000
01-05P39	Providing/fixing injector valve as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	Each	85,250		85,250
01-05P40	Providing/fixing P.V.C. Cup/Cover as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	No.	300		300
01-05P41	Providing/fixing Pneumatic Pump (having 4 impellers capable to carry a discharge of 400 gals/hr against 90 ft head and 3 HP Motor), complete in all respect and as directed by the Engineer. <u>EXTERNAL PIPING</u> <u>Plumbing Water Supply.</u>	1	Set.	150,000		150,000
01-05P42	Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for water supply as per DIN 8077-8078 for pipes and DIN 16962, PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bands, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.					
	i) 3/4" internal dia (20 mm outer dia)		Rft.	220		
	ii) 1" internal dia (32 mm outer dia)	30	Rft.	308		9,240
	iii) 1 1/4" internal dia (40 mm outer dia)	150	Rft.	230		34,500
	iv) 1 1/2" internal dia (50 mm outer dia)	130	Rft.	350		45,500
	v) 1 3/4" internal dia (63 mm outer dia)	13	Rft.	450		5,850
	vi) 2" internal dia (75 mm outer dia)		Rft.	2,000		
	vii) 2 1/2" internal dia (90 mm outer dia)		Rft.	3,000		
01-05P43	Providing and installing gateball valves, Kitz or approved equivalent make, including jointing, fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters.					
	i) 3/4" internal dia (32 mm outer dia)	2	No.	5000		10,000
	ii) 1" internal dia (43 mm outer dia)	1	No.	9,750		9,750
	iii) 1 1/4" internal dia (50 mm outer dia)	1	No.	12,000		12,000

GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
<u>Plumbing Sewerage</u>						
01-05P44	Providing, fixing, cutting, jointing and testing uPVC piping conforming to BS-4514 and BS 5255 including uPVC fittings with solvent cement jointing, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter:					
	2" dia		Rft.	500		
	3" dia		Rft.	800		
	4" dia	32	Rft.	876		28,032
	6" dia	430	Rft.	1090		468700
01-05P45	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.		No.	26,000		
01-05P46	Construction of rectangular brick masonry manhole of 2'x2' for sewer complete with plastering from internal and external side, PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, rings, complete as per drawings.		No.	15,000		
01-05P47	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.		No.	14,300		
01-05P48	Providing and fixing Clean Out complete in all respects		No.	14,300		
<u>Water Supply Pump For GST</u>						
01-06P46	Supply at site, installation, testing and commissioning of water supply reciprocating pump with 2HP motor as per specification complete in all respect.	2	No.	50,000		100,000
				Page Total		185802/-
				G- Total c/o to summary		3919781/-

Program Director
Sindh Basic Education Program
Government of Sindh




GBSS YOUSAF GOTH
(P05-KHI40)




SINDH BASIC EDUCATION PROGRAM
CONSTRUCTION OF NEW SCHOOLS AND UPGRADATION OF EXISTING SCHOOLS
Package- 05: Karachi, City
GBSS YOUSUF GOTH, GADAP TOWN
SUMMARY OF TENDERED COST

CODE	DESCRIPTION	AMOUNT IN PAK.RUPEES
A.	GENERAL ITEMS	1,532,975/-
B.	CIVIL WORKS	40,443,899/-
C.	EXTERNAL WORKS	2,088,987/-
D.	ELECTRICAL WORKS	4,578,599/-
E.	PLUMBING WORKS	2,951,732/-
F.	DAYWORK COST	4,956,100/-
Sub-Total		65,345,289/-

41,001,724/-
 9,672,687/-
 4,578,592/-
 3,420,431/-
 60,206,409/-


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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
<u>Temporary Facilities (Optional Items)</u>						
01- 01 G 1	Ref Spec. No. G05 Providing and maintaining a rental building of area 1,500 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, water supply and sanitation complete in all respect as directed by the Engineer.		Rate only	Month	2,000	
	OR					
01- 01 G 2	Providing and maintaining a tent school of area 1,500 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, water supply and sanitation complete in all respect as directed by the Engineer.		Rate only	Month	2,500	
	OR					
01- 01 G 3	Providing and maintaining porta cabins for school of area 1,500 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, airconditioning, water supply and sanitation complete in all respect as directed by the Engineer.		Rate only	Month	1,500	
	OR					
01- 01 G 4	Shifting of furnitures and equipments and reinstall site from existing school to rental building and reinstall as per specification and directed by the engineer.		Rate only	L.S.	2,500	
01- 01 G 5	Repair & renovation of existing Governmet building proposed for temporary school during the construction. (The payable amount shall be assessed as per actual rehabilitation work on selected building and as per recommendation by the Engineer on BOQ rates of similar items quoted in the bid).		P.S.	P.S.		500,000
Sub- Total (Rs.)						500,000
<u>Site Clearing and Grubbing</u>						
01- 01 G 6	Ref Spec. No. C01 Clearing and Grubbing complete in all respect as directed by the Engineer.	26,515	Sft	5		132,575/-
<u>DISMANTLING WORK</u>						
01- 01 G 7	Ref Spec. No. G04 Dismantling, removing of existing building structure and foundations including disposal of debris materials to designated places/location as directed by the Engineer. All the dismantled materials shall be contractor's property and rate/price of dismantling work should include compensation of such items obtained by the Contractor from existing building.	8,745	Sft	20		174,900/-
01- 01 G 8	Dismantling, removing of existing sewerage lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.	20		1,000/-
01- 01 G 9	Dismantling, removing of existing water supply lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.	20		1,000/-
01- 01 G 10	Dismantling, removing of existing electrical supply line as directed by the Engineer.	150	Rft.	100		15,000/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
01-01-G-11	Dismantling of existing boundary wall as shown in the drawing including disposal of surplus material and as directed by the Engineer. Dismantled material shall be contractor's property.	25	Rft	100		2,500/-
01-01-G-12	Dismantling of existing walkways/platform/water tank ramp etc and flooring as shown in the drawing/ as per site including disposal of surplus material and as directed by the Engineer. Dismantled material shall be contractor's property.	1,200	Sft	30		36,000/-
<u>POWER SUPPLY & TELECOMMUNICATION</u>						
01-01-G-13	Providing, installing, testing and commissioning of electrical supply line for re-routing as per new plan including cables, all fixtures, connections and all related civil works as directed by the Engineer.	1	Job	200,000		200,000/-
01-01-G-14	Providing, installing, testing and commissioning of telephone line for re-routing as per new plan including cables, all fixtures, connections and all related civil works as directed by the Engineer.	1	Job	20,000		20,000/-
<u>SIGN BOARD / PLAQUE</u> Ref.Spec. No. SP 100						
01-01-G-15	Providing and installation of Project sign board as per drawing complete including all civil related works, foundations, earthwork concrete, protection works complete as directed by the Engineer.	1	Job	20,000		20,000/-
01-01-G-16	Providing, construction and installation of Inauguration Plaque as per drawing complete including all civil related works, foundations, earthwork concrete, protection works etc complete as directed by the Engineer.	1	Job	50,000		50,000/-
02-01-G-17	Providing and maintenance of the Engineer's facilities at individual school site as per clause 44, Section-100 (SP), Volume-III (A), Specifications-Special Provisions. All items/ materials/ equipment shall become contractor's property at the completion of works.	12	Month	30,000		360,000/-
<u>WATER TESTING</u> Ref.Spec. No						
01-01-G-18	Sampling and testing of Water from bore of well (TDS) including submission of report as per specification.	1	Each	20,000		20,000/-
Total General Items (Rs.)						1,032,995/-
Sub- Total C/o to Summary General Items Pak Rs.						1,532,995/-

(Signature)
Director
Sindh Basic Education Program
Government of Sindh



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs.)
				Figures	Words	
CONSTRUCTION OF SCHOOL BUILDING						
SUB-STRUCTURE						
EARTHWORKS						
Ref. Spec. No. C02						
01- 02 C 1	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places. a) 0 ft to 5 ft b) More than 5 ft upto 10 ft.	16477 5437	Cft. Cft.	15 15		277,155/- 81,555/-
01- 02 C 2	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material source to be approved by the Engineer) upto free haulage limit.	5979 54174	Cft. Cft.	10 28		59,790/- 1,516,872/-
01- 02 C 2A	Engineered fill layer not exceeding 6" thick with ASSHTO A-1-a type material & soiling with compaction should be 98% MDD, (Maximum Dry density) selected materials including watering and compaction to every layer as per specification and drawings. a) Stone soiling 12" compacted layer. b) Fill layer not exceeding 6" thick with ASSHTO A-1-a type material.		Rate only Rate only	Cft. Cft.	1200 1500	
01- 02 C 2B	Plate load test as per specifications, including in all respect work complete performe and test reports with any number of tests as required by the engineer.		Rate only	L.S.	500000	
DEWATERING						
Ref. Spec. No. G03						
01- 02 C 3	Designing, providing and installation of complete dewatering system including boring, strainer, filter and other all materials, pumping and disposal of water upto Engineer's satisfaction and to keep the construction surface dry all the time. a) Completion of installation works at site, up 100% running/ working position. b) Dewatering, days not allow more then/ maximum payable	1 15	L.S. Day	120000 10000		120000/- 150000/-
TERMITE CONTROL TREATMENT						
Ref. Spec. No. C03						
01- 02 C 4	Termite control treatment to surfaces following structures complete in all respect as per specification. (Only plan area will be measured)	3000	Sq.ft.	32		256000/-
REINFORCEMENT						
Ref. Spec. No. C04						
01- 02 C 5	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 80,000 psi	22	ton.	110000		2420000/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 6	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi. <u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u> Ref.Spec. No. C04	Rate only	ton	135,000		
01- 02 C 7	Blinding concrete 1250 psi using slag cement conforming to BS-146.	1833	Cft.	160		293,280/-
01- 02 C 8	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Isolated foundations b) Columns upto plinth c) Plinth beams d) SOG & Ramps Slabs e) Walls <u>SITU CONCRETE 1:3:6</u> Ref.Spec. No. C04	5038 832 1931 95 35	Cft. Cft. Cft. Cft. Cft.	256 256 256 256 256		1,289,780/- 212,784/- 494,356/- 24,329/- 9,450/-
07- 02 C 9	Situ concrete 1:3:6, with formwork under the plinth beam thickness as per drawings, using slag cement conforming to BS-146, straight or curve at any level including all anchors required to be built in Rec columns pedestals, complete in all respect as per drawings and specifications. <u>BRICK MASONRY</u> Ref.Spec. No. C05	703	Cft.	235		165,205/-
07- 02 C 9 A	Solid brick masonry under the plinth beam of one and half brick thickness, set in 1:4 using slag cement conforming to BS-146 & sand mortar, straight or curve at any level including all anchors required to be built in brick masonry, complete in all respect as per drawings and specifications. <u>HARDCORE/ STONE SOLING</u> Ref.Spec. No. C07	Rate only	Cft.	800		
01- 02 C 10	8" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings. <u>P.C.C UNDER FLOORING</u> Ref.Spec. No. C07	6,966	Sq.ft.	40		358,640/-
01- 02 C 11	PCC 4" thick plain cement concrete (using slag cement conforming to BS-146) sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer <u>PLINTH PROTECTION</u> Ref.Spec. No. C04 & C07	7,001	Sq.ft.	185		1,295,185/-
01- 02 C 12	Blinding concrete 1250 psi using slag cement conforming to BS-146 <u>PROTECTION WORKS</u> Ref.Spec. No. C16	654	Cft.	210		137,340/-
01- 02 C 13	Vapor barrier sheet, under the floor as per drawings and specifications.	5,504	Sq.ft.	40		220,160/-



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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 14	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	13,602	Sq ft.	30		405,060/-
SUPER-STRUCTURE WORKS						
Ground Floor (From Plinth level to 1st Slab)						
REINFORCEMENT						
01- 02 C 15	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	27	ton.	110,000		2,970,000/-
01- 02 C 16	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate Only	ton.	135,000		
PLAIN AND REINFORCED CONCRETE AND FORMWORKS						
01- 02 C 17	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification:					
	a) Columns	1,179	Cft.	256		301,824/-
	b) Beams & lintels	1,858	Cft.	256		475,648/-
	c) Slab & projections	4,406	Cft.	256		1,127,936/-
	d) Stair cases	373	Cft.	256		95,488/-
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts:	157	Cft.	550		86,350/-
	f) Parapet wall for stair cases	83	Cft.	300		24,900/-
First Floor (From 1st Slab to 2nd slab)						
REINFORCEMENT						
01- 02 C 18	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	26	ton.	110,000		2,860,000/-
01- 02 C 19	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate Only	ton.	135,000		
PLAIN AND REINFORCED CONCRETE AND FORMWORKS						
01- 02 C 20	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification:					
	a) Columns	1,275	Cft.	256		326,400/-
	b) Beams & lintels	1,775	Cft.	256		454,400/-
	c) Slab & projections	4,431	Cft.	256		1,134,336/-
	d) Stair cases	175	Cft.	350		61,250/-
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts:	138	Cft.	550		76,450/-
	f) Parapet wall for stair cases	32	Cft.	350		11,200/-



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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
Second Floor / Roof (From 2nd slab to 3rd slab & lower)						
REINFORCEMENT						
Ref.Spec. No. C04						
01- 02 C 21	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	4	ton.	110,000		440,000/-
01- 02 C 22	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate only	ton.	135,000		
PLAIN AND REINFORCED CONCRETE AND FORMWORKS						
Ref.Spec. No. C04						
01- 02 C 23	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures components complete in all respect as per drawings and specification:					
	a) Columns	133	Cft	350		46,550/-
	b) Beams & lintels	169	Cft	350		59,150/-
	c) Slab & projections	358	Cft	220		78,760/-
	d) Parapet Wall/ Purdi	501	Cft	280		140,280/-
	e) Precast coping for parapet wall at roof and erecting/fixing including shuttering and all accessories and/or embedded parts.	685	Rt	20.50		14,042.50/-
	g) Over head water tank, column, walls & slab	300	Cft	10.00		3,000.00/-
	f) Others Misc Str	20	Cft	0.00		0.00/-
FINISHING WORKS						
For Ground floor						
BLOCK MASONRY						
Ref.Spec. No.C18						
01- 02 C 24	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 4" thick	1,179	Cft	310		365,490/-
	b) 6" thick	248	Cft	250		62,000/-
	c) 8" thick	5,585	Cft	130		726,050/-
	d) 4" thick, external cavity, wall with all accessories arrangements for stone tie facing or Color Crete finishing including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	1,296	Cft	400		518,400/-
BRICK MASONRY						
Ref.Spec. No. C05						
01- 02 C 24 A	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.					
	a) 4-1/2" thick	Rate only	Cft	650		
	b) 6" thick	Rate only	Cft	500		
	c) 13-1/2" thick	Rate only	Cft	500		



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	DOORS FRAMES Ref.Spec. No. C09 & C11					
01- 02 C 28	G.I frame 16swg redoxidized inner & outer side and polish paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and param detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	561	R.ft.	322		180,642/-
	CEMENT PLASTER Ref.Spec. No. C08					
01- 02 C 28	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	325	Sq.ft.	80		26,000/-
01- 02 C 28	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	6,688	Sq.ft.	40		267,520/-
01- 02 C 29	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	17,540	Sq.ft.	40		701,600/-
	ALUMINIUM WORKS Ref.Spec. No. C11					
01- 02 C 30	Supply and fix in position as specified anodized aluminum openable windows and ventilators of 2"x4" section, approved manufacturer having minimum wall thickness not less than 1.6 mm with netted shutter and 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	1,313	Sq.ft.	600		787,800/-
01- 02 C 31	Supply and fix in position as specified anodized aluminum doors with fixed panel both side and top of approved 2"x4" section, manufacturer having minimum wall thickness not less than 1.6 mm with 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	116	Sq.ft.	850		98,600/-
	STRUCTURAL STEEL Ref. Sec.No. C13					
01- 02 C 32	Mid steel grills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings and specification.	1,815	Kg.	150		272,250/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Rs.	Words	
01- 02 C 33	Providing and fixing railing for stairs/ramps as per drawing and specifications complete in all respect. a) MS railing stairs b) M.S railing at entrance	54	Rft	950		51,300/-
		70	Rft	1100		77,000/-
01- 02 C 34	Providing and fixing MS pipe railing for courtyard with paintings, as per drawing and specifications complete in all respect and approved by the Engineer.	50	Rft	750		37,500/-
01- 02 C 35	Providing and fixing MS folding gate (Emergency Exit) with paintings, complete in all respects as per drawing and specifications.	1	No	80,000		80,000/-
01- 02 C 35 A	Providing and fixing MS folding Main entrance gate with paintings, complete in all respects as per drawing and specifications.	1	No	110,000		110,000/-
<u>FLOOR AND WALL FINISHES</u>						
Ref.Spec. No. C07						
01- 02 C 36	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	6,329	Sq.ft.	175		1,107,575/-
01- 02 C 37	Providing and laying terrazzo tile for entrance ramp (3/4" thick) with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	100	Sq.ft.	250		25,000/-
01- 02 C 38	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	409	Sq.ft.	65		26,585/-
01- 02 C 39	Porcelain tile floor (type) using tile of size 8"x8" (full body), approved quality, colour and shade laid in approved pattern set in specified mortar including cement concrete base, complete in all respect as shown on the drawings and specifications.	729	Sq.ft.	130		94,770/-
01- 02 C 40	Porcelain tile in Dado using tile of size 6"x8", quality, colour and shade laid in approved pattern including rough plaster base complete in all respect as shown on drawings and specifications.	3,336	Sq.ft.	130		433,680/-
<u>MARBLE WORKS</u>						
Ref.Spec. No. C07 & C08						
01- 02 C 41	Pre-polished marble on entrance steps, stairs, ramp & floor etc using approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings. a) Entrance Steps & Platform (3/4" thick) b) Entrance Steps Risers (1/2" thick)	325	Sq.ft.	750		243,750/-
		60	Sq.ft.	700		42,000/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 42	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bul nosing/ chamfering of edges complete in all respect as shown on the drawings.	382	Sq. ft.	750		286,500/-
01- 02 C 43	Pre-polished marble tile noser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	106	Sq. ft.	750		79,500/-
01- 02 C 44	Pre-polished marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish including complete in all respect as shown on the drawings.	53	Sq. ft.	750		39,750/-
01- 02 C 45	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	40	Sq. ft.	750		30,000/-
PAINTING						
Ref. Spec. No. C10						
01- 02 C 46	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	6,888	Sq. ft.	28		187,224/-
01- 02 C 47	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	17,540	Sq. ft.	40		701,600/-
01- 02 C 48	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	325	Sq. ft.	45		14,625/-
WOODEN DOORS						
Ref. Spec. No. C00						
01- 02 C 49	Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partial wood frame and infill, polish, color lacker, beading/ Architrave, with all hardware (Locks, door closer, door stopper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	530	Sq. ft.	800		424,000/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
21- 02 C 50	Fixed 6mm plain laminated glass panel part at above door panel with solid wood batten including leak polish/ lacker at both sides around the glass of approved type, quality complete in all respect as shown on the drawings and specifications.	110	Sq. ft.	1200		132,000/-
	FALSE CEILING Ref. Spec. No. C14					
01- 02 C 51	1/2" thick gypsum board ceiling including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on the drawings and specifications.	729	Sq. ft.	187		136,323/-
	Pre-cast C.C. Patren jali Ref. Spec. No. C16, C5					
01- 02 C 52	C.C. Patren jali as per approved designed and specification	600	Sq. ft.	120		72,000/-
	CLADDING/ EXTERNAL FACING Ref. Spec. No. C19 & C20					
01- 02 C 53	Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using mortar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc. complete in all respect, as per drawings, specifications and as directed by the Engineer.	3,893	Sq. ft.	100		389,300/-
01- 02 C 53 A	Providing and laying Color-Crete with 3/4" Cement sand plaster on external facing as per approved sample type size mentioned in drawings and specifications with expanded materials at joints, arrangements / accessories, anchorages, angle irons and metal fusing etc. at any height and level using mortar 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	4,496		50		224,800/-
	Ref. Spec. No. C05					
01- 02 C 53 B	Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc. at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.		Rate only Sq. ft.	200		

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	FINISHING WORKS					
	For First floor					
	BLOCK MASONRY					
	Ref. Spec. No. C18					
01- 02 C 54	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 4" thick	458	Cft.	320		148,760/-
	b) 5" thick	320	Cft.	250		80,000/-
	c) 8" thick	4,291	Cft.	130		557,830/-
	d) 4" thick, external cavity, wall with all accessories arrangements for stone tile facing or Color Crete finishing including cavity arrangements / accessories, anchorages, angle irons and metal fixing & PVC pipe as weep hole etc at any height and level.	1,702	Cft.	400		680,800/-
	BRICK MASONRY					
	Ref. Spec. No. C05					
01- 02 C 54 A	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.					
	a) 4-1/2" thick	Rate only	Cft.	620		
	b) 9" thick	Rate only	Cft.	520		
	c) 13-1/2" thick	Rate only	Cft.	420		
	DOORS FRAMES					
	Ref. Spec. No. C09 & C11					
01- 02 C 54	G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	516	R.ft.	320		159,960/-
	CEMENT PLASTER					
	Ref. Spec. No. C 06					
01- 02 C 56	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers including complete in all respect as shown on the drawings.	175	Sq.ft.	80		14,000/-
01- 02 C 57	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	8,573	Sq.ft.	40		262,920/-
01- 02 C 57 A	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	13,678	Sq.ft.	40		547,120/-



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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	ALUMINIUM WORKS Ref. Spec. No. C-11					
01-02-C-58	Supply and fix in position as specified anodized aluminum operable windows and ventilators of 2'x4" section, approved manufacturer having minimum wall thickness not less than 1.6 mm with netted shutter and 6mm plain laminated glazing of approved brand and Standard and all imported ironmongery & fittings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	1,377	Sq.ft.	600		826,200/-
	STRUCTURAL STEEL Ref. Sec.No. C-13					
01-02-C-59	Mild steel grills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings.	1,721	Kg	150		258,150/-
01-02-C-60	Providing and fixing MS stair railing as per drawing and specifications complete in all respect.	30	Rft	950		28,500/-
01-02-C-61	Providing and fixing MS pipe railing for courtyard with paintings, as per drawing and specifications complete in all respect and approved by the engineers.		Rate Only	Rft	1100	
	FLOOR AND WALL FINISHES Ref. Spec. No. C-07, 08					
01-02-C-62	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	0,945	Sq.ft.	175		1,215,375/-
01-02-C-63	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	310	Sq.ft.	65		20,670/-
01-02-C-64	Porcelain tile floor (type) using tile of size 8"x8" (full body), approved quality, colour and shade laid in approved pattern set in specified mortar including cement concrete base, complete in all respect as shown on the drawings.	500	Sq.ft.	130		65,000/-
01-02-C-65	Porcelain tile in Dado using tile of size 8"x8", quality, colour and shade laid in approved pattern including rough plaster base complete in all respect.	2,126	Sq.ft.	130		276,380/-
	MARBLE WORKS Ref. Spec. No. C-07, 08					
01-02-C-66	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	176	Sq.ft.	750		132,000/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 67	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	50	Sq ft.	750		37,500/-
01- 02 C 68	Pre-polished marble tile for counter tops & other area 3/4" thick using of approved quality, colour & shade laid in approved pattern-set in 1:2 cement sand mortar base including complete in all respect as shown on the drawings.	50	Sq ft.	750		37,500/-
01- 02 C 69	Pre-polished Marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	34	Sq ft.	750		25,500/-
01- 02 C 70	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	52	Sq ft.	750		39,000/-
<u>PAINTING</u>						
Ref Spec. No. C 10						
01- 02 C 71	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filing, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	6,573	Sq ft.	28		184,044/-
01- 02 C 72	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filing, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	13,678	Sq ft.	40		547,120/-
<u>WOODEN DOORS</u>						
Ref Spec. No. C 09. 12						
01- 02 C 73	Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partial wood frame and infill, polish, color/ lacker, beading/ Architrave, with all hardware (Locks, door closer, door stopper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	560	Sq ft.	800		448,000/-
01- 02 C 74	Fixed 6mm plain laminated glass panel part at above door panel with solid wood batten including teak polish/ lacker at both sides around the glass of approved type, quality complete in all respect as shown on the drawings and specifications.	124	Sq ft.	1200		148,800/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	FALSE CEILING					
01- 02 C 76	Ref. Spec. No. C14 12mm thick gypsum board ceiling including all G.I. fitting, accessories, wire and suspension system complete in all respect as shown on the drawings and specifications.	500	Sq.ft.	185		92,500/-
	Pre cast C.C Patren jali					
01- 02 C 76	Ref. Spec. No. C16, C5 C C Patren jali as per approved designed and specification	680	Sq.ft.	120		81,600/-
	STONE CLADDING/ COLOR-CRETE/ EXTERNAL FACING					
	Ref. Spec. No. C19 & C20					
01- 02 C 77	Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using mortar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	5,111	Sq.ft.	100		511,100/-
01- 02 C 77 A	Providing and laying Color-Crete with 3/4" Cement sand plaster on external facing as per approved sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using mortar 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	4,846	Sq.ft.	50		242,400/-
01- 02 C 77 B	Ref. Spec. No. C05 Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq.ft.	800		
	WATER PROOFING AND BUILTUP ROOFING					
	Ref. Spec. No. C 16					
01- 02 C 78	Water proofing and built up roofing over roof slab comprising all the layers and coatings etc as shown in the drawings and specifications.	7,500	Sq.ft.	185		1,377,500/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	FINISHING WORKS For Roof floor / Second floor					
	BLOCK MASONRY Ref. Spec. No. C18					
01-02 C 78	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 4" thick	30	Cft.	310		9300/-
	b) 5" thick	50	Cft.	250		12,500/-
	c) 8" thick	500	Cft.	240		120,000/-
	d) 4" thick, external cavity wall with all accessories, arrangements for stone tile facing or Color Crete finishing including cavity arrangements / accessories, anchorages, angle irons and metal fixing & PVC pipe as weep hole etc at any height and level.	788	Cft.	400		315,600/-
	BRICK MASONRY Ref. Spec. No. C05					
01-02 C 79A	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.					
	a) 4-1/2" thick	Rate only	Cft.	610		
	b) 8" thick	Rate only	Cft.	510		
	c) 13-1/2" thick	Rate only	Cft.	410		
	DOORS FRAMES Ref. Spec. No. C09 & C11					
01-02 C 80	G.I frame 16swg redoxided inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and pattern detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	35	R.ft.	300		10,500/-
	CEMENT PLASTER Ref. Spec. No. C 06					
01-02 C 81	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth troweled at any height with all scaffoldings (wall, beams, projection, parapet or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and as per elevation complete in all respect as shown on the drawings.	2,504	Sq.ft.	50		125,200/-
01-02 C 82	1/2" thick, 1:4 cement sand smooth troweled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	388	Sq.ft.	40		15,520/-
01-02 C 83	1/2" thick, 1:4 cement sand smooth troweled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	902	Sq.ft.	40		36,080/-



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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 84	3/4" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls to C.H.W Tank etc with making of chamfer corner in plaster as per drawings and specifications.	380	Sq.ft.	80		28,800/-
01- 02 C 85	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating.	230	Sq.ft.	40		9,200/-
01- 02 C 86	Water proofing coating treatment to all horizontal surfaces in contact with water shall be treated with 1 coat of crystalline water proofing coating.	130	Sq.ft.	40		5,200/-
01- 02 C 88	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivalent, including fixing of frame and embedded parts in concrete and painting, complete in all respect as per specification and as directed by the Engineer.	2	No.	18,000		36,000/-
01- 02 C 86 A	Supply and fitting of malleable iron rings, etc. complete in all respects, as per drawing and directed by the Engineer. (For C.H.W tank)	4	No.	500		2,000/-
FLOOR AND WALL FINISHES						
Ref.Spec. No. C 07, 06						
01- 02 C 87	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	180	Sq.ft.	175		31,500/-
01- 02 C 88	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	16	Sq.ft.	65		1,040/-
MARBLE WORKS						
Ref.Spec. No. C 07, 06						
01- 02 C 89	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc. colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	6	Sq.ft.	750		4,500/-
PAINTING						
Ref.Spec. No. C 10						
01- 02 C 90	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	388	Sq.ft.	28		10,864/-
01- 02 C 91	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	902	Sq.ft.	40		36,080/-



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Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 92	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	2,504	Sq. ft.	45		112,680/-
WOODEN DOORS						
01- 02 C 93	Ref. Spec. No. C 09, C12 Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partial wood frame and infill, polish, color/ lacker, beading/ Architrave, with all hardware (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	49	Sq. ft.	1,100		53,900/-
Pre cast C.C Patren jali and Railing						
01- 02 C 94	Ref. Spec. No. C18, C5 & C21 C.C Patren jali as per approved designed and specification	100	Sq. ft.	120		12,000/-
01- 02 C 95	Precast water spout as per approved designed and specification	15	No.	500		7,500/-
CLADDING/ EXTERNAL FACING						
01- 02 C 96	Ref. Spec. No. C19 & C20 Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using mortar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	2,368	Sq. ft.	100		236,800/-
	Providing and laying Color-Crete with 3/4" Cement sand plaster on external facing as per approved sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using mortar 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	530	Sq. ft.	50		26,500/-
01- 02 C 98	Ref. Spec. No. C05 Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq. ft.	800		
Total C/o to Summary for CIVIL WORKS Pak Rs.						494,438.99/-



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41001.724/-

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
EXTERNAL DEVELOPEMENT						
CONSTRUCTION OF BOUNDARY WALL						
Ref.Spec. No. C02						
EARTHWORKS						
Ref.Spec. No.						
01- 03 D 1	Excavation in all kinds of sub-surface materials, timbering upto following depths including disposal of surplus / rejected excavated materials to designated places.					
	a) 0 ft to 5 ft	2,347	Cft.	18		42,246/-
01- 03 D 2	Fill and backfill with selected materials including watering and compaction to every layer as per specification.					
	a) From suitable excavated material (from stockpile of excavated materials)	1,174	Cft.	10		11,740/-
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	6,772	Cft.	30		203,160/-
01- 03 D3	Area Fill with selected materials from outside source including watering and compaction to every layer as per specification for Play ground.	5,000	Cft.	30		150,000/-
DEWATERING						
Ref.Spec. No. G03						
01- 03 D4	Designing, providing and installation of complete dewatering system including boring, strainer, filter and other all materials, pumping and disposal of water upto Engineer's satisfaction and to keep the construction surface dry all the time.					
	a) Completion of installation works at site, up 100% running/ working position.	Rate only	L.S.	200,000		0.0
	b) Dewatering	Rate only	Day	20,000		4,00,000 0.0
TERMITE CONTROL TREATMENT						
Ref.Spec. No. C03						
01- 03 D5	Termite control treatment to surfaces following structures complete in all respect as per specification (Only plan area will be measured)	1,864	Sq.ft.	32		59,648/-
REINFORCEMENT						
Ref.Spec. No. C04						
01- 03 D6	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 90,000 psi.	4.94	ton.	110,000		543,400/-
PLAIN AND REINFORCED CONCRETE						
Ref.Spec. No. C04						
01- 03 D7	Blinding concrete 1250 psi using slag cement conforming to BS-146	391	Cft.	210		82,110/-
01- 03 D7A	Situ concrete 1:3:6, with formwork under the plinth beam thickness as per drawings, using slag cement conforming to BS-146; straight or curve at any level including all anchors required to be built in Rcc columns pedestals, complete in all respect as per drawings and specifications.	338	Cft.	256		86,528/-



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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D8	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Footings b) Columns upto plinth c) Plinth beams:	665 145 405	Cft. Cft. Cft.	2950 2250 2550		166,250/- 37,125/- 1,03,680/-
01- 03 D9	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification: a) Columns <u>BLOCK MASONRY</u> Ref.Spec. No. C1E	301	Cft.	280		84,280/-
01- 03 D10	Cement concrete solid block masonry, Envirocrete or approved equivalent masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/RCC structures for masonry, complete in all respect as per drawings and specifications. a) 8" thick / 4" thick <u>BRICK MASONRY</u> Ref.Spec. No. C05	1,890	Cft.	130		245,700/-
01- 03 D10 A	Solid brick masonry wall 9" thick with using slag cement conforming to BS-146 set in 1:4 cement sand mortar, straight or curve below plinth beam, planters including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per Drawings and Specifications a) 9" thick	Rate only	Cft.	4,500		
01- 03 D10 B	Solid brick masonry wall with pointing on both faces above plinth beam 9" thick set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties, and other fixtures required to be built in brick masonry, complete in all respect as per Drawings and specifications. a) 4 1/2" thick <u>CEMENT PLASTER</u> Ref.Spec. No. C06	Rate only	Cft.	4,800		
01- 03 D11	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces (Columns, wall, beams and project etc.) including making grooves as per design and elevation complete in all respect as shown on the drawings. <u>PROTECTION WORKS</u> Ref.Spec. No. C16	2,221	Sq.ft.	45		99,945/-
01- 03 D12	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	2,838	Sq.ft.	35		99,330/-



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D13	<u>COPING</u> Ref. Spec. No. C04 Providing and fixing 3" thick coping including plaster using OP cement for boundary wall complete as shown on the drawings.	363	Rt	190		68,970/-
01- 03 D14	<u>STRUCTURAL STEEL</u> Ref. Sec.No. C13 Mild steel main gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 14'x7')	1	no	275,000		275,000/-
01- 03 D15	Mild steel wicket gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 3'x7')	1	no	120,000		120,000/-
01- 03 D-15A	<u>CLADDING/ EXTERNAL FACING</u> Ref. Spec. No. C18 & C20 Providing and laying stone cladding/ stone-tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using molar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	6171	Sq. Ft.	100		617,100/-
01- 03 D-16	<u>LANDSCAPING</u> Ref. Sec No. C17 Fill and backfill with selected materials including watering and compaction to every layer as per specification.	686	Cft.	45		26,370/-
01- 03 D17	Area fill with selected materials including watering and compaction to every layer as per specification.	9,000	Cft.	35		315,000/-
01- 03 D18	Relocation and replanting of removed trees as per specifications and as directed by the Engineer.	32	No.	1,000		32,000/-
01- 03 D19	Development of lawn (grass) including fertilizer mixed with earth including spreading and watering etc. and cutting etc. till guarantee period (12 months) complete in all respect as shown on the drawings and as per specifications.	5,500	Sq. ft.	80		440,000/-
01- 03 D20	12" thick approved selected sweet earth including spreading, levelling, dressing and watering etc. complete in all respect as per specifications and as directed by the Engineer.	5,500	Cft.	40		220,000/-



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D21	Trees/ plants of the following types and size/ height including excavation, backfilling, manure/ fertilizer, supports and water etc. complete in all respect as shown on the drawings, specifications and as directed by the Engineer. a) Neem tree (3 to 4 feet) b) Babul tree (3 to 4 feet) c) Golmohar (3 to 4 feet) d) Champa (2 to 3 feet) e) Grape Jasmine (2 to 3 feet) f) Cement Concrete planters.	12 5 10 22 22 170	No. No. No. No. No. Rt.	1500 1000 1200 1000 1000 900		18,000/- 5,000/- 12,000/- 22,000/- 22,000/- 153,000/-
	<u>Footpath Walkway (Precast Paving Blocks / Tiles)</u> Ref. Sec No.C21					
01- 03 D22	4" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	4,600	Sq.ft.	55		253,000/-
01- 03 D23	Precast cement concrete paving blocks envicrete or approved equivalent of size 8" x 4" x 2.5" laid in approved pattern including 2" thick sand cushion.	4,600	Sq.ft.	170		782,000/-
01- 03 D24	PCC concrete kern envicrete or approved equivalent including lean, haunching concrete etc complete as per drawing and specifications with earth cutting/ filling, levelling, dressing etc complete in all respect as per specifications and as directed by the Engineer.	1,000	Rt.	330		330,000/-
01- 03 D24A	Plain cement concrete panel flooring including 1/2" Groove @ 8" c/c, joints etc complete as shown in the drawings.	315	Sq.ft.	85		26,775/-
	<u>EXTERNAL SEWER & MANHOLES</u>					
01- 03 D25	Construction of manholes with material including, excavation, base top RCC slab, GI steps, CC benching, water proof internal plaster, external bitumen coating etc inlet/out connections etc. i. 24" x 24" SIZE ii. 36" x 36" SIZE	8 2	Nos. Nos.	20,000 25,000		160,000/- 50,000/-
01- 03 D26	Supply and fix water tight (Square Type) Malleable Iron Manhole cover with frame of CME or Equivalent, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	10	No.	12,000		120,000/-
	<u>Septic Tank</u>					
01- 03 D27	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer, a) 0 to 5 ft b) More than 5 ft upto 10 ft	830 430	Cft. Cft.	28 28		23,240/- 12,140/-
01- 03 D28	Binding concrete 1250 psi using slag cement conforming to BS-145	55	Cft.	210		11,550/-



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D29	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of Crystalline water proofing coating.	480	Sq ft.	32		15,680/-
01- 03 D30	Water proofing coating treatment to all surfaces in contact with water shall be treated with 1 coat of Crystalline water proofing coating on horizontal surface.	140	Sq ft.	60		8,400/-
01- 03 D31	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer: a) Base Slab b) Walls including chamfer etc. c) Top Slab.	111	Cft.	256		28,416/-
		345	Cft.	256		88,320/-
		70	Cft.	256		17,920/-
01- 03 D32	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60, as mentioned in drawings and directed by the Engineer.	1.5	Ton	110,000		165,000/-
01- 03 D32	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	60	Sq.ft.	40		3,600/-
01- 03 D33	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	630	Sq.ft.	40		25,200/-
01- 03 D34	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings complete in all respect as shown on the drawings and specifications.	430	Sq.ft.	60		25,800/-
01- 03 D35	Providing embedding 10" wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	55	Rft.	160		8,800/-
01- 03 D36	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivalent, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same complete in all respect as per specification and as directed by the Engineer.	2	No.	12,000		24,000/-
01- 03 D37	Supply and fitting of malleable iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No.	500		8,000/-
01- 03 D38	<u>Soakage Pit</u> Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft. c) More than 10 ft upto full depth.	900	Cft.	1000		16,200/-
		900	Cft.	1000		16,200/-
		1,800	Cft.	1000		32,400/-
01- 03 D38	Binding concrete 2000 psi using slag cement conforming to BS-146	25	Cft.	210		5,250/-



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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D40	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar; straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications a) 20" thick b) 16" thick c) 12" thick	680	Cft	550		374,000/-
		550	Cft	415		228,250/-
		210	Cft	280		58,800/-
01- 03 D41	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer Pre-cast R.C.C Slab	90	Cft	225		20,250/-
01- 03 D42	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 as mentioned in drawings and directed by the Engineer	0.35	Ton	110,000		38,500/-
01- 03 D43	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivalent, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer	1	No	12,000		12,000/-
01- 03 D44	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	24	No	500		12,000/-
<u>Ground Storage Tank</u>						
01- 03 D45	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft. b) More than 5 ft upto 10 ft.	725	Cft.	180		13,050/-
		12	Cft.	180		216/-
01- 03 D46	Blinding concrete: 1250 psi using slag cement conforming to BS-146	48	Cft.	210		10,080/-
01- 03 D47	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer a) Base Slab b) Walls including chamfer etc. c) Top slabs d) Precast Slab	100	Cft.	256		25,600/-
		255	Cft.	256		65,280/-
		60	Cft.	256		15,360/-
		10	Cft.	256		2,560/-
01- 03 D48	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60, as mentioned in drawings and directed by the Engineer	1	Ton	110,000		110,000/-
01- 03 D49	Providing embedding 10" (250 mm) wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	55	Rft.	215		11,825/-



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Figures	Words	
01- 03 D50	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, wall ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications a) 12" thick	75	Cft.	280		21,000/-
01- 03 D51	Supply and fix water tight (Square Type) Malleable Iron Manhole cover with frame of CME or Equivalent, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	No.	35,000		70,000/-
01- 03 D52	Supply and fitting of malleable iron rings, etc. complete in all respects, as per drawing and directed by the Engineer.	10	No.	2,000		20,000/-
01- 03 D53	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth troweled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	530	Sq. ft.	80		42,400/-
01- 03 D54	1/2" thick, 1:4 cement sand smooth troweled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	116	Sq. ft.	65		7,540/-
01- 03 D55	1/2" thick, 1:4 cement sand smooth troweled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jama plaster, at any height with all scaffoldings etc.	435	Sq. ft.	55		23,925/-
01- 03 D56	2" thick, 3000psi (dry) cement concrete floor and screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	185	Sq. ft.	175		32,375/-
01- 03 D57	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. complete in all respect as per specifications.	90	Sq. ft.	85		7,650/-
01- 03 D58	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	12	Sq. ft.	45		540/-
01- 03 D59	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	40	Sq. ft.	75		3,000/-



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D60	MS Door including paint etc complete in all respect as shown in the drawings.	15	Sq. ft.	635		9,525/-
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 2 coats of crystalline water proofing coating on vertical surfaces	577	Sq. ft.	45		25,965/-
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 1 coat of crystalline water proofing coating on horizontal surfaces.	83	Sq. ft.	60		4,980/-
Tube Well / Pneumatic Pump						
Construction works						
01- 03 D82	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft.	150	Cft.	25		3,750/-
01- 02 C 03	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials)	20	Cft.	35		700/-
		40	Cft.	45		1,800/-
01- 03 D84	Blinding concrete 1250 psi using slag cement conforming to BS-146	60	Cft.	210		12,600/-
01- 03 D85	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification; Pre-cast R. C. C Slab including Beam	35	Cft.	350		12,250/-
01- 03 D86	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 as mentioned in drawings and directed by the Engineer.	0.10	Ton	132,100		13,210/-
01- 03 D87	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications a) 20" thick, for foundation b) 16" thick, for foundation c) 12" thick, for foundation d) 12" thick, for above G.L. e) 4" thick, for parapet wall	50	Cft.	550		27,500/-
		40	Cft.	415		16,600/-
		45	Cft.	280		12,600/-
		180	Cft.	190		34,200/-
		10	Cft.	210		2,100/-
01- 03 D88	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	285	Sq. ft.	80		22,800/-



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D69	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	25	Sq.ft.	65		1,625/-
01- 03 D70	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	150	Sq.ft.	55		8,250/-
01- 03 D71	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	25	Sq.ft.	40		1,000/-
01- 03 D72	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	25	Sq.ft.	185		4,625/-
01- 03 D73	Plain cement concrete 2" thick floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	25	Sq.ft.	175		4,375/-
01- 03 D74	Plain cement concrete 2" thick screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	33	Sq.ft.	175		5,775/-
01- 03 D75	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. complete in all respect as per specifications.	285	Sq.ft.	85		24,225/-
01- 03 D76	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	25	Sq.ft.	45		1,125/-
01- 03 D77	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	150	Sq.ft.	75		11,250/-
01- 03 D78	Vapor barrier sheet, under foundations and floor as per drawings and specifications.	25	Sq.ft.	55		1,375/-
01- 03 D79	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	250	Sq.ft.	40		10,000/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Figures	Words	
	<u>Kanchan Arsenic filter</u>					
01- 03 D80	Excavation and backfilling in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places: a) 0 ft to 5 ft	75	Cft.	25		1,875/-
01- 03 D81	Fill and backfill with selected materials including watering and compaction to every layer as per specification: a) From suitable excavated material (from stockpile of excavated materials). b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	50	Cft.	32		1,600/-
		100	Cft.	15		1,500/-
01- 03 D82	Binding concrete 1250 psi using slag cement conforming to BS-146	15	Cft.	210		3,150/-
01- 03 D83	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) footing b) Columns up bottom first slab c) Slabs & projection e) Walls including chamfer etc.	25	Cft.	236		6,100/-
		20	Cft.	270		5,400/-
		35	Cft.	256		8,960/-
		80	Cft.	290		23,200/-
01- 03 D84	Hd/ rolled deformed steel bars conforming to ASTM A-615 grade 60 as mentioned in drawings and directed by the Engineer.	0.5	Ton	132,100		66,050/-
01- 03 D85	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	84	Sq.ft.	40		3,360/-
01- 03 D86	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer	84	Sq.ft.	185		15,540/-
01- 03 D87	2" thick, 3000 cement concrete floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	84	Sq.ft.	175		14,700/-
01- 03 D88	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	152	Sq.ft.	80		12,160/-
01- 03 D89	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	126	Sq.ft.	65		8,190/-



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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D86	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating	128	Sq.ft	45		5,670/-
01- 03 D91	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	218	Sq.ft	40		8,720/-
 Holding Tank 						
01- 03 D92	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer.	755	Cft.	18		13,590/-
	a) 0 to 5 ft	540	Cft.	18		9,720/-
	b) More than 5 ft upto 10 ft.					
01- 03 D83	Blinding concrete 1250 psi using slag cement conforming to BS-146	60	Cft.	256		12,800/-
01- 03 D94	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of Crystalline water proofing coating.	466	Sq.ft.	35		16,310/-
01- 03 D85	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer.					
	a) Base Slab	107	Cft.	256		27,392/-
	b) Walls including chamfer etc.	335	Cft.	256		85,760/-
	c) Top Slab	89	Cft.	316		27,994/-
01- 03 D86	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60, as mentioned in drawings and directed by the Engineer.	1,150	Ton	110,000		126,500/-
01- 03 D97	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	102	Sq.ft.	40		4,080/-
01- 03 D88	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	349	Sq.ft.	40		13,960/-
01- 03 D99	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings complete in all respect as shown on the drawings and specifications	466	Sq.ft.	45		20,970/-
01- 03 D100	Providing embedding 10" wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	44	Rt.	500		22,000/-
01- 03 D101	Supply and fix water tight (Round Type, 24") Pre-cast heavy duty cover with M.S. frame work, including lifting handle, making good, complete in all respect as per specification and as directed by the Engineer.	2	No.	10,000		20,000/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D102	Supply and fitting of malleable iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	18	No.	500		8,000/-
	<u>Soakage Trench</u>					
01- 03 D103	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft.	5.125	Cft.	18 35		92,250/-
01- 03 D104	Binding concrete 1250 psi using slag cement conforming to BS-146	151	Cft.	256		38,656/-
01- 03 D108	Solid brick masonry wall from 13-1/2" to 31-1/2" thicknesses set in 1:4 cement sand mortar.	520	Cft.	450		233,200/-
01- 03 D100	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. Pre-cast R.C.C Slab including beam	250	Cft.	300		77,500/-
01- 03 D107	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 as mentioned in drawings and directed by the Engineer.	0.67	Ton	100,000		62,700/-
01- 03 D106	Supply and fix water tight (Round Type, 24") Pre-cast heavy duty cover with M.S frame work, including lifting handle, making good, complete in all respect as per specification and as directed by the Engineer.	6	No.	2,000		12,000/-
01- 03 D109	Supply and fitting of malleable iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	18	No.	500		9,000/-
01- 03 D110	Supply and fill 1/2" to 2" size gravel in trench complete in all respects, as per drawing and directed by the Engineer.	150	Cft.	500		75,000/-
01- 03 D111	<u>Plain cement concrete panel flooring:</u> Plain cement concrete panel flooring including sub flooring and base preparation, joints etc complete as shown in the drawings.	2,300	Sq.ft.	175		402,500/-
Sub- Total C/o to Summary for External Development work Pak Rs.						1,698,950/-

[Signature]
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9672687/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
32-04E 1	<u>PART -1 Distribution Board</u> <u>Distribution Board</u> Fabrication, Supply, installation, Testing and commissioning at site of following Distribution board, made of MS Sheet 16 SWG with hinged door, handle, catcher, earthing bar, neutral strip, internal wiring from MCBs terminating on cable terminal blocks, 2 coats of antirust and powder coated paint of approved colour, including cost of all necessary materials complete in all respects, DBs shall be manufactured as per specification, single line diagram complete in all respect up to the satisfaction of Engineer.					
	i) MOBLP-GF	1	No.	70,000		70,000/-
	ii) DBLP-GF1	1	No.	45,000		45,000/-
	iii) DBLP-GF2	1	No.	45,000		45,000/-
	vi) DBLP-FF1	1	No.	45,000		45,000/-
	v) DBLP-FF2	1	No.	45,000		45,000/-
	vi) MCC-WP	1	No.	90,000		90,000/-
	vii) DB-EXT (IP 54)	1	No.	45,000		45,000/-
CARRIED FORWARD TO SUMMARY						385,000/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-2: CABLES AND CONDUITS					
40-04E 2	L.V. Power Cables Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 600 / 1000 Volt grade manufactured by any one of the manufacturers as mentioned in approved manufacturer list in prelaidd conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the employers electrical engineer before placing the order with the manufacturer.					
	a) 4 Core Cu/PVC/PVC CABLE					
	i. 4 core 10mm.sq.	545	R.ft	276		150,420/-
	ii. 4 core 16mm.sq.	330	R.ft	354		116,820/-
	iii. 4 core 35mm.sq.	100	R.ft	1022		102,200/-
	b) Circuit Protective Conductor (CPC)					
	i. 1 core 10mm sq. PVC insulated colour Green/Yellow	545	R.ft	66		35,970/-
	ii. 1 core 16mm sq. PVC insulated colour Green/Yellow	430	R.ft	104		44,720/-
40-04E 3	P.V.C. Conduit and Accessories Supply at site of PVC conduit to be installed on stabs, walls, floor, columns or as required as per site conditions including cost of all PVC conduit accessories, steel pull wires, complete in all respects.					
	a) 32mm (1.25") dia. PVC conduit to pull electric cable.	415	R.ft	25		10,375/-
	b) 38mm (1.5") dia. PVC conduit to pull electric cable.	360	R.ft	41		14,760/-
	c) 50mm (2") dia. PVC conduit to pull electric cable.	135	R.ft	68		9,180/-
	d) 75mm (3") dia. PVC conduit to pull electric cable.	200	R.ft	105		21,000/-
CARRIED FORWARD TO SUMMARY 505,445/-						



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-3 <u>Wiring & Conduiting</u>					
40-04E 4	<u>Circuit Wiring & Conduiting</u>					
	a) Circuit Wiring and conduiting from DB to switch / Fan dimmer with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	24	Nos.	2,000		48,000/-
	b) Same as item (a) but wiring from switch to switch with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm dia PVC conduit.	49	Nos.	1,500		73,500/-
	c) Wiring from switch/dimmer to first light/fan point with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm dia PVC conduit, complete with cables and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	143	Nos.	1,600		228,800/-
	d) Wiring and conduiting of light point to point with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	73	Nos.	1,000		73,000/-
	e) Circuit Wiring and conduiting from DB to power socket outlet with 2 x 4 sq.mm 1 core Cu/PVC insulated cable + CPC 4 sq.mm 1 core Cu/PVC insulated cable in 20 mm dia PVC conduit complete with cables, conduits and all necessary accessories such as sheet steel back box with earth connecting point bends, junction boxes, sockets etc., as per the specifications and drawings and approval by the Engineer.	21	Nos.	3,000		63,000/-
	f) Same as item (e) but wiring between adjacent socket outlets with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC.	17	Nos.	2,000		34,000/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
g)	Same as (e) but wiring from socket outlet to socket outlet with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC	33	Nos.	4,000		33,000/-
h)	Wiring and conduiting from DB to water pump/LBS with 2 x 6 sq.mm 1 core Cu/PVC insulated cable + CPC 6 sq.mm 1 core Cu/PVC insulated cable in 25 mm dia PVC conduit complete with cables, conduits and all necessary accessories such as bends, junction boxes, sockets etc., as per the specifications and drawings and approval by the Engineer	4	Nos.	4,000		16,000/-
CARRIED FORWARD TO SUMMARY						569,300/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
PART-4: LIGHT FIXTURES, FANS, SWITCHES, OUTLETS & ACCESSORIES						
40-04E 5	LIGHT FIXTURES Supply, installation, testing and commissioning of following light fittings: ceiling / wall mounted / with hanging arrangement made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, as per approved manufacturer, fittings shall be duly approved by Engineer.					
	a. Fluorescent Light TMS 015 with 1x36Watt TL-D lamp color 84 & electronic ballast.	43	Nos.	4658		70,004/-
	b. Fluorescent Light TMS 015 with 1x18Watt TL-D lamp color 84 & electronic ballast.	6	Nos.	2000		12,000/-
	c. LED Light TCS398 2x18Watt TL-Master LED lamp with M2 Louver.	22	Nos.	6,000		132,000/-
	d. LED Light TCS398 2x18Watt TL-Master LED lamp with M2 Louver. (with hanging arrangement)	70	Nos.	4500		315,000/-
	e. Fluorescent Light TBS 318 with 1x36Watt TL-D lamp color 84 & electronic ballast.	16	Nos.	4,500		72,000/-
40-04E 6	Ceiling Fans Supply, installation and commissioning of 4-blades ceiling fans of following sizes, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respects, fittings shall be duly approved by Engineer.					
	a. 56" dia.	7	Nos.	4000		28,000/-
	b. 46" dia.	49	Nos.	3,500		171,500/-
	c. 36" dia.	1	Nos.	3,500		3,500/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
40-04E 7	<u>Switches & Fan Dimmers</u> Supply and installation of following type gang switches of 10 Amp rating, including 16 SWG sheet steel back box recessed in wall (with earth terminal and 2 coats of anti-rust paint), complete in all respect, as per specifications and drawings and approval by the Engineer.					
	i) One gang - 1 Way Switch	7	Nos.	230		1,610/-
	ii) Two gang - 1 Way Switch	21	Nos.	390		8,190/-
	iii) Three gang - 1 Way Switch	9	Nos.	550		4,950/-
	iv) Four gang - 1 Way Switch	2	Nos.	604		1,208/-
	v) One gang - Fan Dimmer	7	Nos.	1190		8,330/-
	vi) Two gang - Fan Dimmer	25	Nos.	2,125		53,125/-
	vii) One gang - 2 Way Switch	2	Nos.	350		700/-
40-04E 8	<u>SOCKETS</u> Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of anti-rust paint), complete in all respects, as per specifications and drawings, as per approved manufacturer list and approval by the Engineer.					
	i) 10A, 2-pin universal Switch Socket outlet.	25	Nos.	630		15,750/-
	ii) 13A, 3-pin Simplex Switch Socket outlet.	32	Nos.	560		17,920/-
	iii) 13A, 3-pin Duplex Switch Socket outlet.	10	Nos.	840		8,400/-
	iv) 15A, 3-pin Round Switch Socket outlet.	6	Nos.	560		3,360/-
	v) Floor Box - Type B	18	Nos.	5,500		99,000/-
40-04E 9	<u>LOAD BREAK SWITCHES</u> Supply, installation, testing & commissioning of following size Load Break switch with MS back box including all accessories complete in all respects, as per specifications and drawings and approval by the Engineer.					
	i) 30 Amp SPN LBS	1	Nos.	3,000		3,000/-
CARRIED FORWARD TO SUMMARY						1,51,571/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	<u>PART-5: EARTHING SYSTEM</u>					
40-04E 10	<u>Earth Electrode</u> Supply at site and installation of Copper earth electrodes, 10 feet long and 17mm dia including cost of all necessary materials, complete in all respects, as per specification.	11	Nos.	20,000		220,000/-
40-04E 11	<u>Copper Conductor</u> a) Supply, installation and connecting up of 1 x 16sqmm 1-Core Cu/PVC cable, directly buried in ground from ECP in pit to earth electrode, includes excavation, backfilling of earth, cad-welding of copper conductor to earth electrode rod at one end and provision/ fixing of cable lugs at other end, including all accessories as per the Specifications and Drawings and to the entire satisfaction and approval of the Engineer.	10	R.ft	2,000		20,000/-
	b) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable in 38mm dia PVC conduit, directly buried in ground, from Pit to ECP / MCC, as per drawing or as per the instructions of the engineer. including cost of excavation, backfilling of earth, brass nuts, bolts, washers, all necessary accessories, complete in all respects.	30	R.ft	200		6,000/-
	c) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from ECP to U-link box and from U-Link box to data patch panel, as per drawing or as per the instructions of the engineer. including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	85	R.ft	200		17,000/-
	d) Supply, installation and connections of bare copper conductor 50 mm sq, in 38mm dia PVC conduit, from building rebars / earth electrode to earth connecting point, as per drawing or as per the instructions of the engineer. including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	15	R.ft	355		5,325/-

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	e) Supply, installation and connections of copper conductor 1x50 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from earth connecting point to distribution board, as per drawing or as per the instructions of the engineer, including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	15	R.ft	355		5,325/-
40-04E 12	<u>Earth Connecting Points (ECP)</u> Supply of earth connecting points consisting of copper plate 300mm long x 50mm wide x 6mm thick to be installed as and where shown on drawings, complete with fixing arrangement, brass nuts bolts, washers, lugs, 1/2" dia holes to facilitate connections of incoming copper strips / copper conductors and outgoing CPC.	2	Nos.	5,000		10,000/-
40-04E 13	<u>ECP (in inspection Chamber)</u> Supply of earth connecting points in Earth pit / inspection chamber consisting of copper plate 200mm long x 50mm wide x 6mm thick with necessary holes, all fixing accessories of the copper plates on the wall of main holes, brass nuts bolts, washers, including cost of all necessary materials, complete in all respects.	2	Nos.	22,000		44,000/-
40-04E 14	<u>Earth pit / Inspection Chamber</u> Construction of Earth pit/ inspection chamber 375mm x 375mm x 450mm deep with 150mm thick wall and 330mm x 330mm heavy duty R.C.C Cover, complete in all respects, as per specification.	2	Nos.	5,000		10,000/-
40-04E 15	<u>Testing</u> Testing of the earthing system with "Earth Tester" along with other testing accessories. Testing shall be performed in the presence of the Engineer and written test result duly verified by the Engineer shall be submitted to the Client for his record.	1	Job	5,000		5,000/-
CARRIED FORWARD TO SUMMARY						332,650/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-6: TELEPHONE / VOICE SYSTEM					
40-04E 16	Telephone / Data Network					
	a) Wiring for each telephone point from Utility box to telephone point with Cat 6 UTP in 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects, as per drawing and specification.	230	R.ft	90		20700/- 20700/-
	b) Wiring for each data point from Utility box with Cat 6A UTP, to data point, including cost of 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects as per drawing and specification.	1200	R.ft	90		108,000/-
	c) Wiring from Utility box with Four pair Cat 6A UTP, to data patch panel, including cost of 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects as per drawing and specification.	140	R.ft	90		12,600/-
	d) Supply, Installation of following telephone / data Outlet plate including RJ-45 IOs and 18 SWG sheet steel back box recessed in wall or wall surface, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.					
	i) Simplex Outlet RJ 45	23	Nos.	750		17,250/-
	ii) Duplex Outlet RJ 45	3	Nos.	1200		3,600/-
40-04E 17	U Link Box					
	Supply, Installation, testing and commissioning of Utility box, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.	1	Nos.	50000		50,000/-
40-04E 18	Patch Panel					
	a) Supply and installation of following Patch Panels complete in all respects as per the specifications and drawings and to the approval of the Engineer.					
	i) 24 Port Patch Panel	1	Nos.	28,000		28,000/-



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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
40-04E 19	<u>Telephone / Data Patch Cords</u>					
	a) Supply and connecting of telephone 2 Pair drop cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer.	5	Nos.	500		2,500/-
	b) Supply and connecting of data CAT 6A patch cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer.					
	i) 1 meter long	24	Nos.	750		18,000/-
	ii) 3 meter long	24	Nos.	1,000		24,000/-
40-04E 20	<u>Communication Rack</u>					
	Supply installation of 16U Data racks for the fixing of 12 port rack mounted 19" CAT-6A UTP Patch Panel with cable organizer including all installation accessories as per specification complete in all respect to the approval of engineer.	1	Nos.	28,000		28,000/-
40-04E 21	<u>Telephone Sets</u>					
	Supply and connection of following type of Telephone sets.					
	a) Telephone with CLI Module	2	Nos.	9,000		18,000/-
	b) Telephone without CLI Module	3	Nos.	4,000		12,000/-
CARRIED FORWARD TO SUMMARY						342,650/-
40-04E 22	<u>PART -7 Fire Alarm System</u>					342,650/-
	<u>Fire Alarm System</u>					
	a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect.					
	i) Smoke detector with buzzer	8	Nos.	12,000		96,000/-
	ii) Heat detector with buzzer	4	Nos.	12,000		48,000/-
CARRIED FORWARD TO SUMMARY						244,000/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
PART - 8 LIGHTNING PROTECTION SYSTEM						
40-04E 23	<u>Roof Conductor</u> Supply at site and installation of 50sqmm stranded bare copper conductor fixed on parapet walls or on flat surface of roof as shown on drawing or as required as per site conditions, including cost of copper saddles, copper crossing 3"x3" as shown on drawings, brass screws, all necessary fixing material / accessories, complete in all respects.	970	R.ft.	280		271,600/-
40-04E 24	<u>Down Conductor</u> #1 Supply at site, installation, connections of 50mm sq. stranded bare copper conductor in 38mm dia. PVC conduit as down conductors to be installed within the columns from air terminal on roof to building rebars, all other required accessories including cadweld, complete in all respects.	675	R.ft.	300		202,500/-
40-04E 25	<u>Air terminal</u> Supply, installation and connecting up of 1 x 16mm DIA SOUND ROUND COPPER 600mm LONG AERIAL ROD as and where shown on drawings, complete with fixing arrangement, cost of all necessary materials / accessories, complete in all respects.	6	Nos.	20,000		120,000/-
40-04E 26	<u>Copper Test Link</u> Supply at site and installation of sectionable copper test link made of 200mm x 200mm uPVC enclosure with necessary holes, all fixing accessories of the copper test link to be installed on the wall of manholes, brass nuts bolts, washers, including cost of all necessary materials, complete in all respects.	8	Nos.	30,000		240,000/-
CARRIED FORWARD TO SUMMARY						834,100/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
PART -9 Public Address System						
40-04E 27	<u>Amplifier</u> a) Supply, installation & commissioning of following type amplifier with three outputs, three microphone inputs and one music input, complete in all respect, as per approved manufacturer list. i) 30W	3	Nos.	30,000		90,000/-
40-04E 28	<u>Speakers</u> a) Supply, installation & commissioning of 10W wall mounted speaker with all accessories complete in all respects, as per approved manufacturer list.	4	Nos.	3000		12,000/-
40-04E 29	<u>Microphone</u> Cordless Microphone.	2	Nos.	8,000		16,000/-
40-04E 30	<u>Wiring</u> Wiring with 2 Core, 2.5 sq.mm PVC insulated and PVC sheathed Cable from Amplifier / controller to speaker and speaker to speaker in 20mm dia PVC conduit complete in all respects upto maximum (15 Nos-speaker) as shown in riser diagram.	180	R.ft.	90		16,200/-
CARRIED FORWARD TO SUMMARY						134,200/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -10 EXTERNAL AREA LIGHTING					
40-04E31	LIGHT FIXTURES Supply, installation, testing and commissioning of following light fittings, wall mounted arrangement made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, as per approved manufacturer. fittings shall be duly approved by Architect / Engineer.					
	a) Bulkhead light fixture mounted on wall with 1x18Watt PLC lamp.	12	Nos.	3,500		42,000/-
	b) Britlite or equivalent Bollard Light Fixture in die cast aluminum body powder coated suitable for walkways with 1x18WATT PLC LAMP IP-67.	3	Nos.	15,000		45,000/-
40-04E32	Wiring & Conduiting					
	a) Circuit Wiring and conduiting from DB to first light point with 1 x 4 sq.mm 3 core Cu/PVC insulated cable in 20 mm dia PVC conduit, complete with cables for external lighting, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	5	Nos.	5,000		25,000/-
	b) Same as item (a) but wiring from light point to light point	10	Nos.	3,000		30,000/-
CARRIED FORWARD TO SUMMARY						117,000/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -11 MISCELLANEOUS WORKS					
40-04E 33	<u>Cable TV System</u>					
	a) Supply, installation, testing and commissioning of RG-6 co-axial cable wiring for Cable TV system from U-link Box to TV outlet complete in all respects, as per the specifications and drawings and approval by the Engineer.	90	Rft.	90		8,100/-
	b) <u>Outlets</u> Supply, installation testing and commissioning of cable TV outlet along with 16 SWG back box having earth terminals and 2 coats of anti-rust paint, complete in all respects, as per the specifications and drawings and approval by the Engineer.	2	Nos.	2,000		4,000/-
40-04E 34	<u>Manholes</u> Construction of water tight concrete handhole / cable chamber with Heavy duty RCC cover with lifting hooks and these words "ELECTRICAL CABLES" written with paint on cover. Complete in all respect as per drawing and specification. Sizes of Manhole are as under:					
	i) 1'-6" x 1'-6" x 2'-5" deep	4	Nos.	10,000		40,000/-
40-04E 35	<u>Utility / PTCL Connection</u>					
	a) Supply and co-ordination for the utility connection from Utility as per required electrical load demand. The utility connection charges shall be paid separately as per actual on submission of receipt.	1	Job	50,000		50,000/-
	b) Supply and co-ordination for the telephone connection from PTCL as per required demand. The telephone connection charges shall be paid separately as per actual on submission of receipt.	1	Job	10,000		10,000/-
CARRIED FORWARD TO SUMMARY						12,100/-


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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -12 SOLAR ROOM ELECTRIFICATION WORKS					
40-04E 36	LIGHT FIXTURES Supply, installation, testing and commissioning of following light fittings, ceiling /wall mounted made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete					
	a. Fluorescent Light TCW098 with 1x36Watt TL-D lamp color 84 & electronic ballast (IP65).	2	Nos.	7,000		14,000/-
	b. Fluorescent Light TMS 015 with 1x36Watt TL-D lamp color 84 & electronic ballast.	3	Nos.	5,000		15,000/-
40-04E 37	Switches & Fan Dimmers Supply and installation of following type gang switches of 10 Amp rating, including 16 SWG sheet steel back box recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respect, as per specifications and drawings and approval					
	i) Four gang - 1 Way Switch	1	Nos.	800		800/-
40-04E 38	SOCKETS Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and dr.					
	i) 13A, 3-pin Duplex Switch Socket outlet.	1	Nos.	1,500		1,500/-
40-04E 39	Fire Alarm System a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect.					
	i) Heat detector with buzzer	1	Nos.	12,000		12,000/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
40-04E 40	<u>Circuit Wiring & Conduiting</u>					
	a) Circuit Wiring and conduiting from DB to switch with 2 x 2.5 sq mm 1 core Cu/PVC insulated cable + CPC 2.5 sq mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	1	Nos.	3,000		3,000/-
	b) Same as item (a) but wiring from switch to switch with 2 x 1.5 sq mm 1 core Cu/PVC insulated cable + CPC 1.5 sq mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit.	1	Nos.	2,500		2,500/-
	c) Same as item (b) but wiring from switch to first light point.	4	Nos.	2,000		8,000/-
	d) Same as item (b) but wiring from light point to light point.	1	Nos.	1,800		1,800/-
CARRIED FORWARD TO SUMMARY						58,600/-
GRAND TOTAL						4,578,592/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Figures	Words	
	PLUMBING WORKS (BUILDING) PLUMBING FIXTURES Supply and installation of plumbing fixtures & faucets complete in all respects including all accessories, support hangers, etc. ready to use as per specifications, drawings and instructions of Consultant.					
01-05P1	European style coupled water closet with seat cover, flush tank C.P. (chrome plated) connector, thimble, etc. a. Type - EWC	5	No.	10,000		50,000/-
01-05P2	Asian style water closet Orissa type with flush tank C.P. (chrome plated) connector, uPVC Class "E" flush pipe, thimble, P-Trap, etc.	8	No.	2,500		20,000/-
01-05P3	Urinal wall hung type with automatic 1/2" size flush valve, CP trap, waste, connector and fixing accessories.		No.	50,000		
01-05P4	Wash basin (WB) including C.P. P- trap/Bottle Trap, stop cocks, etc. i. Type - WB - V (Vanity)	11	No.	12,300		135,300/-
01-05P5	Wash basin hot and cold water mixer, waste, etc. for following. i. Type - WB - V (Vanity)		No.	40,000		
01-05P6	Toilet Hand Shower with flexible chain & telephone type shower including tee stop cock etc. complete in all respect. Type - TS	13	No.	1,800		23,400/-
01-05P7	Stainless steel lab. sink including stop cocks, P-trap, Bottle trap, waste pipe etc complete in all respects. SK - 1, 36" x 20" single bowl and single drainer.	2	No.	4,850		9,700/-
01-05P8	Sink hot and cold water mixer, etc. for following. a. For SK-1		No.	28,000		
01-05P9	S.S Grease Trap 7.5 Kg. capacity, inlet/outlet 2" Dia connections.		No.	45,000		
01-05P10	Toilet accessories complete set, (Imported make) i. Soap dispenser ii. Toilet paper holder iii. Coat Hook iv. Mirror 5mm (Belgium) v. Paper Rack	6 13 6 120 6	No. No. No. Sq No.	1,000 2,500 2,000 120 800		6,000/- 29,500/- 12,000/- 21,600/- 4,800/-
Total						302,300/-


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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>Plumbing Water Supply</u>					
01-05P11	Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for water supply as per DIN 8077-8078 for pipes and DIN 16962, PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.					
	i) 3/4" internal dia (20 mm outer dia)	50	Rt.	155		7,750/-
	ii) 1" internal dia (32 mm outer dia)	350	Rt.	200		70,000/-
	iii) 1" internal dia (40 mm outer dia)	820	Rt.	230		1,19,600/-
	iv) 1 1/4" internal dia (50 mm outer dia)	135	Rt.	350		47,250/-
	v) 1 1/2" internal dia (63 mm outer dia)	205	Rt.	450		92,250/-
	vi) 2" internal dia (75 mm outer dia)		Rt.	2,000		
	vii) 2 1/2" internal dia (90 mm outer dia)		Rt.	3,000		
01-05P12	Providing and installing gateball valves, Kitz or approved equivalent make, including jointing, fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters.					
	i) 3/4" internal dia (32 mm outer dia)	2	No	8,000		16,000/-
	ii) 1" internal dia (40 mm outer dia)	4	No	9,750		39,000/-
	iii) 1 1/4" internal dia (50 mm outer dia)	3	No	13,450		40,350/-
	iv) 1 1/2" internal dia (63 mm outer dia)	2	No	21,650		43,300/-
	v) 2" internal dia (75 mm outer dia)		No	40,000		
	vi) 2 1/2" internal dia (90 mm outer dia)		No	125,000		
Page Total						4,75,500/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
<u>Plumbing Sewerage</u>						
01-05P13	Providing, fixing, cutting, jointing and testing uPVC piping conforming to BS-4514 and BS 5255 including uPVC fittings with solvent cement jointing, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter:					
	2" dia	105	Rft.	228		23,940/-
	3" dia		Rft.	800		
	4" dia	440	Rft.	876		385,440/-
	6" dia	110	Rft.	1328		146,080/-
01-05P14	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.	48	No.	2150		103,200/-
01-05P15	Construction of rectangular brick masonry manhole of following sizes for sewer complete with plastering from internal and external side, PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, rungs, complete as per drawings.					
01-05P16	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.	4	No.	2800		11,200/-
01-05P17	Providing and fixing Clean Cut complete in all respects.	3	No.	1450		4,350/-
<u>Water Cooler</u>						
01-05P18	Providing and fixing drinking water cooler of capacity 60 gallons per hour including all accessories and making connections to water supply and drainage systems complete in all respects as per details in specifications.	4	No.	36500		146,000/-
Page Total						944,610/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
EXTERNAL DEVELOPMENT						
Septic Tank						
01-05P19	Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with 'B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer.	15	RL	1200		18,000/-
	6" id (150 mm)	5	Nos	500		2,500/-
	4" dia, pipe sleeves in walls	2	Nos	800		1,600/-
	6" dia, pipe sleeves in walls					
Soakage Pit						
01-05P20	Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with 'B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer.	5	RL	1200		6,000/-
	6" id (150 mm)					
Ground Water Storage Tank						
01-05P21	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipe (Heavy Quality) of B.S.S. 1387-1987 complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer.	5	RL	450		2,250/-
	i) 1/2" dia	5	RL	1300		6,500/-
	ii) 2" dia, pipe sleeves, 8' long	2	Nos	400		800/-
Overhead Water Storage Tank						
01-05P22A	Vent Pipe 4" dia as per drawing and specifications for U.G.W Tank, O.H.W Tank complete in all respects, puddle flange, specials as per drawing or directed by the Engineer.	4	Nos	2500		10,000/-
01-05P22B	Providing, laying, cutting, jointing, testing and disinfecting brass pipe sleeves/ connection pie with puddle including coupler (Heavy Quality) of approved as per B.S.S code complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer.	2	Nos	1500		3,000/-
	i) 1 1/2" dia, pipe sleeves, 10" long	3	Nos	2,000		6,000/-
	ii) 2 1/2" dia, pipe sleeves, 10" long					
Kanchan Arsenic Filter						
Filter Material.						
01-05P23	Providing & laying gravel, including screening and washing as per drawing or directed by the Engineer.	21	Cft	38		798/-
	Gravel size 6 mm to 15 mm.					
01-05P24	Providing & laying coarse sand, including screening and washing as per drawing or directed by the Engineer.	42	Cft	45		1,890/-
01-05P25	Providing & laying fine sand, including screening and washing as per drawing or directed by the Engineer.	42	Sq.ft.	125		5,250/-
01-05P26	Providing & fixing M.S sheet 1/4" thick, 1/8" Dia hole 2 inch dia (Diffuser Plate), as per drawing or directed by the Engineer.	37	Sq.ft.	108		3,996/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P27	Providing & laying Dry rammed brick ballast 1-1/2" to 2" (40mm to 50mm) gauge, including screening and washing as per drawing or directed by the Engineer.	9	Ct.	55		495/-
01-05P28	Providing & laying iron nails with oil coating (1" thick layer) as per drawing or directed by the Engineer.	125	Kg.	132		16,500/-
01-05P29	Providing & fixing cover over Kanchan Filter of PVC sheet 1/2" thick, as per drawing or directed by the Engineer.	32	Sq.ft.	550		17,600/-
01-05P30	Providing, laying, cutting, jointing, testing and disinfecting PPRC pipe including plastic shower heads with all fittings complete in all respects as per drawing or directed by the Engineer. i) 3/4" internal dia (32 mm outer dia)	23	Rt.	490		11,270/-
01-05P31	Providing and fixing Plastic Shower Heads	9	Nos	1750		15,750/-
<u>Tube Well / Pneumatic Pump</u>						
01-05P32	Boring for tubewell in all types of soil except shingle and rock, from ground level to 100 ft (30m) Depth, including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. i) 8" id (200mm)	100	Rt.	2800		28,000/-
01-05P33	Boring for tubewell in all types of soil except shingle and rock, from a depth of 100.1 to 200ft (30 to 60 m) below ground level, including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. i) 6" id (200mm)	50	Rt.	3500		175,000/-
01-05P34	Providing and installing P.V.C. ball End plug B.S.S. class 'D', in tubewell bore hole, complete in all respect and as directed by the Engineer. i) 2" id (100mm)	1	Each	1200		1,200/-
01-05P35	Providing and installing P.V.C. blind pipe B.S.S Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer, etc. complete in all respect and as directed by the Engineer. ii) 1" id(25mm) i) 1-1/4" id(38mm) ii) 2" id(50mm)	150 40	Rt. Rt. Rt.	450 400 425		60,000/- 17,000/-
01-05P36	Providing and installing P.V.C. strainer B.S.S Class 'D' in tubewell bore hole, including sockets and solvents; etc. complete in all respect and as directed by the Engineer. i) 2" id(50mm)	40	Rt.	425		17,000/-
01-05P38	Providing and installing P.V.C. blind pipe B.S.S Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer complete in all respect and as directed by the Engineer. i) 4" id (100mm)	60	Rt.	525		31,500/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P37	Testing and developing of bore hole, complete in all respect and as directed by the Engineer.	3	Per Hr.	20,000		60,000/-
01-05P38	Shrouding with graded pea gravel 3/8" to 1/8" around tubewell in bore hole, complete in all respect and as directed by the Engineer.	45	Cft.	1,000		45,000/-
01-05P39	Providing/fixing Injector valve as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	Each	85,250		85,250/-
01-05P40	Providing/fixing P.V.C. Cup/Cover as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	No.	300		300/-
01-05P41	Providing/fixing Pneumatic Pump (having 4 impellers capable to carry a discharge of 400 gals/hr against 90 ft head and 3 HP Motor), complete in all respect and as directed by the Engineer. EXTERNAL PIPING Plumbing Water Supply	1	Set.	15,000		15,000/-
01-05P42	Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for water supply as per DIN 8077-8078 for pipes and DIN 16962, PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.					
	i) 3/4" internal dia (20 mm outer dia)		Rft.	220		
	ii) 1" internal dia (32 mm outer dia)	30	Rft.	308		9,240/-
	iii) 1 1/4" internal dia (40 mm outer dia)	150	Rft.	230		34,500/-
	iv) 1 1/2" internal dia (50 mm outer dia)	130	Rft.	350		45,500/-
	v) 2" internal dia (63 mm outer dia)	13	Rft.	450		5,850/-
	vi) 2 1/2" internal dia (75 mm outer dia)		Rft.	2,000		
	vii) 3" internal dia (90 mm outer dia)		Rft.	3,000		
01-05P43	Providing and installing gate/ball valves, Kitz or approved equivalent make, including jointing, fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters.					
	i) 3/4" internal dia (32 mm outer dia)	2	No.	8,000		16,000/-
	ii) 1" internal dia (40 mm outer dia)	4	No.	9,750		39,000/-
	iii) 1 1/4" internal dia (50 mm outer dia)	3	No.	12,250		36,750/-
	iv) 1 1/2" internal dia (63 mm outer dia)	0	No.	16,000		
	v) 2" internal dia (75 mm outer dia)		No.	32,000		
	vi) 2 1/2" internal dia (90 mm outer dia)		No.	45,000		



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Figures	Words	
<u>Plumbing Sewerage</u>						
01-05P46	Providing, fixing, cutting, jointing and testing, uPVC piping conforming to BS-4514 and BS 5255 including uPVC fittings with solvent cement jointing, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter:					
	2" dia		Rft.	550		
	3" dia		Rft.	800		
	4" dia	32	Rft.	876		28,032
	6" dia	430	Rft.	1090		468,700
01-05P45	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.		No.	15,000		
01-05P46	Construction of rectangular brick masonry manhole of 2'x2' for sewer complete with plastering from internal and external side, PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, rungs, complete as per drawings.		No.	30,000		
01-05P47	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.		No.	3,000		
01-05P48	Providing and fixing Clean Out complete in all respects.		No.	8,000		
<u>Water Supply Pump For GST</u>						
01-05P49	Supply at site, installation, testing and commissioning of water supply reciprocating pump with 2HP motor as per specification complete in all respect.	2	No	50,000		1,00,000
				Page Total		523,332
				G-Total Cio to Summary		2,997,350

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 Government of Sindh
 3420431/-



GBHS DUMBA VILLAGE
(P05-KHI41)




SINDH BASIC EDUCATION PROGRAM
CONSTRUCTION OF NEW SCHOOLS AND UPGRADATION OF EXISTING SCHOOLS
Package- 05: Karachi, City
GBHS DUMBA VILLAGE, GADAP TOWN
SUMMARY OF TENDERED COST

CODE	DESCRIPTION	AMOUNT IN PAK.RUPEES
A.	GENERAL ITEMS	1,466,505/-
B.	CIVIL WORKS	38,693,210/-
C.	EXTERNAL WORKS	6,755,670 = 6,756,701/-
D.	ELECTRICAL WORKS	4,713,592/-
E.	PLUMBING WORKS	3,555,395 = 3,555,431/-
F.	DAYWORK COST	4,956,100

Sub-Total = 60,514,478/-

= 55,185,439/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
Temporary Facilities (Optional Items)						
Ref. Spec. No. G05						
01- 01 G 1	Providing and maintaining a rental building of area 1,500 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, water supply and sanitation complete in all respect as directed by the Engineer.	Rate only	Month	2,000		
OR						
01- 01 G 2	Providing and maintaining a tent school of area 1,500 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, water supply and sanitation complete in all respect as directed by the Engineer.	Rate only	Month	2500		
OR						
01- 01 G 3	Providing and maintaining porta cabins for school of area 1,500 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, airconditioning, water supply and sanitation complete in all respect as directed by the Engineer.	Rate only	Month	1500		
OR						
01- 01 G 4	Shifting of furnitures and equipments and reinstall etc from existing school to rental building and reinstall as per specification and directed by the engineer.	Rate only	L.S	25,000		
01- 01 G 5	Repair & renovation of existing Governmet building proposed for temporary school during the construction. (The payable amount shall be assessed as per actual rehabilitation work on selected building and as per recommendation by the Engineer on BOQ rates of similar items quoted in the bid).	P.S.	P.S.			500,000
Sub- Total (Rs.)						500,000
Site Clearing and Grubbing						
Ref. Spec. No. C01						
01- 01 G 6	Clearing and Grubbing complete in all respect as directed by the Engineer.	30,463	SF	5		152,315/-
DISMANTLING WORK						
Ref. Spec. No. G04						
01- 01 G 7	Dismantling, removing of existing building structure and foundations including disposal of debris materials to designated places/location as directed by the Engineer. All the dismantled materials shall be contractor's property and rate/price of dismantling work should include compensation of such items obtained by the Contractor from existing building.	4,892	SF	20		97,840/-
01- 01 G 8	Dismantling, removing of existing sewerage lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	RL	20		1,000/-
01- 01 G 9	Dismantling, removing of existing water supply lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	RL	20		1,000/-
01- 01 G 10	Dismantling, removing of existing electrical supply line as directed by the Engineer.	150	RL	100		15,000/-



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Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
01- 01 G 11	Dismantling of existing boundary wall as shown in the drawing including disposal of surplus material and as directed by the Engineer. Dismantled material shall be contractor's property.	100	Rft	200		20,000/-
01- 01 G 12	Dismantling of existing walkways/platform/water tank ramp etc and flooring as shown in the drawing/ as per site including disposal of surplus material and as directed by the Engineer. Dismantled material shall be contractor's property.	645	Sft	30		19,350/-
POWER SUPPLY & TELECOMMUNICATION						
01- 01 G 13	Providing, installing, testing and commissioning of electrical supply line for re-routing as per new plan including cables, all fixtures, connections and all related civil works as directed by the Engineer.	1	Job	200,000		200,000/-
01- 01 G 14	Providing, installing, testing and commissioning of telephone line for re-routing as per new plan including cables, all fixtures, connections and all related civil works as directed by the Engineer.	1	Job	20,000		20,000/-
SIGN BOARD / PLAQUE Ref Spec. No. SP 100						
01- 01 G 15	Providing and installation of Project sign board as per drawing complete including all civil related works, foundations, earthwork concrete, protection works complete as directed by the Engineer.	1	Job	20,000		20,000/-
01- 01 G 16	Providing, construction and installation of Inauguration Plaque as per drawing complete including all civil related works, foundations, earthwork concrete, protection works etc complete as directed by the Engineer.	1	Job	50,000		50,000/-
02- 01 G 17	Providing and maintenance of the Engineer's facilities at individual school site as per clause 44, Section-100 (SP), Volume-III (A), Specifications-Special Provisions. All items/ materials/ equipment shall become contractor's property at the completion of works.	12	Month	30,000		360,000/-
WATER TESTING Ref Spec. No.						
01- 01 G 18	Sampling and testing of Water from bore of well (TDS) including submission of report as per specification.	1	Each	20,000		20,000/-
Total General Items (Rs.)						766,500/-
Sub- Total C/o to Summary General Items Pak Rs.						1,166,500/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
CONSTRUCTION OF SCHOOL BUILDING						
SUB-STRUCTURE						
EARTHWORKS						
Ref. Spec. No. C02						
01-02-C-1	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places a) 0 ft to 5 ft b) More than 5 ft upto 10 ft.	12438 1000	Cft. Cft.	150 150		186,570 15,000
01-02-C-2	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material source to be approved by the Engineer) upto free haulage limit.	6219 33887	Cft. Cft.	10 18		62,190 618,366
01-02-C-2A	Engineered fill layer not exceeding 6" thick with ASSHTO A-1-a type material & soling with compaction should be 98% MDD. (Maximum Dry density) selected materials including watering and compaction to every layer as per specification and drawings. a) Stone soling 12" compacted layer b) Fill layer not exceeding 6" thick with ASSHTO A-1-a type material.	Rate only Rate only	Cft. Cft.	1,200 1,500		
01-02-C-2B	Plate load test as per specifications, including in all respect work complete perform and test reports with any number of tests as required by the engineer.	Rate only	Ls	500,000		
DEWATERING						
Ref. Spec. No. G03						
01-02-C-3	Designing, providing and installation of complete dewatering system including boring, strainer, filter and other all materials, pumping and disposal of water upto Engineer's satisfaction and to keep the construction surface dry all the time. a) Completion of installation works at site, up 100% running/ working position b) Dewatering, days not allow more than/ maximum payable.	Rate Only Rate Only	L.S Day	12,000 20,000		
TERMITE CONTROL TREATMENT						
Ref. Spec. No. C03						
01-02-C-4	Termite control treatment to surfaces following structures complete in all respect as per specification. (Only plan area will be measured)	7500	Sq.ft.	32		240,000
REINFORCEMENT						
Ref. Spec. No. C04						
01-02-C-5	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	22	ton.	110,000		2,420,000



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Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 6	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi. <u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u> Ref. Spec. No. C04	Rate only	ton.	135,000		
01- 02 C 7	Blinding concrete 1250 psi using slag cement conforming to BS-146.	1833	Cft.	160		293,280/-
01- 02 C 8	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Isolated foundations b) Columns upto plinth c) Plinth beams d) SOG & Ramps Slabs e) Walls	5038 399 1931 95 35	Cft. Cft. Cft. Cft. Cft.	254 256 256 256 270		1289798/- 102144/- 494,336/- 24,330/- 9,450/-
	<u>SITU CONCRETE 1:3:6</u> Ref. Spec. No. C04					
07- 02 C 9	Situ concrete 1:3:6, with formwork under the plinth beam thickness as per drawings, using slag cement conforming to BS-146, straight or curve at any level including all anchors required to be built in Rcc columns pedestals, complete in all respect as per drawings and specifications.	391	Cft.	235		91,885/-
	<u>BRICK MASONRY</u> Ref. Spec. No. C05					
07- 02 C 9 A	Solid brick masonry under the plinth beam of one and half brick thickness, set in 1:4 using slag cement conforming to BS-146 & sand mortar, straight or curve at any level including all anchors required to be built in brick masonry, complete in all respect as per drawings and specifications.	Rate only	Cft.	800		
	<u>HARDCORE/ STONE SOLING</u> Ref. Spec. No. C07					
01- 02 C 10	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	8,956	Sq.ft.	40		358,240/-
	<u>P.C.C UNDER FLOORING</u> Ref. Spec. No. C07					
01- 02 C 11	PCC 4" thick plain cement concrete (using slag cement conforming to BS-146) sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	7,031	Sq.ft.	185		1291,185/-
	<u>PLINTH PROTECTION</u> Ref. Spec. No. C04 & C07					
01- 02 C 12	Blinding concrete 1250 psi using slag cement conforming to BS-146	654	Cft.	210		137,340/-
	<u>PROTECTION WORKS</u> Ref. Spec. No. C16					
01- 02 C 13	Vapor barrier sheet, under the floor as per drawings and specifications.	5,504	Sq.ft.	40		220,160/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 14	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	12,233	Sq. ft.	30		366,990/-
SUPER-STRUCTURE WORKS						
<u>Ground Floor (From Plinth level to 1st Slab)</u>						
REINFORCEMENT						
Ref Spec. No. C04						
01- 02 C 16	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	27	ton	110,000		2,970,000/-
01- 02 C 16	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.		ton	135,000		
PLAIN AND REINFORCED CONCRETE AND FORMWORKS						
Ref Spec. No. C04						
01- 02 C 17	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification;					
	a) Columns	1,179	CU	256		301,824/-
	b) Beams & lintels	1,658	CU	256		424,448/-
	c) Slab & projections	4,405	CU	256		1,127,680/-
	d) Stair cases	373	CU	260		96,980/-
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts.	157	CU	550		86,350/-
	f) Parapet wall for stair cases	83	CU	300		24,900/-
<u>First Floor (From 1st Slab to 2nd slab)</u>						
REINFORCEMENT						
Ref. Spec. No. C04						
01- 02 C 18	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	28	ton	110,000		3,080,000/-
01- 02 C 19	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.		ton	135,000		
PLAIN AND REINFORCED CONCRETE AND FORMWORKS						
Ref Spec. No. C04						
01- 02 C 20	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification;					
	a) Columns	1,275	CU	256		326,400/-
	b) Beams & lintels	1,775	CU	256		454,400/-
	c) Slab & projections	4,431	CU	256		1,134,336/-
	d) Stair cases	175	CU	350		61,250/-
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts.	139	CU	550		76,450/-
	f) Parapet wall for stair cases	32	CU	350		11,200/-



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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
Second Floor / Roof (From 2nd slab to 3rd slab & tower)						
REINFORCEMENT						
01- 02 C 21	Ref. Spec. No. C04 Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	4	ton.	110,000		440,000
01- 02 C 22	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate only	ton.	135,000		
PLAIN AND REINFORCED CONCRETE AND FORMWORKS						
01- 02 C 23	Ref. Spec. No. C04 Reinforced cement concrete using CP cement 3000 psi (28 day cylinder strength) in following super structures components complete in all respect as per drawings and specification: a) Columns b) Beams & lintels c) Slab & projections d) Parapet Wall/ Pure e) Precast coping for parapet wall at roof and erecting/ fixing including shuttering and all accessories and/or embedded parts. f) Over head water tank, column, walls & slab g) Others Misc. Str	133 160 358 501 685 300 20	Cft. Cft. Cft. Cft. Rft. Cft. Cft.	350 350 220 256 225 315 400		46,550 56,150 96,660 128,250 147,275 94,500 8,000
FINISHING WORKS						
For Ground floor						
BLOCK MASONRY						
01- 02 C 24	Ref. Spec. No. C16 Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 4" thick b) 6" thick c) 8" thick d) 4" thick, external cavity, wall with all accessories, arrangements for stone tile facing or Color Crete finishing including cavity arrangements / accessories, anchorages, angle irons and metal fixing & PVC pipe as weep hole etc at any height and level.	1,179 248 5,565 1,295	Cft. Cft. Cft. Cft.	310 290 130 400		365,190 62,000 723,450 518,400
BRICK MASONRY						
01- 02 C 24 A	Ref. Spec. No. C05 Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications. a) 4-1/2" thick b) 6" thick c) 13-1/2" thick	Rate only Rate only Rate only	Cft. Cft. Cft.	620 520 420		



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	DOORS FRAMES Ref. Spec. No. C09 & C11					
01- 02 C 25	G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ filling material (Hold fast & mortar etc) sizes and palam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	361	R. ft.	322		116,442/-
	CEMENT PLASTER Ref. Spec. No. C08					
01- 02 C 26	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	325	Sq. ft.	80		26,000/-
01- 02 C 28	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	6,688	Sq. ft.	40		267,520/-
01- 02 C 29	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	17,540	Sq. ft.	40		701,600/-
	ALUMINIUM WORKS Ref. Spec. No. C11					
01- 02 C 30	Supply and fix in position as specified anodized aluminum operable windows and ventilators of 2"x4" section, approved manufacturer having minimum wall thickness not less than 1.6 mm with netted shutter and 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	1,313	Sq. ft.	600		787,800/-
01- 02 C 31	Supply and fix in position as specified anodized aluminum doors with fixed panel both side and top of approved 2"x4" section, manufacturer having minimum wall thickness not less than 1.6 mm with 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	116	Sq. ft.	850		98,600/-
	STRUCTURAL STEEL Ref. Sec. No. C13					
01- 02 C 32	Mild steel gills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings and specification.	1,615	Kg	150		242,250/-



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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 33	Providing and fixing railing for stairs/ramps as per drawing and specifications complete in all respect. a) MS railing stairs b) M.S railing at entrance	54	Rft	950		51,300/-
		70	Rft	1100		77,000/-
01- 02 C 34	Providing and fixing MS pipe railing for courtyard with paintings, as per drawing and specifications complete in all respect and approved by the Engineer.	90	Rft	750		37,500/-
01- 02 C 35	Providing and fixing MS folding gate (Emergency Exit) with paintings, complete in all respects as per drawing and specifications	1	No.	80,000		80,000/-
01- 02 C 35 A	Providing and fixing MS folding Main entrance gate with paintings, complete in all respects as per drawing and specifications.	1	No.	110,000		110,000/-
FLOOR AND WALL FINISHES						
Ref.Spec. No. C07						
01- 02 C 36	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	6,329	Sq.ft.	175		1,107,575/-
01- 02 C 37	Providing and laying terrazzo tile for entrance ramp (3/4" thick) with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	100	Sq.ft.	250		25,000/-
01- 02 C 38	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	409	Sq.ft.	65		26,585/-
01- 02 C 39	Porcelain tile floor (type) using tile of size 8"x8" (full body), approved quality, colour and shade laid in approved pattern set in specified mortar including cement concrete base, complete in all respect as shown on the drawings and specifications	729	Sq.ft.	130		94,770/-
01- 02 C 40	Porcelain tile in Dado using tile of size 8"x8", quality, colour and shade laid in approved pattern including rough plaster base complete in all respect as shown on drawings and specifications.	1,336	Sq.ft.	130		1,73,680/-
MARBLE WORKS						
Ref.Spec. No. C07 & C08						
01- 02 C 41	Pre-polished marble on entrance steps, stairs, ramp & floor etc using approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	325	Sq.ft.	750		243,750/-
		60	Sq.ft.	700		42,000/-



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Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 42	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bulking/ transferring of edges complete in all respect as shown on the drawings.	382	Sq. ft.	750		286,500/-
01- 02 C 43	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	108	Sq. ft.	750		79,500/-
01- 02 C 44	Pre-polished marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish including complete in all respect as shown on the drawings.	53	Sq. ft.	750		39,750/-
01- 02 C 45	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	40	Sq. ft.	750		30,000/-
PAINTING						
Ref. Spec. No. C10						
01- 02 C 46	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	6,868	Sq. ft.	33		227,244/-
01- 02 C 47	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	17,540	Sq. ft.	40		701,600/-
01- 02 C 48	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	325	Sq. ft.	45		14,625/-
WOODEN DOORS						
Ref. Spec. No. C09						
01- 02 C 49	Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partial wood frame and infill, polish, color/ lacker, beading/ Architrave, with all hardware (Locks, door closer, door stopper, push plate/kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	530	Sq. ft.	800		424,000/-



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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Rs.	Words	
01- 02 C 50	Fixed 6mm plain laminated glass panel part at above door panel with solid wood batten including teak polish/ licker at both sides around the glass of approved type, quality complete in all respect as shown on the drawings and specifications.	110	Sq.ft.	1200		132,000/-
	FALSE CEILING Ref.Spec. No. C14					
01- 02 C 51	1/2" thick gypsum board ceiling including oil G.I fitting, accessories, wire and suspension system complete in all respect as shown on the drawings and specifications.	729	Sq.ft.	187		136,323/-
	Pre cast C.C Patren jali Ref.Spec. No.C18, C5					
01- 02 C 52	C.C Patren jali as per approved designed and specification	600	Sq.ft.	120		72,000/-
	CLADDING/ EXTERNAL FACING Ref.Spec. No.C19 & C20					
01- 02 C 53	Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using molar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	3,893	Sq.ft.	100		389,300/-
01- 02 C 53 A	Providing and laying Color-Crete with 3/4" Cement sand plaster on external facing as per approved sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal lusing etc at any height and level using molar 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	4,468		50		223,400/-
	Ref.Spec. No. C05					
01- 02 C 53 B	Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq.ft.	800		

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Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs.)
				Figures	Words	
	FINISHING WORKS For First floor BLOCK MASONRY Ref. Spec. No. C18					
01- 02 C 54	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 4" thick	458	Cft.	310		142,180/-
	b) 6" thick	320	Cft.	250		80,000/-
	c) 8" thick	4,291	Cft.	130		557,830/-
	d) 4" thick, external cavity wall with all accessories arrangements for stone tile facing or Color Grette finishing including cavity arrangements / accessories, anchorages, angle irons and metal flashing & PVC pipe as weep hole etc at any height and level.	1,702	Cft.	400		680,800/-
	BRICK MASONRY Ref. Spec. No. C05					
01- 02 C 54 A	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.					
	a) 4-1/2" thick	Rate only	Cft.	620		
	b) 8" thick	Rate only	Cft.	510		
	c) 13-1/2" thick	Rate only	Cft.	420		
	DOORS FRAMES Ref. Spec. No. C09 & C11					
01- 02 C 55	C-1 frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and palm detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	516	R. ft.	320		159,960/-
	CEMENT PLASTER Ref. Spec. No. C 06					
01- 02 C 56	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers including complete in all respect as shown on the drawings.	175	Sq. ft.	80		14,000/-
01- 02 C 57	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	6,573	Sq. ft.	40		262,920/-
01- 02 C 57	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	13,678	Sq. ft.	40		547,120/-



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Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	ALUMINIUM WORKS Ref. Spec. No. C 11					
01- 02 C 58	Supply and fix in position as specified anodized aluminum openable windows and ventilators of 2'x4' section, approved manufacturer having minimum wall thickness not less than 1.6 mm with netted shutter and 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fittings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications	1,377	Sq. ft.	600		826,200/-
	STRUCTURAL STEEL Ref. Sec.No. C 13					
01- 02 C 59	Mild steel grills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings.	1,721	Kg	150		258,150/-
01- 02 C 60	Providing and fixing MS stair railing as per drawing and specifications complete in all respect.	30	Rft	950		28,500/-
01- 02 C 61	Providing and fixing MS pipe railing for courtyard with paintings, as per drawing and specifications complete in all respect and approved by the engineers					
		Rate Only	Rft	1100		
	FLOOR AND WALL FINISHES Ref. Spec. No. C 57, 08					
01- 02 C 62	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	6,945	Sq. ft.	175		1,215,375/-
01- 02 C 63	Providing and laying terrazzo tile skirting 4' high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	318	Sq. ft.	65		20,670/-
01- 02 C 64	Porcelain tile floor (type) using tile of size 8"x8" (full body), approved quality, colour and shade laid in approved pattern set in specified mortar including cement concrete base, complete in all respect as shown on the drawings.	500	Sq. ft.	130		65,000/-
01- 02 C 65	Porcelain tile in Dado using tile of size 6"x6", quality, colour and shade laid in approved pattern including rough plaster base complete in all respect	2,126	Sq. ft.	130		276,380/-
	MARBLE WORKS Ref. Spec. No. C 07, 08					
01- 02 C 66	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	176	Sq. ft.	750		132,000/-



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Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 67	Pre-polished marble tile nser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	50	Sq ft	800		40,000/-
01- 02 C 68	Pre-polished marble tile for counter tops & other area 3/4" thick using of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including complete in all respect as shown on the drawings.	50	Sq ft	750		37,500/-
01- 02 C 69	Pre-polished Marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	34	Sq.ft.	750		25,500/-
01- 02 C 70	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	52	Sq ft.	750		39,000/-
PAINTING						
Ref. Spec. No. C 10						
01- 02 C 71	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	6,573	Sq.ft.	28		184,044/-
01- 02 C 72	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	13,678	Sq.ft.	40		547,120/-
WOODEN DOORS						
Ref. Spec. No. C 09, 12						
01- 02 C 73	Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core panel wood frame and infill, polish, color/ lacker, beading/ Architrave, with all hardware (Locks, door closer, door stopper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	560	Sq.ft.	800		448,000/-
01- 02 C 74	Fixed 6mm plain laminated glass panel part at above door panel with solid wood batten including teak polish/ lacker at both sides around the glass of approved type, quality complete in all respect as shown on the drawings and specifications.	124	Sq.ft.	1200		148,800/-



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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
01- 02 C 75	<u>FALSE CEILING</u> Ref. Spec. No. C14 12mm thick gypsum board ceiling including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on the drawings and specifications.	500	Sq.ft.	185		92,500/-
01- 02 C 76	<u>Pre cast C.C Patren jali</u> Ref. Spec. No. C18, C5 C.C Patren jali as per approved design and specification	680	Sq.ft.	120		81,600/-
	<u>STONE CLADDING/ COLOR-CRETE/ EXTERNAL FACING</u> Ref. Spec. No. C19 & C20					
01- 02 C 77	Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacture/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using mortar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	5,111	Sq.ft.	200		511,100/-
01- 02 C 77 A	Providing and laying Color-Crete with 3/4" Cement sand plaster on external facing as per approved sample type size mentioned in drawings and specifications with expanded materials at joints, arrangements / accessories, anchorages, angle irons and metal fixing etc at any height and level using mortar 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer	4,648	Sq.ft.	50		232,400/-
01- 02 C 77 B	Ref. Spec. No. C05 Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq.ft.	200		
	<u>WATER PROOFING AND BUILTUP ROOFING</u> Ref. Spec. No. C 10					
01- 02 C 78	Water proofing and built up roofing over roof slab comprising all the layers and coatings etc as shown in the drawings and specifications.	7,500	Sq.ft.	125		937,500/-

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	FINISHING WORKS					
	For Roof floor / Second floor					
	BLOCK MASONRY					
	Ref.Spec No. C18					
01-02 C 76	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications:					
	a) 4" thick	30	Ct.	310		9,300/-
	b) 6" thick	50	Ct.	250		12,500/-
	c) 8" thick	500	Ct.	240		120,000/-
	d) 4" thick, external cavity wall with all accessories arrangements for stone tile facing or Color Crete finishing including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	789	Ct.	400		315,600/-
	BRICK MASONRY					
	Ref.Spec No. C05					
01-02 C 76A	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.					
	a) 4-1/2" thick	Rate only	Ct.	610		
	b) 9" thick	Rate only	Ct.	510		
	c) 13-1/2" thick	Rate only	Ct.	400		
	DOORS FRAMES					
	Ref.Spec. No. C09 & C11					
01-02 C 80	G.I frame 18swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and pattern detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	35	R.R.	300		10,500/-
	CEMENT PLASTER					
	Ref.Spec. No. C 06					
01-02 C 81	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection, parapet or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and as per elevation complete in all respect as shown on the drawings.	2,504	Sq.ft.	50		125,200/-
01-02 C 82	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	388	Sq.ft.	40		15,520/-
01-02 C 83	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	902	Sq.ft.	40		36,080/-



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Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 84	3/4" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls to O.H.W Tank etc with making of chamfer corner in plaster as per drawings and specifications.	360	Sq.ft.	80		28,800/-
01- 02 C 85	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating.	230	Sq.ft.	40		9,200/-
01- 02 C 86	Water proofing coating treatment to all horizontal surfaces in contact with water shall be treated with 1 coat of crystalline water proofing coating.	130	Sq.ft.	40		5,200/-
01- 02 C 86	Supply and fix water tight (Square Type) Malleable Iron Manhole cover with frame of CME or Equivalent, including fixing of frame and embedded parts in concrete and painting, complete in all respect as per specification and as directed by the Engineer.	2	No.	18,000		36,000/-
01- 02 C 86 A	Supply and fitting of malleable iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer. (For O.H.W tank)	4	No.	500		2,000/-
FLOOR AND WALL FINISHES						
Ref. Spec. No. C-07, 08						
01- 02 C 87	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	180	Sq.ft.	175		31,500/-
01- 02 C 88	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	16	Sq.ft.	65		1,040/-
MARBLE WORKS						
Ref. Spec. No. C-07, 08						
01- 02 C 89	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc. colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	6	Sq.ft.	750		4,500/-
PAINTING						
Ref. Spec. No. C-10						
01- 02 C 90	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	388	Sq.ft.	28		10,864/-
01- 02 C 91	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	902	Sq.ft.	40		36,080/-



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Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 92	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	2,504	Sq. ft.	45		112,680/-
	<u>WOODEN DOORS</u> Ref. Spec. No. C 09, C12					
01- 02 C 93	Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partial wood frame and infill, polish, color/ lacker, beading/ Architrave, with all hardware (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	49	Sq. ft.	1,100		53,900/-
	<u>Pre cast C.C Patren jali and Railing</u> Ref. Spec. No. C18, C5 & C21					
01- 02 C 94	C.C Patren jali as per approved designed and specification.	100	Sq. ft.	120		12,000/-
01- 02 C 95	Precast water spout as per approved designed and specification.	15	No.	500		7,500/-
	<u>CLADDING/ EXTERNAL FACING</u> Ref. Spec. No. C18 & C20					
01- 02 C 96	Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using molar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc. complete in all respect, as per drawings, specifications and as directed by the Engineer.	2,368	Sq. ft.	100		236,800/-
	Providing and laying Color-Crete with 3/4" Cement sand plaster on external facing as per approved sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal fixing etc at any height and level using mortar 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	530	Sq. ft.	50		26,500/-
01- 02 C 98	Ref. Spec. No. C05 Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq. ft.	800		
Total C/o to Summary for CIVIL WORKS Pak Rs.						366,937.19/-



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	EXTERNAL DEVELOPEMENT					
	CONSTRUCTION OF BOUNDARY WALL					
	Ref.Spec. No. C02					
	EARTHWORKS					
	Ref. Spec. No.					
01- 03 D 1	Excavation in all kinds of sub-surface materials, timbering upto following depths including disposal of surplus / rejected excavated materials to designated places.					
	a) 0 ft to 5 ft	554	CU	18		9,972/-
01- 03 D 2	Fill and backfill with selected materials including watering and compaction to every layer as per specification					
	a) From suitable excavated material (from stockpile of excavated materials)	277	CU	20		2,770/-
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	2,190	CU	30		65,700/-
01- 03 D3	Area Fill with selected materials from outside source, including watering and compaction to every layer as per specification for Play ground.	1,000	CU	30		30,000/-
	DEWATERING					
	Ref. Spec. No. G03					
01- 03 D4	Designing, providing and installation of complete dewatering system including boring, strainer, filter and other all materials, pumping and disposal of water upto Engineer's satisfaction and to keep the construction surface dry all the time.					
	a) Completion of installation works at site, up 100% running/ working position.	Rate only	L.S.	1,20,000		
	b) Dewatering	Rate only	Day	10,000		
	TERMITE CONTROL TREATMENT					
	Ref. Spec. No. C03					
01- 03 D5	Termite control treatment to surfaces following structures complete in all respect as per specification. (Only plan area will be measured)	468	Sq. ft.	32		14,912/-
	REINFORCEMENT					
	Ref. Spec. No. C04					
01- 03 D6	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	1.23	ton.	1,10,000		135,300/-
	PLAIN AND REINFORCED CONCRETE					
	Ref. Spec. No. C04					
01- 03 D7	Binding concrete 1250 psi using slag cement conforming to BS-146.	93	CU	210		19,530/-
01- 03 D7A	Situ concrete 1:3:6, with formwork under the plinth beam thickness as per drawings, using slag cement conforming to BS-146, straight or curve at any level including all anchors required to be built in Rec columns pedestals, complete in all respect as per drawings and specifications.	84	CU	256		21,504/-



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D8	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Footings b) Columns upto plinth c) Plinth beams	154 40 101	Cft. Cft. Cft.	2550 2550 2550		38,500/- 10,240/- 25,856/-
01- 03 D9	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification: a) Columns	63	Cft.	280		23,240/-
	<u>BLOCK MASONRY</u> Ref.Spec. No. C18					
01- 03 D10	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 8" thick / 4" thick	473	Cft.	130		61,490/-
	<u>BRICK MASONRY</u> Ref.Spec. No. C05					
01- 03 D10 A	Solid brick masonry wall 9" thick with using slag cement conforming to BS-146 set in 1:4 cement sand mortar, straight or curve below plinth beam, planters including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per Drawings and Specifications. a) 9" thick.		Rate only	1,500	Cft.	
01- 03 D10 B	Solid brick masonry wall with pointing on both faces above plinth beam 9" thick set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties, and other fixtures required to be built in brick masonry, complete in all respect as per Drawings and specifications. a) 4 1/2" thick		Rate only	1,800	Cft.	
	<u>CEMENT PLASTER</u> Ref.Spec. No. C06					
01- 03 D11	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces (Columns, wall, beams and project etc.) including making grooves as per design and elevation complete in all respect as shown on the drawings.	567	Sq.ft.	45		25,515/-
	<u>PROTECTION WORKS</u> Ref.Spec. No. C15					
01- 03 D12	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	688	Sq.ft.	35		24,080/-



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D13	<u>COPING</u> Ref.Spec No. C04 Providing and fixing 3" thick coping including plaster using OP cement for boundary wall complete as shown on the drawings	83	Rtl	190		17,670/-
01- 03 D14	<u>STRUCTURAL STEEL</u> Ref. Sec.No. C13 Mid steel main gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 14'x7')	2	no	275000		550,000/-
01- 03 D15	Mid steel wicket gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 3'x7')	2	no	120000		240,000/-
01- 03 D.15A	<u>CLADDING/ EXTERNAL FACING</u> Ref.Spec. No. C19 & C20 Providing and laying stone cladding/ stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacture/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using mortar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	1581	Sq.ft.	100		158,100/-
01- 03 D 16	<u>LANDSCAPING</u> Ref. Sec.No. C17 Fill and backfill with selected materials including watering and compaction to every layer as per specification.	275	Cft.	45		12,375/-
01- 03 D17	Area fill with selected materials including watering and compaction to every layer as per specification.	8,549	Cft.	35		299,215/-
01- 03 D18	Relocation and replanting of removed trees as per specifications and as directed by the Engineer.	30	No.	1,000		30,000/-
01- 03 D19	Development of lawn (grass) including fertilizer mixed with earth including spreading and watering etc. and cutting etc. fill guarantee period (12 months) complete in all respect as shown on the drawings and as per specifications.	6,440	Sq.ft.	80		515,200/-
01- 03 D20	12" thick approved selected sweet earth including spreading, leveling, dressing and watering etc. complete in all respect as per specifications and as directed by the Engineer.	6,440	Cft.	40		257,600/-



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Figures	Words	
01- 03 D21	Trees/ plants of the following types and size/ height including excavation, backfilling, manure/ fertilizer supports and water etc. complete in all respect as shown on the drawings, specifications and as directed by the Engineer. a) Neem tree (3 to 4 feet) b) Babul tree (3 to 4 feet) c) Golmohar (3 to 4 feet) d) Champa (2 to 3 feet) e) Grape Jasmine (2 to 3 feet) f) Cement Concrete planters	14 5 10 22 22 173	No. No. No. No. No. Rt	1,500 1,000 1,200 1,800 1,800 900		21,000 5,000 12,000 39,600 39,600 153,000
	Footpath Walkway (Precast Paving Blocks/ Tiles) Ref. Sec.No.C21					
01- 03 D22	4" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for foot foundation complete in all respect as per specifications and drawings.	3,648	Sq.ft.	55		200,640
01- 03 D23	Precast cement concrete paving blocks on concrete or approved equivalent of size 8" x 4" x 2.5" laid in approved pattern including 2" thick sand cushion.	3,648	Sq.ft.	170		620,160
01- 03 D24	PCC concrete kerb on concrete or approved equivalent including lean, haunching concrete etc complete as per drawing and specifications with earth cutting/ filling, leveling, dressing etc complete in all respect as per specifications and as directed by the Engineer	500	Rt	230		115,000
01- 03 D24A	Plain cement concrete panel flooring including 1/2" Groove @ 8" o/c, joints etc complete as shown in the drawings.	315	Sq.ft.	85		26,775
	EXTERNAL SEWER & MANHOLES					
01- 03 D25	Construction of manholes with material including, excavation, base top RCC slab, GI steps, CC benching water proof internal plaster, external bitumen coating etc inlet/out connections etc. i. 24" x 24" SIZE ii. 36" x 36" SIZE	8 2	Nos. Nos.	20,000 25,000		160,000 50,000
01- 03 D26	Supply and fix water tight (Square Type) Malleable Iron Manhole cover with frame of CME or Equivalent, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer	10	No.	12,000		120,000
	Septic Tank					
01- 03 D27	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer a) 0 to 5 ft b) More than 5 ft upto 10 ft.	830 430	Cft. Cft.	18 18		14,940 7,740
01- 03 D28	Blinding concrete 1250 psi using slag cement conforming to BS-145	65	Cft.	210		13,650



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 029	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of Crystalline water proofing coating.	490	Sq.ft.	32		15,680/-
01- 03 030	Water proofing coating treatment to all surfaces in contact with water shall be treated with 1 coat of Crystalline water proofing coating on horizontal surface.	140	Sq.ft.	60		8,400/-
01- 00 031	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) Base Slab b) Walls including chamfer etc. c) Top Slab	111	Cft.	256		28,416/-
		345	Cft.	256		88,320/-
		70	Cft.	256		17,920/-
01- 03 032	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60, as mentioned in drawings and directed by the Engineer.	1.5	Ton	110,000		165,000/-
01- 03 033	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	90	Sq.ft.	40		3,600/-
01- 03 035	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster at any height with all scaffoldings etc.	630	Sq.ft.	40		25,200/-
01- 03 034	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings complete in all respect as shown on the drawings and specifications.	490	Sq.ft.	60		29,400/-
01- 03 035	Providing embedding 10" wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	51	Rft.	160		8,160/-
01- 03 036	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivalent, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	No.	12,000		24,000/-
01- 03 037	Supply and fitting of malleable iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No.	500		8,000/-
01- 03 038	<u>Soakage Pit</u> Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places, as per drawing or directed by the Engineer. a) 0 to 5 ft. b) More than 5 ft upto 10 ft. c) More than 10 ft upto full depth.	900	Cft.	1800		16,200/-
		900	Cft.	1800		16,200/-
		1,800	Cft.	1800		32,400/-
01- 03 039	Blinding concrete 2000 psi using slag cement conforming to BS-146	25	Cft.	210		5,250/-



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D40	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, wall ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 20" thick b) 16" thick c) 12" thick	500 550 210	Cft Cft Cft	550 415 280		374,000/- 228,250/- 58,800/-
01- 03 D41	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. Pre-cast R.C.C Slab	90	Cft	225		20,250/-
01- 03 D42	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 as mentioned in drawings and directed by the Engineer.	0.35	Ton	110,000		38,500/-
01- 03 D43	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivalent, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	1	No	12,000		12,000/-
01- 03 D44	Supply and fitting of malleable iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	24	No	500		12,000/-
<u>Ground Storage Tank</u>						
01- 03 D45	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft.	725 12	Cft. Cft.	18 18		13,050/- 216/-
01- 03 D46	Binding concrete 1250 psi using slag cement conforming to BS-146	45	Cft.	210		10,080/-
01- 03 D47	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) Base Slab. b) Walls including chamfer etc. c) Top slabs d) Precast Slab	100 255 60 10	Cft. Cft. Cft. Cft.	252 252 252 252		25,600/- 65,280/- 15,360/- 2,560/-
01- 03 D48	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 as mentioned in drawings and directed by the Engineer.	1	Ton	110,000		110,000/-
01- 03 D49	Providing embedding 10" (250 mm) wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer	55	Rft	215		11,825/-



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Figures	Words	
01- 03 D50	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications a) 12" thick.	75	Cft.	280		21,000/-
01- 03 D51	Supply and fix water tight (Square Type) Malleable Iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	No.	35,000		70,000/-
01- 03 D52	Supply and fixing of malleable iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	10	No.	1,000		10,000/-
01- 03 D53	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, lip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	530	Sq.ft.	80		42,400/-
01- 03 D54	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	116	Sq.ft.	65		7,540/-
01- 03 D55	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	435	Sq.ft.	55		23,925/-
01- 03 D56	2" thick, 3000psi (dry) cement concrete floor and screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	185	Sq.ft.	175		32,375/-
01- 03 D57	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. complete in all respect as per specifications.	90	Sq.ft.	85		7,650/-
01- 03 D58	Providing and applying three or more coats of distemper paint to C.C. Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	12	Sq.ft.	45		540/-
01- 03 D59	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	40	Sq.ft.	75		3,000/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Figures	Words	
01- 03 D60	M5 Door including paint etc complete in all respect as shown in the drawings.	15	Sq.ft.	635		9,525/-
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 2 coats of crystalline water proofing coating on vertical surfaces	577	Sq.ft.	45		25,965/-
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 1 coat of crystalline water proofing coating on horizontal surfaces	83	Sq.ft.	60		4,980/-
<u>Tube Well / Perumatic Pump</u>						
<u>Construction works</u>						
01- 03 D62	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft	150	Cft.	25		3,750/-
01- 02 D63	Fill and backfill with selected materials including watering and compaction to every layer as per specification; a) From suitable excavated material (from stockpile of excavated materials)	20	Cft.	35		700/-
		40	Cft.	45		1,800/-
01- 03 D64	Blinding concrete 1250 psi using slag cement conforming to BS-145	60	Cft.	210		12,600/-
01- 03 D65	Reinforced cement concrete using GP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification; Pre-cast R.C.C Slab including Beam	35	Cft.	350		12,250/-
01- 03 D66	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60, as mentioned in drawings and directed by the Engineer.	0.10	Ton	132,100		13,210/-
01- 03 D67	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 20" thick, for foundation b) 16" thick, for foundation c) 12" thick, for foundation d) 12" thick, for above G.L e) 4" thick, for parapet wall	50	Cft.	550		27,500/-
		40	Cft.	415		16,600/-
		45	Cft.	280		12,600/-
		180	Cft.	190		34,200/-
		10	Cft.	210		2,100/-
01- 03 D68	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	285	Sq.ft.	80		22,800/-



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Figures	Words	
01- 03 D69	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	25	Sq.ft.	65		2,625/-
01- 03 D70	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	150	Sq.ft.	55		8,250/-
01- 03 D71	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	25	Sq.ft.	40		2,000/-
01- 03 D72	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	25	Sq.ft.	185		4,625/-
01- 03 D73	Plain cement concrete 2" thick floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	25	Sq.ft.	175		4,375/-
01- 03 D74	Plain cement concrete 2" thick screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	33	Sq.ft.	175		5,775/-
01- 03 D75	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc complete in all respect as per specifications.	285	Sq.ft.	85		24,225/-
01- 03 D76	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	25	Sq.ft.	45		1,125/-
01- 03 D77	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	150	Sq.ft.	75		11,250/-
01- 03 D78	Vapor barrier sheet, under foundations and floor as per drawings and specifications.	25	Sq.ft.	55		1,375/-
01- 03 D79	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	250	Sq.ft.	40		10,000/-



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Figures	Words	
	<u>Kanhan Arsenic filter</u>					
01- 03 D80	Excavation and backfilling in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places. a) 0 ft to 5 ft	75	Cft	25		1,875/-
01- 03 D81	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials)	50	Cft.	32		1,600/-
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	100	Cft.	45		4,500/-
01- 03 D82	Binding concrete 1250 psi using slag cement conforming to BS-140.	15	Cft.	210		3,150/-
01- 03 D83	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) footing b) Columns up bottom first slab c) Slabs & projection e) Walls including chamfer etc.	25 20 35 80	Cft. Cft. Cft. Cft.	250 200 250 200		6,400/- 5,400/- 8,960/- 23,200/-
01- 03 D84	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 as mentioned in drawings and directed by the Engineer.	0.5	Ton	132.00		66,050/-
01- 03 D85	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	84	Sq.ft.	40		3,360/-
01- 03 D86	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	84	Sq.ft.	125		15,540/-
01- 03 D87	2" thick, 3000 cement concrete floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	84	Sq.ft.	125		14,700/-
01- 05 D88	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	152	Sq.ft.	80		12,160/-
01- 02 D89	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	126	Sq.ft.	65		8,190/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-03-090	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating	176	Sq.ft.	45		5,670/-
01-03-091	Two coats of hot bitumen 10:20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	218	Sq.ft.	40		8,720/-
01-03-D111	Plain cement concrete panel flooring: Plain cement concrete panel flooring including sub flooring and base preparation, joints etc complete as shown in the drawings.	2,300	Sq.ft.	175		402,500/-
Sub- Total Clo to Summary for External Development work Pak Rs.						675,670/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
41-04E 1	<u>PART -1 Distribution Board</u> <u>Distribution Board</u> Fabrication, Supply, installation, Testing and commissioning at site of following Distribution board, made of MS Sheet 16 SWG with hinged door, handle, catcher, earthing bar, neutral strip, internal wiring from MCBs terminating on cable terminal blocks, 2 coats of antirust and powder coated paint of approved colour, including cost of all necessary materials complete in all respects, DBs shall be manufactured as per specification, single line diagram complete in all respect up to the satisfaction of Engineer.					
	i) MDBLP-GF	1	No.	70,000		70,000/-
	ii) DBLP-GF1	1	No.	45,000		45,000/-
	iii) DBLP-GF2	1	No.	45,000		45,000/-
	iv) DBLP-FF1	1	No.	45,000		45,000/-
	v) DBLP-FF2	1	No.	45,000		45,000/-
	vi) MCC-WP	1	No.	70,000		70,000/-
	vii) DB-EXT (IP 54)	1	No.	45,000		45,000/-
						385,000/-

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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-2: CABLES AND CONDUITS					
41-04E 2	L.V. Power Cables Supply at site, installation, testing and commissioning of PVC insulated non-armoured copper conductor cable 600 / 1000 Volt grade manufactured by any one of the manufacturers as mentioned in approved manufacturer list in pre-laid conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the employers electrical engineer before placing the order with the manufacturer.					
	a) 4 Core Cu/PVC/PVC CABLE					
	i. 4 core 10mm sq.	545	R.ft	276		150,420/-
	ii. 4 core 16mm sq.	330	R.ft	354		116,820/-
	iii. 4 core 35mm sq.	100	R.ft	1022		102,200/-
	b) Circuit Protective Conductor (CPC)					
	i. 1 core 10mm sq. PVC insulated colour Green/Yellow.	545	R.ft	66		35,970/-
	ii. 1 core 16mm sq. PVC insulated colour Green/Yellow.	430	R.ft	104		44,720/-
41-04E 3	P.V.C. Conduit and Accessories Supply at site of PVC conduit to be installed on slabs, walls, floor, columns or as required as per site conditions including cost of all PVC conduit accessories, steel pull wires, complete in all respects.					
	a) 32mm (1.25") dia. PVC conduit to pull electric cable.	415	R.ft	25		10,375/-
	b) 38mm (1.5") dia. PVC conduit to pull electric cable.	360	R.ft	41		14,760/-
	c) 50mm (2") dia. PVC conduit to pull electric cable.	135	R.ft	68		9,180/-
	d) 75mm (3") dia. PVC conduit to pull electric cable.	200	R.ft	105		21,000/-
						55,445/-



BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-3 Wiring & Conduiting					
41-04E 4	Circuit Wiring & Conduiting					
	a) Circuit Wiring and conduiting from DB to switch / Fan dimmer with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	24	Nos.	2,000		48,000/-
	b) Same as item (a) but wiring from switch to switch with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit.	49	Nos.	1,500		73,500/-
	c) Wiring from switch/dimmer to first light/fan point with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm dia PVC conduit, complete with cables and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	143	Nos.	1,600		228,800/-
	d) Wiring and conduiting of light point to point with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	73	Nos.	1,000		73,000/-
	e) Circuit wiring and conduiting from DB to power socket outlet with 2 x 4 sq.mm 1 core Cu/PVC insulated cable + CPC 4 sq.mm 1 core Cu/PVC insulated cable in 25 mm dia PVC conduit, complete with cables, conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.					

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
g)	Same as (e) but wiring from socket outlet to socket outlet with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC.	33	Nos.	2,000		33,000/-
h)	Wiring and conduiting from DB to water pump/LBS with 2 x 6 sq.mm 1 core Cu/PVC insulated cable + CPC 6 sq.mm 1 core Cu/PVC insulated cable in 25 mm dia PVC conduit complete with cables, conduits and all necessary accessories such as bends, junction boxes, sockets etc., as per the specifications and drawings and approval by the Engineer.	4	Nos.	4,000		16,000/-
						= 569,300/-

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
PART-4: LIGHT FIXTURES, FANS, SWITCHES, OUTLETS & ACCESSORIES						
41-04E 5	LIGHT FIXTURES Supply, installation, testing and commissioning of following light fittings, ceiling /wall mounted / with hanging arrangement made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, as per approved manufacturer, fittings shall be duly approved by Engineer.					
	a. Fluorescent Light TMS 015 with 1x36Watt TL-D lamp color 84 & electronic ballast.	43	Nos.	1,628		70,004/-
	b. Fluorescent Light TMS 015 with 1x18Watt TL-D lamp color 84 & electronic ballast.	6	Nos.	2,000		12,000/-
	c. LED Light TCS398 2x16Watt TL-Master LED lamp with M2 Louver.	22	Nos.	6,000		132,000/-
	d. LED Light TCS398 2x16Watt TL-Master LED lamp with M2 Louver.(with hanging arrangement)	70	Nos.	4,500		315,000/-
	e. Fluorescent Light TBS 318 with 1x36Watt TL-D lamp color 84 & electronic ballast.	16	Nos.	4,500		72,000/-
41-04E 6	Ceiling Fans Supply, installation and commissioning of 4-blades ceiling fans of following sizes, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respects, fittings shall be duly approved by Engineer.					
	a. 56" dia.	7	Nos.	4,000		28,000/-
	b. 48" dia.	49	Nos.	3,500		171,500/-
	c. 36" dia.	1	Nos.	3,500		3,500/-

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
41-04E 7	<u>Switches & Fan Dimmers</u> Supply and installation of following type gang switches of 10 Amp rating, including 16 SWG sheet steel back box recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respect, as per specifications and drawings and approval by the Engineer.					
	i) One gang - 1 Way Switch	7	Nos.	323		2,261/-
	ii) Two gang - 1 Way Switch	21	Nos.	390		8,190/-
	iii) Three gang - 1 Way Switch	9	Nos.	550		4,950/-
	iv) Four gang - 1 Way Switch	2	Nos.	600		1,200/-
	v) One gang - Fan Dimmer	7	Nos.	1100		7,700/-
	vi) Two gang - Fan Dimmer	25	Nos.	1250		31,250/-
	vii) One gang - 2 Way Switch	2	Nos.	350		700/-
41-04E 8	<u>SOCKETS</u> Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and drawings, as per approved manufacturer list and approval by the Engineer.					
	i) 10A, 2-pin universal Switch Socket outlet.	25	Nos.	630		15,750/-
	ii) 13A, 3-pin Simplex Switch Socket outlet.	32	Nos.	560		17,920/-
	iii) 13A, 3-pin Duplex Switch Socket outlet.	10	Nos.	840		8,400/-
	iv) 15A, 3-pin Round Switch Socket outlet.	6	Nos.	560		3,360/-
	v) Floor Box - Type B	16	Nos.	5,500		88,000/-
41-04E 9	<u>LOAD BREAK SWITCHES</u> Supply, installation, testing & commissioning of following size Load Break switch with MS back box including all accessories complete in all respects, as per specifications and drawings and approval by the Engineer.					
	i) 30 Amp SPN LBS	1	Nos.	3,000		3,000/-
						2,01,854/-

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-5: <u>EARTHING SYSTEM</u>					
41-04E 10	<u>Earth Electrode</u> Supply at site and installation of Copper earth electrodes, 10 feet long and 17mm dia including cost of all necessary materials, complete in all respects, as per specification.	11	Nos.	20,000		220,000/-
41-04E 11	<u>Copper Conductor</u> a) Supply, installation and connecting up of 1 x 16sqmm 1-Core Cu/PVC cable, directly buried in ground from ECP in pit to earth electrode, includes excavation, backfilling of earth, cad-welding of copper conductor to earth electrode rod at one end and provision/ fixing of cable lugs at other end, including all accessories as per the Specifications and Drawings and to the entire satisfaction and approval of the Engineer.	10	R.F.	2,000		20,000/-
	b) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable in 38mm dia PVC conduit, directly buried in ground, from Pit to ECP / MCC, as per drawing or as per the instructions of the engineer, including cost of excavation, backfilling of earth, brass nuts, bolts, washers, all necessary accessories, complete in all respects.	30	R.ft	200		6,000/-
	c) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from ECP to U-link box and from U-Link box to data patch panel, as per drawing or as per the instructions of the engineer, including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	85	R.ft	200		17,000/-
	d) Supply, installation and connections of bare copper conductor 50 mm sq. in 38mm dia PVC conduit, from building rebars / earth electrode to earth connecting point, as per drawing or as per the instructions of the engineer, including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	15	R.ft	355		5,325/-



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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	e) Supply, installation and connections of copper conductor 1x50 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from earth connecting point to distribution board, as per drawing or as per the instructions of the engineer including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	15	R.ft	355		5,325/-
41-04E 12	<u>Earth Connecting Points (ECP)</u> Supply of earth connecting points consisting of copper plate 300mm long x 50mm wide x 6mm thick to be installed as and where shown on drawings, complete with fixing arrangement, brass nuts bolts, washers, lugs, 1/2" dia. holes to facilitate connections of incoming copper strips / copper conductors and outgoing CPC.	2	Nos.	5,000		10,000/-
41-04E 13	<u>ECP (in Inspection Chamber)</u> Supply of earth connecting points in Earth pit / inspection chamber consisting of copper plate 200mm long x 50mm wide x 6mm thick with necessary holes, all fixing accessories of the copper plates on the wall of main holes, brass nuts bolts, washers, including cost of all necessary materials, complete in all respects.	2	Nos.	22,000		44,000/-
41-04E 14	<u>Earth pit / Inspection Chamber</u> Construction of Earth pit/ inspection chamber 375mm x 375mm x 450mm deep with 150mm thick wall and 330mm x 330mm heavy duty R.C.C Cover, complete in all respects, as per specification.	2	Nos.	5,000		10,000/-
41-04E 15	<u>Testing</u> Testing of the earthing system with "Earth Tester" along with other testing accessories. Testing shall be performed in the presence of the Engineer and written test result duly verified by the Engineer shall be submitted to the Client for his record.	1	Job	5,000		5,000/-
						= 332,650/-



[Handwritten Signature]
 Director
 Sindh Basic Education Program
 Gadap Town

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-6: TELEPHONE / VOICE SYSTEM					
41-04E 16	<u>Telephone / Data Network</u>					
	a) Wiring for each telephone point from Utility box to telephone point with Cat 6 UTP in 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects, as per drawing and specification.	230	R.ft	90		20,700/-
	b) Wiring for each data point from Utility box with Cat 6A UTP, to data point, including cost of 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects as per drawing and specification.	1200	R.ft	90		1,08,000/-
	c) Wiring from Utility box with Four pair Cat 6A UTP, to data patch panel, including cost of 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects as per drawing and specification.	140	R.ft	90		12,600/-
	d) Supply, Installation of following telephone / data Outlet plate including RJ-45 IOs and 16 SWG sheet steel back box recessed in wall or wall surface, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.					
	i) Simplex Outlet RJ 45	23	Nos.	750		17,250/-
	ii) Duplex Outlet RJ 45	3	Nos.	1,200		3,600/-
41-04E 17	<u>U Link Box</u>					
	Supply, Installation, testing and commissioning of Utility box, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.	1	Nos.	50,000		50,000/-
41-04E 18	<u>Patch Panel</u>					
	a) Supply and installation of following Patch Panels: complete in all respects as per the specifications and drawings and to the approval of the Engineer.					
	i) 24 Port Patch Panel	1	Nos.	28,000		28,000/-



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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
41-04E 19	<u>Telephone / Data Patch Cords</u>					
	a) Supply and connecting of telephone 2 Pair drop cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer.	5	Nos.	500		2,500/-
	b) Supply and connecting of data CAT 6A patch cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer.					
	i) 1 meter long	24	Nos.	750		18,000/-
	ii) 3 meter long	24	Nos.	1,000		24,000/-
41-04E 20	<u>Communication Rack</u>					
	Supply installation of 15U Data racks for the fixing of 12 port rack mounted 19" CAT-6A UTP Patch Panel with cable organizer including all installation accessories as per specification complete in all respect to the approval of engineer.	1	Nos.	28,000		28,000/-
41-04E 21	<u>Telephone Sets</u>					
	Supply and connection of following type of Telephone sets.					
	a) Telephone with CLI Module	2	Nos.	7,000		14,000/-
	b) Telephone without CLI Module	3	Nos.	4,000		12,000/-
						= 342,650/-
	<u>PART -7 Fire Alarm System</u>					
41-04E 22	<u>Fire Alarm System</u>					
	a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect.					
	i) Smoke detector with buzzer	8	Nos.	12,000		96,000/-
	ii) Heat detector with buzzer	4	Nos.	12,000		48,000/-
						144,000/-



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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
PART - 8 LIGHTNING PROTECTION SYSTEM						
41-04E 23	<u>Roof Conductor</u> Supply at site and installation of 50sqmm stranded bare copper conductor fixed on parapet walls or on flat surface of roof as shown on drawing or as required as per site conditions, including cost of copper saddles, copper crossing 3"x3" as shown on drawings, brass screws, all necessary fixing material / accessories, complete in all respects.	970	R.ft.	280		271,600/-
41-04E 24	<u>Down Conductor</u> a) Supply at site, installation, connections of 50mm.sq. stranded bare copper conductor in 38mm dia. PVC conduit as down conductors to be installed within the columns from air terminal on roof to building rebars, all other required accessories including cadweld, complete in all respects.	675	R.R.	300		202,500/-
41-04E 25	<u>Air terminal</u> Supply, installation and connecting up of 1 x 16mm DIA SOUND ROUND COPPER 600mm LONG AERIAL ROD as and where shown on drawings, complete with fixing arrangement, cost of all necessary materials / accessories, complete in all respects.	6	Nos.	20,000		120,000/-
41-04E 26	<u>Copper Test Link</u> Supply at site and installation of sectionable copper test link made of 200mm x 200mm uPVC enclosure with necessary holes, all fixing accessories of the copper test link to be installed on the wall of manholes, brass nuts bolts, washers, including cost of all necessary materials, complete in all respects.	8	Nos.	30,000		240,000/-
				= 834,100/-		


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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	<u>PART -9 Public Address System</u>					
41-04E 27	<u>Amplifier</u> a) Supply, installation & commissioning of following type amplifier with three outputs, three microphone inputs and one music input, complete in all respect, as per approved manufacturer list. i) 30W	3	Nos.	30,000		90,000/-
41-04E 28	<u>Speakers</u> a) Supply, installation & commissioning of 10W wall mounted speaker with all accessories complete in all respects, as per approved manufacturer list.	4	Nos.	3,000		12,000/-
41-04E 29	<u>Microphone</u> Cordless Microphone.	2	Nos.	8,000		16,000/-
41-04E 30	<u>Wiring</u> Wiring with 2 Core, 2.5 sq.mm PVC insulated and PVC sheathed Cable from Amplifier / controller to speaker and speaker to speaker in 20mm dia PVC conduit complete in all respects upto maximum (15 Nos speaker) as shown in riser diagram.	180	R.R.	90		16,200/-
						= 134,200/-

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -10 EXTERNAL AREA LIGHTING					
41-04E31	LIGHT FIXTURES Supply, installation, testing and commissioning of following light fittings, wall mounted arrangement made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, as per approved manufacturer, fittings shall be duly approved by Architect / Engineer.					
	a) Bulkhead light fixture mounted on wall with 1x18Watt PLC lamp.	10	Nos.	3,500		35,000/-
	b) Britlite or equivalent Bollard Light Fixture in die cast aluminum body powder coated suitable for walkways with 1x18WATT PLC LAMP IP-67.	10	Nos.	15,000		150,000/-
41-04E32	Wiring & Conduiting					
	a) Circuit Wiring and conduiting from DB to first light point with 1 x 4 sq.mm 3 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables for external lighting, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	6	Nos.	5,000		30,000/-
	b) Same as item (h) but wiring from light point to light point.	14	Nos.	3,000		42,000/-
						257,000/-

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -11 MISCELLANEOUS WORKS					
41-04E 33	<u>Cable TV System</u>					
	a) Supply, installation, testing and commissioning of RG-6 co-axial cable wiring for Cable TV system from U-link Box to TV outlet complete in all respects, as per the specifications and drawings and approval by the Engineer.	90	Rft.	90		8100/-
	b) <u>Outlets</u>					
	Supply, installation testing and commissioning of cable TV outlet along with 16 SWG back box having earth terminals and 2 coats of anti-rust paint, complete in all respects, as per the specifications and drawings and approval by the Engineer.	2	Nos.	2000		4000/-
41-04E 34	<u>Manholes</u>					
	Construction of water tight concrete handhole / cable chamber with Heavy duty RCC cover with lifting hooks and these words "ELECTRICAL CABLES" written with paint on cover. Complete in all respect as per drawing and specification. Sizes of Manhole are as under:					
	i) 1'-6" x 1'-6" x 2'-6" deep	6	Nos.	10000		60000/-
41-04E 35	<u>Utility / PTCL Connection</u>					
	a) Supply and co-ordination for the utility connection from Utility as per required electrical load demand. The utility connection charges shall be paid separately as per actual on submission of receipt.	1	Job	50000		50000/-
	b) Supply and co-ordination for the telephone connection from PTCL as per required demand. The telephone connection charges shall be paid separately as per actual on submission of receipt.	1	Job	50000		50000/-
						132100/-

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -12 SOLAR ROOM ELECTRIFICATION WORKS					
41-04E 36	LIGHT FIXTURES Supply, installation, testing and commissioning of following light fittings, ceiling / wall mounted made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complet					
	a) Fluorescent Light TCW098 with 1x36Watt TL-D lamp color 84 & electronic ballast (IP65).	2	Nos.	7,000		14,000/-
	b) Fluorescent Light TMS 015 with 1x36Watt TL-D lamp color 84 & electronic ballast.	3	Nos.	5,000		15,000/-
41-04E 37	Switches & Fan Dimmers Supply and installation of following type gang switches of 10 Amp rating, including 16 SWG sheet steel back box recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respect, as per specifications and drawings and approval					
	i) Four gang - 1 Way Switch	1	Nos.	800		800/-
41-04E 38	SOCKETS Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and dr					
	i) 13A, 3-pin Duplex Switch Socket outlet.	1	Nos.	1,500		1,500/-
41-04E 39	Fire Alarm System a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect.					
	i) Heat detector with buzzer	1	Nos.	12,000		12,000/-



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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
41-04E 40	<u>Circuit Wiring & Conduiting</u>					
	a) Circuit Wiring and conduiting from DB to switch with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	1	Nos.	3,000		3,000/-
	b) Same as item (a) but wiring from switch to switch with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit.	1	Nos.	2,500		2,500/-
	c) Same as item (b) but wiring from switch to first light point	4	Nos.	2,000		8,000/-
	d) Same as item (b) but wiring from light point to light point.	1	Nos.	1,800		1,800/-
CARRIED FORWARD TO SUMMARY						58,600/-
GRAND TOTAL						1,13,591/-

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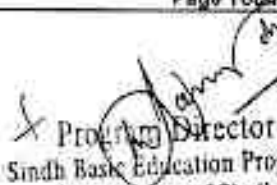
Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	PILUMBING WORKS (BUILDING)					
	PLUMBING FIXTURES					
	Supply and installation of plumbing fixtures & faucets complete in all respects including all accessories, support, hangers, etc. ready to use as per specifications, drawings and instructions of Consultant.					
01-05P1	European style coupled water closet with seat cover, flush tank C.P. (chrome plated) connector, thimble, etc. a. Type - EWC	5	No.	20000		50,000/-
01-05P2	Asian style water closet Orissa type with flush tank C.P. (chrome plated) connector, uPVC Class "E" flush pipe, thimble, P-Trap, etc.	8	No.	2500		20,000/-
01-05P3	Urinal wall hung type with automatic 1/2" size flush valve, CP trap, waste, connector and fixing accessories.		No.	5000		
01-05P4	Wash basin (WB) including C.P. P-trap/Bottle Trap, stop cocks, etc. i. Type - WB - V (Vanity)	11	No.	12,300		135,300/-
01-05P5	Wash basin hot and cold water mixer, waste, etc for following. i. Type - WB - V (Vanity)		No.	4000		
01-05P6	Toilet Hand Shower with flexible chain & telephone type shower including toe stop cock etc. complete in all respect. Type - TS	13	No.	1800		23,400/-
01-05P7	Stainless steel lab. sink including stop cocks, P-trap, Bottle trap, waste pipe etc complete in all respects. SK - 1, 36" x 20" single bowl and single drainer.	2	No.	4,850		9,700/-
01-05P8	Sink hot and cold water mixer, etc, for following. a. For SK-1		No.	28,000		
01-05P9	S-S Grease Trap 7.5 Kg. capacity, inlet/outlet 2" Dia connections.		No.	45,000		
01-05P10	Toilet accessories complete set. (Imported make)					
	i. Soap dispenser	5	No.	1,200		6,000/-
	ii. Toilet paper holder	13	No.	1,500		19,500/-
	iii. Coat Hook	5	No.	5,000		25,000/-
	iv. Mirror 5mm (Belgium)	120	SR	100		12,000/-
	v. Paper Rack	5	No.	800		4,000/-
Page Total						302,300/-

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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
<u>Plumbing Water Supply</u>						
01-05P11	Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for water supply as per DIN 8077-8078 for pipes and DIN 16962 PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes complete in all respects.					
	i) 3/4" internal dia (20 mm outer dia)	50	Rft.	155		7,750/-
	ii) 5/8" internal dia (32 mm outer dia)	350	Rft.	200		70,000/-
	iii) 1" internal dia (40 mm outer dia)	520	Rft.	230		119,600/-
	iv) 1 1/2" internal dia (50 mm outer dia)	135	Rft.	350		47,250/-
	v) 1 1/2" internal dia (63 mm outer dia)	205	Rft.	450		92,250/-
	vi) 2" internal dia (75 mm outer dia)		Rft.	2,500		
	vii) 2 1/2" internal dia (90 mm outer dia)		Rft.	3,000		
01-05P12	Providing and installing gate/ball valves, Kitz or approved equivalent make, including jointing, fitting, painting, testing; complete in all respects to match with following PPRC pipe diameters.					
	i) 3/4" internal dia (32 mm outer dia)	2	No	8,000		16,000/-
	ii) 1" internal dia (40 mm outer dia)	4	No	7,750		39,000/-
	iii) 1 1/2" internal dia (50 mm outer dia)	3	No	13,450		40,350/-
	iv) 1 1/2" internal dia (63 mm outer dia)	2	No	21,650		43,300/-
	v) 2" internal dia (75 mm outer dia)		No	40,000		
	vi) 2 1/2" internal dia (90 mm outer dia)		No	125,000		
Page Total						425,500/-


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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
<u>Plumbing Sewerage</u>						
01-05P13	Providing, fixing, cutting, joining and testing uPVC piping conforming to BS-4514 and BS 5255 including uPVC fittings with solvent cement jointing, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter:					
	2" dia	105	Rft.	228		23,940/-
	3" dia		Rft.	800		
	4" dia	440	Rft.	876		385,440/-
	5" dia	110	Rft.	1328		146,080/-
01-05P14	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.	49	No.	2150		105,350/-
01-05P15	Construction of rectangular brick masonry manhole of following sizes for sewer complete with plastering from internal and external side; PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, tungs, complete as per drawings.					
01-05P16	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.	4	No.	3,800		15,200/-
01-05P17	Providing and fixing Clean Out complete in all respects	8	No.	24,450		195,600/-
<u>Water Cooler</u>						
01-05P18	Providing and fixing drinking water cooler of capacity 60 gallons per hour including all accessories and making connections to water supply and drainage systems complete in all respects as per details in specifications	4	No.	38,500		154,000/-
Page Total						941,610/-

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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
EXTERNAL DEVELOPMENT						
Septic Tank						
01-05P19	Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with 'B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer.	15	Rft.	1200		18,000/-
	6" wd (150 mm)	5	Nos	500		2,500/-
	4" dia, pipe sleeves in walls	2	Nos	800		1,600/-
Soakage Pit						
01-05P20	Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with 'B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer.	5	Rft.	1200		6,000/-
Ground Water Storage Tank						
01-05P21	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipe (Heavy Quality) of B.S.S. 1387-1967 complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer.	5	Rft	450		2,250/-
	i) 1/2" dia	5	Rft	1300		6,500/-
	ii) 1 1/2" dia	2	Nos	400		800/-
	iii) 2" dia, pipe sleeves, 8" long					
Overhead Water Storage Tank						
01-05P22A	Vent Pipe 4" dia as per drawing and specifications for U.G.W.Tank, O.H.W.Tank complete in all respects, puddle flange, specials as per drawing or directed by the Engineer.	4	Nos	2,500		10,000/-
01-05P22B	Providing, laying, cutting, jointing, testing and disinfecting brass pipe sleeves/ connection pie with puddle including coupler (Heavy Quality) of approved as per B.S.S coads complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer.	2	Nos	1500		3,000/-
	i) 1 1/2" dia, pipe sleeves, 10" long	3	Nos	2,000		6,000/-
	ii) 2 1/2" dia, pipe sleeves, 10" long					
Kanchan Arsenic Filter						
Filter Material:						
01-05P23	Providing & laying gravel, including screening and washing as per drawing or directed by the Engineer.	21	Cft	38		798/-
	Gravel size 8 mm to 15 mm.					
01-05P24	Providing & laying coarse sand, including screening and washing as per drawing or directed by the Engineer.	42	Cft	45		1,890/-
01-05P25	Providing & laying fine sand, including screening and washing as per drawing or directed by the Engineer.	42	Sq.ft.	125		5,250/-
01-05P26	Providing & fixing M.S sheet 1/4" thick, 1/8" Dia hole 2 inch o/c (Diffuser Plate), as per drawing or directed by the Engineer.	37	Sq.ft.	108		3,996/-



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P27	Providing & laying Dry rammed brick ballast 1-1/2" to 2" (40mm to 50mm) gauge, including screening and washing as per drawing or directed by the Engineer.	9	Ct	55		495/-
01-05P28	Providing & laying iron nails with out coating (1" thick layer) as per drawing or directed by the Engineer.	125	Kg	132		16500/-
01-05P29	Providing & fixing cover over Kanchan Filter of PVC sheet 1/2" thick, as per drawing or directed by the Engineer.	32	Sq.ft.	550		17600/-
01-05P30	Providing, laying, cutting, jointing, testing and disinfecting PPRC pipe including plastic shower heads with all fittings complete in all respects as per drawing or directed by the Engineer. i) 1/2" internal dia (32 mm outer dia)	23	Rft.	470		10810/-
01-05P31	Providing and fixing Plastic Shower Heads	9	Nos	220		1980/-
Tube Well / Pneumatic Pump						
01-05P32	Boring for tubewell in all types of soil except shingle and rock, from ground level to 100 ft (30m) Depth, including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. i) 8" id (200mm)	100	Rft.	3500		350000/-
01-05P33	Boring for tubewell in all types of soil except shingle and rock, from a depth of 100 ft to 200ft (30 to 60 m) below ground level, including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. i) 8" id (200mm)	50	Rft.	3,500		175,000/-
01-05P34	Providing and installing P.V.C. ball End plug B.S.S. class 'D', in tubewell bore hole, complete in all respect and as directed by the Engineer. i) 2" id (100mm)	1	Each.	1200		1200/-
01-05P35	Providing and installing P.V.C. blind pipe B.S.S. Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer, etc, complete in all respect and as directed by the Engineer. i) 1" id(25mm) ii) 1-1/4" id(30mm) iii) 2" id(50mm)	150	Rft.	450		67500/-
		40	Rft.	1000		40000/-
		40	Rft.	1250		50000/-
01-05P36	Providing and installing P.V.C. strainer B.S.S. Class 'D' in tubewell bore hole, including sockets and solvents; etc, complete in all respect and as directed by the Engineer. i) 2" id(50mm)	40	Rft.	425		17000/-
01-05P30	Providing and installing P.V.C. blind pipe B.S.S. Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer, complete in all respect and as directed by the Engineer. i) 4" id (100mm)	60	Rft.	595		35700/-



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P37	Testing and developing of bore hole, complete in all respect and as directed by the Engineer.	3	Per Hr.	2000		6000
01-05P38	Shrouding with graded pea gravel 3/8" to 1/8" around tubewell in bore hole, complete in all respect and as directed by the Engineer.	45	Cft.	1000		45000
01-05P39	Providing/fixing injector valve as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	Each.	85250		85250
01-05P40	Providing/fixing P.V.C. Cup/Cover as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	No.	300		300
01-05P41	Providing/fixing Pneumatic Pump (having 4 impellers, capable to carry a discharge of 400 gals/hr against 90 ft head and 3 HP Motor), complete in all respect and as directed by the Engineer <u>EXTERNAL PIPING</u> <u>Plumbing Water Supply</u>	1	Set	10000		10000
01-05P42	Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for water supply as per DIN 8077-8078 for pipes and DIN 16962 PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects:					
	i) 1/2" internal dia (20 mm outer dia)		Rft.	220		
	ii) 3/4" internal dia (32 mm outer dia)	30	Rft.	308		9240
	iii) 1" internal dia (40 mm outer dia)	150	Rft.	230		34500
	iv) 1 1/2" internal dia (50 mm outer dia)	130	Rft.	350		45500
	v) 1 1/2" internal dia (63 mm outer dia)	13	Rft.	450		5850
	vi) 2" internal dia (75 mm outer dia)		Rft.	3000		
	vii) 2 1/2" internal dia (90 mm outer dia)		Rft.	3000		
01-05P43	Providing and installing gate/ball valves, Kitz or approved equivalent make, including jointing, fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters.					
	i) 3/4" internal dia (32 mm outer dia)	2	No.	8000		16000
	ii) 1" internal dia (40 mm outer dia)	4	No.	9250		37000
	iii) 1 1/2" internal dia (50 mm outer dia)	3	No.	12250		36750
	iv) 1 1/2" internal dia (63 mm outer dia)	0	No.			
	v) 2" internal dia (75 mm outer dia)		No.			
	vi) 2 1/2" internal dia (90 mm outer dia)		No.			



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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
<u>Plumbing Sewerage</u>						
01-05P44	Providing, fixing, cutting, jointing and testing uPVC piping conforming to BS-4514 and BS-5255 including uPVC fittings with solvent cement jointing, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter:					
	2" dia		Rft	500		
	3" dia		Rft	800		
	4" dia	32	Rft	675		21600
	6" dia	430	Rft	1250		53750
01-05P45	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.		No	3000		
01-05P46	Construction of rectangular brick masonry manhole of 2'x2' for sewer complete with plastering from internal and external side, PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, rungs, complete as per drawings.		No	20000		
01-05P47	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.		No	15000		
01-05P48	Providing and fixing Clean Out, complete in all respects		No	15000		
<u>Water Supply Pump For GST</u>						
01-05P49	Supply at site, installation, testing and commissioning of water supply reciprocating pump with 2HP motor as per specification complete in all respect.	2	No	50000		100000
Page Total						252600
G-Total C/o to Summary						

G-Total for Plumbing works = 3555431/-

Project Director
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Government of Sindh



3 - DAYWORK SCHEDULE



BILL OF QUANTITIES

Daywork Schedule

General

1. Reference is made to Sub-Clause 13.6 of the General Conditions of Contract. Work shall not be executed on a day work basis except by written order of the Engineer. Bidders shall enter basic rates for Day work items in the Schedules, which rates shall apply to any quantity of Daywork ordered by the Engineer. Nominal quantities have been indicated against each item of Day work, and the extended total for Day work shall be carried forward to the Bid Price.

Daywork Labour

2. In calculating payments due to the Contractor for the execution of Day work, the actual time of classes of labour directly doing the Day work ordered by the Engineer and for which they are competent to perform will be measured excluding meal breaks and rest periods. The time of gangers (charge hands) actually doing work with the gang will also be measured but not the time of foreman or other supervisory personnel.
3. The Contractor shall be entitled to payment in respect of the total time that labour is employed on Daywork, calculated at the basic rates entered by him in the Schedule of Day work Rates for labour together with an additional percentage, payment on basic rates representing the Contractor's profit, overheads, etc., as described below:
- a) the basic rates for labour shall cover all direct costs to the Contractor, including (but not limited to) the amount of wages paid to such labour, transportation time, overtime, subsistence allowances and any sums paid to or on behalf of such labour for social benefits in accordance with Pakistan law. The basic rates will be payable in local currency only; and
 - b) the additional percentage payment to be quoted by the Bidder and applied to costs incurred under (a) above shall be deemed to cover the Contractor's profit, overheads, superintendence, liabilities and insurances and allowances to labour timekeeping and clerical and office work; the use of consumable stores, water, lighting and power; the use and repair of stagings, scaffolding, workshops and stores; portable power tools, manual plant and tools; supervision by the Contractor's staff, foremen and other supervisory personnel; and charges incidental to the foregoing.



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Appendix-D to Bid

SCHEDULE OF DAYWORK RATES

I. Labour

Item No.	Description	Unit	Nominal Quantity	Rate (Rs) in Figure	Rate (Rs) in Words	Extended Amount (Rs.)
1	2	3	4	5	6	7
D101	Ganger	Hr	100	50		5,000
D102	Labourer	Hr	1,000	62.5		62,500
D103	Brick layer	Hr	100	100		10,000
D104	Mason	Hr	100	100		10,000
D105	Carpenter	Hr	100	100		10,000
D106	Steel work Erector	Hr	100	125		12,500
	— etc —	Hr	100	62.50		6,250
D113	Driver for vehicle up to 10 tons	Hr	500	70		35,000
D114	Operator for excavator, dragline, shovel or crane	Hr	100	83		8,300
D115	Operator for tractor, (tracked) with dozer blade or ripper	Hr	100	83		8,300
D122	Sub Total					217,650
	Allow _____ percent of subtotal for Contractor's overhead, profit, etc. in accordance with Paragraph 3(b) of Daywork Schedule					
	Total for Daywork: Labour : _____					
	(Carried forward to Daywork Summary)					

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Appendix-D to Bid

Daywork Material

4. The Contractor shall be entitled to payment in respect of materials used for Day work (except for materials for which the cost is included in the percentage addition to labour costs as detailed heretofore), at the basic rates entered by him in the Schedule of Day work Rates for materials together with an additional percentage payment on the basic rates to cover overhead charges and profit, as follows:
- a) the basic rates for materials shall be calculated on the basis of the invoiced price, freight, insurance, handling expenses, damage, losses, etc., and shall provide for delivery to store for stockpiling at the site. The basic rates shall be stated in local currency but payment will be made in the currency or currencies expended upon presentation of supporting documentation;
 - b) the additional percentage payment shall be quoted by the Bidder and applied to the equivalent local currency payments made under Sub-Para(a) above; and
 - c) the cost of hauling materials used on work ordered to be carried out as Daywork from the store or stockpile on the site to the place where it is to be used will be paid in accordance with the terms for Labour and Constructional Plant in this Schedule.


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Appendix-D to Bid

SCHEDULE OF DAYWORK RATES

II. Materials

Item No.	Description	Unit	Nominal Quantity	Rate (Rs) in Figure	Rate (Rs) in Words	Extended Amount (Rs.)
1	2	3	4	5	6	7
D201	Cement, ordinary Portland or equivalent in bags	M.Ton	50	22000		1100000
D202	Mild Steel reinforcing bar upto 16mm diameter to BS 4449 or equivalent	M.Ton	50	18000		900000
D203	Fine aggregate for concrete as specified.	Cu.M	200	12000		2400000
D223				Sub Total		= 4,440,000
	Allow _____ percent of subtotal for Contractor's overhead, profit, etc., in accordance with Paragraph 4(b) of Daywork Schedule					
	Total for Daywork: Materials					
	(Carried forward to Daywork Summary)					



 Program Director
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Appendix-D to Bid

Daywork Constructional Plant

5. ~~The~~ Contractor shall be entitled to payments in respect of constructional plant already on Site and employed on Daywork at the basic rental rates entered by him in the Schedule of Daywork Rates for constructional plant. The said rates shall be deemed to include complete allowance for depreciation, interest, indemnity and insurance, repairs, maintenance, supplies, fuel, lubricants, and other consumables, and all overhead, profit and administrative costs related to the use of such equipment. The cost of drivers, operators and assistants will be paid for separately as described under the section on Daywork Labour.
6. In calculating the payment due to the Contractor for constructional plant employed on Daywork, only the actual number of working hours will be eligible for payment, except that where applicable and agreed with the Engineer, the travelling time from the part of the Site where the constructional plant was located when ordered by the Engineer to be employed on Daywork and the time for return journey thereto shall be included for payment.
7. The basic rental rates for constructional plant employed on Daywork shall be stated in Pakistani Rupees.


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Appendix-D to Bid

SCHEDULE OF DAYWORK RATES

III. Constructional Plant

Item No.	Description	Unit	Nominal Quantity	Rate (Rs.) in Figure	Rate Rs.) in Words	Extended Amount (Rs.)
1	2	3	4		5	6
D301	Excavator, face shovel or dragline:					
	1. Up-to and including 1 Cu. M.	Hr	100	250/=		25,000/-
	2. Over 1 Cu. M to 2 Cu. M.	Hr	100	312/=		31,200/-
	3. Over 2 Cu. M	Hr	50	312/=		15,600/-
D302	Tractor (tracked) including bull or angle dozer:					
	1. Up-to and including 150 HP	Hr	100	187/=		18,700/-
	2. Over 150 to 200 HP	Hr	100	200/=		20,000/-
	3. Over 200 to 250 HP	Hr	50	225/=		11,250
D303	Tractor with ripper:					
	1. Up-to and including 200 HP	Hr	100	325/=		32,500/-
	2. Over 200 to 250 HP	Hr	50	400/=		20,000/-
D304	-----etc-----					174,250/-
	Total for Daywork: Constructional Plant (Carried forward to Daywork Summary)					

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Appendix-D to Bid

DAYWORK

Summary (Daywork)

	Amount (Rs.)
(i) Total for Daywork: Labour	<u>119,850.00</u>
(ii) Total for Daywork : Materials	<u>1,21,000.00</u>
(iii) Total for Daywork: Constructional Plant	<u>12,250.00</u>
Total for Daywork (Carried forward to Summary Page of Bill of Quantities)	<u>2,53,100.00</u>

[Signature]
 Program Director
 State Basic Education Program
 Government of Sindh



4-SUMMARY OF COST



SINDH BASIC EDUCATION PROGRAM
CONSTRUCTION OF NEW SCHOOLS AND UPGRADATION OF EXISTING SCHOOLS
 Package- 05: Karachi City - Bin Qasim & Gadap Towns
SUMMARY OF COST

S.No.	Items	General	Civil	Electrical	Plumbing	External Development	Grand Total
		Amount (PKR)	Amount (PKR)	Amount (PKR)	Amount (PKR)	Amount (PKR)	(PKR)
1	GBPS SINDHI JAMAAT CO-OPERATIVE HOUSING SOCIETY Bin Qasim Town	1534495	5724781	5125060	391978	1461661	82443893
2	GBSS CATTLE COLONY Bin Qasim Town	1518105	5353960	5035022	3789781	7125653	70999377
3	GBES WARIO GABOLE GOTH Gadap Town	2188935	5348961	5438367	391978	11395328	75882412
4	GBSS YOUSUF GOTH Gadap Town	1532935	4100724	4578592	391978	9672687	60206407
5	GBHS DUMBA VILLAGE Gadap Town	1465505	3839324	4313500	2331421	675674	55185439
Sub Total of School Buildings							344717510
12 DAY WORK							4956100
Total Bid Price (Rs.)							349673610

Subtotal of School Buildings = 344717510/-
 Rebate (6.6%) = (-) 22751356/-
 Net Amount after Rebate = 321966154/-
 Add Day Work = 4956100/-
 Final Bid Price = 326922254/-

Sub Total of School Buildings = 344717510/-
 Day Work = 4956100/-
 Total Bid Price (RS) = 349673610/-



16/10

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ANNEXURE-1

BOREHOLE PLANS & LOGS





[Signature]
Program Director
Sindh Basic Education Program
Government of Sindh



BOREHOLE LOGS





Soil Testing Services

SUBSURFACE EXPLORATION LOG

Start date : 04.02.2014	Casing diameter:	BOREHOLE No. BH-1
End date : 04.02.2014	N/A	
Drilling method : Rotary	Borehole diameter:	4-inch
		Coordinates : E : - N : -
		Ground Level : 2-ft below road level
		Groundwater level : 4-ft

Date and time	Casing Depth (ft)	Depth to water (ft)	Sample details			Rock Core		Description of strata	Depth (thickness) (ft)	CR% / SPT Graph	Legend
			Depth (ft) from to	Type	No.	Blows / N	RQD %				
				Drive (mm) / UDC							
			0.00								
			3.00	SPT	1	14	450				
			6.00	SPT	2	11	450				
			9.00								
			12.00								
			15.00	SPT	5	100	200				
			18.00								
			21.00	SPT	6	100	200				
			24.00								
			27.00								
			30.00	SPT	8	100	200				

Remarks:
 SPT : Standard Penetration Test
 CR : Core Recovery
 RQD : Rock Quality Designation

Logged by Aqil Shah
 Compiled by S. Altaf Hussain
 Checked by M. Abid Azhar

Project : Geotechnical Investigation for GBPS Sindhi Muslim Jamal Cooperative Housing Society, Bin Qasim Town, Karachi

Project No. K14-1009-101

Sheet No. 1 of 1



Project Director
 Sindh Data Acquisition Program
 Government of Sindh



Soil Testing Services

SUBSURFACE EXPLORATION LOG

Start date : 11.02.2014	Casing diameter:	BOREHOLE No. BH-2
End date : 11.02.2014	N/A	Coordinates :
Drilling method : Rotary	Borehole diameter:	4-inch
		Ground Level : 2-ft below road level
		Groundwater level : 4-ft

Date and time	Casing Depth (ft)	Depth to water (ft)	Sample details				Rock Core		Description of strata	Depth (thickness) (ft)	CR% / SPT Graph	Legend
			SPT		CR %	RQD %						
			Depth (ft) from to	Type	No.	Blows / N	Drive (mm) / UDC					
		▽	0.00					Ground Surface				
		GWL @ 4-ft	3.00	SPT	1	18	450	SAND Yellowish brown, medium dense, silty fine to coarse SAND, embedded with clay.				
			6.00	SPT	2	14	450	SILT Reddish & yellowish brown, stiff to very stiff, clayey SILT/silty shale				
				SPT	3	18	450					
			9.00									
			15.00	SPT	5	45	450	SAND Yellowish brown, dense, silty fine to coarse SAND, traces of clay				
			21.00	SPT	6	100	200	CLAY Yellowish brown, hard, CLAYEY silty/sandy silty shale				
			24.00	SPT	7	100	200					
			27.00									
			30.00	SPT	8	100	200	Bottom of BH-2 at 30-feet.				

Remarks: SPT : Standard Penetration Test CR : Core Recovery RQD : Rock Quality Designation	Logged by Aqil Shah Compiled by S. Altaf Hussain Checked by M. Abid Azhar
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Project : Geotechnical Investigation for GBPS Sindhi Muslim Jamat Cooperative Housing Society, Bin Qasim Town, Karachi	Project No. K14-1009-101 Sheet No. 1 of 1
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Director
 Sindh Home Education Program
 Government of Sindh



Soil Testing Services

SUBSURFACE EXPLORATION LOG

Start date : 07.02.2014	Casing diameter:	BOREHOLE No. BH-3
End date : 10.02.2014	N/A	Coordinates :
Drilling method : Rotary	Borehole diameter: 4-inch	E :-
		N :-
		Ground Level : 2-ft below road level
		Groundwater level : 4-ft

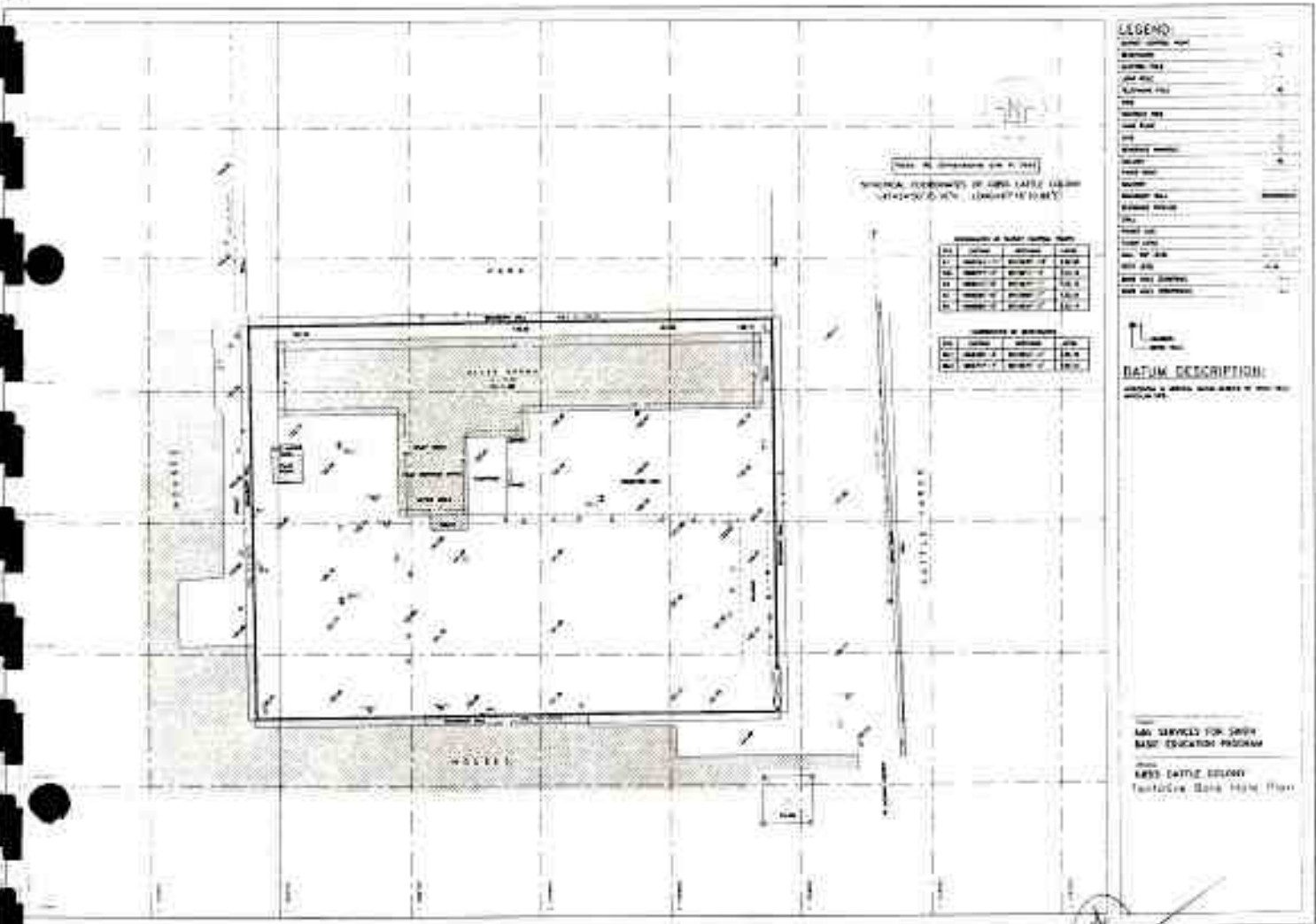
Date and time	Casing Depth (ft)	Depth to water (ft)	Sample details				Rock Core		Description of strata	Depth (thickness) (ft)	CR% / SPT Graph	Legend	
			Depth (ft) from to	Type	No.	Blows / N	Drive (mm) / UDC	CR %					RQD %
		▽	0.00					Ground Surface					
		▽	3.00	SPT	1		24	450	SAND Yellowish brown, medium dense, clayey silty fine to coarse SAND				
		▽	6.00	SPT	2		29	450	CLAY Yellowish brown, very stiff, CLAYEY silty/sandy silty shale				
		▽	9.00	SPT	3		17	450					
		▽	12.00	SPT	4		30	450					
		▽	15.00	SPT	5		100	200	SAND Reddish & yellowish brown, very dense, silty fine to coarse SAND, traces of some clay.				
		▽	18.00						CLAY Yellowish brown, hard, CLAYEY silty sandy silty shale				
		▽	21.00	SPT	6		100	200					
		▽	24.00	SPT	7		100	260					
		▽	27.00						Bottom of BH-3 at 30-feet				
		▽	30.00	SPT	8		35	450					

Remarks: SPT : Standard Penetration Test CR : Core Recovery RQD : Rock Quality Designation	Logged by Aqil Shah Compiled by S. Altaf Hussain Checked by M. Abid Azhar
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Project : Geotechnical Investigation for GBPS Sindhi Muslim Jamat Cooperative Housing Society, Bin Qasim Town, Karachi	Project No. K14-1006-101 Sheet No. 1 of 1
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Director
 Sindh Bureau of Soil Testing and Investigation
 Government of Sindh



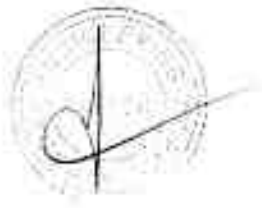
LEGEND

WALL	---
DOOR	---
WINDOW	---
CEILING	---
FLOOR	---
ROOF	---
...	---

DATUM DESCRIPTION:
 DATUM IS 1985 B.S. MEAN SEA LEVEL OF THE ISLAND.

ASB SERVICES FOR 2004
 BASED EDUCATION PROGRAM
 1855 LITTLE ISLAND
 First/2nd/3rd/4th Floor


 Prof. J. J. J. J.
 Prof. J. J. J. J.
 Prof. J. J. J. J.
 Government of Sindh



BOREHOLE LOGS





Soil Testing Services

SUBSURFACE EXPLORATION LOG

Start date : 13.02.2014	Casing diameter:	BOREHOLE No. BH-1
End date : 13.02.2014	N/A	
Drilling method : Rotary	Borehole diameter: 4-inch	Coordinates : E : - N : -
		Ground Level : Equal to road level
		Groundwater level : N/E

Date and time	Casing Depth (ft)	Depth to water (ft)	Sample details				Rock Core		Description of strata	Depth (thickness) (ft)	CR% / SPT Graph	Legend	
			Depth (ft) from to	Type	No.	Blows / N	Drive (mm) / UDC	CR %					RQD %
								SPT					
			0.00										
			3.00	SPT	1	14	450						
			5.00	SPT	2	18	450						
			9.00	SPT	3	20	450						
			12.00	SPT	4	32	450						
	N/A		15.00	SPT	5	44	200						
			18.00										
			21.00	SPT	6	100	300						
			24.00	SPT	7	100	250						
			27.00										
			30.00	SPT	8	100	200						

Remarks:
 SPT : Standard Penetration Test
 CR : Core Recovery
 RQD : Rock Quality Designation

Logged by Aqil Shah
 Compiled by S. Altaf Hussain
 Checked by M. Abid Azher

Project : Geotechnical Investigation for GBSS Caitia Colony Bin Qasim Town, Karachi

Project No. K14-1009-101

Sheet No. 1 of 1



Program Director
 Soil Bank Education Program
 Government of Sindh



Soil Testing Services

SUBSURFACE EXPLORATION LOG

Start date : 12.02.2014	Casing diameter:	BOREHOLE No. BH-2
End date : 12.02.2014	N/A	Coordinates :
Drilling method : Rotary	Borehole diameter:	4-inch
		Ground Level : Equal to road level
		Groundwater level : N/E

Date and time	Casing Depth (ft)	Depth to water (ft)	Sample details				Rock Core		Description of strata	Depth (thickness) (ft)	CR% / SPT Graph	Legend	
			Depth (ft) from to	Type	No.	Blows / N	Drive (mm) / UDC	CR %					RQD %
	N/A		0.00					Ground Surface					
			3.00	SPT	1		8	450					
			6.00	SPT	2		7	450					
			9.00	SPT	3		11	450					
			12.00	SPT	4		18	450					
			15.00	SPT	5		22	450					
			18.00										
			21.00	SPT	6		35	450					
			24.00										
			27.00	SPT	7		38	450					
			30.00	SPT	8		48	450					
Bottom of BH-2 at 30-feet													

Remarks :
 SPT : Standard Penetration Test
 CR : Core Recovery
 RQD : Rock Quality Designation

Logged by Aqil Shah
 Compiled by S. Altaf Hussain
 Checked by M. Abid Azhar

Project : : Geotechnical Investigation for GBSS Cattle Colony
 Bin Qasim Town, Karachi

Project No. K14-1009-101
 Sheet No. 1 of 1



Director
 Soil Testing Services Program
 Government of Sindh



Soil Testing Services

SUBSURFACE EXPLORATION LOG

Start date : 13.02.2014	Casing diameter:	BOREHOLE No. BH-3
End date : 13.02.2014	N/A	
Drilling method : Rotary	Borehole diameter:	4-inch
		Coordinates : E :- N :-
		Ground Level : Equal to road level
		Groundwater level : N/E

Date and time	Casing Depth (ft)	Depth to water (ft)	Sample details:				Rock Core		Description of strata	Depth (thickness) (ft)	CR% / SPT Graph	Legend
			SPT		CR %	RQD %						
			Depth (ft) from to	Type	No.	Blows / N	Drive (mm) / UDC					
			0.00					Ground Surface				
			3.00	SPT	1	12	450	SAND Yellowish brown, medium dense, silty fine to coarse SAND				
			6.00	SPT	2	11	450					
				SPT	3	24	450	SAND Brown, medium dense to very dense, silty fine SAND, traces of clay				
			9.00									
				SPT	4	26	450					
			12.00									
	N/A		15.00	SPT	5	34	450	SAND Brown, medium dense to very dense, silty fine SAND, traces of clay				
			18.00									
			21.00	SPT	6	32	450					
			24.00									
				SPT	7	100	250					
			27.00									
			30.00	SPT	8	100	200	Bottom of BH-3 at 30-feet				

Remarks:
 SPT : Standard Penetration Test
 CR : Core Recovery
 RQD : Rock Quality Designation

Logged by Aqil Shah
 Compiled by S. Aitaf Hussain
 Checked by M. Abid Azhar

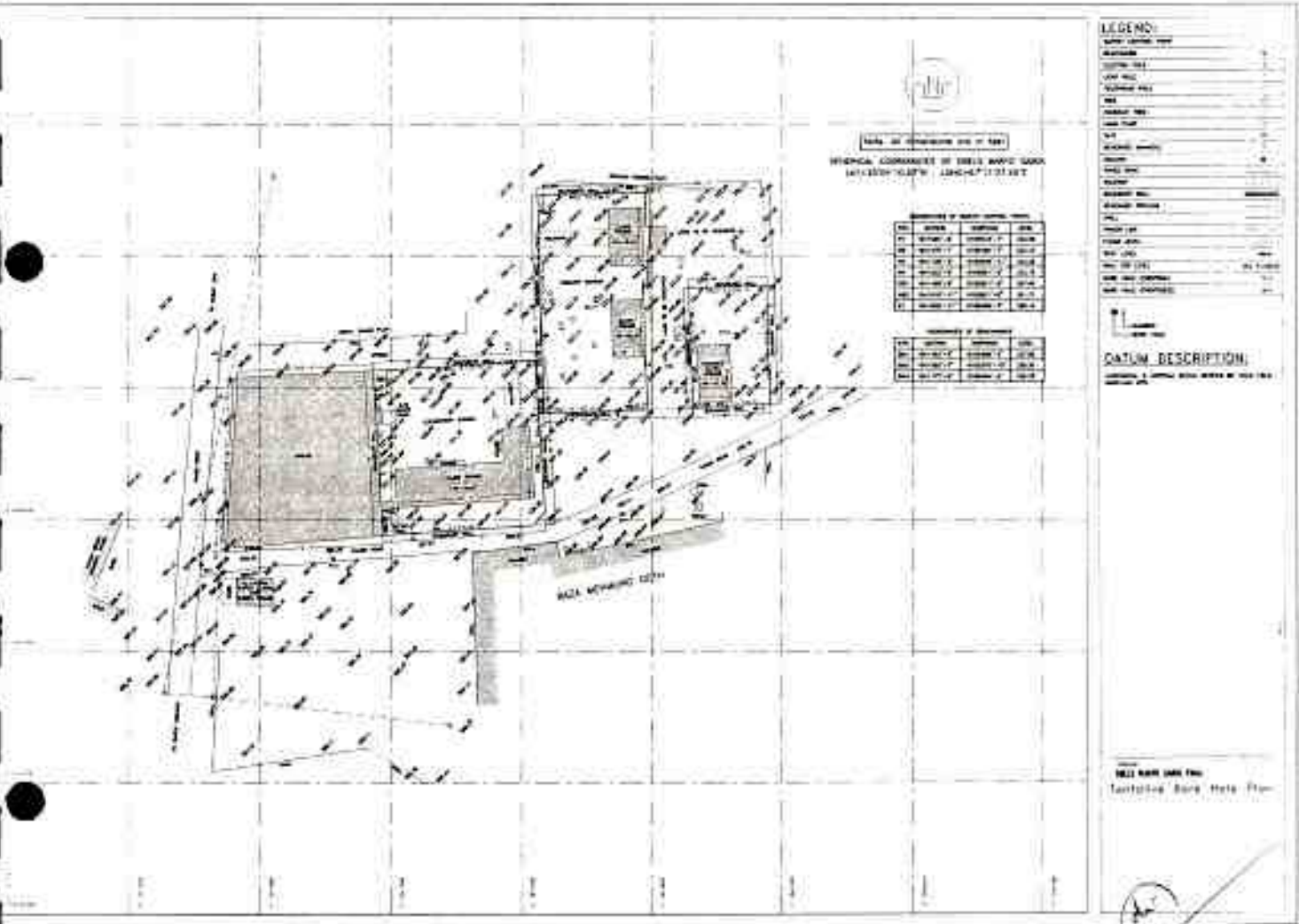
Project : Geotechnical Investigation for GBSS Cattle Colony Bin Qasim Town, Karachi

Project No. K14-1009-104

Sheet No. 1 of 1



Soil Testing Services
 Government of Sindh




 GOVERNMENT OF SINDH
 MEDICAL COMMISSIONER OF SINDH
 141-A, KARACHI ROAD, KARACHI-75100

DIMENSIONS OF MAIN FLOOR ROOMS

NO.	ROOM	LENGTH	BREADTH	AREA
01	OFFICE	3.00	2.00	6.00
02	OFFICE	3.00	2.00	6.00
03	OFFICE	3.00	2.00	6.00
04	OFFICE	3.00	2.00	6.00
05	OFFICE	3.00	2.00	6.00
06	OFFICE	3.00	2.00	6.00
07	OFFICE	3.00	2.00	6.00
08	OFFICE	3.00	2.00	6.00
09	OFFICE	3.00	2.00	6.00
10	OFFICE	3.00	2.00	6.00
11	OFFICE	3.00	2.00	6.00
12	OFFICE	3.00	2.00	6.00
13	OFFICE	3.00	2.00	6.00
14	OFFICE	3.00	2.00	6.00
15	OFFICE	3.00	2.00	6.00
16	OFFICE	3.00	2.00	6.00
17	OFFICE	3.00	2.00	6.00
18	OFFICE	3.00	2.00	6.00
19	OFFICE	3.00	2.00	6.00
20	OFFICE	3.00	2.00	6.00
21	OFFICE	3.00	2.00	6.00
22	OFFICE	3.00	2.00	6.00
23	OFFICE	3.00	2.00	6.00
24	OFFICE	3.00	2.00	6.00
25	OFFICE	3.00	2.00	6.00
26	OFFICE	3.00	2.00	6.00
27	OFFICE	3.00	2.00	6.00
28	OFFICE	3.00	2.00	6.00
29	OFFICE	3.00	2.00	6.00
30	OFFICE	3.00	2.00	6.00
31	OFFICE	3.00	2.00	6.00
32	OFFICE	3.00	2.00	6.00
33	OFFICE	3.00	2.00	6.00
34	OFFICE	3.00	2.00	6.00
35	OFFICE	3.00	2.00	6.00
36	OFFICE	3.00	2.00	6.00
37	OFFICE	3.00	2.00	6.00
38	OFFICE	3.00	2.00	6.00
39	OFFICE	3.00	2.00	6.00
40	OFFICE	3.00	2.00	6.00

DIMENSIONS OF BUILDING

NO.	DESCRIPTION	LENGTH	BREADTH	AREA
01	OFFICE	3.00	2.00	6.00
02	OFFICE	3.00	2.00	6.00
03	OFFICE	3.00	2.00	6.00
04	OFFICE	3.00	2.00	6.00
05	OFFICE	3.00	2.00	6.00
06	OFFICE	3.00	2.00	6.00
07	OFFICE	3.00	2.00	6.00
08	OFFICE	3.00	2.00	6.00
09	OFFICE	3.00	2.00	6.00
10	OFFICE	3.00	2.00	6.00
11	OFFICE	3.00	2.00	6.00
12	OFFICE	3.00	2.00	6.00
13	OFFICE	3.00	2.00	6.00
14	OFFICE	3.00	2.00	6.00
15	OFFICE	3.00	2.00	6.00
16	OFFICE	3.00	2.00	6.00
17	OFFICE	3.00	2.00	6.00
18	OFFICE	3.00	2.00	6.00
19	OFFICE	3.00	2.00	6.00
20	OFFICE	3.00	2.00	6.00
21	OFFICE	3.00	2.00	6.00
22	OFFICE	3.00	2.00	6.00
23	OFFICE	3.00	2.00	6.00
24	OFFICE	3.00	2.00	6.00
25	OFFICE	3.00	2.00	6.00
26	OFFICE	3.00	2.00	6.00
27	OFFICE	3.00	2.00	6.00
28	OFFICE	3.00	2.00	6.00
29	OFFICE	3.00	2.00	6.00
30	OFFICE	3.00	2.00	6.00
31	OFFICE	3.00	2.00	6.00
32	OFFICE	3.00	2.00	6.00
33	OFFICE	3.00	2.00	6.00
34	OFFICE	3.00	2.00	6.00
35	OFFICE	3.00	2.00	6.00
36	OFFICE	3.00	2.00	6.00
37	OFFICE	3.00	2.00	6.00
38	OFFICE	3.00	2.00	6.00
39	OFFICE	3.00	2.00	6.00
40	OFFICE	3.00	2.00	6.00

LEGEND:
 WALL (THICK LINE)
 DOOR (ARROW)
 WINDOW (DASHED LINE)
 FURNITURE (SYMBOLS)
 AREA (HATCHING)
 NORTH ARROW (ARROW)
 SCALE (1:100)
 DATE ()
 DRAWN BY ()
 CHECKED BY ()
 APPROVED BY ()
 PROJECT NO. ()
 SHEET NO. () OF ()
 DATE OF ISSUE ()
 DATE OF CONTRACT ()
 DATE OF COMPLETION ()

DATUM DESCRIPTION:
 DATUM POINT: ()
 DATUM ELEVATION: ()
 DATUM DESCRIPTION: ()

Program Director
 Sindh Bank Reconstruction Program
 Government of Sindh



BOREHOLE LOGS





Soil Testing Services

SUBSURFACE EXPLORATION LOG

Start date : 18.02.2014	Casing diameter:	BOREHOLE No. BH-1
End date : 19.02.2014	N/A	
Drilling method : Rotary	Borehole diameter:	4-inch
		Coordinates : E : N : -
		Ground Level : 2-ft above road level
		Groundwater level : Not encountered

Date and time	Casing Depth (ft)	Depth to water (ft)	Sample details				Rock Core		Description of strata	Depth (thickness) (ft)	CR% / SPT Graph	Legend	
			Depth (ft) from to:	Type	No.	Blows / N	Drive (mm) / UDC	CR %					RQB %
			0.00										
			3.00	SPT(c)	1	100	350						
				DS	1								
			6.00	SPT(c)	2	100	300						
				DS	2								
			9.00	SPT(c)	3	100	200						
				Run	1	33	7						
				UDC	1								
			12.00	UDC	2								
				Run	2	26	7						
	N/A	N/E	18.00	UDC	3								
			18.00	Run	3	40	7						
			21.00	UDC	4								
				Run	4	33	8						
			24.00	UDC	5								
			27.00	Run	5	33	8						
			30.00										

Remarks:
 SPT : Standard Penetration Test
 CR : Core Recovery
 RQB : Rock Quality Designation

Logged by Aqil Shah
 Compiled by S. Altaf Hussain
 Checked by M. Abid Azhar

Project : Geotechnical Investigation for GBELS Waryo Gohool Goth, Gadap Town, Karachi

Project No. K14-1009-101

Sheet No. 1 of 1



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Soil Testing Services

SUBSURFACE EXPLORATION LOG

Start date : 19.02.2014	Casing diameter:	BOREHOLE No. BH-2
End date : 19.02.2014	N/A	
Drilling method : Rotary	Borehole diameter:	4-inch
		Coordinates : E :- N :-
		Ground Level : 4-ft above road level
		Groundwater level : Not encountered

Date and time	Casing Depth (ft)	Depth to water (ft)	Sample details			Rock Core		Description of strata	Depth (thickness) (ft)	CR% / SPT Graph	Legend
			Depth (ft) from to	Type	No.	Blows / N	Drive (min) / UDC				
			0.00								
			3.00	SPT (c)	1		100	300			
				DS	1						
			6.00	SPT (c)	2		100	250			
				DS	2						
				Run	1		26	Nil			
			9.00								
			12.00	Run	2		33	Nil			
	N/A	N/E	15.00								
			18.00	Run	3		40	Nil			
			21.00								
				Run	4		33	66			
			24.00	UDC	1						
			27.00	Run	5		40	Nil			
			30.00								

Remarks:
 SPT : Standard Penetration Test
 CR : Core Recovery
 RQD : Rock Quality Designation

Logged by Aqil Shah
 Compiled by S. Altaf Hussain
 Checked by M. Abid Azhar

Project : Geotechnical Investigation for GBELS Waryo Gobook Goth Gadap Town, Karachi

Project No. K14-1008-101
 Sheet No. 1 of 1



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 Government of Sindh



Soil Testing Services

SUBSURFACE EXPLORATION LOG

Start date : 20.02.2014	Casing diameter:	BOREHOLE No. BH-3
End date : 20.02.2014	NA	Coordinates :
Drilling method : Rotary	Borehole diameter:	4-inch
		Ground Level : 2.5-ft above road level
		Groundwater level : Not encountered

Date and time	Casing Depth (ft)	Depth to water (ft)	Sample details			Rock Core		Description of strata	Depth (thickness) (ft)	CR% / SPT Graph	Legend
						CR %	RQD %				
			Depth (ft) from to	Type	No.	Blows / N	Drive (mm) / UDC				
			0.00					Ground Surface			
			3.00	SPT (gs) DS	1	100	250	SAND Yellowish brown, very dense, silty fine to coarse SAND with gravels & boulders			
			6.00	SPT (gs) DS	2	100	200				
			9.00	SPT (gs) DS	3	100	200				
			12.00	Run	1	27	NI	SANDSTONE Yellowish brown, weak to medium strong, fine to coarse grained SANDSTONE, interbedded with gravel and boulders			
			15.00	UDC	1						
			18.00	Run	2	27	NI				
			21.00	UDC	2						
			24.00	Run	3	27	NI				
			27.00	UDC	3						
			30.00	Run	4	33	NI				
			33.00	UDC	4						
			36.00	Run	5	45	NI				
			39.00	UDC	5			Bottom of BH-3 at 35-feet			

Remarks: SPT : Standard Penetration Test
 CR : Core Recovery
 RQD : Rock Quality Designation

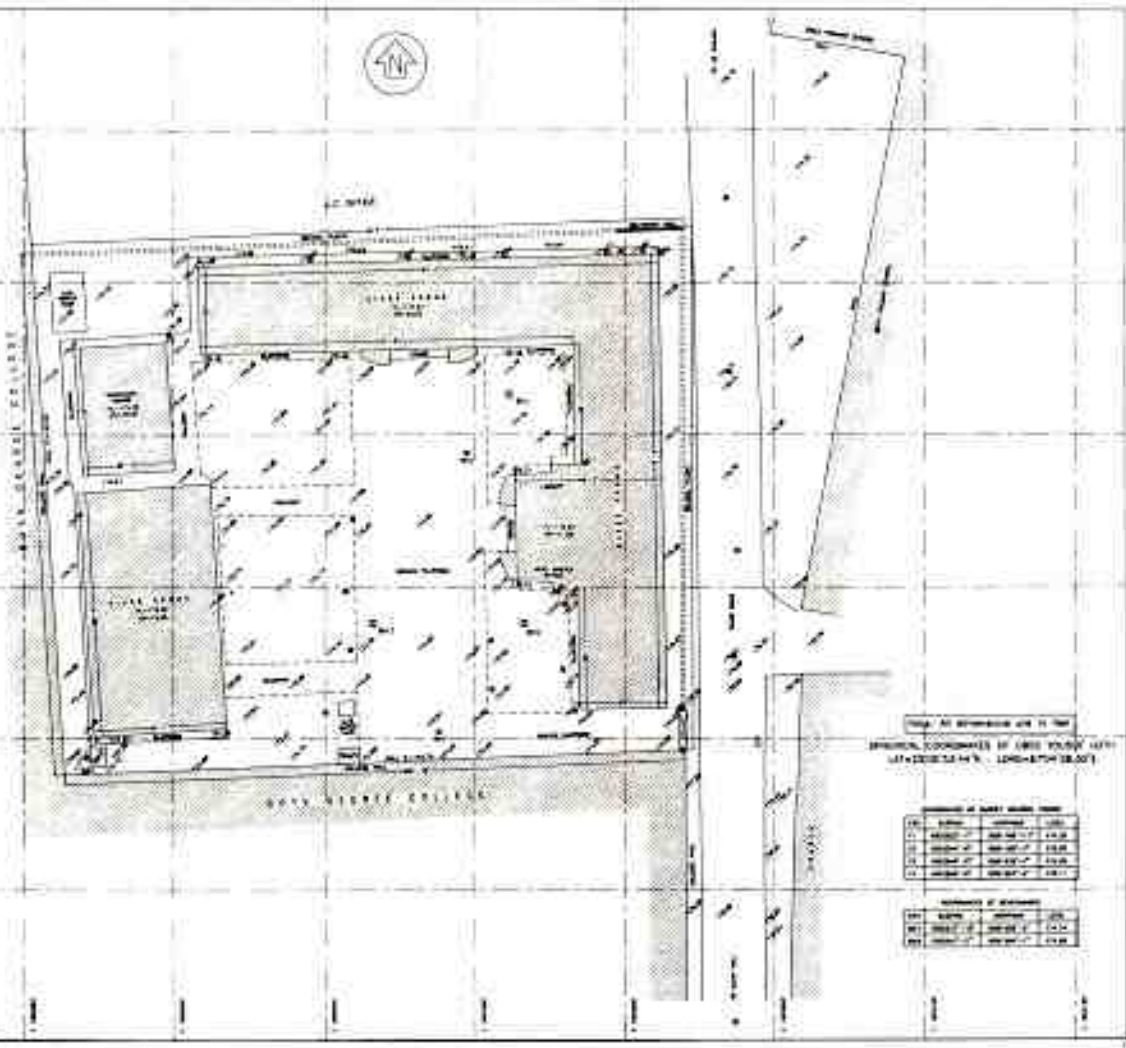
Logged by Aqil Shah
 Compiled by S. Aital Hussain
 Checked by M. Abid Azhar

Project : Geotechnical Investigation for OBELS Waryo Gobeel Goth Gadap Town, Karachi

Project No. K14-1009-101
 Sheet No. 1 of 1



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 Soil & Foundation Program
 Government of Sindh



LEGEND:

WALL	---
DOOR	— —
WINDOW	—/—
CEILING	—•—
FLOOR	—••—
ROOF	—/•—
STAIR	—•—•—
PLANT	—•—•—
POOL	—•—•—
...	...

DATUM DESCRIPTION:
 DATUM: ...

SCALE:
 1:1000

REMARKS:
 ALL DIMENSIONS ARE IN METERS

COORDINATES:
 NORTH COORDINATE OF ONE CORNER (47° 14' 12.00")
 EAST COORDINATE OF ONE CORNER (67° 18' 00")

NO.	DESCRIPTION	DATE
1
2
3
4

APPROVED:
 (Signature)
 Program Director
 Quaid-e-Azam Basic Education Program
 Government of Sindh



BOREHOLE LOGS





Soil Testing Services

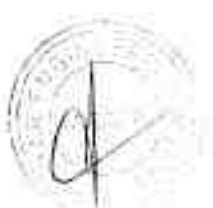
SUBSURFACE EXPLORATION LOG

Start date : 24.02.2014	Casing diameter:	BOREHOLE No. BH-1
End date : 25.02.2014	N/A	Coordinates :
Drilling method : Rotary	Borehole diameter:	E :-
		N :-
		Ground Level : 2-ft below road level
		Groundwater level : 5-ft

Date and time	Casing Depth (ft)	Depth to water (ft)	Sample details				Rock Core		Description of strata	Depth (thickness) (ft)	CR% / SPT Graph	Legend	
			Depth (ft) from to	Type	No.	Blows / N	Drive (mm) / UDC	CR %					RQD %
			0.00										
		▽						Ground Surface					
			3.00	SPT	1	12	450	CLAY Brown, stiff, silty CLAY/clayey silt, traces of fine sand					
		GWL 5-ft	6.00	SPT	2	6	450	CLAY Yellowish brown, medium stiff, silty CLAY, organic material at places					
				UDS	1	-	450						
			9.00					CLAYSTONE Yellowish brown, very weak, weathered & fractured, CLAYSTONE interbedded, thin layer of siltstone and organic material at places					
				SPT	3	100	450						
			12.00	Run	1	46	20						
			15.00										
				UDC	2								
			18.00	Run	2	66	40						
			21.00										
				UDC	3								
			24.00	Run	3	60	38						
			27.00										
				UDC	4								
			30.00	Run	4	56	33						
Bottom of BH-1 at 30-feet													

Remarks: SPT : Standard Penetration Test CR : Core Recovery RQD : Rock Quality Designation	Logged by Aqil Shah Compiled by S. Aitaf Hussain Checked by M. Abid Azhar
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Project : Geotechnical Investigation for GBSS Yousaf Goth (Option-I) Gadap Town, Karachi	Project No. K14-1009-101 Sheet No. 1 of 1
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 South West Education Program
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Soil Testing Services

SUBSURFACE EXPLORATION LOG

Start date : 25.02.2014	Casing diameter:	BOREHOLE No. BH-2
End date : 26.02.2014	N/A	
Drilling method : Rotary	Borehole diameter:	4-inch
		Coordinates : E : - N : -
		Ground Level : 2-ft below road level
		Groundwater level : 5-ft

Date and time	Casing Depth (ft)	Depth to water (ft)	Sample details				Rock Core		Description of strata	Depth (thickness) (ft)	CR% / SPT Graph	Legend	
			Depth (ft) from to	Type	No.	Blows / N	Drive (mm) / UDC	CR %					RQD %
			0.00						Ground Surface				
			3.00	SPT	1		19	450	CLAY Brown, very stiff, silty CLAY/clayey silt, traces of fine sand				
			6.00	SPT	2		36	450	CLAY Yellowish brown, hard, silty CLAY/clayey silt, traces of organic material at places				
			9.00	SPT	3		36	450					
			12.00	SPT	4		100	450					
	N/A		15.00	SPT	5		100	20					
			18.00	UDC	1				CLAYSTONE Yellowish brown, very weak weathered & fractured, CLAYSTONE interbedded, thin layer of siltstone and organic material at places				
			18.00	Run	1		53	33					
			21.00	UDC	2								
			21.00	Run	2		60	33					
			24.00										
			27.00	UDC	3								
			27.00	Run	3		53	20					
			30.00						Bottom of BH-2 at 30-feet				

Remarks:
 SPT : Standard Penetration Test
 CR : Core Recovery
 RQD : Rock Quality Designation

Logged by Aqil Shah
 Compiled by S. Altaf Hussain
 Checked by M. Abid Azhar

Project : Geotechnical Investigation for GBSS Yousaf Goth (Option-I) Gadap Town, Karachi

Project No. K14-1009-101

Sheet No. 1 of 1



[Signature]
 Director
 Soil Investigation Program
 Government of Sindh



Soil Testing Services

SUBSURFACE EXPLORATION LOG

Start date : 26.02.2014	Casing diameter:	BOREHOLE No. BH-3
End date : 26.02.2014	N/A	Coordinates :
Drilling method : Rotary	Borehole diameter:	4-inch
		E : - N : -
		Ground Level : 2-ft below road level
		Groundwater level : 5-ft

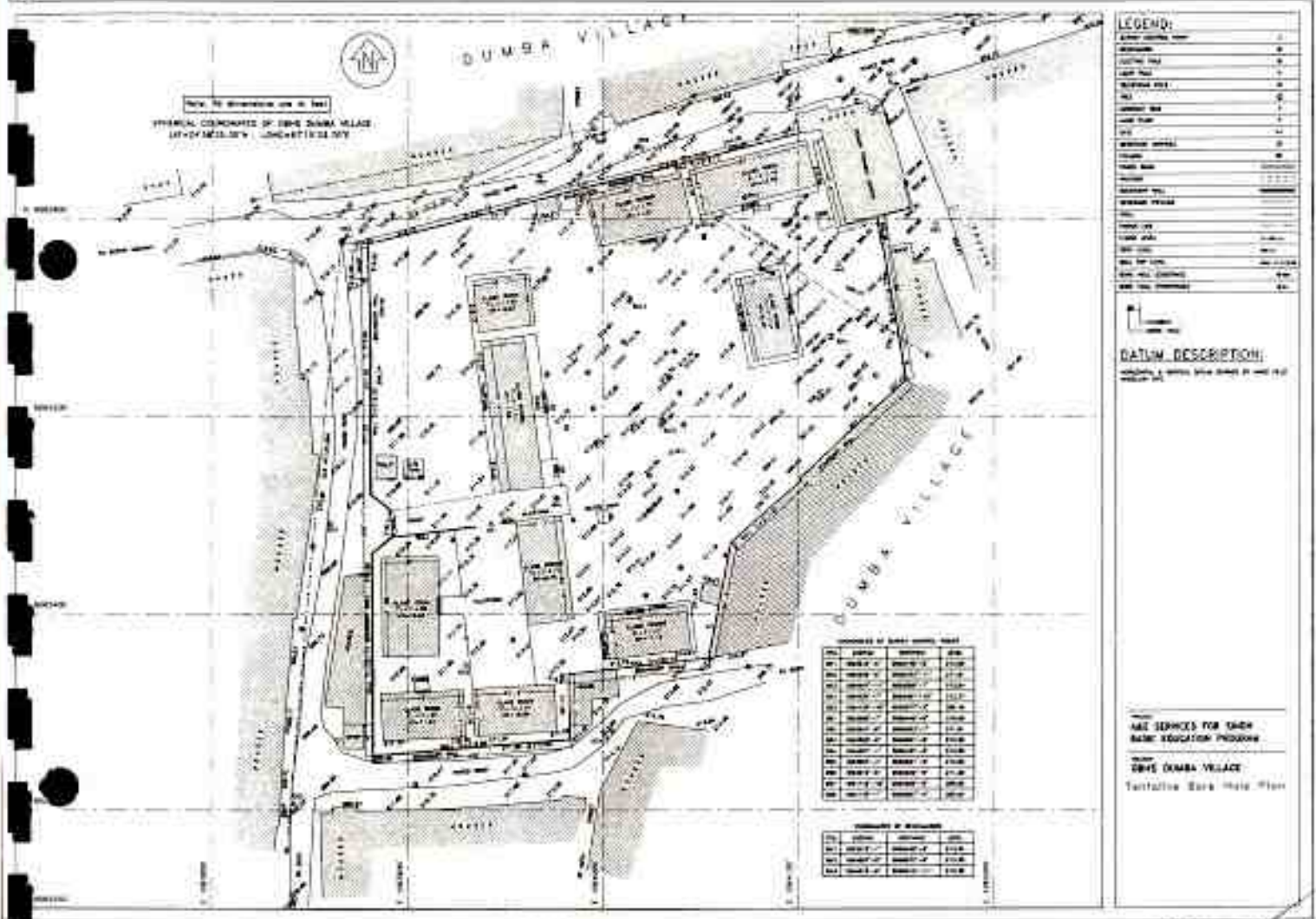
Date and time	Casing Depth (ft)	Depth to water (ft)	Sample details			Rock Core		Description of strata	Depth (thickness) (ft)	CR% / SPT Graph	Legend
						CR %	RQD %				
			Depth (ft) from to	Type	No.	Blows / N	Drive (mm) / UDC				
		▽	0.00					Ground Surface			
		▽	3.00	SPT	1	6	450	CLAY Brown, medium stiff, silty CLAY/silty silt, traces of fine sand			
		▽	6.00	SPT	2	9	450	CLAY Yellowish brown, very stiff to hard, silty CLAY/silty silt, traces of organic material at places			
		▽	9.00	SPT	3	25	450				
		▽	12.00	SPT	4	100	300				
		▽	15.00	SPT	5	100	250				
		▽	18.00	UDC	1			CLAYSTONE Yellowish brown, very weak, weathered & fractured. CLAYSTONE, interbedded thin layer of siltstone and organic material at places			
		▽	21.00	Run	1	50	33				
		▽	24.00	UDC	2						
		▽	27.00	Run	2	70	42				
		▽	30.00	UDC	3			Bottom of BH-3 at 30-feet			
		▽		Run	3	53	28				

Remarks: SPT : Standard Penetration Test CR : Core Recovery RQD : Rock Quality Designation	Logged by Aqil Shah Compiled by S. Aftab Hussain Checked by M. Abid Azhar
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Project : Geotechnical Investigation for GBSS Yousaf Goth (Option-I) Gadap Town, Karachi	Project No. K14-1009-101 Sheet No. 1 of 1
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Scale: 1:1000 (as per drawing)

TYPICAL COORDINATES OF DUMBA VILLAGE
 (LATITUDE 25° 23' 00" N - LONGITUDE 67° 32' 00" E)

LEGEND:

Area Covered	1
Boundary	2
Building No.	3
Water	4
Drainage	5
Electricity	6
Water Supply	7
Other	8
Area Outside	9
Other	10
Other	11
Other	12
Other	13
Other	14
Other	15
Other	16
Other	17
Other	18
Other	19
Other	20

DATUM DESCRIPTION:

Reference to the datum of the drawing is as follows:

LIST OF BUILDINGS:

No.	Name	Area	Remarks
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

LIST OF UTILITIES:

No.	Name	Area	Remarks
1
2
3
4
5

AGE SERVICES FOR EACH BASIC EDUCATION PROGRAM

DUMBA VILLAGE
 Tentative Basic Home Plan

Program Director
 Sindh Basic Education Program
 Government of Sindh



BOREHOLE LOGS





Soil Testing Services

SUBSURFACE EXPLORATION LOG

Start date : 16.02.2014	Casing diameter:	BOREHOLE No. BH-1
End date : 16.02.2014	N/A	Coordinates : E : - N : -
Drilling method : Rotary	Borehole diameter:	4-inch
		Ground Level : 4-ft above road level Groundwater level : N/A

Date and time	Casing Depth (ft)	Depth to water (ft)	Sample details				Rock Core		Description of strata	Depth (thickness) (ft)	CR% / SPT Graph	Legend
			SPT		CR %	RQD %						
			Depth (ft) from to	Type	No.	Blows / N	Drive (mm) / UDC					
			0.00					Ground Surface				
			3.00	SPT	1	4E	450	SAND Yellowish brown, dense, silty fine to coarse SAND with traces of gravels				
			6.00	SPT	2	50	450					
				SPT	3	38	450					
			9.00					CLAY Yellowish brown, hard, silty CLAY/sandy silt				
			12.00	SPT	4	49	450					
	N/A		15.00	SPT	5	100	350	SANDSTONE Yellowish brown, very dense, friable SANDSTONE with interbedded thin layer of clay				
			18.00									
			21.00	SPT	6	100	250					
			24.00	SPT	7	100	200					
			27.00									
			30.00	SPT	6	100	150	Bottom of BH-1 at 30-feet				

Remarks: SPT : Standard Penetration Test CR : Core Recovery RQD : Rock Quality Designation	Logged by Aqil Shah Compiled by S. Aitaf Hussain Checked by M. Abid Azhar
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Project : Geotechnical Investigation for GBHS Dumba Village (Option-2) Gadap Town, Karachi	Project No. K14-1009-101 Sheet No. 1 of 1
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Soil Testing Services

SUBSURFACE EXPLORATION LOG

Start date : 15.02.2014	Casing diameter:	BOREHOLE No. BH-2
End date : 15.02.2014	N/A	Coordinates :
Drilling method : Rotary	Borehole diameter:	E : :
		N : :
		Ground Level : 4.5-ft above road level
		Groundwater level : N/A

Date and time	Casing Depth (ft)	Depth to water (ft)	Sample details				Rock Core		Description of strata	Depth (thickness) (ft)	CR% / SPT Graph	Legend
			SPT			CR %	RQD %					
			Depth (ft) from to	Type	No.	Blows / N	Drive (mm) / UDC					
			0.00					Ground Surface				
			3.00	SPT	1	100	350	SAND Yellowish brown, very dense, silty fine to coarse SAND, traces of gravels				
			6.00	SPT	2	100	300					
				SPT	3	100	250					
			9.00					SILT Yellowish brown, hard, silty clayey SILT/sandy silt				
			12.00	SPT	4	36	450					
			15.00	SPT	5	100	250					
			18.00					SANDSTONE Brown, very dense, friable SANDSTONE, interbedded thin layers of clay				
			21.00	SPT	6	100	200					
			24.00	SPT	7	100	200					
			27.00					SILT Brown, hard, clayey SILT/shale Bottom of BH-1 at 30-feet				
			30.00	SPT	8	100	150					

Remarks: SPT : Standard Penetration Test CR : Core Recovery RQD : Rock Quality Designation	Logged by Aqil Shah Compiled by S. Aitaf Hussain Checked by M. Abid Azhar
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Project : Geotechnical Investigation for GBHS Dumba Village (Option-2) Gadap Town, Karachi	Project No. K14-1009-101 Sheet No. 1 of 1
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Soil Testing Services

SUBSURFACE EXPLORATION LOG

Start date : 17.02.2014	Casing diameter:	BOREHOLE No. BH-3
End date : 17.02.2014	N/A	Coordinates :
Drilling method : Rotary	Borehole diameter:	E : -
		N : -
		Ground Level : 4.5-ft above road level
		Groundwater level : N/A

Date and time	Casing Depth (ft)	Depth to water (ft)	Sample details				Rock Core		Description of strata	Depth (thickness) (ft)	CR% / SPT Graph	Legend	
			Depth (ft) from to	Type	No.	Blows / N	Drive (mm) / UDC	CR %					RQD %
			0.00										
			3.00	SPT	1	47	450						
			6.00	SPT	2	52	450						
			9.00	SPT	3	41	450						
			12.00	SPT	4	50	450						
			15.00	SPT	5	100	300						
			18.00										
			21.00	SPT	6	100	200						
			24.00	Run	1	40	Ni						
			27.00	Run	2	53	45						
			30.00										

Remarks: SPT : Standard Penetration Test CR : Core Recovery RQD : Rock Quality Designation	Logged by Aqil Shah Compiled by S. Altaf Hussain Checked by M. Abid Azhar
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Project : Geotechnical Investigation for GBHS Dumba Village (Option-2) Gadap Town, Karachi	Project No. K14-1009-101 Sheet No. 1 of 1
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 Sixth Basic Education Program
 Government of Sindh

ANNEXURE-2

APPROVED SUPPLIERS / MANUFACTURERS



1 Civil Works

S.No.	Material Description	Identified source	Remarks
1	Sand for concrete & masonry.	Bholari, Kotri Nooriabad, Super Highway	Only two sources in Sindh meet standard requirements.
2	Coarse Aggregate for concrete	Ubban Shah, Khairpur Kashmore Lucky Shah Sadar, Jamshoro Hub river, Karachi Attock cement quarry, Hub	Yousufzai crusher Adda more crusher Lucky Shah crusher Noorul Haq Masood crusher Noorul Haq Masood crusher
3	Cement (Slag) Cement (OPC)	Thatta Cement Thatta Cement Kohat Cement Maple Leaf cement Fecho cement D.G.Khan cement Pak-Cem cement Falcon Cement Lucky Cement	Thatta Factory Thatta Factory Kohat Factory Sikadarabad, Mianwali Taxilla D.G.Khan & Chakwal Chakwal Attock cement factory, Hub Nooriabad, Karachi
4	Water for mixing and curing of concrete.	Local, municipal supply Sub-soil water (if suitable) Canal, (after settlement of silt) Treated brackish sub-soil water	Prior approval is essential before use.

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S.No.	Material Description	Identified source	Remarks
5	Admixtures	Sika BASF Berdex from Burger Schomborg PAGEL FOSROC abe (South Africa)	Only those admixtures will be allowed which are imported in ready to use condition Or If blended locally by the dealer under the licence of principal. The principal will hold responsibility of quality. In such case copy of agreement and QA certificate from principal will be required from local dealer.
6	Anti-termite chemical	Mirage Agenda 25 EC	Ali Akbar Group Jaffer Brothers
7	Reinforcement Steel	Agha Steel, Karachi Razzaq steel, Karachi Amreli Steel, Karachi Mughal steel, Lahore Aico, steel, Lahore Ittefaq steel, Lahore City steel, Lahore	Steel should meet ASTM A-615, Grade-60 requirements. Factory test results (physical and chemical) will be required with each consignment for all size of bars according to heat numbers.
8	Crushed aggregate Base / Sub-base course.	Ubban Shah, Khairpur Kashmore Lucky Shah Sadar, Jamshoro Hub river, Karachi Attock cement quarry	Yousufzai crusher Adda more crusher Lucky Shah crusher Noorul Haq Masood crusher Noorul Haq Masood crusher
9	Clay bricks (Facing) Clay bricks (Building)	Gomal, Rahimyar Khan Gomal, Rahimyar Khan Ittehad, Rahimyar Khan Arti, Rahimyar Khan Zaman, Hyderabad	Bricks meet ASTM C-216 requirement Bricks of all kiln meet ASTM C-62 requirement.

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S.No.	Material Description	Identified source	Remarks
10	Precast concrete blocks (hollow & solid), pavers and kerb stones.	Envirocrete, Karachi Magnacrete, Karachi Caracrete, Karachi Primocrete, Karachi	Quality of all manufacturers meet standard requirement.
11	Ready Mix Concrete	Atlas, Karachi Safe Mix, Karachi	No commercial ready mix concrete plant is available in other 7-Districts of Sindh where schools are going to be built under SBEP.
12	Machine made blocks (Compressed Soil-Cement Masonry Units)	Eco blocks, Islamabad	Single manufacturer
13	Pre-cast Concrete Slab Panel	Izhar Constructors (Pvt.) Ltd, Lahore and Karachi	Or Equivalent
14	Clay Tiles	Multan	Various manufacturers
15	Steel T-Iron & Girders	Jamal Steel, Lahore Abbas Steel, Karachi	Or Equivalent
16	Water stops	Sika DECORA	Or Equivalent

(Signature)
 Program Director
 Sindh Basic Education Program
 Government of Sindh



2 Architectural Works

S.No.	Material Description	Identified Sources	Remarks
1	Flooring (terrazzo tiles)	Al. Mohammadi Tiles Matrix Tiles	OR Equivalent
2	Skirting / Dado	Al Mohammadi Tiles Matrix Tiles	
3	Flooring (washroom tiles)	Porcelanato RAK Shabbir Master EMCO	OR Equivalent
4	Paint	ICI Berger Nelson Juton Nippon	OR Equivalent
5	Wooden Doors, Windows and Hand rails	Sheesham Red meranti Diyar Beech Pine wood	
6	Aluminium Doors, Windows and Ventilators	Lucky Pakistan Cable Alcop Thermac	OR Equivalent
7	PVC Doors and Windows	FRAMEZ AVT Alfapen	OR Equivalent
8	Mild Steel Doors Windows	Local work shops MS "Z" section	
9	Glass & Glazing	Ghani Glass Fateh Glass Pakistan Safety Glass Imported from Saudia	OR Equivalent
10	C.C. Lattice	Local Source as approved	

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Malcrow

S.No.	Material Description	Identified Sources	Remarks
11	Waterproofing	Sika Fosroc BASF Schomburg Abe (South Africa) PAGEEL	OR Equivalent imported
12	Roof Insulation	Plastic local soil	2-inch thick as per local tradition
13	Polyurethane foam Polystyrene foam	Master Chemicals Diamond Foam Imported material	OR Equivalent
14	Protection of insulation	Clay tiles	First class from Multan & Hala
15	Hardware / Iron Monger Door Locks Hinges Door Stopper Handle with latches KIK / Push Plate Tower Bolt	J.B. Saeed Union Yale Mandal Korean	OR Equivalent best quality
16	Epoxy, Sealants and Repair materials	Sika Fosroc BASF Schomburg PAGEEL Abe (South Africa)	OR Equivalent
17	Color Crete	Ressichem Rehan & Co. Textures	
18	Lasbela Stone	Pak Stones Zafar Baloch Stone World	


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 Government of Sindh



3 Water Supply & Sanitation

S.No.	Material Description	Identified Sources	Remarks
1	Plumbing Fixtures	Sonex Master Porta Asla	OR Equivalent
2	Pipes & Fittings PVC G.I.Pipe	ACM JEDDAH DADEX Paklite III	OR Equivalent

[Signature]
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4 Electrical Works

S.No	Material Description	Approved Sources	Remarks
1	PVC conduits and accessories	Galco Dadex Civic	
2	G.I. Pipe	Ill Steelex	
3	Back-Boxes & Pull Boxes	Ezzi Engineering A to Zee Britlite	
4	Earthing & Lightning Protection Systems	Wallis W J Furse LPI-Australia Application Technology -Spain	
5	MV/LV cables & wires	Pakistan cables New Age cables	
6	Ceiling/Wall bracket fans	Milat Fans Pak Fans Royal Fans	
7	Light Fixtures	Philips Pierlite Britlite	
8	Lamps/ LED	Philips Osram Clipsal	
9	Ballast/ Choke	Philips Clipsal	
10	Wiring Accessories (switches & sockets)	Clipsal MK ABB	
11	Telephone & Data sockets	Clipsal 3M	
12	Voice/Data Structured Cabling System	Clipsal 3M Siemens	
13	Stand alone Fire alarm system	Esser by Honey Well Germany Bosch Every Day GST-UK	




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Walcrow

S.No	Material Description	Approved Sources	Remarks
14	Public Address System	Optimus JD Media TOA Japan Bouyer-France	
15	Distribution Boards	PEL Libra Engineering Aeva Hussain & Co.	
16	Cable Tray/ trunking, ladder & accessories	Ezzi Engineering A to Zee Britline CECL	
17	Co-axial Cable	3M-USA Clipsal	
18	MATV System	3M-USA WISI-USA	

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ANNEXURE-3

TENDER ANALYSIS FORMAT



CONSTRUCTION OF SCHOOLS UNDER
SINDH BASIC EDUCATION PROGRAM

Annexure-3

TENDER ANALYSIS

Sl. No.	BOQ Ref.	Description	Unit	UNIT COST											Qty	TOTAL COST																												
				Material	Labour	T & P	Sub-contract	Wastage/Other	1. Basic Cost	Off %	Profit %	Net tax %	Total Selling	Material		Labour	T & P	Sub-contract	Wastage/Other	1. Basic Cost	Off	Profit	Net tax	Total Selling																				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28																	
ONLY AN EXAMPLE, NOT TO BE QUOTED																																												
1	01	1000	sq. ft.	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000																
2	02	2000	sq. ft.	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000																
3	03	3000	sq. ft.	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000																
4	04	4000	sq. ft.	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000																
5	05	5000	sq. ft.	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000																
6	06	6000	sq. ft.	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000																
7	07	7000	sq. ft.	7000	7000	7000	7000	7000	7000	7000	7000	7000	7000	7000	7000	7000	7000	7000	7000	7000	7000	7000	7000	7000	7000	7000	7000	7000																
8	08	8000	sq. ft.	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000																
9	09	9000	sq. ft.	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000																
10	10	10000	sq. ft.	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000																
TOTAL																																												

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RATE ANALYSIS

DESCRIPTION:- Hot Rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.

Detail	Unit	No.	Quantity	Rate	Amount
Detail for one tonne					
<u>A. MATERIAL</u>					
Steel bars including GST	tonne		1.00	73000	73000.00
Binding wire	kg.		10.00	110.00	1100.00
Wastage 5 %					3705.00
Cartage	tonne		1.00	500.00	500.00
misc. chairs, spacers etc.	LS		1.00	800.00	800.00
Total of "A"					79105.00
<u>B. LABOUR</u>					
Skilled worker	Hours	4	8.00	125.00	4000.00
Coolies	Hours	4	8.00	75.00	2400.00
Total of "B"					6400.00
Basic Cost "A+B"					85505.00
Add Contractor's overhead & Profit	30 %				25651.50
Total Cost for	1 tonne				111156.50
Rate for one tonne					111156.50
					111156 / PER TON


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RATE ANALYSIS

DESCRIPTION:- Providing and laying Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi in foundation.

Detail	Unit	No.	Quantity	Rate	Amount
Detail for 100 Cft.					
<u>A. MATERIAL</u>					
Cement	Bags		22.00	350.00	7700.00
Sand	Cft.		40.00	22.00	880.00
Crush	Cft.		80.00	33.00	2640.00
Wastage	5 %				561.00
Water charges	2 %				168.30
Total of "A"					11949.30
<u>B. LABOUR</u>					
Coolies for placing of concrete	Hours	3	5.00	75.00	1125.00
Coolies at mixer machine	Hours	7	5.00	75.00	2625.00
Mason for levelling of concrete	Hours	2	5.00	100.00	1000.00
Water carrier	Hours	1	5.00	75.00	375.00
Total of "B"					5125.00
<u>C. TOOLS AND PLANTS</u>					
Mixer machine incl.fuel & driver	Hours	1	4.00	125.00	500.00
Vibrator incl.fuel & driver	Hours	1	4.00	75.00	300.00
Total of "C"					800.00
<u>D. FORMWORKS</u>					
Providing, fixing & removing	Sft.	1	50.00	36.00	1800.00
Total of "D"					1800.00
Basic Cost "A+B+C+D"					19674.30
Add Contractor's overhead & Profit					5902.29
Total Cost for					25576.59
Rate for one Cft.					255.77
say					256.00



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RATE ANALYSIS

DESCRIPTION:- Providing and laying 3000 psi (28 days cylinder strength) in super structure in Column.

Detail	Unit	No.	Quantity	Rate	Amount
Detail for 100 Cft.					
<u>A. MATERIAL</u>					
Cement	Bags		22.00	355.00	7810.00
Sand	Cft.		40.00	22.00	880.00
Crush	Cft.		80.00	33.00	2640.00
Wastage	5 %				566.50
Water charges	1 %				113.30
Total of "A"					12009.80
<u>B. LABOUR</u>					
Coolies for placing of concrete	Hours	6	3.50	75.00	1575.00
Coolies at machine	Hours	7	3.50	75.00	1837.50
Mason for levelling of concrete	Hours	1	3.50	100.00	350.00
Water carrier	Hours	1	3.50	75.00	262.50
Total of "B"					4025.00
<u>C. TOOLS AND PLANTS</u>					
Mixer machine incl.fuel & driver	Hours	1	3.50	125.00	437.50
Vibrator incl.fuel & driver	Hours	1	3.50	75.00	262.50
Total of "C"					700.00
<u>D. FORMWORKS</u>					
Providing, fixing & removing	Sft.	1	325.00	32.00	10400.00
Total of "D"					10400.00
Basic Cost "A+B+C+D"					27134.80
Add Contractor's overhead & Profit	30 %				8140.44
Total Cost for	100	Cft.			35275.24
Rate for one Cft.					352.75
say					353.00



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Government of Sindh



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GOVERNMENT OF SINDH, EDUCATION & LITERACY DEPARTMENT

Project Management Implementation Unit (PMIU)

SINDH BASIC EDUCATION PROGRAM

Construction of Schools in Karachi City, Sindh

(Bin Qasim and Gadap Towns)



PACKAGE NO. SBEP-P05-KHI

Tender & Contract Documents

Volume-II

Bill of Quantities

MAY, 2014

GOVERNMENT OF SINDH, EDUCATION & LITERACY DEPARTMENT

Project Management Implementation Unit (PMIU)

SINDH BASIC EDUCATION PROGRAM

Construction of Schools in Karachi City, Sindh

(Bin Qasim and Gadap Towns)

Tender & Contract Documents

Volume Distribution

Volume-I:

Instructions to Bidders

Tender & Contract Forms

Conditions of Contract

Volume-II:

Bill of Quantities

Volume-IIIA:

Specifications – Special Provisions

Volume-IIIB:

Specifications – Technical Provisions

Volume-IV:

Drawings

**Construction of Schools Under
Sindh Basic Education Program**

PACKAGE NO. SBEP-P05-KHI

Tender & Contract Documents

Volume II

Bill of Quantities

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1 – PREAMBLE TO BOQs

BILL OF QUANTITIES

Preamble

1. The Bill of Quantities shall be read in conjunction with the Conditions of Contract, Specifications and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work executed and measured by the Contractor and verified by the Engineer and valued at the rates and prices entered in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix as per the Contract.
3. The rates and prices entered in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the Contract include all costs of Contractor's plant, labour, supervision, materials, execution, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the Contract to execute and complete the Works as listed in the BOQ. Furthermore all duties, taxes and other levies payable by the Contractor under the Contract, or for any other cause, as on the date 14 days prior to deadline for submission of Bids, shall be included in the rates and prices and the total Bid Price submitted by the Bidder.
4. A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of item against which the contractor will have failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
5. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of the Works.
6. General directions and description of work and materials are not necessarily repeated nor summarised in the Bill of Quantities. References to the relevant sections of the Bidding Documents shall be made before entering prices against each item in the priced Bill of Quantities.
7. Provisional sums included and so designated in the Bill of Quantities shall be expended in whole or in part at the direction and discretion of the Engineer in accordance with Sub-Clause 13.5 of Part I, General Conditions of Contract.
8. Notwithstanding provision of Clause 13 of the General Conditions of Contract, no claim for extra payment will be admissible on account of anticipated profit or

variation in overheads expenditure for the works not actually performed nor will any adjustment in the unit rate set forth in the Bill of Quantities be made because of any increase or decrease in the quantities indicated therein.

9. The rates quoted in the rate column are full value of unit prices as shown in unit column and are firm and final and shall be full compensation for the works involved as per Drawings, Specifications and Contract Conditions.
10. Bore log is attached as Annexure-1 to this BOQ with tender documents for ease of understanding by the Contractor to established the quality of excavated material available for backfill from within the excavated earth, prior to start of work and also prior to quoting rates.
11. List of approved manufacturer is enclosed as Annexure-2 herewith BOQ for guidance only. The Contractor shall select source/manufacturer of different materials and submit to the Engineer for review and approval before making any procurement.
12. The contractor shall submit details of Rate Analysis / breakdown of cost for each item as per the format enclosed herewith as Annexure-3.

2 – SCHOOL WORKS BOQs



**GBPS SINDHI MUSLIM CO-OPERATIVE SOCIETY
(P05-KHI37)**

SINDH BASIC EDUCATION PROGRAM
CONSTRUCTION OF NEW SCHOOLS AND UPGRADATION OF EXISTING SCHOOLS
Package- 05: Karachi, City
GBPS SINDHI MUSLIM JAMAT COOPERATIVE, BIN QASIM TOWN
SUMMARY OF TENDERED COST

CODE	DESCRIPTION	AMOUNT IN PAK.RUPEES
	A. GENERAL ITEMS	_____
	B. CIVIL WORKS	_____
	C. EXTERNAL WORKS	_____
	D. ELECTRICAL WORKS	_____
	E. PLUMBING WORKS	_____
	F. DAYWORK COST	_____
Sub-Total		

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
<u>Temporary Facilities (Optional Items)</u>						
01- 01 G 1	Ref.Spec. No. G05 Providing and maintaining a rental building of area 1,500 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, water supply and sanitation complete in all respect as directed by the Engineer.	12	Month			
OR						
01- 01 G 2	Providing and maintaining a tent school of area 1,500 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, water supply and sanitation complete in all respect as directed by the Engineer.	12	Month			
OR						
01- 01 G 3	Providing and maintaining porta cabins for school of area 1,500 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, airconditioning, water supply and sanitation complete in all respect as directed by the Engineer.	12	Month			
OR						
01- 01 G 3A	Shifting of furnitures and equipemnts and reinstall etc from existing school to rental building and reinstall as per specification and directed by the engineer.	1	L.S			
01- 01 G 5	Repair & renovation of existing Governmet building proposed for temporary school during the construction. (The payable amount shall be assessed as per actual rehabilitation work on selected building and as per recommendation by the Engineer on BOQ rates of similar items quoted in the bid).	P.S.	P.S.			500,000
Sub- Total (Rs.)						
<u>Site Clearing and Grubbing</u>						
01- 01 G 4	Ref.Spec. No. C01 Clearing and Grubbing complete in all respect as directed by the Engineer.	31,019	Sft			
<u>DISMANTLING WORK</u>						
01- 01 G 5	Ref.Spec. No. G04 Dismantling, removing of existing building structure and foundations including disposal of debris materials to designated places/location as directed by the Engineer. All the dismantled materials shall be contractor's property and rate/price of dismantling work should include compensation of such items obtained by the Contractor from existing building.	1,160	Sft			
01- 01 G 6	Dismantling, removing of existing sewerage lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.			
01- 01 G 7	Dismantling, removing of existing water supply lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.			
01- 01 G 8	Dismantling, removing of existing electrical supply line as directed by the Engineer.	150	Rft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
01- 01 G 9	Dismatling of existing boundry wall as shown in the drawing including disposal of surplus material and as directed by the Engineer. Dismantled material shall be contractor's property.	320	Rft			
01- 01 G 9A	Dismatling of existing walkways/plateform/water tank ramp etc and flooring as shown in the drawing/ as per site including disposal of surplus material and as directed by the Engineer. Dismantled material shall be contractor's property.	2,740	Sft			
<u>POWER SUPPLY & TELECOMMUNICATION</u>						
01- 01 G 10	Providing, installing, testing and commissioning of electrical supply line for re-routing as per new plan including cables, all fixtures, connections and all related civil works as directed by the Engineer.	1	Job			
01- 01 G 11	Providing, installing, testing and commissioning of telephone line for re-routing as per new plan including cables, all fixtures, connections and all related civil works as directed by the Engineer.	1	Job			
<u>SIGN BOARD / PLAQUE</u>						
Ref.Spec. No. SP 100						
01- 01 G 12	Providing and installation of Project sign board as per drawing complete including all civil related works, foundations, earthwork concrete, protection works complete as directed by the Engineer.	1	Job			
01- 01 G 13	Providing, construction and installation of Inauguration Plaque as per drawing complete including all civil related works, foundations, earthwork concrete, protection works etc complete as directed by the Engineer.	1	Job			
02- 01 G 14	Providing and maintenance of the Engineer's facilities at individual school site as per clause 44, Section-100 (SP), Volume-III (A), Specifications-Special Provisions. All items/ materials/ equipment shall become contractor's property at the completion of works.	12	Month			
<u>WATER TESTING</u>						
Ref.Spec. No.						
01- 01 G 15	Sampling and testing of Water from bore of well (TDS) including submission of report as per specification.	1	Each			
Total General Items (Rs.)						
Sub- Total C/o to Summary General Items Pak Rs.						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
CONSTRUCTION OF SCHOOL BUILDING						
SUB-STRUCTURE						
EARTHWORKS						
Ref.Spec. No. C02						
01- 02 C 1	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places. a) 0 ft to 5 ft b) More than 5 ft upto 10 ft.	38515 11344	Cft. Cft.			
01- 02 C 2	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material/ source to be approved by the Engineer) upto free haulage limit.	24930 117181	Cft. Cft.			
01- 02 C 2A	Engineered fill layer not exceeding 6" thick with ASSHTO A-1-a type material & soling with compaction should be 98% MDD, (Maximum Dry density) selected materials including watering and compaction to every layer as per specification and drawings. a) Stone soling 12" compacted layer b) Fill layer not exceeding 6" thick with ASSHTO A-1-a type material.	Rate only Rate only	Cft. Cft.			
01- 02 C 2B	Plate load test as per specifications, including in all respect work complete performe and test reports with any number of tests as required by the engineer.	Rate only	L.s			
DEWATERING						
Ref.Spec. No. G03						
01- 02 C 3	Designing, providing and installation of complete dewatering system including boring, strainer, filter and other all materials, pumping and disposal of water upto Engineer's satisfaction and to keep the construction surface dry all the time. a) Completion of installation works at site, up 100% running/ working position b) Dewatering, days not allow more then/ maximum payable	1 20	L.S. Day			
TERMITE CONTROL TREATMENT						
Ref.Spec. No. C03						
01- 02 C 4	Termite control treatment to surfaces following structures complete in all respect as per specification: (Only plan area will be measured)	11525	Sq.ft.			
REINFORCEMENT						
Ref.Spec. No. C04						
01- 02 C 5	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	43	ton.			
01- 02 C 6	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	1	ton.			
PLAIN AND REINFORCED CONCRETE AND FORMWORKS						
Ref.Spec. No. C04						
01- 02 C 7	Blinding concrete 1250 psi using slag cement conforming to BS-146.	2930	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 8	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Isolated foundations b) Columns upto plinth c) Plinth beams d) SOG & Ramps Slabs e) Walls <u>SITU CONCRETE 1:3:6</u> Ref.Spec. No. C04	10252 2124 2769 158 50	Cft. Cft. Cft. Cft. Cft.			
07- 02 C 9	Situ concrete 1:3:6, with formwork under the plinth beam thickness as per drawings, using slag cement conforming to BS-146, straight or curve at any level including all anchors required to be built in Rcc columns pedestals, complete in all respect as per drawings and specifications. <u>BRICK MASONRY</u> Ref.Spec. No. C05	3474	Cft.			
07- 02 C 9 A	Solid brick masonry under the plinth beam of one and half brick thickness, set in 1:4 using slag cement conforming to BS-146 & sand mortar, straight or curve at any level including all anchors required to be built in brick masonry, complete in all respect as per drawings and specifications. <u>HARDCORE/ STONE SOLING</u> Ref.Spec. No. C07	Rate only	Cft.			
01- 02 C 10	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings. <u>P.C.C UNDER FLOORING</u> Ref.Spec. No. C07	8563	Sq.ft.			
01- 02 C 11	PCC 4" thick plain cement concrete (using slag cement conforming to BS-146) sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer. <u>PLINTH PROTECTION</u> Ref.Spec. No. C04 & C07	8563	Sq.ft.			
01- 02 C 12	Blinding concrete 1250 psi using slag cement conforming to BS-146 <u>PROTECTION WORKS</u> Ref.Spec. No. C16	690	Cft.			
01- 02 C 13	Vapor barrier sheet, under the floor as per drawings and specifications.	8563	Sq.ft.			
01- 02 C 14	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	24796	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>SUPER-STRUCTURE WORKS</u>					
	<u>Ground Floor (From Plinth level to 1st Slab)</u>					
	<u>REINFORCEMENT</u>					
	Ref.Spec. No. C04					
01- 02 C 15	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	32	ton.			
01- 02 C 16	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	1	ton.			
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u>					
	Ref.Spec. No. C04					
01- 02 C 17	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification;					
	a) Columns	1526	Cft.			
	b) Beams & lintels	2171	Cft.			
	c) Slab & projections	5582	Cft.			
	d) Stair cases	373	Cft.			
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts.	259	Cft.			
	f) Parapet wall for stair cases	83	Cft.			
	<u>First Floor (From 1st Slab to 2nd slab)</u>					
	<u>REINFORCEMENT</u>					
	Ref.Spec. No. C04					
01- 02 C 18	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	34	ton.			
01- 02 C 19	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	1	ton.			
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u>					
	Ref.Spec. No. C04					
01- 02 C 20	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification;					
	a) Columns	1690	Cft.			
	b) Beams & lintels	2204	Cft.			
	c) Slab & projections	5765	Cft.			
	d) Stair cases	175	Cft.			
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts.	206	Cft.			
	f) Parapet wall for stair cases	32	Cft.			
	<u>Second Floor / Roof (From 2nd slab to 3rd slab & tower)</u>					
	<u>REINFORCEMENT</u>					
	Ref.Spec. No. C04					
01- 02 C 21	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	4	ton.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 22	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	1	ton.			
<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u>						
01- 02 C 23	Ref.Spec. No. C04 Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures components complete in all respect as per drawings and specification; a) Columns b) Beams & lintels c) Slab & projections d) Parapet Wall/ Purdi e) Precast coping for parapet wall at roof and erecting/ fixing including shuttering and all accessories and/or embedded parts. g) Over head water tank, column, walls & slab f) Others Misc Str	108 137 230 815 1000 396 20	Cft. Cft. Cft. Cft. Rft. Cft. Cft.			
<u>FINISHING WORKS</u>						
<u>For Ground floor</u>						
<u>BLOCK MASONRY</u>						
01- 02 C 24	Ref.Spec. No.C18 Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 4" thick b) 6" thick c) 8" thick d) 4" thick, external cavity; wall with all accessories arrangements for stone tile facing or Color Crete finishig including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	1863 279 5430 1845	Cft. Cft. Cft. Cft.			
<u>BRICK MASONRY</u>						
01- 02 C 24 A	Ref.Spec. No. C05 Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications. a) 4-1/2" thick b) 9" thick c)13-1/2" thick	Rate only Rate only Rate only	Cft. Cft. Cft.			
<u>DOORS FRAMES</u>						
01- 02 C 25	Ref.Spec. No. C09 & C11 G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	752	R.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>CEMENT PLASTER</u> Ref.Spec. No. C06					
01- 02 C 26	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	375	Sq.ft.			
01- 02 C 28	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	8780	Sq.ft.			
01- 02 C 29	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	20773	Sq.ft.			
	<u>ALUMINIUM WORKS</u> Ref.Spec. No. C11					
01- 02 C 30	Supply and fix in position as specified anodized aluminum openable windows and ventilators of 2"x4" section, approved manufacturer having minimum wall thickness not less than 1.6 mm with netted shutter and 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	1733	Sq.ft.			
01- 02 C 31	Supply and fix in position as specified anodized aluminum doors with fixed panel both side and top of approved 2"x4" section, manufacturer having minimum wall thickness not less than 1.6 mm with 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	116	Sq.ft.			
	<u>STRUCTURAL STEEL</u> Ref. Sec.No. C13					
01- 02 C 32	Mild steel grills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings and specification.	2166	Kg			
01- 02 C 33	Providing and fixing railing for stairs/ramps as per drawing and specifications complete in all respect. a) MS railing stairs b) M.S railing at entrance	54 60	Rft Rft			
01- 02 C 34	Providing and fixing MS pipe railing for courtyard with paintings, as per drawing and specifications complete in all respect and approved by the Engineer.	177	Rft			
01- 02 C 35	Providing and fixing MS folding gate (Emergency Exit) with paintings, complete in all respects as per drawing and specifications.	2	No			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 35 A	Providing and fixing MS folding Main entrance gate with paintings, complete in all respects as per drawing and specifications.	1	No			
	<u>FLOOR AND WALL FINISHES</u>					
	Ref.Spec. No. C07					
01- 02 C 36	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	7841	Sq.ft.			
01- 02 C 37	Providing and laying terrazzo tile for entrance ramp (3/4" thick) with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	75	Sq.ft.			
01- 02 C 38	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	494	Sq.ft.			
01- 02 C 39	Porcelain tile floor (type) using tile of size 8"x8" (full body), approved quality, colour and shade laid in approved pattern set in specified mortar including cement concrete base, complete in all respect as shown on the drawings and specifications.	730	Sq.ft.			
01- 02 C 40	Porcelain tile in Dado using tile of size 8"x8", quality, colour and shade laid in approved pattern including rough plaster base complete in all respect as shown on drawings and specifications.	3664	Sq.ft.			
	<u>MARBLE WORKS</u>					
	Ref.Spec. No. C07 & C08					
01- 02 C 41	Pre-polished marble on entrance steps, stairs, ramp & floor etc using approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.					
	a) Entrance Steps & Platform (3/4" thick)	325	Sq.ft.			
	b) Entrance Steps Risers (1/2" thick)	60	Sq.ft.			
01- 02 C 42	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	382	Sq.ft.			
01- 02 C 43	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	106	Sq.ft.			
01- 02 C 44	Pre-polished marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish including complete in all respect as shown on the drawings.	53	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 45	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings. <u>PAINTING</u> Ref.Spec. No. C10	83	Sq.ft.			
01- 02 C 46	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	8780	Sq.ft.			
01- 02 C 47	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	20773	Sq.ft.			
01- 02 C 48	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. including complete in all respect as shown on the drawings. <u>WOODEN DOORS</u> Ref.Spec. No. C09	375	Sq.ft.			
01- 02 C 49	Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partal wood frame and infill, polish, color/ lacker, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	1093	Sq.ft.			
01- 02 C 50	Fixed 6mm plain laminated glass panel part at above door panel with solid wood batten including teak polish/ lacker at both sides around the glass of approved type, quality complete in all respect as shown on the drawings and specifications. <u>FALSE CEILING</u> Ref.Spec. No. C14	146	Sq.ft.			
01- 02 C 51	1/2" thick gypsum board ceiling including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on the drawings and specifications.	730	Sq.ft.			
01- 02 C 52	<u>Pre cast C.C Patren jali</u> Ref.Spec. No.C18, C5 C.C Patren jali as per approved designed and specification	360	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 53	<u>CLADDING/ EXTERNAL FACING</u> Ref.Spec. No.C19 & C20 Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	5591	Sq.ft.			
01- 02 C 53 A	Providing and laying Color-Crete with 3/4" Cement sand plaster on extrenal facing as per approverd sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	3074	Sq.ft.			
01- 02 C 53 B	Ref.Spec. No. C05 Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq.ft.			
	<u>FINISHING WORKS</u> <u>For First floor</u> <u>BLOCK MASONRY</u>					
01- 02 C 54	Ref.Spec. No.C18 Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 4" thick b) 6" thick c) 8" thick d) 4" thick, external cavity; wall with all accessories arrangements for stone tile facing or Color Crete finishig including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	551 83 6198 1845	Cft. Cft. Cft. Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 54 A	<p><u>BRICK MASONRY</u> Ref.Spec. No. C05 Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.</p> <p>a) 4-1/2" thick b) 9" thick c)13-1/2" thick</p>	Rate only Rate only Rate only	Cft. Cft. Cft.			
01- 02 C 55	<p><u>DOORS FRAMES</u> Ref.Spec. No. C09 & C11 G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.</p>	725	R.ft.			
01- 02 C 56	<p><u>CEMENT PLASTER</u> Ref.Spec. No. C 06 3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers including complete in all respect as shown on the drawings.</p>	175	Sq.ft.			
01- 02 C 57	<p>1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.</p>	8713	Sq.ft.			
01- 02 C 57 A	<p>1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.</p>	20562	Sq.ft.			
01- 02 C 58	<p><u>ALUMINIUM WORKS</u> Ref.Spec. No. C 11 Supply and fix in position as specified anodized aluminum openable windows and ventilators of 2"x4" section, approved manufacturer having minimum wall thickness not less than 1.6 mm with netted shutter and 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.</p>	1414	Sq.ft.			
01- 02 C 59	<p><u>STRUCTURAL STEEL</u> Ref. Sec.No. C 13 Mild steel grills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings.</p>	1739	Kg			
01- 02 C 60	<p>Providing and fixing MS stair railing as per drawing and specifications complete in all respect.</p>	30	Rft			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 61	Providing and fixing MS pipe railing for courtyard with paintings, as per drawing and specifications complete in all respect and approved by the engineers.	201	Rft			
	<u>FLOOR AND WALL FINISHES</u> Ref.Spec. No. C 07, 08					
01- 02 C 62	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	9213	Sq.ft.			
01- 02 C 63	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	576	Sq.ft.			
01- 02 C 64	Porcelain tile floor (type) using tile of size 8"x8" (full body), approved quality, colour and shade laid in approved pattern set in specified mortar including cement concrete base, complete in all respect as shown on the drawings.	500	Sq.ft.			
01- 02 C 65	Porcelain tile in Dado using tile of size 8"x8", quality, colour and shade laid in approved pattern including rough plaster base complete in all respect.	2364	Sq.ft.			
	<u>MARBLE WORKS</u> Ref.Spec. No. C 07, 08					
01- 02 C 66	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	176	Sq.ft.			
01- 02 C 67	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	50	Sq.ft.			
01- 02 C 68	Pre-polished marble tile for counter tops & other area 3/4" thick using of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including complete in all respect as shown on the drawings.	50	Sq.ft.			
01- 02 C 69	Pre-polished Marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	34	Sq.ft.			
01- 02 C 70	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	45	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>PAINTING</u>					
01- 02 C 71	Ref.Spec. No. C 10 Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	8713	Sq.ft.			
01- 02 C 72	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	20562	Sq.ft.			
	<u>WOODEN DOORS</u>					
01- 02 C 73	Ref.Spec. No. C 09, 12 Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partial wood frame and infill, polish, color/ lacker, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	1071				
01- 02 C 74	Fixed 6mm plain laminated glass panel part at above door panel with solid wood batten including teak polish/ lacker at both sides around the glass of approved type, quality complete in all respect as shown on the drawings and specifications.	93	Sq.ft.			
	<u>FALSE CEILING</u>					
01- 02 C 75	Ref.Spec. No.C14 12mm thick gypsum board ceiling including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on the drawings and specifications.	635	Sq.ft.			
	<u>Pre cast C.C Patren jali</u>					
01- 02 C 76	Ref.Spec. No.C18, C5 C.C Patren jali as per approved designed and specification	731	Sq.ft.			
	<u>STONE CLADDING/ COLOR-CRETE/ EXTERNAL FACING</u>					
01- 02 C 77	Ref.Spec. No. C19 & C20 Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	5591	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 77 A	Providing and laying Color-Crete with 3/4" Cement sand plaster on extrenal facing as per approverd sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	3074	Sq.ft.			
01- 02 C 77 B	Ref.Spec. No. C05 Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq.ft.			
01- 02 C 78	<u>WATER PROOFING AND BUILTUP ROOFING</u> Ref.Spec. No.C 16 Water proofing and built up roofing over roof slab comprising all the layers and coatings etc as shown in the drawings and specifications.	11795	Sq.ft.			
01- 02 C 79	<u>FINISHING WORKS</u> <u>For Roof floor / Secound floor</u> <u>BLOCK MASONRY</u> Ref.Spec. No. C18 Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 4" thick b) 6" thick c) 8" thick d) 4" thick, external cavity; wall with all accessories arrangements for stone tile facing or Color Crete finishig including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	30 50 430 1347	Cft. Cft. Cft. Cft.			
01- 02 C 79A	<u>BRICK MASONRY</u> Ref.Spec. No. C05 Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications. a) 4-1/2" thick b) 9" thick c)13-1/2" thick	Rate only Rate only Rate only	Cft. Cft. Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>DOORS FRAMES</u>					
01- 02 C 80	Ref.Spec. No. C09 & C11 G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	35	R.ft.			
	<u>CEMENT PLASTER</u>					
01- 02 C 81	Ref.Spec. No. C 06 3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection, parapet or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and as per elevation complete in all respect as shown on the drawings.	2504	Sq.ft.			
01- 02 C 82	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	388	Sq.ft.			
01- 02 C 83	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	928	Sq.ft.			
01- 02 C 84	3/4" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls to O.H.W Tank etc with making of chamfer corner in plaster as per drawings and specifications.	305	Sq.ft.			
01- 02 C 85	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating.	150	Sq.ft.			
01- 02 C 86	Water proofing coating treatment to all horizontal surfaces in contact with water shall be treated with 1 coat of crystalline water proofing coating.	210	Sq.ft.			
01- 02 C 86	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, including fixing of frame and embedded parts in concrete and painting, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 02 C 86 A	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer. (For O.H.W tank)	4	No.			
	<u>FLOOR AND WALL FINISHES</u>					
01- 02 C 87	Ref.Spec. No. C 07, 08 Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	180	Sq.ft.			
01- 02 C 88	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	16	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 89	MARBLE WORKS Ref.Spec. No. C 07, 08 Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	6	Sq.ft.			
01- 02 C 90	PAINTING Ref.Spec. No. C 10 Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	388	Sq.ft.			
01- 02 C 91	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	928	Sq.ft.			
01- 02 C 92	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc.complete in all respect as directed by the Engineer.	2504	Sq.ft.			
01- 02 C 93	WOODEN DOORS Ref.Spec. No. C 09, C12 Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partial wood frame and infill, polish, color/ lacker, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	45	Sq.ft.			
01- 02 C 94	Pre cast C.C Patren jali and Railing Ref.Spec. No.C18, C5 & C21 C.C Patren jali as per approved designed and specification	100	Sq.ft.			
01- 02 C 95	Precast water spout as per approved designed and specification	15	No.			
01- 02 C 96	CLADDING/ EXTERNAL FACING Ref.Spec. No. C19 & C20 Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	4083	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
02 C 97	Providing and laying Color-Crete with 3/4" Cement sand plaster on extrenal facing as per approverd sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	566	Sq.ft.			
01- 02 C 98	Ref.Spec. No. C05 Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq.ft.			
Total C/o to Summary for CIVIL WORKS Pak Rs.						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>EXTERNAL DEVELOPEMENT</u>					
	<u>CONSTRUCTION OF BOUNDARY WALL</u>					
	Ref.Spec. No. C02					
	<u>EARTHWORKS</u>					
	Ref.Spec. No.					
01- 03 D 1	Excavation in all kinds of sub-surface materials, timbering upto following depths including disposal of surplus / rejected excavated materials to designated places.					
	a) 0 ft to 5 ft	3,078	Cft.			
01- 03 D 2	Fill and backfill with selected materials including watering and compaction to every layer as per specification.					
	a) From suitable excavated material (from stockpile of excavated materials)	1,539	Cft.			
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	11,606	Cft.			
01- 03 D3	Area fill with selected materials from outside source including watering and compaction to every layer as per specification for Play ground.	28,539	Cft.			
	<u>DEWATERING</u>					
	Ref.Spec. No. G03					
01- 03 D4	Designing, providing and installation of complete dewatering system including boring, strainer, filter and other all materials, pumping and disposal of water upto Engineer's satisfaction and to keep the construction surface dry all the time.					
	a) Completion of installation works at site, up 100% running/ working position	1	L.S.			
	b) Dewatering	10	Day			
	<u>TERMITE CONTROL TREATMENT</u>					
	Ref.Spec. No. C03					
01- 03 D5	Termite control treatment to surfaces following structures complete in all respect as per specification: (Only plan area will be measured)	2,465	Sq.ft.			
	<u>REINFORCEMENT</u>					
	Ref.Spec. No. C04					
01- 03 D6	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	6.45	ton.			
	<u>PLAIN AND REINFORCED CONCRETE</u>					
	Ref.Spec. No. C04					
01- 03 D7	Blinding concrete 1250 psi using slag cement conforming to BS-146.	514	Cft.			
01- 03 D7A	Situ concrete 1:3:6, with formwork under the plinth beam thickness as per drawings, using slag cement conforming to BS-146, straight or curve at any level including all anchors required to be built in RCC columns pedestals, complete in all respect as per drawings and specifications.	447	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D8	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Footings b) Columns upto plinth c) Plinth beams	870 187 537	Cft. Cft. Cft.			
01- 03 D9	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification; a) Columns	388	Cft.			
	<u>BLOCK MASONRY</u> Ref.Spec. No. C18					
01- 03 D10	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 8" thick / 4" thick	2,504	Cft.			
	<u>BRICK MASONRY</u> Ref.Spec. No. C05					
01- 03 D10 A	Solid brick masonry wall 9" thick with using slag cement conforming to BS-146 set in 1:4 cement sand mortar, straight or curve below plinth beam, planters including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per Drawings and Specifications. a) 9" thick	Rate only	Cft.			
01- 03 D10 B	Solid brick masonry wall with pointing on both faces above plinth beam 9" thick set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties, and other fixtures required to be built in brick masonry, complete in all respect as per Drawings and specifications. a) 4 1/2" thick	Rate only	Cft.			
	<u>CEMENT PLASTER</u> Ref.Spec. No. C06					
01- 03 D11	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces (Columns, wall, beams and project etc.) including making grooves as per design and elevation complete in all respect as shown on the drawings.	2,919	Sq.ft.			
	<u>PROTECTION WORKS</u> Ref.Spec. No. C16					
01- 03 D12	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	3,725	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D13	<u>COPING</u> Ref.Spec. No. C04 Providing and fixing 3" thick coping including plaster using OP cement for boundary wall complete as shown on the drawings.	408	Rft.			
01- 03 D14	<u>STRUCTURAL STEEL</u> Ref. Sec.No. C13 Mild steel main gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 14'x7')	2	no			
01- 03 D15	Mild steel wicket gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 3'x7')	2	no			
01- 03 D 15A	<u>CLADDING/ EXTERNAL FACING</u> Ref.Spec. No. C19 & C20 Providing and laying stone cladding/ stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	6936	Sq.ft.			
01- 03 D 16	<u>LANDSCAPING</u> Ref. Sec.No. C17 Fill and backfill with selected materials including watering and compaction to every layer as per specification.	1,539	Cft.			
01- 03 D17	Area fill with selected materials including watering and compaction to every layer as per specification.	48,750	Cft.			
01- 03 D18	Relocation and replanting of removed trees as per specifications and and as directed by the Engineer.	20	No.			
01- 03 D19	Development of lawn (grass) including fertilizer mixed with earth including spreading and watering etc. and cutting etc. till guarantee period (12 months) complete in all respect as shown on the drawings and as per specifications.	10,215	Sq.ft.			
01- 03 D20	12" thick approved selected sweet earth including spreading, levelling, dressing and watering etc. complete in all respect as per specifications and as directed by the Engineer.	10,215	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D21	Trees/ plants of the following types and size/ height including excavation, backfilling, manure/ fertilizer, supports and water etc. complete in all respect as shown on the drawings, specifications and as directed by the Engineer. a) Neem tree (3 to 4 feet) b) Babul tree (3 to 4 feet) c) Golmohar (3 to 4 feet) d) Champa (2 to 3 feet) e) Crape Jasmine (2 to 3 feet) f) Cement Concrete planters.	16 5 12 30 27 168	No. No. No. No. No. Rft			
	<u>Foothpath Walkway (Precast Paving Blocks / Tiles)</u> Ref. Sec.No.C21					
01- 03 D22	4" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	2,098	Sq.ft.			
01- 03 D23	Precast cement concrete paving blocks envicrete or approved equivalent of size 8" x 4" x 2.5" laid in approved pattern including 2" thick sand cushion,	2,098	Sq.ft.			
01- 03 D24	PCC concrete kerb envicrete or approved equivalent including lean, hauching concrete etc complete as per drawing and specifications with earth cutting/ filling, levelling, dressing etc complete in all respect as per specifications and as directed by the Engineer.	455	Rft			
01- 03 D24A	Plain cement concrete panel flooring including 1/2" Groove @ 8"c/c, joints etc complete as shown in the drawings.	788	Sq.ft.			
	<u>EXTERNAL SEWER & MANHOLES</u>					
01- 03 D25	Construction of manholes with material including, excavation, base top RCC slab, GI steps, CC benching water proof internal plaster, external bitumen coating etc inlet/out connections etc. i. 24" x 24" SIZE ii. 36" x 36" SIZE	8 2	Nos. Nos.			
01- 03 D26	Supply and fix water tight (Square Type) Malleable Iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	10	No.			
	<u>Septic Tank</u>					
01- 03 D27	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft.	830 430	Cft. Cft.			
01- 03 D28	Blinding concrete 1250 psi using slag cement conforming to BS-146	55	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D29	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of Crystalline water proofing coating.	490	Sq.ft.			
01- 03 D30	Water proofing coating treatment to all surfaces in contact with water shall be treated with 1 coat of Crystalline water proofing coating on horizontal surface.	140	Sq.ft.			
01- 03 D30	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) Base Slab. b) Walls including chamfer etc. c) Top Slab	111 345 70	Cft. Cft. Cft.			
01- 03 D31	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	1.5	Ton			
01- 03 D32	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	90	Sq.ft.			
01- 03 D33	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	630	Sq.ft.			
01- 03 D34	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings complete in all respect as shown on the drawings and specifications.	430	Sq.ft.			
01- 03 D35	Providing embedding 10" wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	51	Rft.			
01- 03 D36	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 03 D37	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No.			
01- 03 D38	<u>Soakage Pit</u> Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft. c) More than 10 ft upto full depth.	900 900 1,800	Cft. Cft. Cft.			
01- 03 D39	Blinding concrete 2000 psi using slag cement conforming to BS-146	25	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D40	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 20" thick b) 16" thick b) 12" thick	680 550 210	Cft Cft Cft			
01- 03 D41	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. Pre-cast R.C.C Slab	90	Cft			
01- 03 D42	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.35	Ton			
01- 03 D43	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	1	No			
01- 03 D44	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	24	No			
	<u>Ground Storage Tank</u>					
01- 03 D45	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft.	725 12	Cft. Cft.			
01- 03 D46	Blinding concrete 1250 psi using slag cement conforming to BS-146	48	Cft.			
01- 03 D47	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) Base Slab. b) Walls including chamfer etc. c) Top slabs d) Precast Slab	100 255 60 10	Cft. Cft. Cft. Cft.			
01- 03 D48	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	1	Ton			
01- 03 D49	Providing embedding 10" (250 mm) wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	55	Rft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D50	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 12" thick	75	Cft.			
01- 03 D51	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 03 D52	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	10	No.			
01- 03 D53	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	530	Sq.ft.			
01- 03 D54	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	116	Sq.ft.			
01- 03 D55	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	435	Sq.ft.			
01- 03 D56	2" thick, 3000psi (cly) cement concrete floor and screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	185	Sq.ft.			
01- 03 D57	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc.complete in all respect as per specifications.	90	Sq.ft.			
01- 03 D58	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	12	Sq.ft.			
01- 03 D59	Providing and applying three or more coats of matt emultion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	40	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D60	MS Door including paint etc complete in all respect as shown in the drawings.	15	Sq.ft.			
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 2 coats of crystalline water proofing coating on vertical surfaces	577	Sq.ft.			
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 1 coat of crystalline water proofing coating on horizontal surfaces.	83	Sq.ft.			
<u>Tube Well / Penumatic Pump</u>						
<u>Construction works</u>						
01- 03 D62	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft	150	Cft.			
01- 02 C 63	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials)	20	Cft.			
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	40	Cft.			
01- 03 D64	Blinding concrete 1250 psi using slag cement conforming to BS-146	60	Cft.			
01- 03 D65	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification; Pre-cast R.C.C Slab including Beam	35	Cft.			
01- 03 D66	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.05	Ton			
01- 03 D67	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 20" thick, for foundation	50	Cft			
	b) 16" thick, for foundation	40	Cft			
	c) 12" thick, for foundation	45	Cft			
	d) 12" thick, for above G.L	180	Cft			
e) 4" thick, for parapet wall	10	Cft				
01- 03 D68	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	285	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D69	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	25	Sq.ft.			
01- 03 D70	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	150	Sq.ft.			
01- 03 D71	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	25	Sq.ft.			
01- 03 D72	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	25	Sq.ft.			
01- 03 D73	Plain cement concrete 2" thick floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	25	Sq.ft.			
01- 03 D74	Plain cement concrete 2" thick screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	33	Sq.ft.			
01- 03 D75	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc.complete in all respect as per specifications.	285	Sq.ft.			
01- 03 D76	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	25	Sq.ft.			
01- 03 D77	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	150	Sq.ft.			
01- 03 D78	Vapor barrier sheet, under foundations and floor as per drawings and specifications.	25	Sq.ft.			
01- 03 D79	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	250	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>Kanchan Arsenic filter</u>					
01- 03 D80	Excavation and backfilling in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places. a) 0 ft to 5 ft	75	Cft.			
01- 03 D81	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material / scorce to be approved by the Engineer) upto free haulage limit.	50 100	Cft. Cft.			
01- 03 D82	Blinding concrete 1250 psi using slag cement conforming to BS-146	15	Cft.			
01- 03 D83	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) footing b) Columns up bottom first slab c) Slabs & projection e) Walls including chamfer etc.	25 20 35 80	Cft. Cft. Cft. Cft.			
01- 03 D84	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.5	Ton			
01- 03 D85	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	84	Sq.ft.			
01- 03 D86	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	84	Sq.ft.			
01- 03 D87	2" thick, 3000 cement concrete floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	84	Sq.ft.			
01- 03 D88	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	152	Sq.ft.			
01- 03 D89	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	126	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D90	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating.	126	Sq.ft.			
01- 03 D91	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	218	Sq.ft.			
	<u>Holding Tank</u>					
01- 03 D92	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft.	755 540	Cft. Cft.			
01- 03 D93	Blinding concrete 1250 psi using slag cement conforming to BS-146	50	Cft.			
01- 03 D94	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of Crystalline water proofing coating.	466	Sq.ft.			
01- 03 D95	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) Base Slab. b) Walls including chamfer etc. c) Top Slab	107 335 89	Cft. Cft. Cft.			
01- 03 D96	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	1.150	Ton			
01- 03 D97	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	102	Sq.ft.			
01- 03 D98	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	349	Sq.ft.			
01- 03 D99	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings complete in all respect as shown on the drawings and specifications.	466	Sq.ft.			
01- 03 D100	Providing embedding 10" wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	44	Rft.			
01- 03 D101	Supply and fix water tight (Round Type, 24") Pre-cast heavy duty cover with M.S frame work, including liftring handle, making good, complete in all respect as per specification and as directed by the Engineer.	2	No.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D102	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No.			
	Soakage Trench					
01- 03 D103	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft.	5,125 -	Cft. Cft.			
01- 03 D104	Blinding concrete 1250 psi using slag cement conforming to BS-146	151	Cft.			
01- 03 D105	Solid brick masonry wall from 13-1/2" to 31-1/2" thicknesses set in 1:4 cement sand mortar.	520	Cft			
01- 03 D106	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. Pre-cast R.C.C Slab including beam	250	Cft			
01- 03 D107	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.57	Ton			
01- 03 D108	Supply and fix water tight (Round Type, 24") Pre-cast heavey duty cover with M.S frame work, including liftring handle, making good, complete in all respect as per specification and as directed by the Engineer.	6	No.			
01- 03 D109	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	18	No			
01- 03 D110	Supply and fill 1/2" to 2" size gravel in trench complete in all respects, as per drawing and directed by the Engineer.	150	Cft			
	Plain cement concrete panel flooring:					
01- 03 D111	Plain cement concrete panel flooring including sub flooring and base preparation, joints etc complete as shown in the drawings.	3,491	Sq.ft.			
Sub- Total C/o to Summary for External Development work Pak Rs.						

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Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
32-04E 1	<p>PART -1 <u>Distribution Board</u> <u>Distribution Board</u></p> <p>Fabrication, Supply, installation, Testing and commissioning at site of following Distribution board, made of MS Sheet 16 SWG with hinged door, handle, catcher, earthing bar, neutral strip, internal wiring from MCBs terminating on cable terminal blocks, 2 coats of antirust and powder coated paint of approved colour, including cost of all necessary materials complete in all respects, DBs shall be manufactured as per specification, single line diagram complete in all respect up to the satisfaction of Engineer.</p>					
	i) MDBLP-GF	1	No.			
	ii) DBLP-GF1	1	No.			
	iii) DBLP-GF2	1	No.			
	vi) DBLP-FF1	1	No.			
	v) DBLP-FF2	1	No.			
	vi) MCC-WP	1	No.			
	vii) DB-EXT (IP 54)	1	No.			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART-2: <u>CABLES AND CONDUITS</u>					
37-04E 2	<u>L.V. Power Cables</u> Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 600 / 1000 Volt grade manufactured by any one of the manufacturers as mentioned in approved manufacturer list in prelaidd conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the employers electrical engineer before placing the order with the manufacturer.					
	a) 4 Core Cu/PVC/PVC CABLE					
	i. 4 core 10mm.sq.	545	R.ft			
	ii. 4 core 16mm.sq.	330	R.ft			
	iii. 4 core 50mm.sq.	100	R.ft			
	b) Circuit Protective Conductor (CPC)					
	i. 1 core 10mm sq. PVC insulated colour Green/Yellow.	545	R.ft			
	ii. 1 core 16mm sq. PVC insulated colour Green/Yellow.	330	R.ft			
	iii. 1 core 25mm sq. PVC insulated colour Green/Yellow.	100	R.ft			
37-04E 3	<u>P.V.C. Conduit and Accessories</u> Supply at site of PVC conduit to be installed on slabs, walls, floor, columns or as required as per site conditions including cost of all PVC conduit accessories, steel pull wires, complete in all respects.					
	a) 32mm (1.25") dia. PVC conduit to pull electric cable.	415	R.ft			
	b) 38mm (1.5") dia. PVC conduit to pull electric cable.	360	R.ft			
	c) 50mm (2") dia. PVC conduit to pull electric cable.	135	R.ft			
	d) 75mm (3") dia. PVC conduit to pull electric cable.	200	R.ft			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART-3 <u>Wiring & Conduiting</u>					
25-04E 4	<u>Circuit Wiring & Conduiting</u>					
	a) Circuit Wiring and conduiting from DB to switch / Fan dimmer with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	32	Nos.			
	Same as item (a) but wiring from switch to switch with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit.	57	Nos.			
	c) Wiring from switch/dimmer to first light/fan point with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm dia PVC conduit, complete with cables and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	181	Nos.			
	d) Wiring and conduiting of light point to point with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	105	Nos.			
	e) Circuit Wiring and conduiting from DB to power socket outlet with 2 x 4 sq.mm 1 core Cu/PVC insulated cable + CPC 4 sq.mm 1 core Cu/PVC insulated cable in 20 mm dia PVC conduit complete with cables, conduits and all necessary accessories such as sheet steel back box with earth connecting point bends, junction boxes, sockets etc., as per the specifications and drawings and approval by the Engineer.	21	Nos.			
	f) Same as item (e) but wiring between adjacent socket outlets with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC.	17	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
g)	Same as (e) but wiring from socket outlet to socket outlet with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC.	37	Nos.			
h)	Wiring and conduiting from DB to water pump/LBS with 2 x 6 sq.mm 1 core Cu/PVC insulated cable + CPC 6 sq.mm 1 core Cu/PVC insulated cable in 25 mm dia PVC conduit complete with cables, conduits and all necessary accessories such as bends, junction boxes, sockets etc., as per the specifications and drawings and approval by the Engineer.	4	Nos.			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	<u>PART-4: LIGHT FIXTURES, FANS, SWITCHES, OUTLETS & ACCESSORIES</u>					
37-04E 5	<u>LIGHT FIXTURES</u> Supply, Installation, testing and commissioning of following light fittings, ceiling /wall mounted / with hanging arrangement made of fiber / plastic body. Complete with electronic blast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, as per approved manufacturer, fittings shall be duly approved by Engineer.					
	a. Fluorescent Light TMS 015 with 1x36Watt TL-D lamp color 84 & electronic ballast.	73	Nos.			
	b. Fluorescent Light TMS 015 with 1x18Watt TL-D lamp color 84 & electronic ballast.	6	Nos.			
	c. LED Light TCS398 2x16Watt TL-Master LED lamp with M2 Louver .	22	Nos.			
	d. LED Light TCS398 2x16Watt TL-Master LED lamp with M2 Louver.(with hanging arrangement)	94	Nos.			
	e. Fluorescent Light TBS 318 with 1x36Watt TL-D lamp color 84 & electronic ballast.	16	Nos.			
37-04E 6	<u>Ceiling Fans</u> Supply, installation and commissioning of 4-blades ceiling fans of following sizes, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respects, fittings shall be duly approved by Engineer.					
	a. 56" dia.	7	Nos.			
	b. 48" dia.	65	Nos.			
	c. 36" dia.	1	Nos.			
37-04E 7	<u>Switches & Fan Dimmers</u> Supply and installation of following type gang switches of 10 Amp rating, including 16 SWG sheet steel back box recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respect, as per specifications and drawings and approval by the Engineer.					
	i) One gang - 1 Way Switch	6	Nos.			
	ii) Two gang - 1 Way Switch	25	Nos.			
	iii) Three gang - 1 Way Switch	14	Nos.			
	iv) Four gang - 1 Way Switch	2	Nos.			
	v) One gang - Fan Dimmer	7	Nos.			
	vi) Two gang - Fan Dimmer	33	Nos.			
	vii) One gang - 2 Way Switch	2	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
37-04E 8	<p>SOCKETS</p> <p>Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and drawings, as per approved manufacturer list and approval by the Engineer.</p>					
	i) 10A, 2-pin universal Switch Socket outlet.	29	Nos.			
	ii) 13A, 3-pin Simplex Switch Socket outlet.	32	Nos.			
	iii) 13A, 3-pin Duplex Switch Socket outlet.	10	Nos.			
	iv) 15A, 3-pin Round Switch Socket outlet.	6	Nos.			
	v) Floor Box - Type B	16	Nos.			
37-04E 9	<p>LOAD BREAK SWITCHES</p> <p>Supply, installation, testing & commissioning of following size Load Break switch with MS back box including all accessories complete in all respects, as per specifications and drawings and approval by the Engineer.</p>					
	i) 30 Amp SPN LBS	1	Nos.			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
37-04E 10	<u>PART-5: EARTHING SYSTEM</u> <u>Earth Electrode</u> Supply at site and installation of Copper earth electrodes, 10 feet long and 17mm dia including cost of all necessary materials, complete in all respects, as per specification.	11	Nos.			
37-04E 11	<u>Copper Conductor</u> a) Supply, installation and connecting up of 1 x 16sqmm 1-Core Cu/PVC cable, directly buried in ground from ECP in pit to earth electrode, includes excavation, backfilling of earth, cad-welding of copper conductor to earth electrode rod at one end and provision/ fixing of cable lugs at other end, including all accessories as per the Specifications and Drawings and to the entire satisfaction and approval of the Engineer.	10	R.ft			
	b) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable in 38mm dia PVC conduit, directly buried in ground, from Pit to ECP / MCC, as per drawing or as per the instructions of the engineer. including cost of excavation, backfilling of earth, brass nuts, bolts, washers, all necessary accessories, complete in all respects.	25	R.ft			
	c) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from ECP to U-link box and from U-Link box to data patch panel, as per drawing or as per the instructions of the engineer. including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	85	R.ft			
	d) Supply, installation and connections of bare copper conductor 50 mm sq. in 38mm dia PVC conduit, from building rebars / earth electrode to earth connecting point, as per drawing or as per the instructions of the engineer. including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	15	R.ft			
	e) Supply, installation and connections of copper conductor 1x50 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from earth connecting point to distribution board, as per drawing or as per the instructions of the engineer. including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	15	R.ft			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
37-04E 12	<p><u>Earth Connecting Points (ECP)</u></p> <p>Supply of earth connecting points consisting of copper plate 300mm long x 50mm wide x 6mm thick to be installed as and where shown on drawings, complete with fixing arrangement, brass nuts bolts, washers, lugs, 1/2" dia. holes to facilitate connections of Incoming copper strips / copper conductors and outgoing CPC.</p>	2	Nos.			
37-04E 13	<p><u>ECP (in inspection Chamber)</u></p> <p>Supply of earth connecting points in Earth pit / inspection chamber consisting of copper plate 200mm long x 50mm wide x 6mm thick with necessary holes, all fixing accessories of the copper plates on the wall of main holes, brass nuts bolts, washers, including cost of all necessary materials, complete in all respects.</p>	2	Nos.			
37-04E 14	<p><u>Earth pit / Inspection Chamber</u></p> <p>Construction of Earth pit/ inspection chamber 375mm x 375mm x 450mm deep with 150mm thick wall and 330mm x 330mm heavy duty R.C.C Cover, complete in all respects, as per specification.</p>	2	Nos.			
37-04E 15	<p><u>Testing</u></p> <p>Testing of the earthing system with "Earth Tester" along with other testing accessories. Testing shall be performed in the presence of the Engineer and written test result duly verified by the Engineer shall be submitted to the Client for his record.</p>	1	Job			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART-6: <u>TELEPHONE / VOICE SYSTEM</u>					
32-04E 16	<u>Telephone / Data Network</u>					
	a) Wiring for each telephone point from Utility box to telephone point with Cat 6 UTP in 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects, as per drawing and specification.	230	R.ft			
	b) Wiring for each data point from Utility box with Cat 6A UTP, to data point, including cost of 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects as per drawing and specification.	1200	R.ft			
	c) Wiring from Utility box with Four pair Cat 6A UTP, to data patch panel, including cost of 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects as per drawing and specification.	140	R.ft			
	d) Supply, Installation of following telephone / data Outlet plate including RJ-45 IOs and 16 SWG sheet steel back box recessed in wall or wall surface, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.					
	i) Simplex Outlet RJ 45	23	Nos.			
	ii) Duplex Outlet RJ 45	3	Nos.			
37-04E 17	<u>U-link Box</u>					
	Supply, Installation, testing and commissioning of U-link box, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.	1	Nos.			
37-04E 18	<u>Patch Panel</u>					
	a) Supply and installation of following Patch Panels complete in all respects as per the specifications and drawings and to the approval of the Engineer.					
	i) 24 Port Patch Panel	1	Nos.			
37-04E 19	<u>Telephone / Data Patch Cords</u>					
	a) Supply and connecting of telephone 2 Pair drop cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer.	5	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	b) Supply and connecting of data CAT 6A patch cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer.					
	i) 1 meter long	24	Nos.			
	ii) 3 meter long	24	Nos.			
37-04E 20	<u>Communication Rack</u> Supply installation of 15U Data racks for the fixing of 12 port rack mounted 19" CAT-6A UTP Patch Panel with cable organizer including all installation accessories as per specification complete in all respect to the approval of engineer.	1	Nos.			
37-04E 21	<u>Telephone Sets</u> Supply and connection of following type of Telephone sets.					
	a) Telephone with CLI Module	2	Nos.			
	b) Telephone without CLI Module	3	Nos.			
CARRIED FORWARD TO SUMMARY						
37-04E 22	<u>PART -7 Fire Alarm System</u> <u>Fire Alarm System</u> a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect.					
	i) Smoke detector with buzzer	8	Nos.			
	ii) Heat detector with buzzer	4	Nos.			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	<u>PART -8 LIGHTNING PROTECTION SYSTEM</u>					
37-04E 23	<u>Roof Conductor</u> Supply at site and installation of 50sqmm stranded bare copper conductor fixed on parapet walls or on flat surface of roof as shown on drawing or as required as per site conditions, including cost of copper saddles, copper crossing 3"x3" as shown on drawings, brass screws, all necessary fixing material / accessories, complete in all respects.	1415	R.ft.			
37-04E 24	<u>Down Conductor</u> a) Supply at site, installation, connections of 50mm.sq. stranded bare copper conductor in 38mm dia. PVC conduit as down conductors to be installed within the columns from air terminal on roof to building rebars, all other required accessories including cadweld, complete in all	675	R.ft.			
37-04E 25	<u>Air terminal</u> Supply, installation and connecting up of 1 x 16mm DIA SOUND ROUND COPPER 600mm LONG AERIAL ROD as and where shown on drawings, complete with fixing arrangement, cost of all necessary materials / accessories, complete in all respects.	8	Nos.			
37-04E 26	<u>Copper Test Link</u> Supply at site and installation of sectionable copper test link made of 200mm x 200mm uPVC enclosure with necessary holes, all fixing accessories of the copper test link to be installed on the wall of manholes, brass nuts bolts, washers, including cost of all necessary materials, complete in all respects.	8	Nos.			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART -9 Public Address System					
37-04E 27	<u>Amplifier</u> a) Supply, installation & commissioning of following type amplifier with three outputs, three microphone inputs and one music input, complete in all respect, as per approved manufacturer list. i) 30W	2	Nos.			
37-04E 28	<u>Speakers</u> a) Supply, installation & commissioning of 10W wall mounted speaker with all accessories complete in all respects, as per approved manufacturer list.	4	Nos.			
37-04E 29	<u>Microphone</u> Cordless Microphone.	2	Nos.			
37-04E 30	<u>Wiring</u> Wiring with 2 Core, 2.5 sq.mm PVC insulated and PVC sheathed Cable from Amplifier / controller to speaker and speaker to speaker in 20mm dia PVC conduit complete in all respects upto maximum (15 Nos speaker) as shown in riser diagram.	180	R.ft.			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART -10 EXTERNAL AREA LIGHTING					
37-04E31	<u>LIGHT FIXTURES</u> Supply, Installation, testing and commissioning of following light fittings, wall mounted arrangement made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, as per approved manufacturer, fittings shall be duly approved by Architect / Engineer.					
	a) Bulkhead light fixture mounted on wall with 1x18Watt PLC lamp.	12	Nos.			
	b) Britlite or equivalent Bollard Light Fixture in die cast aluminum body powder coated suitable for walkways with 1x18WATT PLC LAMP IP-67.	5	Nos.			
37-04E32	<u>Wiring & Conduiting</u> a) Circuit Wiring and conduiting from DB to first light point with 1 x 4 sq.mm 3 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables for external lighting, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	5	Nos.			
	b) Same as item (h) but wiring from light point to light point.	12	Nos.			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART -11 MISCELLANEOUS WORKS					
37-04E 33	<u>Cable TV System</u>					
	a) Supply, installation, testing and commissioning of RG-6 co-axial cable wiring for Cable TV system from U-link Box to TV outlet complete in all respects, as per the specifications and drawings and approval by the Engineer.	90	Rft.			
	b) <u>Outlets</u> Supply, installation testing and commissioning of cable TV outlet along with 16 SWG back box having earth terminals and 2 coats of antirust paint, complete in all respects, as per the specifications and drawings and approval by the Engineer.	2	Nos.			
37-04E 34	<u>Manholes</u>					
	Construction of water tight concrete handhole / cable chamber with Heavy duty RCC cover with lifting hooks and these words "ELECTRICAL CABLES" written with paint on cover. Complete in all respect as per drawing and specification. Sizes of Manhole are as under:					
	i) 1'-6" x 1'-6" x 2'-6" deep	6	Nos.			
37-04E 35	<u>Utility / PTCL Connection</u>					
	a) Supply and co-ordination for the utility connection from Utility as per required electrical load demand. The utility connection charges shall be paid separately as per actual on submission of receipt.	1	Job			
	b) Supply and co-ordination for the telephone connection from PTCL as per required demand. The telephone connection charges shall be paid separately as per actual on submission of receipt.	1	Job			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART -12 SOLAR ROOM ELECTRIFICATION WORKS					
37-04E 36	<u>LIGHT FIXTURES</u> Supply, Installation, testing and commissioning of following light fittings, ceiling /wall mounted made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete					
	a. Fluorescent Light TCW098 with 1x36Watt TL-D lamp color 84 & electronic ballast (IP65).	1	Nos.			
	b. Fluorescent Light TMS 015 with 1x36Watt TL-D lamp color 84 & electronic ballast.	3	Nos.			
37-04E 37	<u>Switches & Fan Dimmers</u> Supply and installation of following type gang switches of 10 Amp rating, including 16 SWG sheet steel back box recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respect, as per specifications and drawings and approval					
	i) Three gang - 1 Way Switch	1	Nos.			
37-04E 38	<u>SOCKETS</u> Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and drawings					
	i) 13A, 3-pin Duplex Switch Socket outlet.	1	Nos.			
37-04E 39	<u>Fire Alarm System</u> a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect.					
	i) Heat detector with buzzer	1	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
37-04E 40	<u>Circuit Wiring & Conduiting</u>					
	a) Circuit Wiring and conduiting from DB to switch with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	1	Nos.			
	b) Same as item (a) but wiring from switch to switch with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit.	1	Nos.			
	c) Same as item (b) but wiring from switch to first light point.	3	Nos.			
d)	Same as item (b) but wiring from light point to light point.	1	Nos.			
CARRIED FORWARD TO SUMMARY						
GRAND TOTAL						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	PILUMBING WORKS (BUILDING)					
	<u>PLUMBING FIXTURES</u>					
	Supply and Installation of plumbing fixtures & faucets complete in all respects including all accessories, support, hangers, etc. ready to use as per specifications, drawings and instructions of Consultant.					
01-05P1	European style coupled water closet with seat cover, flush tank C.P. (chrome plated) connector, thimble, etc. a. Type - EWC	7	No.			
01-05P2	Asian style water closet Orissa type with flush tank C.P. (chrome plated) connector, uPVC Class "E" flush pipe, thimble, P-Trap, etc.	22	No.			
01-05P3	Urinal wall hung type with automatic 1/2" size flush valve, CP trap, waste, connector and fixing accessories.		No.			
01-05P4	Wash basin (WB) including C.P P- trap/Bottle Trap, stop cocks, etc. i. Type - WB - V(Vanity)	16	No.			
01-05P5	Wash basin hot and cold water mixer, waste, etc for following. i. Type - WB - V(Vanity)		No.			
01-05P6	Toilet Hand Shower with flexible chain & telephone type shower Including tee stop cock etc. complete in all respect. Type - TS	29	No.			
01-05P7	Stainless steel lab. sink including stop cocks, P-trap, Bottle trap, waste pipe etc complete in all respects.					
	SK - 1, 36" x 20" single bowl and single drainer.	4	No.			
01-05P8	Sink hot and cold water mixer, etc, for following. a. For SK-1		No.			
01-05P9	S.S Grease Trap 7.5 Kg. capacity, inlet/outlet 2" Dia connections.		No.			
01-05P10	Toilet accessories complete set, (Imported make)					
	i. Soap dispenser	7	No.			
	ii. Toilet paper holder	29	No.			
	iii. Coat Hook	7	No.			
	iv. Mirror 5mm (Belgium)	120	Sft			
	v. Paper Rack	7	No.			
Page Total						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>Plumbing Water Supply</u>					
01-05P11	Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for water supply as per DIN 8077-8078 for pipes and DIN 16962,PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.					
	i) ½" internal dia (20 mm outer dia)	50	Rft.			
	ii) ¾" internal dia (32 mm outer dia)	370	Rft.			
	iii) 1" internal dia (40 mm outer dia)	550	Rft.			
	iv) 1¼" internal dia (50 mm outer dia)	155	Rft.			
	v) 1½" internal dia (63 mm outer dia)	230	Rft.			
	vi) 2" internal dia (75 mm outer dia)		Rft.			
	vii) 2½" internal dia (90 mm outer dia)		Rft.			
01-05P12	Providing and installing gate/ball valves, Kitz or approved equivalent make, including jointing ,fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters.					
	i) ¾" internal dia (32 mm outer dia)	2	No			
	ii) 1" internal dia (40 mm outer dia)	6	No			
	iii) 1¼" internal dia (50 mm outer dia)	4	No			
	iv) 1½" internal dia (63 mm outer dia)	2	No			
	v) 2" internal dia (75 mm outer dia)		No			
	vi) 2½" internal dia (90 mm outer dia)		No			
Page Total						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>Plumbing Sewerage</u>					
01-05P13	Providing, fixing, cutting, jointing and testing uPVC piping conforming to BS-4514 and BS 5255 including uPVC fittings with solvent cement jointing, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter:					
	2" dia	105	Rft.			
	3" dia		Rft			
	4" dia	440	Rft.			
	6" dia	110	Rft.			
01-05P14	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.	49	No.			
01-05P15	Construction of rectangular brick masonry manhole of following sizes for sewer complete with plastering from internal and external side, PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, rungs, complete as per drawings.					
01-05P16	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.	13	No.			
01-05P17	Providing and fixing Clean Out complete in all respects	13	No.			
	<u>Water Cooler</u>					
01-05P18	Providing and fixing drinking water cooler of capacity 60 gallons per hour including all accessories and making connections to water supply and drainage systems complete in all respects as per details in specifications	4	No.			
Page Total						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
EXTERNAL DEVELOPMENT						
01-05P19	Septic Tank Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with `B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer. 6" i/d (150 mm) 4" dia, pipe seleves in walls 6" dia, pipe seleves in walls	15 5 2	Rft. Nos Nos			
01-05P20	Soakage Pit Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with `B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer. 6" i/d (150 mm)	5	Rft.			
01-05P21	Ground Water Storage Tank Providing, laying, cutting, jointing, testing and disinfecting G.I. pipe (Heavy Quality) of B.S.S. 1387-1967 complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer. i) ¾" dia ii) 1½" dia iii) 2" dia, pipe seleves, 9" long	5 5 2	Rft. Rft. Nos			
01-05P22A	Overhead Water Storage Tank Vent Pipe 4" dia as per drawing and specifications for U.G.W.Tank, O.H.W.Tank complete in all respects, puddle flange, specials as per drawing or directed by the Engineer.	4	Nos			
01-05P22B	Providing, laying, cutting, jointing, testing and disinfecting brass pipe seleaves/ connection pie with puddle including coupler (Heavy Quality) of approved as per B.S.S coads complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer. i) 1¼" dia, pipe seleves, 10" long i) 2½" dia, pipe seleves, 10" long	2 3	Nos Nos			
01-05P23	Kanchan Arsenic Filter Filter Material. Providing & laying gravel, including screening and washing as per drawing or directed by the Engineer. Gravel size 6 mm to 15 mm.	21	Cft			
01-05P24	Providing & laying coarse sand, including screening and washing as per drawing or directed by the Engineer.	42	Cft			
01-05P25	Providing & laying fine sand, including screening and washing as per drawing or directed by the Engineer.	42	Sq.ft.			
01-05P26	Providing & fixing M.S sheet 1/4" thick, 1/8" Dia hole 2 inch c/c (Diffuser Plate), as per drawing or directed by the Engineer.	37	Sq.ft.			

BILL OF QUANTITIES

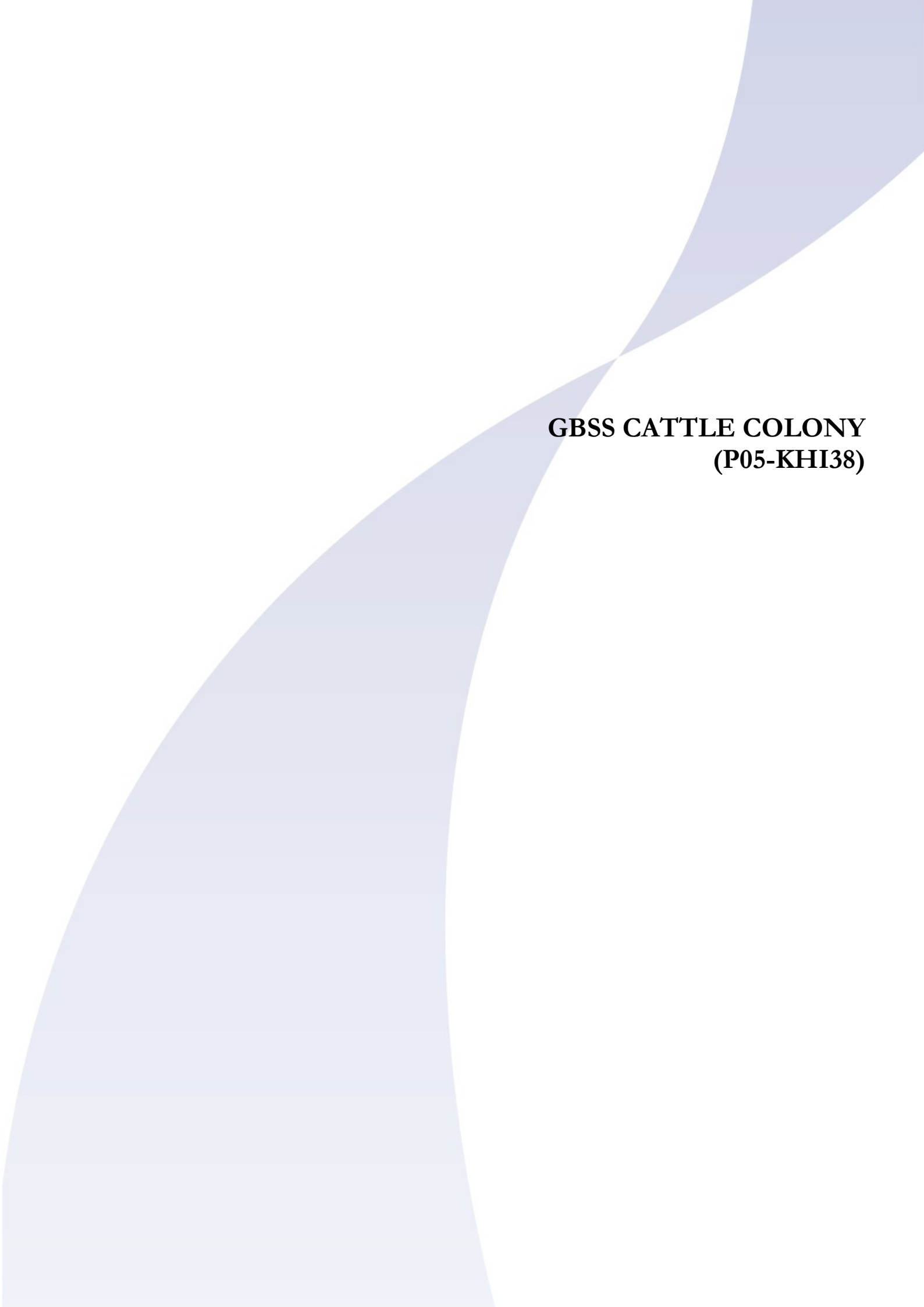
Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P27	Providing & laying Dry rammed brick ballast 1-1/2" to 2" (40mm to 50mm) guage, including screening and washing as per drawing or directed by the Engineer.	9	Cft.			
01-05P28	Providing & laying iron nails with out coating (1" thick layer) as per drawing or directed by the Engineer.	125	Kg.			
01-05P29	Providing & fixing cover over Kanchan Filter of PVC sheet 1/2" thick, as per drawing or directed by the Engineer.	32	Sq.ft.			
01-05P30	Providing, laying, cutting, jointing, testing and disinfecting PPRC pipe including plastic shower heads with all fittings complete in all respects as per drawing or directed by the Engineer. i) ¾" internal dia (32 mm outer dia)	23	Rft.			
01-05P31	Providing and fixing Plastic Shower Heads	9	Nos			
<u>Tube Well / Penumatic Pump</u>						
01-05P32	Boring for tubewell in all types of soil except shingle and rock, from ground level to 100 ft (30m) Depth, including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. i) 8"i/d (200mm)	100	Rft.			
01-05P33	Boring for tubewell in all types of soil except shingle and rock, from a depth of 100.1 to 200ft (30 to 60 m) below ground level,including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. i) 8"i/d (200mm)	50	Rft.			
01-05P34	Providing and installing P.V.C. bail/End plug B.S.S. class 'D', in tubewell bore hole, complete in all respect and as directed by the Engineer. i)2" i/d (100mm)	1	Each.			
01-05P35	Providing and installing P.V.C. blind pipe B.S.S Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer, etc, complete in all respect and as directed by the Engineer. i) 1" i/d(25mm) ii) 1-1/4" i/d(30mm) iii) 2" i/d(50mm)	150 40	Rft. Rft. Rft.			
01-05P36	Providing and installing P.V.C. strainer B.S.S Class 'D' in tubewell bore hole, including sockets and solvents; etc, complete in all respect and as directed by the Engineer. i)2" i/d(50mm)	40	Rft.			
01-05P36	Providing and installing P.V.C. blind pipe B.S.S Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer,complete in all respect and as directed by the Engineer. i) 4" i/d (100mm)	60	Rft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P37	Testing and developing of bore hole, complete in all respect and as directed by the Engineer.	3	Per Hr.			
01-05P38	Shrouding with graded pea gravel 3/8" to 1/8" around tubewell in bore hole, complete in all respect and as directed by the Engineer.	45	Cft.			
01-05P39	Providing/fixing Injector valve as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	Each.			
01-05P40	Providing/fixing P.V.C. Cup/Cover as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	No.			
01-05P41	Providing/fixing Pneumatic Pump (having 4 impellers capable to carry a discharge of 400 gals/hr against 90 ft head and 3 HP Motor), complete in all respect and as directed by the Engineer. EXTERNAL PIPING <u>Plumbing Water Supply</u>	1	Set.			
01-05P42	Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for water supply as per DIN 8077-8078 for pipes and DIN 16962,PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.					
	i) ½" internal dia (20 mm outer dia)		Rft.			
	ii) ¾" internal dia (32 mm outer dia)	30	Rft.			
	iii) 1" internal dia (40 mm outer dia)	150	Rft.			
	iv) 1¼" internal dia (50 mm outer dia)	130	Rft.			
	v) 1½" internal dia (63 mm outer dia)	13	Rft.			
	vi) 2" internal dia (75 mm outer dia)		Rft.			
	vii) 2½" internal dia (90 mm outer dia)		Rft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P43	Providing and installing gate/ball valves, Kitz or approved equivalent make, including jointing ,fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters. i) ¾" internal dia (32 mm outer dia) ii) 1" internal dia (40 mm outer dia) iii) 1¼" internal dia (50 mm outer dia) iv) 1½" internal dia (63 mm outer dia) v) 2" internal dia (75 mm outer dia) vi) 2½" internal dia (90 mm outer dia) <u>Plumbing Sewerage</u>	2 5 4 0 No	No No No No No			
01-05P44	Providing, fixing , cutting, jointing and testing uPVC piping conforming to BS-4514 and BS 5255 including uPVC fittings with solvent cement jointing, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter: 2" dia 3" dia 4" dia 6" dia	32 430	Rft. Rft. Rft. Rft.			
01-05P45	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.		No.			
01-05P46	Construction of rectangular brick masonry manhole of 2'x2' for sewer complete with plastering from internal and external side, PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, rungs, complete as per drawings.		No.			
01-05P47	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.		No.			
01-05P48	Providing and fixing Clean Out complete in all respects <u>Water Supply Pump For GST</u>		No.			
01-05P49	Supply at site, installation, testing and commissioning of water supply reciprocating pump with 2HP motor as per specification complete in all respect.	2	No			
Page Total						
G-Total C/o to Summary						



**GBSS CATTLE COLONY
(P05-KHI38)**

SINDH BASIC EDUCATION PROGRAM
CONSTRUCTION OF NEW SCHOOLS AND UPGRADATION OF EXISTING SCHOOLS
Package- 05: Karachi City
GBSS CATTLE COLONY TOPOGRAPHIC SURVEY, BIN QASIM TOWN
SUMMARY OF TENDERED COST

CODE	DESCRIPTION	AMOUNT IN PAK.RUPEES
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A. GENERAL ITEMS		_____
B. CIVIL WORKS		_____
C. EXTERNAL WORKS		_____
D. ELECTRICAL WORKS		_____
E. PLUMBING WORKS		_____
F. DAYWORK COST		_____

Sub-Total

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
<u>Temporary Facilities (Optional Items)</u>						
01- 01 G 1	Ref.Spec. No. G05 Providing and maintaining a rental building of area 2,000 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, water supply and sanitation complete in all respect as directed by the Engineer.	12	Month			
	OR					
01- 01 G 2	Providing and maintaining a tent school of area 2,000 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, water supply and sanitation complete in all respect as directed by the Engineer.	12	Month			
	OR					
01- 01 G 3	Providing and maintaining porta cabins for school of area 2,000 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, airconditioning, water supply and sanitation complete in all respect as directed by the Engineer.	12	Month			
	OR					
01- 01 G 3A	Shifting of furnitures and equipemnts and reinstall etc from existing school to rental building and reinstall as per specification and directed by the engineer.	1	L.S			
01- 01 G 5	Repair & renovation of existing Governmet building proposed for temporary school during the construction. (The payable amount shall be assessed as per actual rehabilitation work on selected building and as per recommendation by the Engineer on BOQ rates of similar items quoted in the bid).	P.S.	P.S.			500,000
Sub- Total (Rs.)						
<u>Site Clearing and Grubbing</u>						
01- 01 G 4	Ref.Spec. No. C01 Clearing and Grubbing complete in all respect as directed by the Engineer.	22,973	Sft			
<u>DISMANTLING WORK</u>						
01- 01 G 5	Ref.Spec. No. G04 Dismantling, removing of existing building structure and foundations including disposal of debris materials to designated places/location as directed by the Engineer. All the dismantled materials shall be contractor's property and rate/price of dismantling work should include compensation of such items obtained by the Contractor from existing building.	6,452	Sft			
01- 01 G 6	Dismantling, removing of existing sewerage lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.			
01- 01 G 7	Dismantling, removing of existing water supply lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.			
01- 01 G 8	Dismantling, removing of existing electrical supply line as directed by the Engineer.	150	Rft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
01- 01 G 9	Dismatling of existing boundry wall as shown in the drawing including disposal of surplus material and as directed by the Engineer. Dismantled material shall be contractor's property.	160	Rft			
01- 01 G 9A	Dismatling of existing walkways/plateform/water tank ramp etc and flooring as shown in the drawing/ as per site including disposal of surplus material and as directed by the Engineer. Dismantled material shall be contractor's property.	540	Sft			
<u>POWER SUPPLY & TELECOMMUNICATION</u>						
01- 01 G 10	Providing, installing, testing and commissioning of electrical supply line for re-routing as per new plan including cables, all fixtures, connections and all related civil works as directed by the Engineer.	1	Job			
01- 01 G 11	Providing, installing, testing and commissioning of telephone line for re-routing as per new plan including cables, all fixtures, connections and all related civil works as directed by the Engineer.	1	Job			
<u>SIGN BOARD / PLAQUE</u> Ref.Spec. No. SP 100						
01- 01 G 12	Providing and installation of Project sign board as per drawing complete including all civil related works, foundations, earthwork concrete, protection works complete as directed by the Engineer.	1	Job			
01- 01 G 13	Providing, construction and installation of Inauguration Plaque as per drawing complete including all civil related works, foundations, earthwork concrete, protection works etc complete as directed by the Engineer.	1	Job			
02- 01 G 14	Providing and maintenance of the Engineer's facilities at individual school site as per clause 44, Section-100 (SP), Volume-III (A), Specifications-Special Provisions. All items/ materials/ equipment shall become contractor's property at the completion of works.	12	Month			
<u>WATER TESTING</u> Ref.Spec. No.						
01- 01 G 15	Sampling and testing of Water from bore of well (TDS) including submission of report as per specification.	1	Each			
Total General Items (Rs.)						
Sub- Total C/o to Summary General Items Pak Rs.						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
<u>CONSTRUCTION OF SCHOOL BUILDING</u>						
<u>SUB-STRUCTURE</u>						
<u>EARTHWORKS</u>						
Ref.Spec. No. C02						
01- 02 C 1	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places. a) 0 ft to 5 ft b) More than 5 ft upto 10 ft.	38515 11344	Cft. Cft.			
01- 02 C 2	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material/ source to be approved by the Engineer) upto free haulage limit.	24930 69543	Cft. Cft.			
01- 02 C 2A	Engineered fill layer not exceeding 6" thick with ASSHTO A-1-a type material & soling with compaction should be 98% MDD, (Maximum Dry density) selected materials including watering and compaction to every layer as per specification and drawings. a) Stone soling 12" compacted layer b) Fill layer not exceeding 6" thick with ASSHTO A-1-a type material.	Rate only Rate only	Cft. Cft.			
01- 02 C 2B	Plate load test as per specifications, including in all respect work complete perfoeme and test reports with any number of tests as required by the engineer.	Rate only	L.s			
<u>DEWATERING</u>						
Ref.Spec. No. G03						
01- 02 C 3	Designing, providing and installation of complete dewatering system including boring, strainer, filter and other all materials, pumping and disposal of water upto Engineer's satisfaction and to keep the construction surface dry all the time. a) Completion of installation works at site, up 100% running/ working position b) Dewatering, days not allow more then/ maximum payable	Rate only Rate only	L.S. Day			
<u>TERMITE CONTROL TREATMENT</u>						
Ref.Spec. No. C03						
01- 02 C 4	Termite control treatment to surfaces following structures complete in all respect as per specification: (Only plan area will be measured)	11525	Sq.ft.			
<u>REINFORCEMENT</u>						
Ref.Spec. No. C04						
01- 02 C 5	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	43	ton.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 6	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate only	ton.			
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u> Ref.Spec. No. C04					
01- 02 C 7	Blinding concrete 1250 psi using slag cement conforming to BS-146.	2930	Cft.			
01- 02 C 8	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Isolated foundations b) Columns upto plinth c) Plinth beams d) SOG & Ramps Slabs e) Walls	10252 1554 2769 158 50	Cft. Cft. Cft. Cft. Cft.			
	<u>SITU CONCRETE 1:3:6</u> Ref.Spec. No. C04					
07- 02 C 9	Situ concrete 1:3:6, with formwork under the plinth beam thickness as per drawings, using slag cement conforming to BS-146, straight or curve at any level including all anchors required to be built in Rcc columns pedestals, complete in all respect as per drawings and specifications.	1500	Cft.			
	<u>BRICK MASONRY</u> Ref.Spec. No. C05					
07- 02 C 9 A	Solid brick masonry under the plinth beam of one and half brick thickness, set in 1:4 using slag cement conforming to BS-146 & sand mortar, straight or curve at any level including all anchors required to be built in brick masonry, complete in all respect as per drawings and specifications.	Rate only	Cft.			
	<u>HARDCORE/ STONE SOLING</u> Ref.Spec. No. C07					
01- 02 C 10	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	8560	Sq.ft.			
	<u>P.C.C UNDER FLOORING</u> Ref.Spec. No. C07					
01- 02 C 11	PCC 4" thick plain cement concrete (using slag cement conforming to BS-146) sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	8560	Sq.ft.			
	<u>PLINTH PROTECTION</u> Ref.Spec. No. C04 & C07					
01- 02 C 12	Blinding concrete 1250 psi using slag cement conforming to BS-146	690	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>PROTECTION WORKS</u>					
01- 02 C 13	Ref.Spec. No. C16 Vapor barrier sheet, under the floor as per drawings and specifications.	8560	Sq.ft.			
01- 02 C 14	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	23222	Sq.ft.			
	<u>SUPER-STRUCTURE WORKS</u>					
	<u>Ground Floor (From Plinth level to 1st Slab)</u>					
	<u>REINFORCEMENT</u>					
01- 02 C 15	Ref.Spec. No. C04 Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	32	ton.			
01- 02 C 16	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate only	ton.			
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u>					
01- 02 C 17	Ref.Spec. No. C04 Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification; a) Columns b) Beams & lintels c) Slab & projections d) Stair cases e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts. f) Parapet wall for stair cases	1526 2029 5582 373 198 83	Cft. Cft. Cft. Cft. Cft. Cft.			
	<u>First Floor (From 1st Slab to 2nd slab)</u>					
	<u>REINFORCEMENT</u>					
01- 02 C 18	Ref.Spec. No. C04 Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	34	ton.			
01- 02 C 19	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate only	ton.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u>					
01- 02 C 20	Ref.Spec. No. C04 Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification;					
	a) Columns	1690	Cft.			
	b) Beams & lintels	2060	Cft.			
	c) Slab & projections	5765	Cft.			
	d) Stair cases	175	Cft.			
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts.	206	Cft.			
	f) Parapet wall for stair cases	32	Cft.			
	<u>Second Floor / Roof (From 2nd slab to 3rd slab & tower)</u>					
	<u>REINFORCEMENT</u>					
01- 02 C 21	Ref.Spec. No. C04 Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	4	ton.			
01- 02 C 22	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate only	ton.			
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u>					
01- 02 C 23	Ref.Spec. No. C04 Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures components complete in all respect as per drawings and specification;					
	a) Columns	108	Cft.			
	b) Beams & lintels	124	Cft.			
	c) Slab & projections	252	Cft.			
	d) Parapet Wall/ Purdi	815	Cft.			
	e) Precast coping for parapet wall at roof and erecting/ fixing including shuttering and all accessories and/or embedded parts.	1000	Rft.			
	g) Over head water tank, column, walls & slab	396	Cft.			
	f) Others Misc Str	20	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 24	<u>FINISHING WORKS</u> <u>For Ground floor</u> <u>BLOCK MASONRY</u> Ref.Spec. No.C18 Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 4" thick	1863	Cft.			
	b) 6" thick	279	Cft.			
	c) 8" thick	5430	Cft.			
01- 02 C 24 A	d) 4" thick, external cavity; wall with all accessories arrangements for stone tile facing or Color Crete finishig including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	1845	Cft.			
	<u>BRICK MASONRY</u> Ref.Spec. No. C05 Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.					
	a) 4-1/2" thick	Rate only	Cft.			
	b) 9" thick	Rate only	Cft.			
01- 02 C 25	c)13-1/2" thick	Rate only	Cft.			
	<u>DOORS FRAMES</u> Ref.Spec. No. C09 & C11 G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	752	R.ft.			
01- 02 C 26	<u>CEMENT PLASTER</u> Ref.Spec. No. C06 3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	375	Sq.ft.			
01- 02 C 28	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	8780	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 29	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	20773	Sq.ft.			
	<u>ALUMINIUM WORKS</u> Ref.Spec. No. C11					
01- 02 C 30	Supply and fix in position as specified anodized aluminum openable windows and ventilators of 2"x4" section, approved manufacturer having minimum wall thickness not less than 1.6 mm with netted shutter and 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	1733	Sq.ft.			
01- 02 C 31	Supply and fix in position as specified anodized aluminum doors with fixed panel both side and top of approved 2"x4" section, manufacturer having minimum wall thickness not less than 1.6 mm with 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	116	Sq.ft.			
	<u>STRUCTURAL STEEL</u> Ref. Sec.No. C13					
01- 02 C 32	Mild steel grills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings and specification.	2166	Kg			
01- 02 C 33	Providing and fixing railing for stairs/ramps as per drawing and specifications complete in all respect. a) MS railing stairs b) M.S railing at entrance	54 60	Rft Rft			
01- 02 C 34	Providing and fixing MS pipe railing for courtyard with paintings, as per drawing and specifications complete in all respect and approved by the Engineer.	177	Rft			
01- 02 C 35	Providing and fixing MS folding gate (Emergency Exit) with paintings, complete in all respects as per drawing and specifications.	2	No			
01- 02 C 35 A	Providing and fixing MS folding Main entrance gate with paintings, complete in all respects as per drawing and specifications.	1	No			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
<u>FLOOR AND WALL FINISHES</u>						
01- 02 C 36	Ref.Spec. No. C07 Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	7841	Sq.ft.			
01- 02 C 37	Providing and laying terrazzo tile for entrance ramp (3/4" thick) with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	75	Sq.ft.			
01- 02 C 38	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	494	Sq.ft.			
01- 02 C 39	Porcelain tile floor (type) using tile of size 8"x8" (full body), approved quality, colour and shade laid in approved pattern set in specified mortar including cement concrete base, complete in all respect as shown on the drawings and specifications.	730	Sq.ft.			
01- 02 C 40	Porcelain tile in Dado using tile of size 8"x8", quality, colour and shade laid in approved pattern including rough plaster base complete in all respect as shown on drawings and specifications.	3664	Sq.ft.			
<u>MARBLE WORKS</u>						
01- 02 C 41	Ref.Spec. No. C07 & C08 Pre-polished marble on entrance steps, stairs, ramp & floor etc using approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings. a) Entrance Steps & Platform (3/4" thick) b) Entrance Steps Risers (1/2" thick)	325 60	Sq.ft. Sq.ft.			
01- 02 C 42	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	382	Sq.ft.			
01- 02 C 43	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	106	Sq.ft.			
01- 02 C 44	Pre-polished marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish including complete in all respect as shown on the drawings.	53	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 45	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings. <u>PAINTING</u> Ref.Spec. No. C10	83	Sq.ft.			
01- 02 C 46	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	8780	Sq.ft.			
01- 02 C 47	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	20773	Sq.ft.			
01- 02 C 48	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. including complete in all respect as shown on the drawings. <u>WOODEN DOORS</u> Ref.Spec. No. C09	375	Sq.ft.			
01- 02 C 49	Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partial wood frame and infill, polish, color/ lacker, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	1093	Sq.ft.			
01- 02 C 50	Fixed 6mm plain laminated glass panel part at above door panel with solid wood batten including teak polish/ lacker at both sides around the glass of approved type, quality complete in all respect as shown on the drawings and specifications. <u>FALSE CEILING</u> Ref.Spec. No. C14	146	Sq.ft.			
01- 02 C 51	1/2" thick gypsum board ceiling including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on the drawings and specifications.	730	Sq.ft.			
01- 02 C 52	<u>Pre cast C.C Patren jali</u> Ref.Spec. No.C18, C5 C.C Patren jali as per approved designed and specification	360	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 53	<p><u>CLADDING/ EXTERNAL FACING</u> Ref.Spec. No.C19 & C20 Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.</p>	5591	Sq.ft.			
01- 02 C 53 A	<p>Providing and laying Color-Crete with 3/4" Cement sand plaster on extrenal facing as per approved sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.</p>	3074	Sq.ft.			
01- 02 C 53 B	<p>Ref.Spec. No. C05 Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.</p>	Rate only	Sq.ft.			
01- 02 C 54	<p><u>FINISHING WORKS</u> <u>For First floor</u> <u>BLOCK MASONRY</u> Ref.Spec. No.C18 Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.</p> <p>a) 4" thick b) 6" thick c) 8" thick d) 4" thick, external cavity; wall with all accessories arrangements for stone tile facing or Color Crete finishig including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.</p>	551 83 6198 1845	Cft. Cft. Cft. Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 54 A	<p><u>BRICK MASONRY</u> Ref.Spec. No. C05 Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.</p> <p>a) 4-1/2" thick b) 9" thick c)13-1/2" thick</p>	Rate only Rate only Rate only	Cft. Cft. Cft.			
01- 02 C 55	<p><u>DOORS FRAMES</u> Ref.Spec. No. C09 & C11 G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.</p>	725	R.ft.			
01- 02 C 56	<p><u>CEMENT PLASTER</u> Ref.Spec. No. C 06 3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers including complete in all respect as shown on the drawings.</p>	175	Sq.ft.			
01- 02 C 57	<p>1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.</p>	8713	Sq.ft.			
01- 02 C 57 A	<p>1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.</p>	20562	Sq.ft.			
01- 02 C 58	<p><u>ALUMINIUM WORKS</u> Ref.Spec. No. C 11 Supply and fix in position as specified anodized aluminum openable windows and ventilators of 2"x4" section, approved manufacturer having minimum wall thickness not less than 1.6 mm with netted shutter and 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.</p>	1414	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>STRUCTURAL STEEL</u> Ref. Sec.No. C 13					
01- 02 C 59	Mild steel grills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings.	1739	Kg			
01- 02 C 60	Providing and fixing MS stair railing as per drawing and specifications complete in all respect.	30	Rft			
01- 02 C 61	Providing and fixing MS pipe railing for courtyard with paintings, as per drawing and specifications complete in all respect and approved by the engineers.	201	Rft			
	<u>FLOOR AND WALL FINISHES</u> Ref.Spec. No. C 07, 08					
01- 02 C 62	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	9213	Sq.ft.			
01- 02 C 63	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	576	Sq.ft.			
01- 02 C 64	Porcelain tile floor (type) using tile of size 8"x8" (full body), approved quality, colour and shade laid in approved pattern set in specified mortar including cement concrete base, complete in all respect as shown on the drawings.	500	Sq.ft.			
01- 02 C 65	Porcelain tile in Dado using tile of size 8"x8", quality, colour and shade laid in approved pattern including rough plaster base complete in all respect.	2364	Sq.ft.			
	<u>MARBLE WORKS</u> Ref.Spec. No. C 07, 08					
01- 02 C 66	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	176	Sq.ft.			
01- 02 C 67	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	50	Sq.ft.			
01- 02 C 68	Pre-polished marble tile for counter tops & other area 3/4" thick using of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including complete in all respect as shown on the drawings.	50	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 69	Pre-polished Marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	34	Sq.ft.			
01- 02 C 70	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	45	Sq.ft.			
	<u>PAINTING</u> Ref.Spec. No. C 10					
01- 02 C 71	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	8713	Sq.ft.			
01- 02 C 72	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	20562	Sq.ft.			
	<u>WOODEN DOORS</u> Ref.Spec. No. C 09, 12					
01- 02 C 73	Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partial wood frame and infill, polish, color/ lacker, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	1071				
01- 02 C 74	Fixed 6mm plain laminated glass panel part at above door panel with solid wood batten including teak polish/ lacker at both sides around the glass of approved type, quality complete in all respect as shown on the drawings and specifications.	93	Sq.ft.			
	<u>FALSE CEILING</u> Ref.Spec. No.C14					
01- 02 C 75	12mm thick gypsum board ceiling including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on the drawings and specifications.	635	Sq.ft.			
	<u>Pre cast C.C Patren jali</u> Ref.Spec. No.C18, C5					
01- 02 C 76	C.C Patren jali as per approved designed and specification	731	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
<u>STONE CLADDING/ COLOR-CRETE/ EXTERNAL FACING</u>						
01- 02 C 77	Ref.Spec. No. C19 & C20 Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	5591	Sq.ft.			
01- 02 C 77 A	Providing and laying Color-Crete with 3/4" Cement sand plaster on extrenal facing as per approved sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	3074	Sq.ft.			
01- 02 C 77 B	Ref.Spec. No. C05 Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq.ft.			
<u>WATER PROOFING AND BUILTUP ROOFING</u>						
01- 02 C 78	Ref.Spec. No.C 16 Water proofing and built up roofing over roof slab comprising all the layers and coatings etc as shown in the drawings and specifications.	11795	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 79	<u>FINISHING WORKS</u> <u>For Roof floor / Secound floor</u> <u>BLOCK MASONRY</u> Ref.Spec. No. C18 Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 4" thick	30	Cft.			
	b) 6" thick	50	Cft.			
	c) 8" thick	430	Cft.			
01- 02 C 79A	d) 4" thick, external cavity; wall with all accessories arrangements for stone tile facing or Color Crete finishig including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	1347	Cft.			
	<u>BRICK MASONRY</u> Ref.Spec. No. C05 Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.					
	a) 4-1/2" thick	Rate only	Cft.			
	b) 9" thick	Rate only	Cft.			
01- 02 C 80	c)13-1/2" thick	Rate only	Cft.			
	<u>DOORS FRAMES</u> Ref.Spec. No. C09 & C11 G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	35	R.ft.			
01- 02 C 81	<u>CEMENT PLASTER</u> Ref.Spec. No. C 06 3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection, parapet or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and as per elevation complete in all respect as shown on the drawings.	2504	Sq.ft.			
01- 02 C 82	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	388	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 83	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	928	Sq.ft.			
01- 02 C 84	3/4" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls to O.H.W Tank etc with making of chamfer corner in plaster as per drawings and specifications.	305	Sq.ft.			
01- 02 C 85	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating.	150	Sq.ft.			
01- 02 C 86	Water proofing coating treatment to all horizontal surfaces in contact with water shall be treated with 1 coat of crystalline water proofing coating.	210	Sq.ft.			
01- 02 C 86	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, including fixing of frame and embedded parts in concrete and painting, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 02 C 86 A	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer. (For O.H.W tank)	4	No.			
<u>FLOOR AND WALL FINISHES</u>						
Ref.Spec. No. C 07, 08						
01- 02 C 87	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	180	Sq.ft.			
01- 02 C 88	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	16	Sq.ft.			
<u>MARBLE WORKS</u>						
Ref.Spec. No. C 07, 08						
01- 02 C 89	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	6	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>PAINTING</u>					
01- 02 C 90	Ref.Spec. No. C 10 Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	388	Sq.ft.			
01- 02 C 91	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	928	Sq.ft.			
01- 02 C 92	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc.complete in all respect as directed by the Engineer.	2504	Sq.ft.			
	<u>WOODEN DOORS</u>					
01- 02 C 93	Ref.Spec. No. C 09, C12 Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partal wood frame and infill, polish, color/ lacker, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	45	Sq.ft.			
	<u>Pre cast C.C Patren jali and Railing</u>					
01- 02 C 94	Ref.Spec. No.C18, C5 & C21 C.C Patren jali as per approved designed and specification	100	Sq.ft.			
01- 02 C 95	Precast water spout as per approved designed and specification	15	No.			
	<u>CLADDING/ EXTERNAL FACING</u>					
01- 02 C 96	Ref.Spec. No. C19 & C20 Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	4083	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 97	Providing and laying Color-Crete with 3/4" Cement sand plaster on extrenal facing as per approverd sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	566	Sq.ft.			
01- 02 C 98	Ref.Spec. No. C05 Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq.ft.			
Total C/o to Summary for CIVIL WORKS Pak Rs.						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>EXTERNAL DEVELOPEMENT</u>					
	<u>CONSTRUCTION OF BOUNDARY WALL</u>					
	Ref.Spec. No. C02					
	<u>EARTHWORKS</u>					
	Ref.Spec. No.					
01- 03 D 1	Excavation in all kinds of sub-surface materials, timbering upto following depths including disposal of surplus / rejected excavated materials to designated places.					
	a) 0 ft to 5 ft	912	Cft.			
01- 03 D 2	Fill and backfill with selected materials including watering and compaction to every layer as per specification.					
	a) From suitable excavated material (from stockpile of excavated materials)	456	Cft.			
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	3,506	Cft.			
01- 03 D3	Area Fill with selected materials from outside source including watering and compaction to every layer as per specification for Play ground.	4,905	Cft.			
	<u>DEWATERING</u>					
	Ref.Spec. No. G03					
01- 03 D4	Designing, providing and installation of complete dewatering system including boring, strainer, filter and other all materials, pumping and disposal of water upto Engineer's satisfaction and to keep the construction surface dry all the time.					
	a) Completion of installation works at site, up 100% running/ working position	Rate only	L.S.			
	b) Dewatering	Rate only	Day			
	<u>TERMITE CONTROL TREATMENT</u>					
	Ref.Spec. No. C03					
01- 03 D5	Termite control treatment to surfaces following structures complete in all respect as per specification: (Only plan area will be measured)	746	Sq.ft.			
	<u>REINFORCEMENT</u>					
	Ref.Spec. No. C04					
01- 03 D6	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	1.97	ton.			
	<u>PLAIN AND REINFORCED CONCRETE</u>					
	Ref.Spec. No. C04					
01- 03 D7	Blinding concrete 1250 psi using slag cement conforming to BS-146.	153	Cft.			
01- 03 D7A	Situ concrete 1:3:6, with formwork under the plinth beam thickness as per drawings, using slag cement conforming to BS-146, straight or curve at any level including all anchors required to be built in Rcc columns pedestals, complete in all respect as per drawings and specifications.	135	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D8	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Footings b) Columns upto plinth c) Plinth beams	256 61 162	Cft. Cft. Cft.			
01- 03 D9	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification; a) Columns <u>BLOCK MASONRY</u> Ref.Spec. No. C18	127	Cft.			
01- 03 D10	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 8" thick / 4" thick <u>BRICK MASONRY</u> Ref.Spec. No. C05	756	Cft.			
01- 03 D10 A	Solid brick masonry wall 9" thick with using slag cement conforming to BS-146 set in 1:4 cement sand mortar, straight or curve below plinth beam, planters including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per Drawings and Specifications. a) 9" thick	Rate only	Cft.			
01- 03 D10 B	Solid brick masonry wall with pointing on both faces above plinth beam 9" thick set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties, and other fixtures required to be built in brick masonry, complete in all respect as per Drawings and specifications. a) 4 1/2" thick <u>CEMENT PLASTER</u> Ref.Spec. No. C06	Rate only	Cft.			
01- 03 D11	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces (Columns, wall, beams and project etc.) including making grooves as per design and elevation complete in all respect as shown on the drawings. <u>PROTECTION WORKS</u> Ref.Spec. No. C16	898	Sq.ft.			
01- 03 D12	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	1,118	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D13	<u>COPING</u> Ref.Spec. No. C04 Providing and fixing 3" thick coping including plaster using OP cement for boundary wall complete as shown on the drawings.	147	Rft.			
01- 03 D14	<u>STRUCTURAL STEEL</u> Ref. Sec.No. C13 Mild steel main gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 14'x7')	1	no			
01- 03 D15	Mild steel wicket gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 3'x7')	1	no			
01- 02 C 15 A	<u>CLADDING/ EXTERNAL FACING</u> Ref.Spec. No. C19 & C20 Providing and laying stone cladding/ stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	2499	Sq.ft.			
01- 03 D 16	<u>LANDSCAPING</u> Ref. Sec.No. C17 Fill and backfill with selected materials including watering and compaction to every layer as per specification.	450	Cft.			
01- 03 D17	Area fill with selected materials including watering and compaction to every layer as per specification.	21,267	Cft.			
01- 03 D18	Relocation and replanting of removed trees as per specifications and and as directed by the Engineer.	25	No.			
01- 03 D19	Development of lawn (grass) including fertilizer mixed with earth including spreading and watering etc. and cutting etc. till guarantee period (12 months) complete in all respect as shown on the drawings and as per specifications.	9,284	Sq.ft.			
01- 03 D20	12" thick approved selected sweet earth including spreading, levelling, dressing and watering etc. complete in all respect as per specifications and as directed by the Engineer.	9,284	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D21	Trees/ plants of the following types and size/ height including excavation, backfilling, manure/ fertilizer, supports and water etc. complete in all respect as shown on the drawings, specifications and as directed by the Engineer. a) Neem tree (3 to 4 feet) b) Babul tree (3 to 4 feet) c) Golmohar (3 to 4 feet) d) Champa (2 to 3 feet) e) Crape Jasmine (2 to 3 feet) f) Cement Concrete planters.	9 4 9 28 28 168	No. No. No. No. No. Rft			
	<u>Foothpath Walkway (Precast Paving Blocks / Tiles)</u> Ref. Sec.No.C21					
01- 03 D22	4" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	1,858	Sq.ft.			
01- 03 D23	Precast cement concrete paving blocks envicrete or approved equivalent of size 8" x 4" x 2.5" laid in approved pattern including 2" thick sand cushion,	1,858	Sq.ft.			
01- 03 D24	PCC concrete kerb envicrete or approved equivalent including lean, hauching concrete etc complete as per drawing and specifications with earth cutting/ filling, levelling, dressing etc complete in all respect as per specifications and as directed by the Engineer.	211	Rft			
01- 03 D24A	Plain cement concrete panel flooring including 1/2" Groove @ 8"c/c, joints etc complete as shown in the drawings.	315	Sq.ft.			
	<u>EXTERNAL SEWER & MANHOLES</u>					
01- 03 D25	Construction of manholes with material including, excavation, base top RCC slab, GI steps, CC benching water proof internal plaster, external bitumen coating etc inlet/out connections etc. i. 24" x 24" SIZE ii. 36" x 36" SIZE	8 2	Nos. Nos.			
01- 03 D26	Supply and fix water tight (Square Type) Malleable Iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	10	No.			
	<u>Septic Tank</u>					
01- 03 D27	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft.	830 430	Cft. Cft.			
01- 03 D28	Blinding concrete 1250 psi using slag cement conforming to BS-146	55	Cft.			
01- 03 D29	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of Crystalline water proofing coating.	490	Sq.ft.			

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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D30	Water proofing coating treatment to all surfaces in contact with water shall be treated with 1 coat of Crystalline water proofing coating on horizontal surface.	140	Sq.ft.			
01- 03 D30	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) Base Slab. b) Walls including chamfer etc. c) Top Slab	111 345 70	Cft. Cft. Cft.			
01- 03 D31	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	1.5	Ton			
01- 03 D32	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	90	Sq.ft.			
01- 03 D33	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	630	Sq.ft.			
01- 03 D34	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings complete in all respect as shown on the drawings and specifications.	430	Sq.ft.			
01- 03 D35	Providing embedding 10" wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	51	Rft.			
01- 03 D36	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 03 D37	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No.			
01- 03 D38	<u>Soakage Pit</u> Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft. c) More than 10 ft upto full depth.	900 900 1,800	Cft. Cft. Cft.			
01- 03 D39	Blinding concrete 2000 psi using slag cement conforming to BS-146	25	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D40	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 20" thick b) 16" thick b) 12" thick	680 550 210	Cft Cft Cft			
01- 03 D41	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. Pre-cast R.C.C Slab	90	Cft			
01- 03 D42	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.35	Ton			
01- 03 D43	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	1	No			
01- 03 D44	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	24	No			
	<u>Ground Storage Tank</u>					
01- 03 D45	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft.	725 12	Cft. Cft.			
01- 03 D46	Blinding concrete 1250 psi using slag cement conforming to BS-146	48	Cft.			
01- 03 D47	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) Base Slab. b) Walls including chamfer etc. c) Top slabs d) Precast Slab	100 255 60 10	Cft. Cft. Cft. Cft.			
01- 03 D48	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	1	Ton			
01- 03 D49	Providing embedding 10" (250 mm) wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	55	Rft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D50	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 12" thick	75	Cft.			
01- 03 D51	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 03 D52	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	10	No.			
01- 03 D53	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	530	Sq.ft.			
01- 03 D54	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	116	Sq.ft.			
01- 03 D55	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	435	Sq.ft.			
01- 03 D56	2" thick, 3000psi (cly) cement concrete floor and screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	185	Sq.ft.			
01- 03 D57	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc.complete in all respect as per specifications.	90	Sq.ft.			
01- 03 D58	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	12	Sq.ft.			
01- 03 D59	Providing and applying three or more coats of matt emultion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	40	Sq.ft.			
01- 03 D60	MS Door including paint etc complete in all respect as shown in the drawings.	15	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 2 coats of crystalline water proofing coating on vertical survaces	577	Sq.ft.			
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 1 coat of crystalline water proofing coating on horizontal surfaces.	83	Sq.ft.			
<u>Tube Well / Penumatic Pump</u>						
<u>Construction works</u>						
01- 03 D62	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft	150	Cft.			
01- 02 C 63	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	20	Cft.			
		40	Cft.			
01- 03 D64	Blinding concrete 1250 psi using slag cement conforming to BS-146	60	Cft.			
01- 03 D65	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification; Pre-cast R.C.C Slab including Beam	35	Cft.			
01- 03 D66	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.05	Ton			
01- 03 D67	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 20" thick, for foundation b) 16" thick, for foundation c) 12" thick, for foundation d) 12" thick, for above G.L e) 4" thick, for parapet wall	50 40 45 180 10	Cft Cft Cft Cft Cft			
01- 03 D68	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	285	Sq.ft.			
01- 03 D69	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	25	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D70	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	150	Sq.ft.			
01- 03 D71	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	25	Sq.ft.			
01- 03 D72	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	25	Sq.ft.			
01- 03 D73	Plain cement concrete 2" thick floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	25	Sq.ft.			
01- 03 D74	Plain cement concrete 2" thick screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	33	Sq.ft.			
01- 03 D75	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc.complete in all respect as per specifications.	285	Sq.ft.			
01- 03 D76	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	25	Sq.ft.			
01- 03 D77	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	150	Sq.ft.			
01- 03 D78	Vapor barrier sheet, under foundations and floor as per drawings and specifications.	25	Sq.ft.			
01- 03 D79	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	250	Sq.ft.			
	<u>Kanchan Arsenic filter</u>					
01- 03 D80	Excavation and backfilling in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places. a) 0 ft to 5 ft	75	Cft.			

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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D81	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material / scorce to be approved by the Engineer) upto free haulage limit.	50 100	Cft. Cft.			
01- 03 D82	Blinding concrete 1250 psi using slag cement conforming to BS-146	15	Cft.			
01- 03 D83	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) footing b) Columns up bottom first slab c) Slabs & projection e) Walls including chamfer etc.	25 20 35 80	Cft. Cft. Cft. Cft.			
01- 03 D84	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.476	Ton			
01- 03 D85	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	84	Sq.ft.			
01- 03 D86	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	84	Sq.ft.			
01- 03 D87	2" thick, 3000 cement concrete floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	84	Sq.ft.			
01- 03 D88	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	152	Sq.ft.			
01- 03 D89	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	126	Sq.ft.			
01- 03 D90	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating.	126	Sq.ft.			
01- 03 D91	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	218	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D92	Plain cement concrete panel flooring: Plain cement concrete panel flooring including sub flooring and base preparation, joints etc complete as shown in the drawings.	1,929	Sq.ft.			
	Sub- Total C/o to Summary for External Development work Pak Rs.					

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
32-04E 1	<p><u>PART -1 Distribution Board</u> <u>Distribution Board</u></p> <p>Fabrication, Supply, installation, Testing and commissioning at site of following Distribution board, made of MS Sheet 16 SWG with hinged door, handle, catcher, earthing bar, neutral strip, internal wiring from MCBs terminating on cable terminal blocks, 2 coats of antirust and powder coated paint of approved colour, including cost of all necessary materials complete in all respects, DBs shall be manufactured as per specification, single line diagram complete in all respect up to the satisfaction of Engineer.</p>					
	i) MDBLP-GF	1	No.			
	ii) DBLP-GF1	1	No.			
	iii) DBLP-GF2	1	No.			
	vi) DBLP-FF1	1	No.			
	v) DBLP-FF2	1	No.			
	vi) MCC-WP	1	No.			
	vii) DB-EXT (IP 54)	1	No.			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-2: <u>CABLES AND CONDUITS</u>					
38-04E 2	<u>L.V. Power Cables</u> Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 600 / 1000 Volt grade manufactured by any one of the manufacturers as mentioned in approved manufacturer list in prelaidd conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the employers electrical engineer before placing the order with the manufacturer.					
	a) 4 Core Cu/PVC/PVC CABLE					
	i. 4 core 10mm.sq.	545	R.ft			
	ii. 4 core 16mm.sq.	330	R.ft			
	iii. 4 core 50mm.sq.	100	R.ft			
	b) Circuit Protective Conductor (CPC)					
	i. 1 core 10mm sq. PVC insulated colour Green/Yellow.	545	R.ft			
	ii. 1 core 16mm sq. PVC insulated colour Green/Yellow.	330	R.ft			
	iii. 1 core 25mm sq. PVC insulated colour Green/Yellow.	100	R.ft			
38-04E 3	<u>P.V.C. Conduit and Accessories</u> Supply at site of PVC conduit to be installed on slabs, walls, floor, columns or as required as per site conditions including cost of all PVC conduit accessories, steel pull wires, complete in all respects.					
	a) 32mm (1.25") dia. PVC conduit to pull electric cable.	415	R.ft			
	b) 38mm (1.5") dia. PVC conduit to pull electric cable.	360	R.ft			
	c) 50mm (2") dia. PVC conduit to pull electric cable.	135	R.ft			
	d) 75mm (3") dia. PVC conduit to pull electric cable.	200	R.ft			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-3 <u>Wiring & Conduiting</u>					
38-04E 4	<u>Circuit Wiring & Conduiting</u>					
	a) Circuit Wiring and conduiting from DB to switch / Fan dimmer with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	32	Nos.			
	b) Same as item (a) but wiring from switch to switch with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit.	57	Nos.			
	c) Wiring from switch/dimmer to first light/fan point with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm dia PVC conduit, complete with cables and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	181	Nos.			
	d) Wiring and conduiting of light point to point with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	105	Nos.			
	e) Circuit Wiring and conduiting from DB to power socket outlet with 2 x 4 sq.mm 1 core Cu/PVC insulated cable + CPC 4 sq.mm 1 core Cu/PVC insulated cable in 20 mm dia PVC conduit complete with cables, conduits and all necessary accessories such as sheet steel back box with earth connecting point bends, junction boxes, sockets etc., as per the specifications and drawings and approval by the Engineer.	21	Nos.			
	f) Same as item (e) but wiring between adjacent socket outlets with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC.	17	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
g)	Same as (e) but wiring from socket outlet to socket outlet with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC.	37	Nos.			
h)	Wiring and conduiting from DB to water pump/LBS with 2 x 6 sq.mm 1 core Cu/PVC insulated cable + CPC 6 sq.mm 1 core Cu/PVC insulated cable in 25 mm dia PVC conduit complete with cables, conduits and all necessary accessories such as bends, junction boxes, sockets etc., as per the specifications and drawings and approval by the Engineer.	4	Nos.			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-4: <u>LIGHT FIXTURES, FANS, SWITCHES, OUTLETS & ACCESSORIES</u>					
38-04E 5	<u>LIGHT FIXTURES</u> Supply, Installation, testing and commissioning of following light fittings, ceiling /wall mounted / with hanging arrangement made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, as per approved manufacturer, fittings shall be duly approved by Engineer.					
	a. Fluorescent Light TMS 015 with 1x36Watt TL-D lamp color 84 & electronic ballast.	73	Nos.			
	b. Fluorescent Light TMS 015 with 1x18Watt TL-D lamp color 84 & electronic ballast.	6	Nos.			
	c. LED Light TCS398 2x16Watt TL-Master LED lamp with M2 Louver .	22	Nos.			
	d. LED Light TCS398 2x16Watt TL-Master LED lamp with M2 Louver.(with hanging arrangement)	94	Nos.			
	e. Fluorescent Light TBS 318 with 1x36Watt TL-D lamp color 84 & electronic ballast.	16	Nos.			
38-04E 6	<u>Ceiling Fans</u> Supply, installation and commissioning of 4-blades ceiling fans of following sizes, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respects, fittings shall be duly approved by Engineer.					
	a. 56" dia.	7	Nos.			
	b. 48" dia.	65	Nos.			
	c. 36" dia.	1	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
38-04E 7	<p><u>Switches & Fan Dimmers</u></p> <p>Supply and installation of following type gang switches of 10 Amp rating, including 16 SWG sheet steel back box recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respect, as per specifications and drawings and approval by the Engineer.</p> <p>i) One gang - 1 Way Switch ii) Two gang - 1 Way Switch iii) Three gang - 1 Way Switch iv) Four gang - 1 Way Switch v) One gang - Fan Dimmer vi) Two gang - Fan Dimmer vii) One gang - 2 Way Switch</p>	6 25 14 2 7 33 2	Nos. Nos. Nos. Nos. Nos. Nos. Nos.			
38-04E 8	<p>SOCKETS</p> <p>Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and drawings, as per approved manufacturer list and approval by the Engineer.</p> <p>i) 10A, 2-pin universal Switch Socket outlet. ii) 13A, 3-pin Simplex Switch Socket outlet. iii) 13A, 3-pin Duplex Switch Socket outlet. iv) 15A, 3-pin Round Switch Socket outlet. v) Floor Box - Type B</p>	29 32 10 6 16	Nos. Nos. Nos. Nos. Nos.			
38-04E 9	<p>LOAD BREAK SWITCHES</p> <p>Supply, installation, testing & commissioning of following size Load Break switch with MS back box including all accessories complete in all respects, as per specifications and drawings and approval by the Engineer.</p> <p>i) 30 Amp SPN LBS</p>	1	Nos.			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-5: <u>EARTHING SYSTEM</u>					
38-04E 10	<u>Earth Electrode</u> Supply at site and installation of Copper earth electrodes, 10 feet long and 17mm dia including cost of all necessary materials, complete in all respects, as per specification.	11	Nos.			
38-04E 11	<u>Copper Conductor</u> a) Supply, installation and connecting up of 1 x 16sqmm 1-Core Cu/PVC cable, directly buried in ground from ECP in pit to earth electrode, includes excavation, backfilling of earth, cad-welding of copper conductor to earth electrode rod at one end and provision/ fixing of cable lugs at other end, including all accessories as per the Specifications and Drawings and to the entire satisfaction and approval of the Engineer.	10	R.ft			
	b) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable in 38mm dia PVC conduit, directly buried in ground, from Pit to ECP / MCC, as per drawing or as per the instructions of the engineer. including cost of excavation, backfilling of earth, brass nuts, bolts, washers, all necessary accessories, complete in all respects.	25	R.ft			
	c) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from ECP to U-link box and from U-Link box to data patch panel, as per drawing or as per the instructions of the engineer. including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	85	R.ft			
	d) Supply, installation and connections of bare copper conductor 50 mm sq. in 38mm dia PVC conduit, from building rebars / earth electrode to earth connecting point, as per drawing or as per the instructions of the engineer. including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	15	R.ft			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	e) Supply, installation and connections of copper conductor 1x50 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from earth connecting point to distribution board, as per drawing or as per the instructions of the engineer. including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	15	R.ft			
38-04E 12	<u>Earth Connecting Points (ECP)</u> Supply of earth connecting points consisting of copper plate 300mm long x 50mm wide x 6mm thick to be installed as and where shown on drawings, complete with fixing arrangement, brass nuts bolts, washers, lugs, 1/2" dia. holes to facilitate connections of Incoming copper strips / copper conductors and outgoing CPC.	2	Nos.			
38-04E 13	<u>ECP (in inspection Chamber)</u> Supply of earth connecting points in Earth pit / inspection chamber consisting of copper plate 200mm long x 50mm wide x 6mm thick with necessary holes, all fixing accessories of the copper plates on the wall of main holes, brass nuts bolts, washers, including cost of all necessary materials, complete in all respects.	2	Nos.			
38-04E 14	<u>Earth pit / Inspection Chamber</u> Construction of Earth pit/ inspection chamber 375mm x 375mm x 450mm deep with 150mm thick wall and 330mm x 330mm heavy duty R.C.C Cover, complete in all respects, as per specification.	2	Nos.			
38-04E 15	<u>Testing</u> Testing of the earthing system with "Earth Tester" along with other testing accessories. Testing shall be performed in the presence of the Engineer and written test result duly verified by the Engineer shall be submitted to the Client for his record.	1	Job			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-6: <u>TELEPHONE / VOICE SYSTEM</u>					
38-04E 16	<u>Telephone / Data Network</u>					
	a) Wiring for each telephone point from Utility box to telephone point with Cat 6 UTP in 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects, as per drawing and specification.	230	R.ft			
	b) Wiring for each data point from Utility box with Cat 6A UTP, to data point, including cost of 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects as per drawing and specification.	1200	R.ft			
	c) Wiring from Utility box with Four pair Cat 6A UTP, to data patch panel, including cost of 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects as per drawing and specification.	140	R.ft			
	d) Supply, Installation of following telephone / data Outlet plate including RJ-45 IOs and 16 SWG sheet steel back box recessed in wall or wall surface, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.					
	i) Simplex Outlet RJ 45	23	Nos.			
	ii) Duplex Outlet RJ 45	3	Nos.			
38-04E 17	<u>U-link Box</u>					
	Supply, Installation, testing and commissioning of U-link box, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.	1	Nos.			
38-04E 18	<u>Patch Panel</u>					
	a) Supply and installation of following Patch Panels complete in all respects as per the specifications and drawings and to the approval of the Engineer.					
	i) 24 Port Patch Panel	1	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
38-04E 19	<u>Telephone / Data Patch Cords</u>					
	a) Supply and connecting of telephone 2 Pair drop cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer.	5	Nos.			
	b) Supply and connecting of data CAT 6A patch cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer.					
	i) 1 meter long	24	Nos.			
	ii) 3 meter long	24	Nos.			
38-04E 20	<u>Communication Rack</u>					
	Supply installation of 15U Data racks for the fixing of 12 port rack mounted 19" CAT-6A UTP Patch Panel with cable organizer including all installation accessories as per specification complete in all respect to the approval of engineer.	1	Nos.			
38-04E 21	<u>Telephone Sets</u>					
	Supply and connection of following type of Telephone sets.					
	a) Telephone with CLI Module	2	Nos.			
	b) Telephone without CLI Module	3	Nos.			
CARRIED FORWARD TO SUMMARY						
38-04E 22	<u>PART -7 Fire Alarm System</u>					
	<u>Fire Alarm System</u>					
	a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect.					
	i) Smoke detector with buzzer	8	Nos.			
	ii) Heat detector with buzzer	4	Nos.			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	<u>PART -8 LIGHTNING PROTECTION SYSTEM</u>					
38-04E 23	<u>Roof Conductor</u> Supply at site and installation of 50sqmm stranded bare copper conductor fixed on parapet walls or on flat surface of roof as shown on drawing or as required as per site conditions, including cost of copper saddles, copper crossing 3"x3" as shown on drawings, brass screws, all necessary fixing material / accessories, complete in all respects.	1415	R.ft.			
38-04E 24	<u>Down Conductor</u> a) Supply at site, installation, connections of 50mm.sq. stranded bare copper conductor in 38mm dia. PVC conduit as down conductors to be installed within the columns from air terminal on roof to building rebars, all other required accessories including cadweld, complete in all respects.	675	R.ft.			
38-04E 25	<u>Air terminal</u> Supply, installation and connecting up of 1 x 16mm DIA SOUND ROUND COPPER 600mm LONG AERIAL ROD as and where shown on drawings, complete with fixing arrangement, cost of all necessary materials / accessories, complete in all respects.	8	Nos.			
38-04E 26	<u>Copper Test Link</u> Supply at site and installation of sectionable copper test link made of 200mm x 200mm uPVC enclosure with necessary holes, all fixing accessories of the copper test link to be installed on the wall of manholes, brass nuts bolts, washers, including cost of all necessary materials, complete in all respects.	8	Nos.			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -9 Public Address System					
38-04E 27	<u>Amplifier</u> a) Supply, installation & commissioning of following type amplifier with three outputs, three microphone inputs and one music input, complete in all respect, as per approved manufacturer list. i) 30W	2	Nos.			
38-04E 28	<u>Speakers</u> a) Supply, installation & commissioning of 10W wall mounted speaker with all accessories complete in all respects, as per approved manufacturer list.	4	Nos.			
38-04E 29	<u>Microphone</u> Cordless Microphone.	2	Nos.			
38-04E 30	<u>Wiring</u> Wiring with 2 Core, 2.5 sq.mm PVC insulated and PVC sheathed Cable from Amplifier / controller to speaker and speaker to speaker in 20mm dia PVC conduit complete in all respects upto maximum (15 Nos speaker) as shown in riser diagram.	180	R.ft.			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -10 EXTERNAL AREA LIGHTING					
38-04E31	<u>LIGHT FIXTURES</u> Supply, Installation, testing and commissioning of following light fittings, wall mounted arrangement made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, as per approved manufacturer, fittings shall be duly approved by Architect / Engineer.					
	a) Bulkhead light fixture mounted on wall with 1x18Watt PLC lamp.	12	Nos.			
	b) Britlite or equivalent Bollard Light Fixture in die cast aluminum body powder coated suitable for walkways with 1x18WATT PLC LAMP IP-67.	5	Nos.			
38-04E32	<u>Wiring & Conduiting</u>					
	a) Circuit Wiring and conduiting from DB to first light point with 1 x 4 sq.mm 3 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables for external lighting, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	5	Nos.			
	b) Same as item (h) but wiring from light point to light point.	12	Nos.			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -11 MISCELLANEOUS WORKS					
38-04E 33	<u>Cable TV System</u>					
	a) Supply, installation, testing and commissioning of RG-6 co-axial cable wiring for Cable TV system from U-link Box to TV outlet complete in all respects, as per the specifications and drawings and approval by the Engineer.	90	Rft.			
	b) <u>Outlets</u>					
	Supply, installation testing and commissioning of cable TV outlet along with 16 SWG back box having earth terminals and 2 coats of antirust paint, complete in all respects, as per the specifications and drawings and approval by the Engineer.	2	Nos.			
38-04E 34	<u>Manholes</u>					
	Construction of water tight concrete handhole / cable chamber with Heavy duty RCC cover with lifting hooks and these words "ELECTRICAL CABLES" written with paint on cover. Complete in all respect as per drawing and specification. Sizes of Manhole are as under:					
	i) 1'-6" x 1'-6" x 2'-6" deep	6	Nos.			
38-04E 35	<u>Utility / PTCL Connection</u>					
	a) Supply and co-ordination for the utility connection from Utility as per required electrical load demand. The utility connection charges shall be paid separately as per actual on submission of receipt.	1	Job			
	b) Supply and co-ordination for the telephone connection from PTCL as per required demand. The telephone connection charges shall be paid separately as per actual on submission of receipt.	1	Job			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -12 SOLAR ROOM ELECTRIFICATION WORKS					
38-04E 36	<u>LIGHT FIXTURES</u> Supply, Installation, testing and commissioning of following light fittings, ceiling /wall mounted made of fiber / plastic body. Complete with electronic blast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complet					
	a. Fluorescent Light TCW098 with 1x36Watt TL-D lamp color 84 & electronic ballast (IP65).	1	Nos.			
	b. Fluorescent Light TMS 015 with 1x36Watt TL-D lamp color 84 & electronic ballast.	3	Nos.			
38-04E 37	<u>Switches & Fan Dimmers</u> Supply and installation of following type gang switches of 10 Amp rating, including 16 SWG sheet steel back box recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respect, as per specifications and drawings and approval					
	i) Three gang - 1 Way Switch	1	Nos.			
38-04E 38	<u>SOCKETS</u> Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and dr					
	i) 13A, 3-pin Duplex Switch Socket outlet.	1	Nos.			
38-04E 39	<u>Fire Alarm System</u> a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect.					
	i) Heat detector with buzzer	1	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
38-04E 40	<u>Circuit Wiring & Conduiting</u>					
	a) Circuit Wiring and conduiting from DB to switch with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	1	Nos.			
	b) Same as item (a) but wiring from switch to switch with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit.	1	Nos.			
	c) Same as item (b) but wiring from switch to first light point.	3	Nos.			
	d) Same as item (b) but wiring from light point to light point.	1	Nos.			
CARRIED FORWARD TO SUMMARY						
GRAND TOTAL						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	PLUMBING WORKS (BUILDING) PLUMBING FIXTURES Supply and Installation of plumbing fixtures & faucets complete in all respects including all accessories, support, hangers, etc. ready to use as per specifications, drawings and instructions of Consultant.					
01-05P1	European style coupled water closet with seat cover, flush tank C.P. (chrome plated) connector, thimble, etc. a. Type - EWC	7	No.			
01-05P2	Asian style water closet Orissa type with flush tank C.P. (chrome plated) connector, uPVC Class "E" flush pipe, thimble, P-Trap, etc.	22	No.			
01-05P3	Urinal wall hung type with automatic 1/2" size flush valve, CP trap, waste, connector and fixing accessories.		No.			
01-05P4	Wash basin (WB) including C.P P- trap/Bottle Trap, stop cocks, etc. i. Type - WB - V(Vanity)	16	No.			
01-05P5	Wash basin hot and cold water mixer, waste, etc for following. i. Type - WB - V(Vanity)		No.			
01-05P6	Toilet Hand Shower with flexible chain & telephone type shower Including tee stop cock etc. complete in all respect. Type - TS	29	No.			
01-05P7	Stainless steel lab. sink including stop cocks, P-trap, Bottle trap, waste pipe etc complete in all respects. SK - 1, 36" x 20" single bowl and single drainer.	4	No.			
01-05P8	Sink hot and cold water mixer, etc, for following. a. For SK-1		No.			
01-05P9	S.S Grease Trap 7.5 Kg. capacity, inlet/outlet 2" Dia connections.		No.			
01-05P10	Toilet accessories complete set, (Imported make) i. Soap dispenser ii. Toilet paper holder iii. Coat Hook iv. Mirror 5mm (Belgium) v. Paper Rack	7 29 7 120 7	No. No. No. Sft No.			
Page Total						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>Plumbing Water Supply</u>					
01-05P11	Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for water supply as per DIN 8077-8078 for pipes and DIN 16962,PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.					
	i) ½" internal dia (20 mm outer dia)	50	Rft.			
	ii) ¾" internal dia (32 mm outer dia)	370	Rft.			
	iii) 1" internal dia (40 mm outer dia)	550	Rft.			
	iv) 1¼" internal dia (50 mm outer dia)	155	Rft.			
	v) 1½" internal dia (63 mm outer dia)	230	Rft.			
	vi) 2" internal dia (75 mm outer dia)		Rft.			
	vii) 2½" internal dia (90 mm outer dia)		Rft.			
01-05P12	Providing and installing gate/ball valves, Kitz or approved equivalent make, including jointing ,fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters.					
	i) ¾" internal dia (32 mm outer dia)	2	No			
	ii) 1" internal dia (40 mm outer dia)	6	No			
	iii) 1¼" internal dia (50 mm outer dia)	4	No			
	iv) 1½" internal dia (63 mm outer dia)	2	No			
	v) 2" internal dia (75 mm outer dia)		No			
	vi) 2½" internal dia (90 mm outer dia)		No			
Page Total						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>Plumbing Sewerage</u>					
01-05P13	Providing, fixing , cutting, jointing and testing uPVC piping conforming to BS-4514 and BS 5255 including uPVC fittings with solvent cement jointing, rates include cost of clamping to walls and ceiling , hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter:					
	2" dia	105	Rft.			
	3" dia		Rft			
	4" dia	440	Rft.			
	6" dia	110	Rft.			
01-05P14	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.	49	No.			
01-05P15	Construction of rectangular brick masonry manhole of following sizes for sewer complete with plastering from internal and external side, PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, rungs, complete as per drawings.					
01-05P16	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.	13	No.			
01-05P17	Providing and fixing Clean Out complete in all respects	13	No.			
	<u>Water Cooler</u>					
01-05P18	Providing and fixing drinking water cooler of capacity 60 gallons per hour including all accessories and making connections to water supply and drainage systems complete in all respects as per details in specifications	4	No.			
Page Total						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
EXTERNAL DEVELOPMENT						
01-05P19	<p><u>Septic Tank</u> Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with `B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer. 6" i/d (150 mm) 4" dia, pipe selevs in walls 6" dia, pipe selevs in walls</p>	15 5 2	Rft. Nos Nos			
01-05P20	<p><u>Soakage Pit</u> Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with `B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer. 6" i/d (150 mm)</p>	5	Rft.			
01-05P21	<p><u>Ground Water Storage Tank</u> Providing, laying, cutting, jointing, testing and disinfecting G.I. pipe (Heavy Quality) of B.S.S. 1387-1967 complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer. i) ¾" dia ii) 1½" dia iii) 2" dia, pipe selevs, 9" long</p>	5 5 2	Rft. Rft. Nos			
01-05P22A	<p><u>Overhead Water Storage Tank</u> Vent Pipe 4" dia as per drawing and specifications for U.G.W.Tank, O.H.W.Tank complete in all respects, puddle flange, specials as per drawing or directed by the Engineer.</p>	4	Nos			
01-05P22B	<p>Providing, laying, cutting, jointing, testing and disinfecting brass pipe selevs/ connection pie with puddle including coupler (Heavy Quality) of approved as per B.S.S coads complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer. i) 1¼" dia, pipe selevs, 10" long i) 2½" dia, pipe selevs, 10" long</p>	2 3	Nos Nos			
01-05P23	<p><u>Kanchan Arsenic Filter</u> Filter Material. Providing & laying gravel, including screening and washing as per drawing or directed by the Engineer. Gravel size 6 mm to 15 mm.</p>	21	Cft			
01-05P24	<p>Providing & laying coarse sand, including screening and washing as per drawing or directed by the Engineer.</p>	42	Cft			
01-05P25	<p>Providing & laying fine sand, including screening and washing as per drawing or directed by the Engineer.</p>	42	Sq.ft.			

BILL OF QUANTITIES

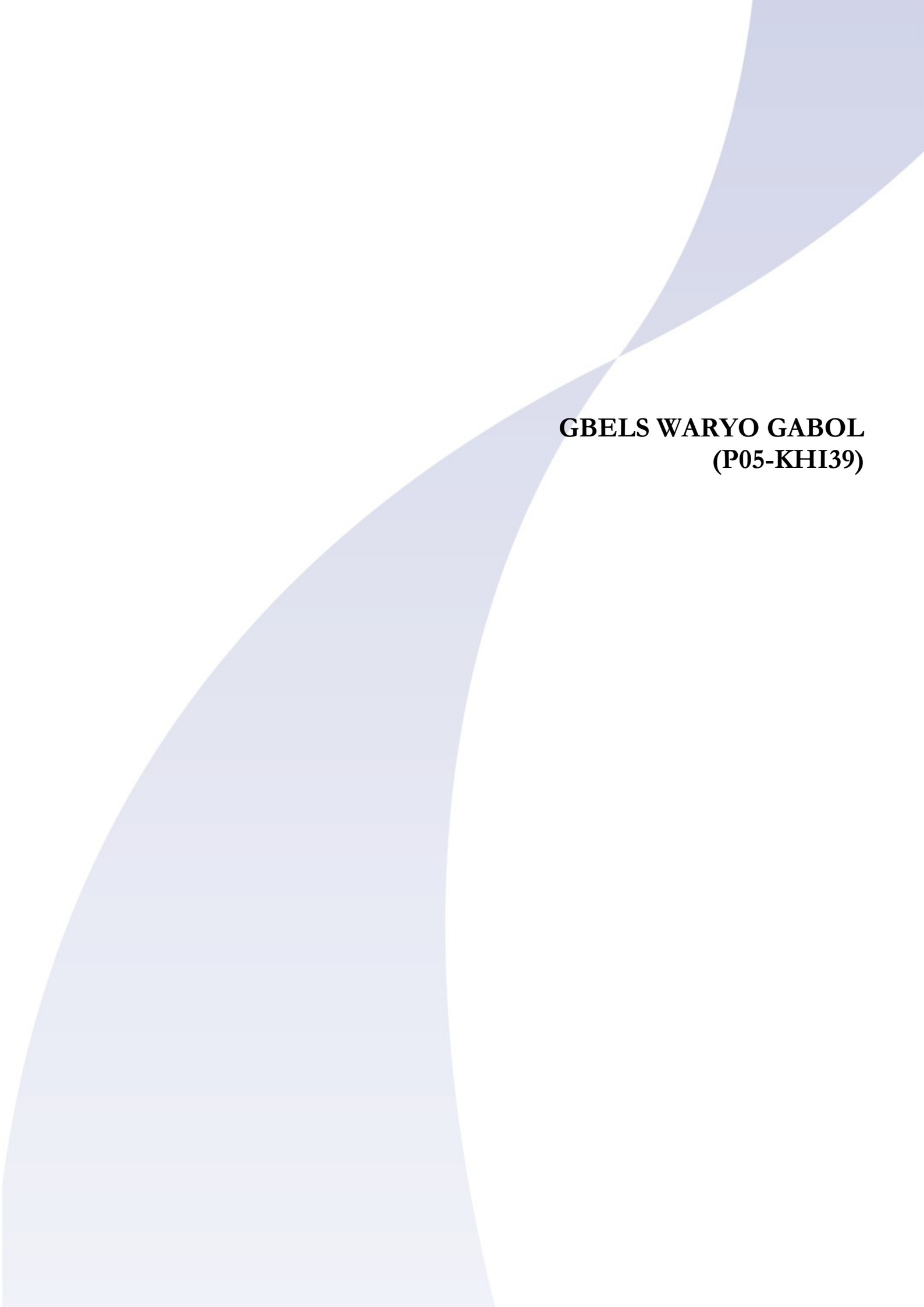
Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P26	Providing & fixing M.S sheet 1/4" thick, 1/8" Dia hole 2 inch c/c (Diffuser Plate), as per drawing or directed by the Engineer.	37	Sq.ft.			
01-05P27	Providing & laying Dry rammed brick ballast 1-1/2" to 2" (40mm to 50mm) guage, including screening and washing as per drawing or directed by the Engineer.	9	Cft.			
01-05P28	Providing & laying iron nails with out coating (1" thick layer) as per drawing or directed by the Engineer.	125	Kg.			
01-05P29	Providing & fixing cover over Kanchan Filter of PVC sheet 1/2" thick, as per drawing or directed by the Engineer.	32	Sq.ft.			
01-05P30	Providing, laying, cutting, jointing, testing and disinfecting PPRC pipe including plastic shower heads with all fittings complete in all respects as per drawing or directed by the Engineer. i) 3/4" internal dia (32 mm outer dia)	23	Rft.			
01-05P31	Providing and fixing Plastic Shower Heads	9	Nos			
<u>Tube Well / Penumatic Pump</u>						
01-05P32	Boring for tubewell in all types of soil except shingle and rock, from ground level to 100 ft (30m) Depth, including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. i) 8"i/d (200mm)	100	Rft.			
01-05P33	Boring for tubewell in all types of soil except shingle and rock, from a depth of 100.1 to 200ft (30 to 60 m) below ground level,including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. i) 8"i/d (200mm)	50	Rft.			
01-05P34	Providing and installing P.V.C. bail/End plug B.S.S. class 'D', in tubewell bore hole, complete in all respect and as directed by the Engineer. i)2" i/d (100mm)	1	Each.			
01-05P35	Providing and installing P.V.C. blind pipe B.S.S Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer, etc, complete in all respect and as directed by the Engineer. i) 1" i/d(25mm) ii) 1-1/4" i/d(30mm) iii) 2" i/d(50mm)	150 40	Rft. Rft. Rft.			
01-05P36	Providing and installing P.V.C. strainer B.S.S Class 'D' in tubewell bore hole, including sockets and solvents; etc, complete in all respect and as directed by the Engineer. i)2" i/d(50mm)	40	Rft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P36	Providing and installing P.V.C. blind pipe B.S.S Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer, complete in all respect and as directed by the Engineer.	60	Rft.			
01-05P37	Testing and developing of bore hole, complete in all respect and as directed by the Engineer.	3	Per Hr.			
01-05P38	Shrouding with graded pea gravel 3/8" to 1/8" around tubewell in bore hole, complete in all respect and as directed by the Engineer.	45	Cft.			
01-05P39	Providing/fixing Injector valve as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	Each.			
01-05P40	Providing/fixing P.V.C. Cup/Cover as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	No.			
01-05P41	Providing/fixing Pneumatic Pump (having 4 impellers capable to carry a discharge of 400 gals/hr against 90 ft head and 3 HP Motor), complete in all respect and as directed by the Engineer.	1	Set.			
	<u>EXTERNAL PIPING</u> <u>Plumbing Water Supply</u>					
01-05P42	Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for water supply as per DIN 8077-8078 for pipes and DIN 16962, PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.					
	i) ½" internal dia (20 mm outer dia)		Rft.			
	ii) ¾" internal dia (32 mm outer dia)	30	Rft.			
	iii) 1" internal dia (40 mm outer dia)	150	Rft.			
	iv) 1¼" internal dia (50 mm outer dia)	130	Rft.			
	v) 1½" internal dia (63 mm outer dia)	13	Rft.			
	vi) 2" internal dia (75 mm outer dia)		Rft.			
	vii) 2½" internal dia (90 mm outer dia)		Rft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P43	Providing and installing gate/ball valves, Kitz or approved equivalent make, including jointing ,fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters. i) ¾" internal dia (32 mm outer dia) ii) 1" internal dia (40 mm outer dia) iii) 1¼" internal dia (50 mm outer dia) iv) 1½" internal dia (63 mm outer dia) v) 2" internal dia (75 mm outer dia) vi) 2½" internal dia (90 mm outer dia) <u>Plumbing Sewerage</u>	2 5 4 0 No No	No No No No No No			
01-05P44	Providing, fixing , cutting, jointing and testing uPVC piping conforming to BS-4514 and BS 5255 including uPVC fittings with solvent cement jointing, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter: 2" dia 3" dia 4" dia 6" dia	32 430	Rft. Rft. Rft. Rft.			
01-05P45	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.		No.			
01-05P46	Construction of rectangular brick masonry manhole of 2'x2' for sewer complete with plastering from internal and external side, PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, rungs, complete as per drawings.		No.			
01-05P47	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.		No.			
01-05P48	Providing and fixing Clean Out complete in all respects <u>Water Supply Pump For GST</u>		No.			
01-05P49	Supply at site, installation, testing and commissioning of water supply reciprocating pump with 2HP motor as per spacification complete in all respect.	2	No			
Page Total						
G-Total C/o to Summary						



GBELS WARYO GABOL
(P05-KHI39)

SINDH BASIC EDUCATION PROGRAM
CONSTRUCTION OF NEW SCHOOLS AND UPGRADATION OF EXISTING SCHOOLS
Package- 05: Karachi, City
GBELS WARYO GABOL GOTH, GADAP TOWN
SUMMARY OF TENDERED COST

CODE	DESCRIPTION	AMOUNT IN PAK.RUPEES
	A. GENERAL ITEMS	_____
	B. CIVIL WORKS	_____
	C. EXTERNAL WORKS	_____
	D. ELECTRICAL WORKS	_____
	E. PLUMBING WORKS	_____
	F. DAYWORK COST	_____
Sub-Total		

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
<u>Temporary Facilities (Optional Items)</u>						
01- 01 G 1	Ref.Spec. No. G05 Providing and maintaining a rental building of area 1,500 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, water supply and sanitation complete in all respect as directed by the Engineer.	Rate only	Month			
OR						
01- 01 G 2	Providing and maintaining a tent school of area 1,500 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, water supply and sanitation complete in all respect as directed by the Engineer.	Rate only	Month			
OR						
01- 01 G 3	Providing and maintaining porta cabins for school of area 1,500 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, airconditioning, water supply and sanitation complete in all respect as directed by the Engineer.	Rate only	Month			
OR						
01- 01 G 3A	Shifting of furnitures and equipemnts and reinstall etc from existing school to rental building and reinstall as per specification and directed by the engineer.	Rate only	L.S			
01- 01 G 5	Repair & renovation of existing Governmet building proposed for temporary school during the construction. (The payable amount shall be assessed as per actual rehabilitation work on selected building and as per recommendation by the Engineer on BOQ rates of similar items quoted in the bid).	P.S.	P.S.			500,000
Sub- Total (Rs.)						
<u>Site Clearing and Grubbing</u>						
01- 01 G 4	Ref.Spec. No. C01 Clearing and Grubbing complete in all respect as directed by the Engineer.	24,379	Sft			
<u>DISMANTLING WORK</u>						
01- 01 G 5	Ref.Spec. No. G04 Dismantling, removing of existing building structure and foundations including disposal of debris materials to designated places/location as directed by the Engineer. All the dismantled materials shall be contractor's property and rate/price of dismantling work should include compensation of such items obtained by the Contractor from existing building.	3,504	Sft			
01- 01 G 6	Dismantling, removing of existing sewerage lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.			
01- 01 G 7	Dismantling, removing of existing water supply lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.			
01- 01 G 8	Dismantling, removing of existing electrical supply line as directed by the Engineer.	150	Rft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
01- 01 G 9	Dismatling of existing boundry wall as shown in the drawing including disposal of surplus material and as directed by the Engineer. Dismantled material shall be contractor's property.	683	Rft			
01- 01 G 9A	Dismatling of existing walkways/plateform/water tank ramp etc and flooring as shown in the drawing/ as per site including disposal of surplus material and as directed by the Engineer. Dismantled material shall be contractor's property.	900	Sft			
<u>POWER SUPPLY & TELECOMMUNICATION</u>						
01- 01 G 10	Providing, installing, testing and commissioning of electrical supply line for re-routing as per new plan including cables, all fixtures, connections and all related civil works as directed by the Engineer.	1	Job			
01- 01 G 11	Providing, installing, testing and commissioning of telephone line for re-routing as per new plan including cables, all fixtures, connections and all related civil works as directed by the Engineer.	1	Job			
<u>SIGN BOARD / PLAQUE</u>						
Ref.Spec. No. SP 100						
01- 01 G 12	Providing and installation of Project sign board as per drawing complete including all civil related works, foundations, earthwork concrete, protection works complete as directed by the Engineer.	1	Job			
01- 01 G 13	Providing, construction and installation of Inauguration Plaque as per drawing complete including all civil related works, foundations, earthwork concrete, protection works etc complete as directed by the Engineer.	1	Job			
02- 01 G 14	Providing and maintenance of the Engineer's facilities at individual school site as per clause 44, Section-100 (SP), Volume-III (A), Specifications-Special Provisions. All items/ materials/ equipment shall become contractor's property at the completion of works.	12	Month			
<u>WATER TESTING</u>						
Ref.Spec. No.						
01- 01 G 15	Sampling and testing of Water from bore of well (TDS) including submission of report as per specification.	1	Each			
Total General Items (Rs.)						
Sub- Total C/o to Summary General Items Pak Rs.						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>CONSTRUCTION OF SCHOOL BUILDING</u>					
	<u>SUB-STRUCTURE</u>					
	<u>EARTHWORKS</u>					
	Ref.Spec. No. C02					
01- 02 C 1	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places. a) 0 ft to 5 ft b) More than 5 ft upto 10 ft.	30084 500	Cft. Cft.			
01- 02 C 2	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material/ source to be approved by the Engineer) upto free haulage limit.	15042 64853	Cft. Cft.			
01- 02 C 2A	Engineered fill layer not exceeding 6" thick with ASSHTO A-1-a type material & soling with compaction should be 98% MDD, (Maximum Dry density) selected materials including watering and compaction to every layer as per specification and drawings. a) Stone soling 12" compacted layer b) Fill layer not exceeding 6" thick with ASSHTO A-1-a type material.	Rate only Rate only	Cft. Cft.			
01- 02 C 2B	Plate load test as per specifications, including in all respect work complete performe and test reports with any number of tests as required by the engineer.	Rate only	L.s			
	<u>DEWATERING</u>					
	Ref.Spec. No. G03					
01- 02 C 3	Designing, providing and installation of complete dewatering system including boring, strainer, filter and other all materials, pumping and disposal of water upto Engineer's satisfaction and to keep the construction surface dry all the time. a) Completion of installation works at site, up 100% running/ working position b) Dewatering, days not allow more then/ maximum payable	Rate only Rate only	L.S. Day			
	<u>TERMITE CONTROL TREATMENT</u>					
	Ref.Spec. No. C03					
01- 02 C 4	Termite control treatment to surfaces following structures complete in all respect as per specification: (Only plan area will be measured)	11525	Sq.ft.			
	<u>REINFORCEMENT</u>					
	Ref.Spec. No. C04					
01- 02 C 5	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	43	ton.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 6	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	1	ton.			
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u> Ref.Spec. No. C04					
01- 02 C 7	Blinding concrete 1250 psi using slag cement conforming to BS-146.	3314	Cft.			
01- 02 C 8	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Isolated foundations b) Columns upto plinth c) Plinth beams d) SOG & Ramps Slabs e) Walls	12209 1057 2769 158 50	Cft. Cft. Cft. Cft. Cft.			
	<u>SITU CONCRETE 1:3:6</u> Ref.Spec. No. C04					
07- 02 C 9	Situ concrete 1:3:6, with formwork under the plinth beam thickness as per drawings, using slag cement conforming to BS-146, straight or curve at any level including all anchors required to be built in Rcc columns pedestals, complete in all respect as per drawings and specifications.	1500	Cft.			
	<u>BRICK MASONRY</u> Ref.Spec. No. C05					
07- 02 C 9 A	Solid brick masonry under the plinth beam of one and half brick thickness, set in 1:4 using slag cement conforming to BS-146 & sand mortar, straight or curve at any level including all anchors required to be built in brick masonry, complete in all respect as per drawings and specifications.	Rate only	Cft.			
	<u>HARDCORE/ STONE SOLING</u> Ref.Spec. No. C07					
01- 02 C 10	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	8560	Sq.ft.			
	<u>P.C.C UNDER FLOORING</u> Ref.Spec. No. C07					
01- 02 C 11	PCC 4" thick plain cement concrete (using slag cement conforming to BS-146) sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	8560	Sq.ft.			
	<u>PLINTH PROTECTION</u> Ref.Spec. No. C04 & C07					
01- 02 C 12	Blinding concrete 1250 psi using slag cement conforming to BS-146	690	Cft.			
	<u>PROTECTION WORKS</u> Ref.Spec. No. C16					
01- 02 C 13	Vapor barrier sheet, under the floor as per drawings and specifications.	8560	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 14	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	22998	Sq.ft.			
<p><u>SUPER-STRUCTURE WORKS</u> <u>Ground Floor (From Plinth level to 1st Slab)</u> <u>REINFORCEMENT</u> Ref.Spec. No. C04</p>						
01- 02 C 15	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	32	ton.			
01- 02 C 16	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	1	ton.			
<p><u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u> Ref.Spec. No. C04</p>						
01- 02 C 17	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification;					
	a) Columns	1526	Cft.			
	b) Beams & lintels	2029	Cft.			
	c) Slab & projections	5582	Cft.			
	d) Stair cases	373	Cft.			
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts.	198	Cft.			
	f) Parapet wall for stair cases	83	Cft.			
<p><u>First Floor (From 1st Slab to 2nd slab)</u> <u>REINFORCEMENT</u> Ref.Spec. No. C04</p>						
01- 02 C 18	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	34	ton.			
01- 02 C 19	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	1	ton.			
<p><u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u> Ref.Spec. No. C04</p>						
01- 02 C 20	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification;					
	a) Columns	1690	Cft.			
	b) Beams & lintels	2060	Cft.			
	c) Slab & projections	5765	Cft.			
	d) Stair cases	175	Cft.			
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts.	206	Cft.			
	f) Parapet wall for stair cases	32	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>Second Floor / Roof (From 2nd slab to 3rd slab & tower)</u>					
	<u>REINFORCEMENT</u>					
	Ref.Spec. No. C04					
01- 02 C 21	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	4	ton.			
01- 02 C 22	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	1	ton.			
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u>					
	Ref.Spec. No. C04					
01- 02 C 23	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures components complete in all respect as per drawings and specification;					
	a) Columns	108	Cft.			
	b) Beams & lintels	124	Cft.			
	c) Slab & projections	252	Cft.			
	d) Parapet Wall/ Purdi	815	Cft.			
	e) Precast coping for parapet wall at roof and erecting/ fixing including shuttering and all accessories and/or embedded parts.	1000	Rft.			
	g) Over head water tank, column, walls & slab	396	Cft.			
	f) Others Misc Str	20	Cft.			
	<u>FINISHING WORKS</u>					
	<u>For Ground floor</u>					
	<u>BLOCK MASONRY</u>					
	Ref.Spec. No.C18					
01- 02 C 24	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 4" thick	1863	Cft.			
	b) 6" thick	279	Cft.			
	c) 8" thick	5430	Cft.			
	d) 4" thick, external cavity; wall with all accessories arrangements for stone tile facing or Color Crete finishig including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	1845	Cft.			
	<u>BRICK MASONRY</u>					
	Ref.Spec. No. C05					
01- 02 C 24 A	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.					
	a) 4-1/2" thick	Rate only	Cft.			
	b) 9" thick	Rate only	Cft.			
	c)13-1/2" thick	Rate only	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 25	<p><u>DOORS FRAMES</u> Ref.Spec. No. C09 & C11 G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.</p>	752	R.ft.			
01- 02 C 26	<p><u>CEMENT PLASTER</u> Ref.Spec. No. C06 3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.</p>	375	Sq.ft.			
01- 02 C 28	<p>1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.</p>	8780	Sq.ft.			
01- 02 C 29	<p>1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.</p>	20773	Sq.ft.			
01- 02 C 30	<p><u>ALUMINIUM WORKS</u> Ref.Spec. No. C11 Supply and fix in position as specified anodized aluminum openable windows and ventilators of 2"x4" section, approved manufacturer having minimum wall thickness not less than 1.6 mm with netted shutter and 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.</p>	1733	Sq.ft.			
01- 02 C 31	<p>Supply and fix in position as specified anodized aluminum doors with fixed panel both side and top of approved 2"x4" section, manufacturer having minimum wall thickness not less than 1.6 mm with 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.</p>	116	Sq.ft.			
01- 02 C 32	<p><u>STRUCTURAL STEEL</u> Ref. Sec.No. C13 Mild steel grills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings and specification.</p>	2166	Kg			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 33	Providing and fixing railing for stairs/ramps as per drawing and specifications complete in all respect. a) MS railing stairs b) M.S railing at entrance	54 60	Rft Rft			
01- 02 C 34	Providing and fixing MS pipe railing for courtyard with paintings, as per drawing and specifications complete in all respect and approved by the Engineer.	177	Rft			
01- 02 C 35	Providing and fixing MS folding gate (Emergency Exit) with paintings, complete in all respects as per drawing and specifications.	2	No			
01- 02 C 35 A	Providing and fixing MS folding Main entrance gate with paintings, complete in all respects as per drawing and specifications.	1	No			
<u>FLOOR AND WALL FINISHES</u>						
Ref.Spec. No. C07						
01- 02 C 36	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	7841	Sq.ft.			
01- 02 C 37	Providing and laying terrazzo tile for entrance ramp (3/4" thick) with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	75	Sq.ft.			
01- 02 C 38	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	494	Sq.ft.			
01- 02 C 39	Porcelain tile floor (type) using tile of size 8"x8" (full body), approved quality, colour and shade laid in approved pattern set in specified mortar including cement concrete base, complete in all respect as shown on the drawings and specifications.	730	Sq.ft.			
01- 02 C 40	Porcelain tile in Dado using tile of size 8"x8", quality, colour and shade laid in approved pattern including rough plaster base complete in all respect as shown on drawings and specifications.	3664	Sq.ft.			
<u>MARBLE WORKS</u>						
Ref.Spec. No. C07 & C08						
01- 02 C 41	Pre-polished marble on entrance steps, stairs, ramp & floor etc using approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.					
	a) Entrance Steps & Platform (3/4" thick)	325	Sq.ft.			
	b) Entrance Steps Risers (1/2" thick)	60	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 42	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	382	Sq.ft.			
01- 02 C 43	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	106	Sq.ft.			
01- 02 C 44	Pre-polished marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish including complete in all respect as shown on the drawings.	53	Sq.ft.			
01- 02 C 45	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	83	Sq.ft.			
	<u>PAINTING</u> Ref.Spec. No. C10					
01- 02 C 46	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	8780	Sq.ft.			
01- 02 C 47	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	20773	Sq.ft.			
01- 02 C 48	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	375	Sq.ft.			
	<u>WOODEN DOORS</u> Ref.Spec. No. C09					
01- 02 C 49	Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partal wood frame and infill, polish, color/ lacker, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	1093	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 50	Fixed 6mm plain laminated glass panel part at above door panel with solid wood batten including teak polish/ lacker at both sides arround the glass of approved type, quality complete in all respect as shown on the drawings and specifications.	146	Sq.ft.			
	<u>FALSE CEILING</u> Ref.Spec. No. C14					
01- 02 C 51	1/2" thick gypsum board ceiling including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on the drawings and specifications.	730	Sq.ft.			
	<u>Pre cast C.C Patren jali</u> Ref.Spec. No.C18, C5					
01- 02 C 52	C.C Patren jali as per approved designed and specification	360	Sq.ft.			
	<u>CLADDING/ EXTERNAL FACING</u> Ref.Spec. No.C19 & C20					
01- 02 C 53	Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	5591	Sq.ft.			
01- 02 C 53 A	Providing and laying Color-Crete with 3/4" Cement sand plaster on extrenal facing as per approverd sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	3074	Sq.ft.			
01- 02 C 53 B	Ref.Spec. No. C05 Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>FINISHING WORKS</u> <u>For First floor</u> <u>BLOCK MASONRY</u> Ref.Spec. No.C18					
01- 02 C 54	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 4" thick	551	Cft.			
	b) 6" thick	83	Cft.			
	c) 8" thick	6198	Cft.			
	d) 4" thick, external cavity; wall with all accessories arrangements for stone tile facing or Color Crete finishing including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	1845	Cft.			
	<u>BRICK MASONRY</u> Ref.Spec. No. C05					
01- 02 C 54 A	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.					
	a) 4-1/2" thick	Rate only	Cft.			
	b) 9" thick	Rate only	Cft.			
	c) 13-1/2" thick	Rate only	Cft.			
	<u>DOORS FRAMES</u> Ref.Spec. No. C09 & C11					
01- 02 C 55	G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	725	R.ft.			
	<u>CEMENT PLASTER</u> Ref.Spec. No. C 06					
01- 02 C 56	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers including complete in all respect as shown on the drawings.	175	Sq.ft.			
01- 02 C 57	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	8713	Sq.ft.			
01- 02 C 57 A	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	20562	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>ALUMINIUM WORKS</u>					
01- 02 C 58	Ref.Spec. No. C 11 Supply and fix in position as specified anodized aluminum openable windows and ventilators of 2"x4" section, approved manufacturer having minimum wall thickness not less than 1.6 mm with netted shutter and 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	1414	Sq.ft.			
	<u>STRUCTURAL STEEL</u>					
	Ref. Sec.No. C 13					
01- 02 C 59	Mild steel grills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings.	1739	Kg			
01- 02 C 60	Providing and fixing MS stair railing as per drawing and specifications complete in all respect.	30	Rft			
01- 02 C 61	Providing and fixing MS pipe railing for courtyard with paintings, as per drawing and specifications complete in all respect and approved by the engineers.	201	Rft			
	<u>FLOOR AND WALL FINISHES</u>					
	Ref.Spec. No. C 07, 08					
01- 02 C 62	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	9213	Sq.ft.			
01- 02 C 63	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	576	Sq.ft.			
01- 02 C 64	Porcelain tile floor (type) using tile of size 8"x8" (full body), approved quality, colour and shade laid in approved pattern set in specified mortar including cement concrete base, complete in all respect as shown on the drawings.	500	Sq.ft.			
01- 02 C 65	Porcelain tile in Dado using tile of size 8"x8", quality, colour and shade laid in approved pattern including rough plaster base complete in all respect.	2364	Sq.ft.			
	<u>MARBLE WORKS</u>					
	Ref.Spec. No. C 07, 08					
01- 02 C 66	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	176	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 67	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	50	Sq.ft.			
01- 02 C 68	Pre-polished marble tile for counter tops & other area 3/4" thick using of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including complete in all respect as shown on the drawings.	50	Sq.ft.			
01- 02 C 69	Pre-polished Marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	34	Sq.ft.			
01- 02 C 70	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	45	Sq.ft.			
	<u>PAINTING</u>					
	Ref.Spec. No. C 10					
01- 02 C 71	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	8713	Sq.ft.			
01- 02 C 72	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	20562	Sq.ft.			
	<u>WOODEN DOORS</u>					
	Ref.Spec. No. C 09, 12					
01- 02 C 73	Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partial wood frame and infill, polish, color/ lacker, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	1071				
01- 02 C 74	Fixed 6mm plain laminated glass panel part at above door panel with solid wood batten including teak polish/ lacker at both sides arround the glass of approved type, quality complete in all respect as shown on the drawings and specifications.	93	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 75	FALSE CEILING Ref.Spec. No.C14 12mm thick gypsum board ceiling including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on the drawings and specifications.	635	Sq.ft.			
01- 02 C 76	Pre cast C.C Patren jali Ref.Spec. No.C18, C5 C.C Patren jali as per approved designed and specification	731	Sq.ft.			
01- 02 C 77	STONE CLADDING/ COLOR-CRETE/ EXTERNAL FACING Ref.Spec. No. C19 & C20 Providing and laying stone clading/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	5591	Sq.ft.			
01- 02 C 77 A	Providing and laying Color-Crete with 3/4" Cement sand plaster on extrenal facing as per approved sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	3074	Sq.ft.			
01- 02 C 77 B	Ref.Spec. No. C05 Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq.ft.			
01- 02 C 78	WATER PROOFING AND BUILTUP ROOFING Ref.Spec. No.C 16 Water proofing and built up roofing over roof slab comprising all the layers and coatings etc as shown in the drawings and specifications.	11795	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>FINISHING WORKS</u> <u>For Roof floor / Secound floor</u> <u>BLOCK MASONRY</u> Ref.Spec. No. C18					
01- 02 C 79	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 4" thick	30	Cft.			
	b) 6" thick	50	Cft.			
	c) 8" thick	430	Cft.			
	d) 4" thick, external cavity; wall with all accessories arrangements for stone tile facing or Color Crete finishig including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	1347	Cft.			
	<u>BRICK MASONRY</u> Ref.Spec. No. C05					
01- 02 C 79A	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.					
	a) 4-1/2" thick	Rate only	Cft.			
	b) 9" thick	Rate only	Cft.			
	c) 13-1/2" thick	Rate only	Cft.			
	<u>DOORS FRAMES</u> Ref.Spec. No. C09 & C11					
01- 02 C 80	G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	35	R.ft.			
	<u>CEMENT PLASTER</u> Ref.Spec. No. C 06					
01- 02 C 81	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection, parapet or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and as per elevation complete in all respect as shown on the drawings.	2504	Sq.ft.			
01- 02 C 82	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	388	Sq.ft.			
01- 02 C 83	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	928	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 84	3/4" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls to O.H.W Tank etc with making of chamfer corner in plaster as per drawings and specifications.	305	Sq.ft.			
01- 02 C 85	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating.	150	Sq.ft.			
01- 02 C 86	Water proofing coating treatment to all horizontal surfaces in contact with water shall be treated with 1 coat of crystalline water proofing coating.	210	Sq.ft.			
01- 02 C 86	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, including fixing of frame and embedded parts in concrete and painting, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 02 C 86 A	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer. (For O.H.W tank)	4	No.			
<u>FLOOR AND WALL FINISHES</u>						
Ref.Spec. No. C 07, 08						
01- 02 C 87	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	180	Sq.ft.			
01- 02 C 88	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	16	Sq.ft.			
<u>MARBLE WORKS</u>						
Ref.Spec. No. C 07, 08						
01- 02 C 89	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	6	Sq.ft.			
<u>PAINTING</u>						
Ref.Spec. No. C 10						
01- 02 C 90	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	388	Sq.ft.			
01- 02 C 91	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	928	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 92	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc.complete in all respect as directed by the Engineer.	2504	Sq.ft.			
	<u>WOODEN DOORS</u> Ref.Spec. No. C 09, C12					
01- 02 C 93	Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partal wood frame and infill, polish, color/ lacker, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	45	Sq.ft.			
	<u>Pre cast C.C Patren jali and Railing</u> Ref.Spec. No.C18, C5 & C21					
01- 02 C 94	C.C Patren jali as per approved designed and specification	100	Sq.ft.			
01- 02 C 95	Precast water spout as per approved designed and specification	15	No.			
	<u>CLADDING/ EXTERNAL FACING</u> Ref.Spec. No. C19 & C20					
01- 02 C 96	Providing and laying stone clading/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	4083	Sq.ft.			
	Providing and laying Color-Crete with 3/4" Cement sand plaster on extrenal facing as per approverd sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	566	Sq.ft.			
01- 02 C 98	Ref.Spec. No. C05 Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq.ft.			
Total C/o to Summary for CIVIL WORKS Pak Rs.						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>EXTERNAL DEVELOPEMENT</u>					
	<u>CONSTRUCTION OF BOUNDARY WALL</u>					
	Ref.Spec. No. C02					
	<u>EARTHWORKS</u>					
	Ref.Spec. No.					
01- 03 D 1	Excavation in all kinds of sub-surface materials, timbering upto following depths including disposal of surplus / rejected excavated materials to designated places.					
	a) 0 ft to 5 ft	3,923	Cft.			
01- 03 D 2	Fill and backfill with selected materials including watering and compaction to every layer as per specification.					
	a) From suitable excavated material (from stockpile of excavated materials)	1,962	Cft.			
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	14,789	Cft.			
01- 03 D3	Area Fill with selected materials from outside source including watering and compaction to every layer as per specification for Play ground.					
		1,000	Cft.			
	<u>DEWATERING</u>					
	Ref.Spec. No. G03					
01- 03 D4	Designing, providing and installation of complete dewatering system including boring, strainer, filter and other all materials, pumping and disposal of water upto Engineer's satisfaction and to keep the construction surface dry all the time.					
	a) Completion of installation works at site, up 100% running/ working position	Rate only	L.S.			
	b) Dewatering	Rate only	Day			
	<u>TERMITE CONTROL TREATMENT</u>					
	Ref.Spec. No. C03					
01- 03 D5	Termite control treatment to surfaces following structures complete in all respect as per specification: (Only plan area will be measured)					
		3,141	Sq.ft.			
	<u>REINFORCEMENT</u>					
	Ref.Spec. No. C04					
01- 03 D6	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.					
		8.20	ton.			
	<u>PLAIN AND REINFORCED CONCRETE</u>					
	Ref.Spec. No. C04					
01- 03 D7	Blinding concrete 1250 psi using slag cement conforming to BS-146.					
		655	Cft.			
01- 03 D7A	Situ concrete 1:3:6, with formwork under the plinth beam thickness as per drawings, using slag cement conforming to BS-146, straight or curve at any level including all anchors required to be built in Rcc columns pedestals, complete in all respect as per drawings and specifications.					
		570	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D8	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Footings b) Columns upto plinth c) Plinth beams	1,109 236 684	Cft. Cft. Cft.			
01- 03 D9	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification; a) Columns	489	Cft.			
	<u>BLOCK MASONRY</u> Ref.Spec. No. C18					
01- 03 D10	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 8" thick / 4" thick	3,192	Cft.			
	<u>BRICK MASONRY</u> Ref.Spec. No. C05					
01- 03 D10 A	Solid brick masonry wall 9" thick with using slag cement conforming to BS-146 set in 1:4 cement sand mortar, straight or curve below plinth beam, planters including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per Drawings and Specifications. a) 9" thick	Rate only	Cft.			
01- 03 D10 B	Solid brick masonry wall with pointing on both faces above plinth beam 9" thick set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties, and other fixtures required to be built in brick masonry, complete in all respect as per Drawings and specifications. a) 4 1/2" thick	Rate only	Cft.			
	<u>CEMENT PLASTER</u> Ref.Spec. No. C06					
01- 03 D11	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces (Columns, wall, beams and project etc.) including making grooves as per design and elevation complete in all respect as shown on the drawings.	3,710	Sq.ft.			
	<u>PROTECTION WORKS</u> Ref.Spec. No. C16					
01- 03 D12	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	4,744	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D13	<p><u>COPING</u> Ref.Spec. No. C04 Providing and fixing 3" thick coping including plaster using OP cement for boundary wall complete as shown on the drawings.</p>	611	Rft.			
01- 03 D14	<p><u>STRUCTURAL STEEL</u> Ref. Sec.No. C13 Mild steel main gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 14'x7')</p>	1	no			
01- 03 D15	<p>Mild steel wicket gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 3'x7')</p>	1	no			
01- 03 D 15A	<p><u>CLADDING/ EXTERNAL FACING</u> Ref.Spec. No. C19 & C20 Providing and laying stone cladding/ stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.</p>	10387	Sq.ft.			
01- 03 D 16	<p><u>LANDSCAPING</u> Ref. Sec.No. C17 Fill and backfill with selected materials including watering and compaction to every layer as per specification.</p>	1,960	Cft.			
01- 03 D17	<p>Area fill with selected materials including watering and compaction to every layer as per specification.</p>	28,843	Cft.			
01- 03 D18	<p>Relocation and replanting of removed trees as per specifications and and as directed by the Engineer.</p>	14	No.			
01- 03 D19	<p>Development of lawn (grass) including fertilizer mixed with earth including spreading and watering etc. and cutting etc. till guarantee period (12 months) complete in all respect as shown on the drawings and as per specifications.</p>	11,500	Sq.ft.			
01- 03 D20	<p>12" thick approved selected sweet earth including spreading, levelling, dressing and watering etc. complete in all respect as per specifications and as directed by the Engineer.</p>	11,500	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D21	Trees/ plants of the following types and size/ height including excavation, backfilling, manure/ fertilizer, supports and water etc. complete in all respect as shown on the drawings, specifications and as directed by the Engineer. a) Neem tree (3 to 4 feet) b) Babul tree (3 to 4 feet) c) Golmohar (3 to 4 feet) d) Champa (2 to 3 feet) e) Crape Jasmine (2 to 3 feet) f) Cement Concrete planters.	14 5 10 22 22 170	No. No. No. No. No. Rft			
	<u>Foothpath Walkway (Precast Paving Blocks / Tiles)</u> Ref. Sec.No.C21					
01- 03 D22	4" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	950	Sq.ft.			
01- 03 D23	Precast cement concrete paving blocks envicrete or approved equivalent of size 8" x 4" x 2.5" laid in approved pattern including 2" thick sand cushion,	950	Sq.ft.			
01- 03 D24	PCC concrete kerb envicrete or approved equivalent including lean, hauching concrete etc complete as per drawing and specifications with earth cutting/ filling, levelling, dressing etc complete in all respect as per specifications and as directed by the Engineer.	161	Rft			
01- 03 D24A	Plain cement concrete panel flooring including 1/2" Groove @ 8"c/c, joints etc complete as shown in the drawings.	315	Sq.ft.			
	<u>EXTERNAL SEWER & MANHOLES</u>					
01- 03 D25	Construction of manholes with material including, excavation, base top RCC slab, GI steps, CC benching water proof internal plaster, external bitumen coating etc inlet/out connections etc. i. 24" x 24" SIZE ii. 36" x 36" SIZE	8 2	Nos. Nos.			
01- 03 D26	Supply and fix water tight (Square Type) Malleable Iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	10	No.			
	<u>Septic Tank</u>					
01- 03 D27	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft.	830 430	Cft. Cft.			
01- 03 D28	Blinding concrete 1250 psi using slag cement conforming to BS-146	55	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D29	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of Crystalline water proofing coating.	490	Sq.ft.			
01- 03 D30	Water proofing coating treatment to all surfaces in contact with water shall be treated with 1 coat of Crystalline water proofing coating on horizontal surface.	140	Sq.ft.			
01- 03 D30	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) Base Slab. b) Walls including chamfer etc. c) Top Slab	111 345 70	Cft. Cft. Cft.			
01- 03 D31	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	1.5	Ton			
01- 03 D32	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	90	Sq.ft.			
01- 03 D33	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	630	Sq.ft.			
01- 03 D34	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings complete in all respect as shown on the drawings and specifications.	430	Sq.ft.			
01- 03 D35	Providing embedding 10" wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	51	Rft.			
01- 03 D36	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 03 D37	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No.			
01- 03 D38	<u>Soakage Pit</u> Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft. c) More than 10 ft upto full depth.	900 900 1,800	Cft. Cft. Cft.			
01- 03 D39	Blinding concrete 2000 psi using slag cement conforming to BS-146	25	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D40	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 20" thick b) 16" thick b) 12" thick	680 550 210	Cft Cft Cft			
01- 03 D41	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. Pre-cast R.C.C Slab	90	Cft			
01- 03 D42	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.35	Ton			
01- 03 D43	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	1	No			
01- 03 D44	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	24	No			
	<u>Ground Storage Tank</u>					
01- 03 D45	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft.	725 12	Cft. Cft.			
01- 03 D46	Blinding concrete 1250 psi using slag cement conforming to BS-146	48	Cft.			
01- 03 D47	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) Base Slab. b) Walls including chamfer etc. c) Top slabs d) Precast Slab	100 255 60 10	Cft. Cft. Cft. Cft.			
01- 03 D48	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	1	Ton			
01- 03 D49	Providing embedding 10" (250 mm) wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	55	Rft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D50	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 12" thick	75	Cft.			
01- 03 D51	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 03 D52	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	10	No.			
01- 03 D53	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	530	Sq.ft.			
01- 03 D54	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	116	Sq.ft.			
01- 03 D55	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	435	Sq.ft.			
01- 03 D56	2" thick, 3000psi (cly) cement concrete floor and screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	185	Sq.ft.			
01- 03 D57	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc.complete in all respect as per specifications.	90	Sq.ft.			
01- 03 D58	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	12	Sq.ft.			
01- 03 D59	Providing and applying three or more coats of matt emultion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	40	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D60	MS Door including paint etc complete in all respect as shown in the drawings.	15	Sq.ft.			
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 2 coats of crystalline water proofing coating on vertical surfaces	577	Sq.ft.			
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 1 coat of crystalline water proofing coating on horizontal surfaces.	83	Sq.ft.			
<u>Tube Well / Penumatic Pump</u>						
<u>Construction works</u>						
01- 03 D62	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft	150	Cft.			
01- 02 C 63	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials)	20	Cft.			
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	40	Cft.			
01- 03 D64	Blinding concrete 1250 psi using slag cement conforming to BS-146	60	Cft.			
01- 03 D65	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification; Pre-cast R.C.C Slab including Beam	35	Cft.			
01- 03 D66	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.05	Ton			
01- 03 D67	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 20" thick, for foundation b) 16" thick, for foundation c) 12" thick, for foundation d) 12" thick, for above G.L e) 4" thick, for parapet wall	50 40 45 180 10	Cft Cft Cft Cft Cft			
01- 03 D68	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	285	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D69	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	25	Sq.ft.			
01- 03 D70	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	150	Sq.ft.			
01- 03 D71	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	25	Sq.ft.			
01- 03 D72	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	25	Sq.ft.			
01- 03 D73	Plain cement concrete 2" thick floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	25	Sq.ft.			
01- 03 D74	Plain cement concrete 2" thick screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	33	Sq.ft.			
01- 03 D75	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc.complete in all respect as per specifications.	285	Sq.ft.			
01- 03 D76	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	25	Sq.ft.			
01- 03 D77	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	150	Sq.ft.			
01- 03 D78	Vapor barrier sheet, under foundations and floor as per drawings and specifications.	25	Sq.ft.			
01- 03 D79	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	250	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>Kanchan Arsenic filter</u>					
01- 03 D80	Excavation and backfilling in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places. a) 0 ft to 5 ft	75	Cft.			
01- 03 D81	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material / scorce to be approved by the Engineer) upto free haulage limit.	50 100	Cft. Cft.			
01- 03 D82	Blinding concrete 1250 psi using slag cement conforming to BS-146	15	Cft.			
01- 03 D83	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) footing b) Columns up bottom first slab c) Slabs & projection e) Walls including chamfer etc.	25 20 35 80	Cft. Cft. Cft. Cft.			
01- 03 D84	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.5	Ton			
01- 03 D85	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	84	Sq.ft.			
01- 03 D86	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	84	Sq.ft.			
01- 03 D87	2" thick, 3000 cement concrete floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	84	Sq.ft.			
01- 03 D88	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	152	Sq.ft.			
01- 03 D89	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	126	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D90	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating.	126	Sq.ft.			
01- 03 D91	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	218	Sq.ft.			
01- 03 D92	Plain cement concrete panel flooring: Plain cement concrete panel flooring including sub flooring and base preparation, joints etc complete as shown in the drawings.	2,300	Sq.ft.			
Sub- Total C/o to Summary for External Development work Pak Rs.						

GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
32-04E 1	<p>PART -1 <u>Distribution Board</u> <u>Distribution Board</u></p> <p>Fabrication, Supply, installation, Testing and commissioning at site of following Distribution board, made of MS Sheet 16 SWG with hinged door, handle, catcher, earthing bar, neutral strip, internal wiring from MCBs terminating on cable terminal blocks, 2 coats of antirust and powder coated paint of approved colour, including cost of all necessary materials complete in all respects, DBs shall be manufactured as per specification, single line diagram complete in all respect up to the satisfaction of Engineer.</p>					
	i) MDBLP-GF	1	No.			
	ii) DBLP-GF1	1	No.			
	iii) DBLP-GF2	1	No.			
	vi) DBLP-FF1	1	No.			
	v) DBLP-FF2	1	No.			
	vi) MCC-WP	1	No.			
	vii) DB-EXT (IP 54)	1	No.			
CARRIED FORWARD TO SUMMARY						

GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-2: CABLES AND CONDUITS					
39-04E 2	<u>L.V. Power Cables</u> Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 600 / 1000 Volt grade manufactured by any one of the manufacturers as mentioned in approved manufacturer list in pre-laid conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the employers electrical engineer before placing the order with the manufacturer.					
	a) 4 Core Cu/PVC/PVC CABLE					
	i. 4 core 10mm.sq.	545	R.ft			
	ii. 4 core 16mm.sq.	330	R.ft			
	iii. 4 core 50mm.sq.	100	R.ft			
	b) Circuit Protective Conductor (CPC)					
	i. 1 core 10mm sq. PVC insulated colour Green/Yellow.	545	R.ft			
	ii. 1 core 16mm sq. PVC insulated colour Green/Yellow.	330	R.ft			
	iii. 1 core 25mm sq. PVC insulated colour Green/Yellow.	100	R.ft			
39-04E 3	<u>P.V.C. Conduit and Accessories</u> Supply at site of PVC conduit to be installed on slabs, walls, floor, columns or as required as per site conditions including cost of all PVC conduit accessories, steel pull wires, complete in all respects.					
	a) 32mm (1.25") dia. PVC conduit to pull electric cable.	415	R.ft			
	b) 38mm (1.5") dia. PVC conduit to pull electric cable.	360	R.ft			
	c) 50mm (2") dia. PVC conduit to pull electric cable.	135	R.ft			
	d) 75mm (3") dia. PVC conduit to pull electric cable.	200	R.ft			
CARRIED FORWARD TO SUMMARY						

GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-3 <u>Wiring & Conduiting</u>					
39-04E 4	<u>Circuit Wiring & Conduiting</u>					
	a) Circuit Wiring and conduiting from DB to switch / Fan dimmer with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	32	Nos.			
	b) Same as item (a) but wiring from switch to switch with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit.	57	Nos.			
	c) Wiring from switch/dimmer to first light/fan point with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm dia PVC conduit, complete with cables and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	181	Nos.			
	d) Wiring and conduiting of light point to point with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	105	Nos.	898		94,290
	e) Circuit Wiring and conduiting from DB to power socket outlet with 2 x 4 sq.mm 1 core Cu/PVC insulated cable + CPC 4 sq.mm 1 core Cu/PVC insulated cable in 20 mm dia PVC conduit complete with cables, conduits and all necessary accessories such as sheet steel back box with earth connecting point bends, junction boxes, sockets etc., as per the specifications and drawings and approval by the Engineer.	21	Nos.			
	f) Same as item (e) but wiring between adjacent socket outlets with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC.	17	Nos.			

GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
g)	Same as (e) but wiring from socket outlet to socket outlet with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC.	37	Nos.			
h)	Wiring and conduiting from DB to water pump/LBS with 2 x 6 sq.mm 1 core Cu/PVC insulated cable + CPC 6 sq.mm 1 core Cu/PVC insulated cable in 25 mm dia PVC conduit complete with cables, conduits and all necessary accessories such as bends, junction boxes, sockets etc., as per the specifications and drawings and approval by the Engineer.	4	Nos.			
CARRIED FORWARD TO SUMMARY						

GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-4: LIGHT FIXTURES, FANS, SWITCHES, OUTLETS & ACCESSORIES					
39-04E 5	<u>LIGHT FIXTURES</u> Supply, Installation, testing and commissioning of following light fittings, ceiling /wall mounted / with hanging arrangement made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, as per approved manufacturer, fittings shall be duly approved by Engineer.					
	a. Fluorescent Light TMS 015 with 1x36Watt TL-D lamp color 84 & electronic ballast.	73	Nos.			
	b. Fluorescent Light TMS 015 with 1x18Watt TL-D lamp color 84 & electronic ballast.	6	Nos.			
	c. LED Light TCS398 2x16Watt TL-Master LED lamp with M2 Louver .	22	Nos.			
	d. LED Light TCS398 2x16Watt TL-Master LED lamp with M2 Louver.(with hanging arrangement)	94	Nos.			
	e. Fluorescent Light TBS 318 with 1x36Watt TL-D lamp color 84 & electronic ballast.	16	Nos.			
39-04E 6	<u>Ceiling Fans</u> Supply, installation and commissioning of 4-blades ceiling fans of following sizes, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respects, fittings shall be duly approved by Engineer.					
	a. 56" dia.	7	Nos.			
	b. 48" dia.	65	Nos.			
	c. 36" dia.	1	Nos.			

GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
39-04E 7	<u>Switches & Fan Dimmers</u> Supply and installation of following type gang switches of 10 Amp rating, including 16 SWG sheet steel back box recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respect, as per specifications and drawings and approval by the Engineer.					
	i) One gang - 1 Way Switch	6	Nos.			
	ii) Two gang - 1 Way Switch	25	Nos.			
	iii) Three gang - 1 Way Switch	14	Nos.			
	iv) Four gang - 1 Way Switch	2	Nos.			
	v) One gang - Fan Dimmer	7	Nos.			
	vi) Two gang - Fan Dimmer	33	Nos.			
	vii) One gang - 2 Way Switch	2	Nos.			
39-04E 8	SOCKETS Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and drawings, as per approved manufacturer list and approval by the Engineer.					
	i) 10A, 2-pin universal Switch Socket outlet.	29	Nos.			
	ii) 13A, 3-pin Simplex Switch Socket outlet.	32	Nos.			
	iii) 13A, 3-pin Duplex Switch Socket outlet.	10	Nos.			
	iv) 15A, 3-pin Round Switch Socket outlet.	6	Nos.			
	v) Floor Box - Type B	16	Nos.			
39-04E 9	LOAD BREAK SWITCHES Supply, installation, testing & commissioning of following size Load Break switch with MS back box including all accessories complete in all respects, as per specifications and drawings and approval by the Engineer.					
	i) 30 Amp SPN LBS	1	Nos.			
CARRIED FORWARD TO SUMMARY						

GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-5: <u>EARTHING SYSTEM</u>					
39-04E 10	<u>Earth Electrode</u> Supply at site and installation of Copper earth electrodes, 10 feet long and 17mm dia including cost of all necessary materials, complete in all respects, as per specification.	11	Nos.			
39-04E 11	<u>Copper Conductor</u> a) Supply, installation and connecting up of 1 x 16sqmm 1-Core Cu/PVC cable, directly buried in ground from ECP in pit to earth electrode, includes excavation, backfilling of earth, cad-welding of copper conductor to earth electrode rod at one end and provision/ fixing of cable lugs at other end, including all accessories as per the Specifications and Drawings and to the entire satisfaction and approval of the Engineer.	10	R.ft			
	b) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable in 38mm dia PVC conduit, directly buried in ground, from Pit to ECP / MCC, as per drawing or as per the instructions of the engineer. including cost of excavation, backfilling of earth, brass nuts, bolts, washers, all necessary accessories, complete in all respects.	25	R.ft	194		4,856
	c) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from ECP to U-link box and from U-Link box to data patch panel, as per drawing or as per the instructions of the engineer. including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	85	R.ft			
	d) Supply, installation and connections of bare copper conductor 50 mm sq. in 38mm dia PVC conduit, from building rebars / earth electrode to earth connecting point, as per drawing or as per the instructions of the engineer. including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	15	R.ft			
	e) Supply, installation and connections of copper conductor 1x50 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from earth connecting point to distribution board, as per drawing or as per the instructions of the engineer. including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	15	R.ft	368		5,513

GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
39-04E 12	<u>Earth Connecting Points (ECP)</u> Supply of earth connecting points consisting of copper plate 300mm long x 50mm wide x 6mm thick to be installed as and where shown on drawings, complete with fixing arrangement, brass nuts bolts, washers, lugs, 1/2" dia. holes to facilitate connections of Incoming copper strips / copper conductors and outgoing CPC.	2	Nos.			
39-04E 13	<u>ECP (in inspection Chamber)</u> Supply of earth connecting points in Earth pit / inspection chamber consisting of copper plate 200mm long x 50mm wide x 6mm thick with necessary holes, all fixing accessories of the copper plates on the wall of main holes, brass nuts bolts, washers, including cost of all necessary materials, complete in all respects.	2	Nos.			
39-04E 14	<u>Earth pit / Inspection Chamber</u> Construction of Earth pit/ inspection chamber 375mm x 375mm x 450mm deep with 150mm thick wall and 330mm x 330mm heavy duty R.C.C Cover, complete in all respects, as per specification.	2	Nos.			
39-04E 15	<u>Testing</u> Testing of the earthing system with "Earth Tester" along with other testing accessories. Testing shall be performed in the presence of the Engineer and written test result duly verified by the Engineer shall be submitted to the Client for his record.	1	Job			
CARRIED FORWARD TO SUMMARY						

GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	<u>PART-6: TELEPHONE / VOICE SYSTEM</u>					
39-04E 16	<u>Telephone / Data Network</u>					
	a) Wiring for each telephone point from Utility box to telephone point with Cat 6 UTP in 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects, as per drawing and specification.	230	R.ft			
	b) Wiring for each data point from Utility box with Cat 6A UTP, to data point, including cost of 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects as per drawing and specification.	1200	R.ft			
	c) Wiring from Utility box with Four pair Cat 6A UTP, to data patch panel, including cost of 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects as per drawing and specification.	140	R.ft			
	d) Supply, Installation of following telephone / data Outlet plate including RJ-45 IOs and 16 SWG sheet steel back box recessed in wall or wall surface, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.					
	i) Simplex Outlet RJ 45	23	Nos.			
	ii) Duplex Outlet RJ 45	3	Nos.			
39-04E 17	<u>U-link Box</u>					
	Supply, Installation, testing and commissioning of U-link box, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.	1	Nos.			
39-04E 18	<u>Patch Panel</u>					
	a) Supply and installation of following Patch Panels complete in all respects as per the specifications and drawings and to the approval of the Engineer.					
	i) 24 Port Patch Panel	1	Nos.			
39-04E 19	<u>Telephone / Data Patch Cords</u>					
	a) Supply and connecting of telephone 2 Pair drop cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer.	5	Nos.			

GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	b) Supply and connecting of data CAT 6A patch cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer.					
	i) 1 meter long	24	Nos.			
	ii) 3 meter long	24	Nos.			
39-04E 20	<u>Communication Rack</u> Supply installation of 15U Data racks for the fixing of 12 port rack mounted 19" CAT-6A UTP Patch Panel with cable organizer including all installation accessories as per specification complete in all respect to the approval of engineer.	1	Nos.			
39-04E 21	<u>Telephone Sets</u> Supply and connection of following type of Telephone sets.					
	a) Telephone with CLI Module	2	Nos.			
	b) Telephone without CLI Module	3	Nos.			
CARRIED FORWARD TO SUMMARY						
39-04E 22	<u>PART -7 Fire Alarm System</u> <u>Fire Alarm System</u> a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect.					
	i) Smoke detector with buzzer	8	Nos.			
	ii) Heat detector with buzzer	4	Nos.			
CARRIED FORWARD TO SUMMARY						

GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -8 LIGHTNING PROTECTION SYSTEM					
39-04E 23	<u>Roof Conductor</u> Supply at site and installation of 50sqmm stranded bare copper conductor fixed on parapet walls or on flat surface of roof as shown on drawing or as required as per site conditions, including cost of copper saddles, copper crossing 3"x3" as shown on drawings, brass screws, all necessary fixing material / accessories, complete in all respects.	1415	R.ft.			
39-04E 24	<u>Down Conductor</u> a) Supply at site, installation, connections of 50mm.sq. stranded bare copper conductor in 38mm dia. PVC conduit as down conductors to be installed within the columns from air terminal on roof to building rebars, all other required accessories including cadweld, complete in all respects.	675	R.ft.			
39-04E 25	<u>Air terminal</u> Supply, installation and connecting up of 1 x 16mm DIA SOUND ROUND COPPER 600mm LONG AERIAL ROD as and where shown on drawings, complete with fixing arrangement, cost of all necessary materials / accessories, complete in all respects.	8	Nos.			
39-04E 26	<u>Copper Test Link</u> Supply at site and installation of sectionable copper test link made of 200mm x 200mm uPVC enclosure with necessary holes, all fixing accessories of the copper test link to be installed on the wall of manholes, brass nuts bolts, washers, including cost of all necessary materials, complete in all respects.	8	Nos.			
CARRIED FORWARD TO SUMMARY						

GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -9 Public Address System					
39-04E 27	<u>Amplifier</u> a) Supply, installation & commissioning of following type amplifier with three outputs, three microphone inputs and one music input, complete in all respect, as per approved manufacturer list. i) 30W	2	Nos.			
39-04E 28	<u>Speakers</u> a) Supply, installation & commissioning of 10W wall mounted speaker with all accessories complete in all respects, as per approved manufacturer list.	4	Nos.			
39-04E 29	<u>Microphone</u> Cordless Microphone.	2	Nos.			
39-04E 30	<u>Wiring</u> Wiring with 2 Core, 2.5 sq.mm PVC insulated and PVC sheathed Cable from Amplifier / controller to speaker and speaker to speaker in 20mm dia PVC conduit complete in all respects upto maximum (15 Nos speaker) as shown in riser diagram.	180	R.ft.			
CARRIED FORWARD TO SUMMARY						

GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -10 EXTERNAL AREA LIGHTING					
39-04E31	<u>LIGHT FIXTURES</u> Supply, Installation, testing and commissioning of following light fittings, wall mounted arrangement made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, as per approved manufacturer, fittings shall be duly approved by Architect / Engineer.					
	a) Bulkhead light fixture mounted on wall with 1x18Watt PLC lamp.	12	Nos.			
	b) Britlite or equivalent Bollard Light Fixture in die cast aluminum body powder coated suitable for walkways with 1x18WATT PLC LAMP IP-67.	2	Nos.			
39-04E32	<u>Wiring & Conduiting</u>					
	a) Circuit Wiring and conduiting from DB to first light point with 1 x 4 sq.mm 3 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables for external lighting, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	4	Nos.			
	b) Same as item (h) but wiring from light point to light point.	10	Nos.			
CARRIED FORWARD TO SUMMARY						

GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -11 MISCELLANEOUS WORKS					
39-04E 33	<u>Cable TV System</u> a) Supply, installation, testing and commissioning of RG-6 co-axial cable wiring for Cable TV system from U-link Box to TV outlet complete in all respects, as per the specifications and drawings and approval by the Engineer. b) <u>Outlets</u> Supply, installation testing and commissioning of cable TV outlet along with 16 SWG back box having earth terminals and 2 coats of antirust paint, complete in all respects, as per the specifications and drawings and approval by the Engineer.	90	Rft.			
39-04E 34	<u>Manholes</u> Construction of water tight concrete handhole / cable chamber with Heavy duty RCC cover with lifting hooks and these words "ELECTRICAL CABLES" written with paint on cover. Complete in all respect as per drawing and specification. Sizes of Manhole are as under: i) 1'-6" x 1'-6" x 2'-6" deep	2	Nos.			
39-04E 35	<u>Utility / PTCL Connection</u> a) Supply and co-ordination for the utility connection from Utility as per required electrical load demand. The utility connection charges shall be paid separately as per actual on submission of receipt. b) Supply and co-ordination for the telephone connection from PTCL as per required demand. The telephone connection charges shall be paid separately as per actual on submission of receipt.	4	Nos.			
		1	Job			
		1	Job			
CARRIED FORWARD TO SUMMARY						

GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -12 SOLAR ROOM ELECTRIFICATION WORKS					
39-04E 36	<u>LIGHT FIXTURES</u> Supply, Installation, testing and commissioning of following light fittings, ceiling /wall mounted made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete					
	a. Fluorescent Light TCW098 with 1x36Watt TL-D lamp color 84 & electronic ballast (IP65).	1	Nos.			
	b. Fluorescent Light TMS 015 with 1x36Watt TL-D lamp color 84 & electronic ballast.	3	Nos.			
39-04E 37	<u>Switches & Fan Dimmers</u> Supply and installation of following type gang switches of 10 Amp rating, including 16 SWG sheet steel back box recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respect, as per specifications and drawings and approval					
	i) Three gang - 1 Way Switch	1	Nos.			
39-04E 38	<u>SOCKETS</u> Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and dr					
	i) 13A, 3-pin Duplex Switch Socket outlet.	1	Nos.			
39-04E 39	<u>Fire Alarm System</u> a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect.					
	i) Heat detector with buzzer	1	Nos.			

GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
39-04E 40	<u>Circuit Wiring & Conduiting</u>					
	a) Circuit Wiring and conduiting from DB to switch with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	1	Nos.			
	b) Same as item (a) but wiring from switch to switch with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit.	1	Nos.			
	c) Same as item (b) but wiring from switch to first light point.	3	Nos.			
	d) Same as item (b) but wiring from light point to light point.	1	Nos.			
CARRIED FORWARD TO SUMMARY						
GRAND TOTAL						

GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	PILUMBING WORKS (BUILDING) PLUMBING FIXTURES Supply and Installation of plumbing fixtures & faucets complete in all respects including all accessories, support, hangers, etc. ready to use as per specifications, drawings and instructions of Consultant.					
01-05P1	European style coupled water closet with seat cover, flush tank C.P. (chrome plated) connector, thimble, etc. a. Type - EWC	7	No.			
01-05P2	Asian style water closet Orissa type with flush tank C.P. (chrome plated) connector, uPVC Class "E" flush pipe, thimble, P-Trap, etc.	22	No.			
01-05P3	Urinal wall hung type with automatic 1/2" size flush valve, CP trap, waste, connector and fixing accessories.		No.			
01-05P4	Wash basin (WB) including C.P P- trap/Bottle Trap, stop cocks, etc. i. Type - WB - V(Vanity)	16	No.			
01-05P5	Wash basin hot and cold water mixer, waste, etc for following. i. Type - WB - V(Vanity)		No.			
01-05P6	Toilet Hand Shower with flexible chain & telephone type shower Including tee stop cock etc. complete in all respect. Type - TS	29	No.			
01-05P7	Stainless steel lab. sink including stop cocks, P-trap, Bottle trap, waste pipe etc complete in all respects. SK - 1, 36" x 20" single bowl and single drainer.	4	No.			
01-05P8	Sink hot and cold water mixer, etc, for following. a. For SK-1		No.			
01-05P9	S.S Grease Trap 7.5 Kg. capacity, inlet/outlet 2" Dia connections.		No.			
01-05P10	Toilet accessories complete set, (Imported make) i. Soap dispenser ii. Toilet paper holder iii. Coat Hook iv. Mirror 5mm (Belgium) v. Paper Rack	7 29 7 120 7	No. No. No. Sft No.			
Page Total						

GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>Plumbing Water Supply</u>					
01-05P11	Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for water supply as per DIN 8077-8078 for pipes and DIN 16962,PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.					
	i) ½" internal dia (20 mm outer dia)	50	Rft.			
	ii) ¾" internal dia (32 mm outer dia)	370	Rft.			
	iii) 1" internal dia (40 mm outer dia)	550	Rft.			
	iv) 1¼" internal dia (50 mm outer dia)	155	Rft.			
	v) 1½" internal dia (63 mm outer dia)	230	Rft.			
	vi) 2" internal dia (75 mm outer dia)		Rft.			
	vii) 2½" internal dia (90 mm outer dia)		Rft.			
01-05P12	Providing and installing gate/ball valves, Kitz or approved equivalent make, including jointing ,fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters.					
	i) ¾" internal dia (32 mm outer dia)	2	No			
	ii) 1" internal dia (40 mm outer dia)	6	No			
	iii) 1¼" internal dia (50 mm outer dia)	4	No			
	iv) 1½" internal dia (63 mm outer dia)	2	No			
	v) 2" internal dia (75 mm outer dia)		No			
	vi) 2½" internal dia (90 mm outer dia)		No			
Page Total						

GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>Plumbing Sewerage</u>					
01-05P13	Providing, fixing , cutting, jointing and testing uPVC piping conforming to BS-4514 and BS 5255 including uPVC fittings with solvent cement jointing, rates include cost of clamping to walls and ceiling , hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter:					
	2" dia	105	Rft.			
	3" dia		Rft			
	4" dia	440	Rft.			
	6" dia	110	Rft.			
01-05P14	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.	49	No.			
01-05P15	Construction of rectangular brick masonry manhole of following sizes for sewer complete with plastering from internal and external side, PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, rungs, complete as per drawings.					
01-05P16	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.	13	No.			
01-05P17	Providing and fixing Clean Out complete in all respects	13	No.			
	<u>Water Cooler</u>					
01-05P18	Providing and fixing drinking water cooler of capacity 60 gallons per hour including all accessories and making connections to water supply and drainage systems complete in all respects as per details in specifications	4	No.			
Page Total						

GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
EXTERNAL DEVELOPMENT						
	<u>Septic Tank</u>					
01-05P19	Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with `B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer. 6" i/d (150 mm) 4" dia, pipe seleves in walls 6" dia, pipe seleves in walls	15 5 2	Rft. Nos Nos			
	<u>Soakage Pit</u>					
01-05P20	Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with `B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer. 6" i/d (150 mm)	5	Rft.			
	<u>Ground Water Storage Tank</u>					
01-05P21	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipe (Heavy Quality) of B.S.S. 1387-1967 complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer. i) ¾" dia ii) 1½" dia iii) 2" dia, pipe seleves, 9" long	5 5 2	Rft. Rft. Nos			
	<u>Overhead Water Storage Tank</u>					
01-05P22A	Vent Pipe 4" dia as per drawing and specifications for U.G.W.Tank, O.H.W.Tank complete in all respects, puddle flange, specials as per drawing or directed by the Engineer.	4	Nos			
01-05P22B	Providing, laying, cutting, jointing, testing and disinfecting brass pipe seleaves/ connection pie with puddle including coupler (Heavy Quality) of approved as per B.S.S coads complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer. i) 1¼" dia, pipe seleves, 10" long i) 2½" dia, pipe seleves, 10" long	2 3	Nos Nos			
	<u>Kanchan Arsenic Filter</u>					
	Filter Material.					
01-05P23	Providing & laying gravel, including screening and washing as per drawing or directed by the Engineer. Gravel size 6 mm to 15 mm.	21	Cft			
01-05P24	Providing & laying coarse sand, including screening and washing as per drawing or directed by the Engineer.	42	Cft			
01-05P25	Providing & laying fine sand, including screening and washing as per drawing or directed by the Engineer.	42	Sq.ft.			
01-05P26	Providing & fixing M.S sheet 1/4" thick, 1/8" Dia hole 2 inch c/c (Diffuser Plate), as per drawing or directed by the Engineer.	37	Sq.ft.			

GBELS WARYO GABOL GOTH, GADAP TOWN

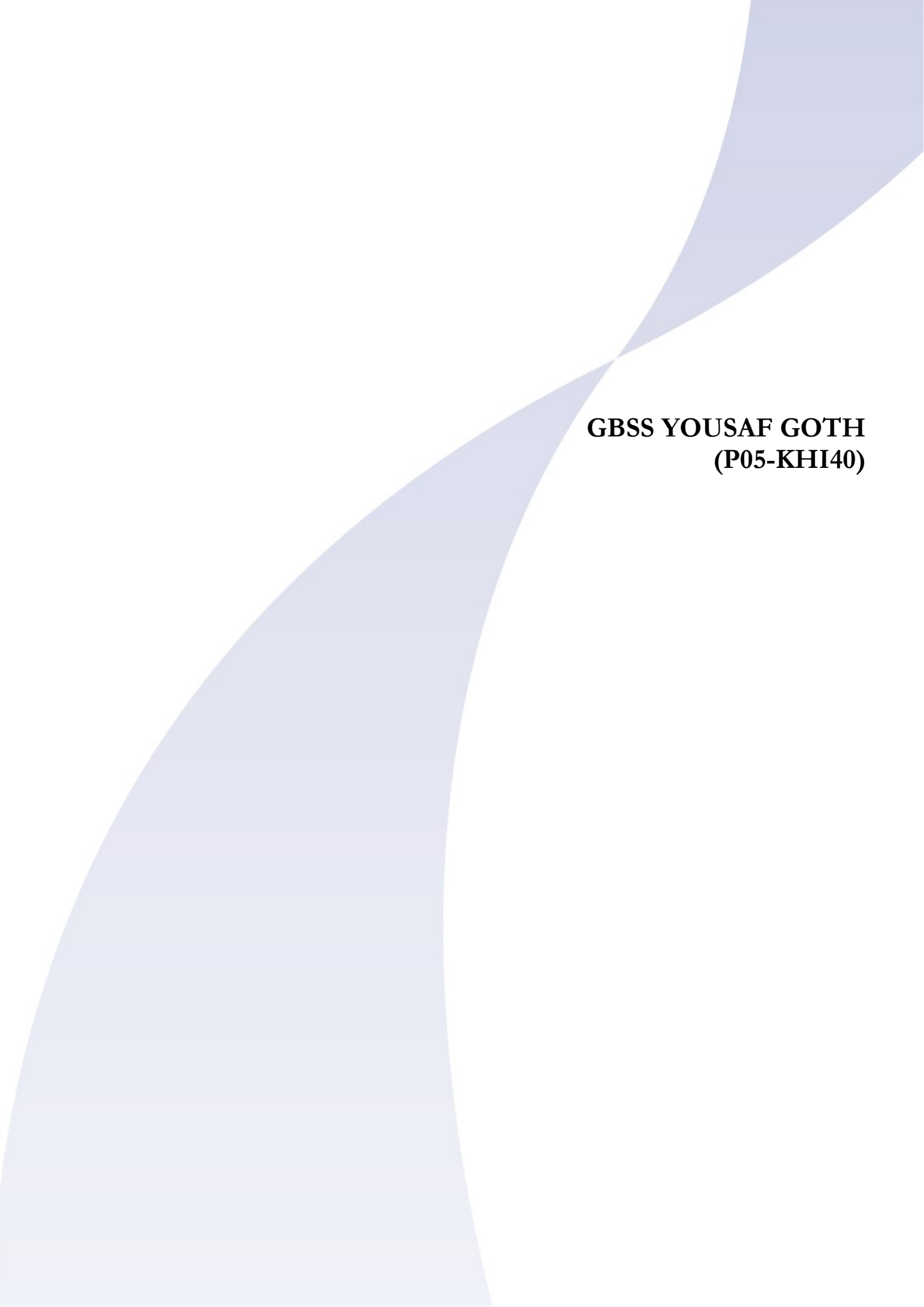
Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P27	Providing & laying Dry rammed brick ballast 1-1/2" to 2" (40mm to 50mm) guage, including screening and washing as per drawing or directed by the Engineer.	9	Cft.			
01-05P28	Providing & laying iron nails with out coating (1" thick layer) as per drawing or directed by the Engineer.	125	Kg.			
01-05P29	Providing & fixing cover over Kanchan Filter of PVC sheet 1/2" thick, as per drawing or directed by the Engineer.	32	Sq.ft.			
01-05P30	Providing, laying, cutting, jointing, testing and disinfecting PPRC pipe including plastic shower heads with all fittings complete in all respects as per drawing or directed by the Engineer. i) 3/4" internal dia (32 mm outer dia)	23	Rft.			
01-05P31	Providing and fixing Plastic Shower Heads	9	Nos			
<u>Tube Well / Penumatic Pump</u>						
01-05P32	Boring for tubewell in all types of soil except shingle and rock, from ground level to 100 ft (30m) Depth, including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. i) 8"i/d (200mm)	100	Rft.			
01-05P33	Boring for tubewell in all types of soil except shingle and rock, from a depth of 100.1 to 200ft (30 to 60 m) below ground level,including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. i) 8"i/d (200mm)	50	Rft.			
01-05P34	Providing and installing P.V.C. bail/End plug B.S.S. class 'D', in tubewell bore hole, complete in all respect and as directed by the Engineer. i)2" i/d (100mm)	1	Each.			
01-05P35	Providing and installing P.V.C. blind pipe B.S.S Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer, etc, complete in all respect and as directed by the Engineer. i) 1" i/d(25mm) ii) 1-1/4" i/d(30mm) iii) 2" i/d(50mm)	150 40	Rft. Rft. Rft.			
01-05P36	Providing and installing P.V.C. strainer B.S.S Class 'D' in tubewell bore hole, including sockets and solvents; etc, complete in all respect and as directed by the Engineer. i)2" i/d(50mm)	40	Rft.			
01-05P36	Providing and installing P.V.C. blind pipe B.S.S Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer,complete in all respect and as directed by the Engineer. i) 4" i/d (100mm)	60	Rft.			

GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P37	Testing and developing of bore hole, complete in all respect and as directed by the Engineer.	3	Per Hr.			
01-05P38	Shrouding with graded pea gravel 3/8" to 1/8" around tubewell in bore hole, complete in all respect and as directed by the Engineer.	45	Cft.			
01-05P39	Providing/fixing Injector valve as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	Each.			
01-05P40	Providing/fixing P.V.C. Cup/Cover as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	No.			
01-05P41	Providing/fixing Pneumatic Pump (having 4 impellers capable to carry a discharge of 400 gals/hr against 90 ft head and 3 HP Motor), complete in all respect and as directed by the Engineer.	1	Set.			
	EXTERNAL PIPING <u>Plumbing Water Supply</u>					
01-05P42	Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for water supply as per DIN 8077-8078 for pipes and DIN 16962,PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.					
	i) ½" internal dia (20 mm outer dia)		Rft.			
	ii) ¾" internal dia (32 mm outer dia)	30	Rft.			
	iii) 1" internal dia (40 mm outer dia)	150	Rft.			
	iv) 1¼" internal dia (50 mm outer dia)	130	Rft.			
	v) 1½" internal dia (63 mm outer dia)	13	Rft.			
	vi) 2" internal dia (75 mm outer dia)		Rft.			
	vii) 2½" internal dia (90 mm outer dia)		Rft.			
01-05P43	Providing and installing gate/ball valves, Kitz or approved equivalent make, including jointing ,fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters.					
	i) ¾" internal dia (32 mm outer dia)	2	No			
	ii) 1" internal dia (40 mm outer dia)	5	No			
	iii) 1¼" internal dia (50 mm outer dia)	4	No			
	iv) 1½" internal dia (63 mm outer dia)	0	No			
	v) 2" internal dia (75 mm outer dia)		No			
	vi) 2½" internal dia (90 mm outer dia)		No			

GBELS WARYO GABOL GOTH, GADAP TOWN

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>Plumbing Sewerage</u>					
01-05P44	Providing, fixing , cutting, jointing and testing uPVC piping conforming to BS-4514 and BS 5255 including uPVC fittings with solvent cement jointing, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter:					
	2" dia		Rft.			
	3" dia		Rft			
	4" dia	32	Rft.			
	6" dia	430	Rft.			
01-05P45	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.		No.			
01-05P46	Construction of rectangular brick masonry manhole of 2'x2' for sewer complete with plastering from internal and external side, PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, rungs, complete as per drawings.		No.			
01-05P47	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.		No.			
01-05P48	Providing and fixing Clean Out complete in all respects		No.			
	<u>Water Supply Pump For GST</u>					
01-05P49	Supply at site, installation, testing and commissioning of water supply reciprocating pump with 2HP motor as per spacification complete in all respect.	2	No			
Page Total						
G- Total c/o to summary						



GBSS YOUSAF GOTH
(P05-KHI40)

SINDH BASIC EDUCATION PROGRAM
CONSTRUCTION OF NEW SCHOOLS AND UPGRADATION OF EXISTING SCHOOLS
Package- 05: Karachi, City
GBSS YOUSUF GOTH, GADAP TOWN
SUMMARY OF TENDERED COST

CODE	DESCRIPTION	AMOUNT IN PAK.RUPEES
	A. GENERAL ITEMS	_____
	B. CIVIL WORKS	_____
	C. EXTERNAL WORKS	_____
	D. ELECTRICAL WORKS	_____
	E. PLUMBING WORKS	_____
	F. DAYWORK COST	_____
	Sub-Total	_____

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
<u>Temporary Facilities (Optional Items)</u>						
01- 01 G 1	Ref.Spec. No. G05 Providing and maintaining a rental building of area 1,500 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, water supply and sanitation complete in all respect as directed by the Engineer.	Rate only	Month			
OR						
01- 01 G 2	Providing and maintaining a tent school of area 1,500 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, water supply and sanitation complete in all respect as directed by the Engineer.	Rate only	Month			
OR						
01- 01 G 3	Providing and maintaining porta cabins for school of area 1,500 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, airconditioning, water supply and sanitation complete in all respect as directed by the Engineer.	Rate only	Month			
OR						
01- 01 G 4	Shifting of furnitures and equipemnts and reinstall etc from existing school to rental building and reinstall as per specification and directed by the engineer.	Rate only	L.S			
01- 01 G 5	Repair & renovation of existing Governmet building proposed for temporary school during the construction. (The payable amount shall be assessed as per actual rehabilitation work on selected building and as per recommendation by the Engineer on BOQ rates of similar items quoted in the bid).	P.S.	P.S.			500,000
Sub- Total (Rs.)						
<u>Site Clearing and Grubbing</u>						
01- 01 G 6	Ref.Spec. No. C01 Clearing and Grubbing complete in all respect as directed by the Engineer.	26,515	Sft			
<u>DISMANTLING WORK</u>						
01- 01 G 7	Ref.Spec. No. G04 Dismantling, removing of existing building structure and foundations including disposal of debris materials to designated places/location as directed by the Engineer. All the dismantled materials shall be contractor's property and rate/price of dismantling work should include compensation of such items obtained by the Contractor from existing building.	8,745	Sft			
01- 01 G 8	Dismantling, removing of existing sewerage lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.			
01- 01 G 9	Dismantling, removing of existing water supply lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.			
01- 01 G 10	Dismantling, removing of existing electrical supply line as directed by the Engineer.	150	Rft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
01- 01 G 11	Dismatling of existing boundry wall as shown in the drawing including disposal of surplus material and as directed by the Engineer. Dismantled material shall be contractor's property.	25	Rft			
01- 01 G 12	Dismatling of existing walkways/plateform/water tank ramp etc and flooring as shown in the drawing/ as per site including disposal of surplus material and as directed by the Engineer. Dismantled material shall be contractor's property.	1,200	Sft			
<u>POWER SUPPLY & TELECOMMUNICATION</u>						
01- 01 G 13	Providing, installing, testing and commissioning of electrical supply line for re-routing as per new plan including cables, all fixtures, connections and all related civil works as directed by the Engineer.	1	Job			
01- 01 G 14	Providing, installing, testing and commissioning of telephone line for re-routing as per new plan including cables, all fixtures, connections and all related civil works as directed by the Engineer.	1	Job			
<u>SIGN BOARD / PLAQUE</u>						
Ref.Spec. No. SP 100						
01- 01 G 15	Providing and installation of Project sign board as per drawing complete including all civil related works, foundations, earthwork concrete, protection works complete as directed by the Engineer.	1	Job			
01- 01 G 16	Providing, construction and installation of Inauguration Plaque as per drawing complete including all civil related works, foundations, earthwork concrete, protection works etc complete as directed by the Engineer.	1	Job			
02- 01 G 17	Providing and maintenance of the Engineer's facilities at individual school site as per clause 44, Section-100 (SP), Volume-III (A), Specifications-Special Provisions. All items/ materials/ equipment shall become contractor's property at the completion of works.	12	Month			
<u>WATER TESTING</u>						
Ref.Spec. No.						
01- 01 G 18	Sampling and testing of Water from bore of well (TDS) including submission of report as per specification.	1	Each			
Total General Items (Rs.)						
Sub- Total C/o to Summary General Items Pak Rs.						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>CONSTRUCTION OF SCHOOL BUILDING</u>					
	<u>SUB-STRUCTURE</u>					
	<u>EARTHWORKS</u>					
	Ref.Spec. No. C02					
01- 02 C 1	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places. a) 0 ft to 5 ft b) More than 5 ft upto 10 ft.	18477 5437	Cft. Cft.			
01- 02 C 2	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material/ source to be approved by the Engineer) upto free haulage limit.	5979 54174	Cft. Cft.			
01- 02 C 2A	Engineered fill layer not exceeding 6" thick with ASSHTO A-1-a type material & soling with compaction should be 98% MDD, (Maximum Dry density) selected materials including watering and compaction to every layer as per specification and drawings. a) Stone soling 12" compacted layer b) Fill layer not exceeding 6" thick with ASSHTO A-1-a type material.	Rate only Rate only	Cft. Cft.			
01- 02 C 2B	Plate load test as per specifications, including in all respect work complete performe and test reports with any number of tests as required by the engineer.	Rate only	L.s			
	<u>DEWATERING</u>					
	Ref.Spec. No. G03					
01- 02 C 3	Designing, providing and installation of complete dewatering system including boring, strainer, filter and other all materials, pumping and disposal of water upto Engineer's satisfaction and to keep the construction surface dry all the time. a) Completion of installation works at site, up 100% running/ working position b) Dewatering, days not allow more then/ maximum payable	1 15	L.S. Day			
	<u>TERMITE CONTROL TREATMENT</u>					
	Ref.Spec. No. C03					
01- 02 C 4	Termite control treatment to surfaces following structures complete in all respect as per specification: (Only plan area will be measured)	8000	Sq.ft.			
	<u>REINFORCEMENT</u>					
	Ref.Spec. No. C04					
01- 02 C 5	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	22	ton.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 6	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate only	ton.			
<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u>						
01- 02 C 7	Ref.Spec. No. C04 Blinding concrete 1250 psi using slag cement conforming to BS-146.	1833	Cft.			
01- 02 C 8	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Isolated foundations b) Columns upto plinth c) Plinth beams d) SOG & Ramps Slabs e) Walls	5038 832 1931 95 35	Cft. Cft. Cft. Cft. Cft.			
<u>SITU CONCRETE 1:3:6</u>						
07- 02 C 9	Ref.Spec. No. C04 Situ concrete 1:3:6, with formwork under the plinth beam thickness as per drawings, using slag cement conforming to BS-146, straight or curve at any level including all anchors required to be built in Rcc columns pedestals, complete in all respect as per drawings and specifications.	703	Cft.			
<u>BRICK MASONRY</u>						
07- 02 C 9 A	Ref.Spec. No. C05 Solid brick masonry under the plinth beam of one and half brick thickness, set in 1:4 using slag cement conforming to BS-146 & sand mortar, straight or curve at any level including all anchors required to be built in brick masonry, complete in all respect as per drawings and specifications.	Rate only	Cft.			
<u>HARDCORE/ STONE SOLING</u>						
01- 02 C 10	Ref.Spec. No. C07 6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	8,966	Sq.ft.			
<u>P.C.C UNDER FLOORING</u>						
01- 02 C 11	Ref.Spec. No. C07 PCC 4" thick plain cement concrete (using slag cement conforming to BS-146) sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	7,001	Sq.ft.			
<u>PLINTH PROTECTION</u>						
01- 02 C 12	Ref.Spec. No. C04 & C07 Blinding concrete 1250 psi using slag cement conforming to BS-146	654	Cft.			
<u>PROTECTION WORKS</u>						
01- 02 C 13	Ref.Spec. No. C16 Vapor barrier sheet, under the floor as per drawings and specifications.	5,504	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 14	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	13,502	Sq.ft.			
<p><u>SUPER-STRUCTURE WORKS</u> <u>Ground Floor (From Plinth level to 1st Slab)</u> <u>REINFORCEMENT</u> Ref.Spec. No. C04</p>						
01- 02 C 15	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	27	ton.			
01- 02 C 16	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate Only	ton.			
<p><u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u> Ref.Spec. No. C04</p>						
01- 02 C 17	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification;					
	a) Columns	1,179	Cft.			
	b) Beams & lintels	1,858	Cft.			
	c) Slab & projections	4,405	Cft.			
	d) Stair cases	373	Cft.			
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts.	157	Cft.			
	f) Parapet wall for stair cases	83	Cft.			
<p><u>First Floor (From 1st Slab to 2nd slab)</u> <u>REINFORCEMENT</u> Ref.Spec. No. C04</p>						
01- 02 C 18	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	28	ton.			
01- 02 C 19	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate Only	ton.			
<p><u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u> Ref.Spec. No. C04</p>						
01- 02 C 20	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification;					
	a) Columns	1,275	Cft.			
	b) Beams & lintels	1,775	Cft.			
	c) Slab & projections	4,431	Cft.			
	d) Stair cases	175	Cft.			
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts.	139	Cft.			
	f) Parapet wall for stair cases	32	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>Second Floor / Roof (From 2nd slab to 3rd slab & tower)</u>					
	<u>REINFORCEMENT</u>					
	Ref.Spec. No. C04					
01- 02 C 21	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	4	ton.			
01- 02 C 22	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate only	ton.			
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u>					
	Ref.Spec. No. C04					
01- 02 C 23	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures components complete in all respect as per drawings and specification;					
	a) Columns	133	Cft.			
	b) Beams & lintels	169	Cft.			
	c) Slab & projections	358	Cft.			
	d) Parapet Wall/ Purdi	501	Cft.			
	e) Precast coping for parapet wall at roof and erecting/ fixing including shuttering and all accessories and/or embedded parts.	685	Rft.			
	g) Over head water tank, column, walls & slab	300	Cft.			
	f) Others Misc Str	20	Cft.			
	<u>FINISHING WORKS</u>					
	<u>For Ground floor</u>					
	<u>BLOCK MASONRY</u>					
	Ref.Spec. No.C18					
01- 02 C 24	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 4" thick	1,179	Cft.			
	b) 6" thick	248	Cft.			
	c) 8" thick	5,565	Cft.			
	d) 4" thick, external cavity; wall with all accessories arrangements for stone tile facing or Color Crete finishig including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	1,296	Cft.			
	<u>BRICK MASONRY</u>					
	Ref.Spec. No. C05					
01- 02 C 24 A	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.					
	a) 4-1/2" thick	Rate only	Cft.			
	b) 9" thick	Rate only	Cft.			
	c)13-1/2" thick	Rate only	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 25	<u>DOORS FRAMES</u> Ref.Spec. No. C09 & C11 G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	561	R.ft.			
01- 02 C 26	<u>CEMENT PLASTER</u> Ref.Spec. No. C06 3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	325	Sq.ft.			
01- 02 C 28	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	6,688	Sq.ft.			
01- 02 C 29	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	17,540	Sq.ft.			
01- 02 C 30	<u>ALUMINIUM WORKS</u> Ref.Spec. No. C11 Supply and fix in position as specified anodized aluminum openable windows and ventilators of 2"x4" section, approved manufacturer having minimum wall thickness not less than 1.6 mm with netted shutter and 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	1,313	Sq.ft.			
01- 02 C 31	Supply and fix in position as specified anodized aluminum doors with fixed panel both side and top of approved 2"x4" section, manufacturer having minimum wall thickness not less than 1.6 mm with 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	116	Sq.ft.			
01- 02 C 32	<u>STRUCTURAL STEEL</u> Ref. Sec.No. C13 Mild steel grills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings and specification.	1,615	Kg			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 33	Providing and fixing railing for stairs/ramps as per drawing and specifications complete in all respect. a) MS railing stairs b) M.S railing at entrance	54 70	Rft Rft			
01- 02 C 34	Providing and fixing MS pipe railing for courtyard with paintings, as per drawing and specifications complete in all respect and approved by the Engineer.	50	Rft			
01- 02 C 35	Providing and fixing MS folding gate (Emergency Exit) with paintings, complete in all respects as per drawing and specifications.	1	No			
01- 02 C 35 A	Providing and fixing MS folding Main entrance gate with paintings, complete in all respects as per drawing and specifications.	1	No			
<u>FLOOR AND WALL FINISHES</u>						
Ref.Spec. No. C07						
01- 02 C 36	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	6,329	Sq.ft.			
01- 02 C 37	Providing and laying terrazzo tile for entrance ramp (3/4" thick) with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	100	Sq.ft.			
01- 02 C 38	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	409	Sq.ft.			
01- 02 C 39	Porcelain tile floor (type) using tile of size 8"x8" (full body), approved quality, colour and shade laid in approved pattern set in specified mortar including cement concrete base, complete in all respect as shown on the drawings and specifications.	729	Sq.ft.			
01- 02 C 40	Porcelain tile in Dado using tile of size 8"x8", quality, colour and shade laid in approved pattern including rough plaster base complete in all respect as shown on drawings and specifications.	3,336	Sq.ft.			
<u>MARBLE WORKS</u>						
Ref.Spec. No. C07 & C08						
01- 02 C 41	Pre-polished marble on entrance steps, stairs, ramp & floor etc using approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings. a) Entrance Steps & Platform (3/4" thick) b) Entrance Steps Risers (1/2" thick)	325 60	Sq.ft. Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 42	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	382	Sq.ft.			
01- 02 C 43	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	106	Sq.ft.			
01- 02 C 44	Pre-polished marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish including complete in all respect as shown on the drawings.	53	Sq.ft.			
01- 02 C 45	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	40	Sq.ft.			
	<u>PAINTING</u>					
	Ref.Spec. No. C10					
01- 02 C 46	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	6,688	Sq.ft.			
01- 02 C 47	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	17,540	Sq.ft.			
01- 02 C 48	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	325	Sq.ft.			
	<u>WOODEN DOORS</u>					
	Ref.Spec. No. C09					
01- 02 C 49	Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partal wood frame and infill, polish, color/ lacker, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	530	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 50	Fixed 6mm plain laminated glass panel part at above door panel with solid wood batten including teak polish/ lacker at both sides arround the glass of approved type, quality complete in all respect as shown on the drawings and specifications.	110	Sq.ft.			
	<u>FALSE CEILING</u> Ref.Spec. No. C14					
01- 02 C 51	1/2" thick gypsum board ceiling including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on the drawings and specifications.	729	Sq.ft.			
	<u>Pre cast C.C Patren jali</u> Ref.Spec. No.C18, C5					
01- 02 C 52	C.C Patren jali as per approved designed and specification	600	Sq.ft.			
	<u>CLADDING/ EXTERNAL FACING</u> Ref.Spec. No.C19 & C20					
01- 02 C 53	Providing and laying stone clading/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	3,893	Sq.ft.			
01- 02 C 53 A	Providing and laying Color-Crete with 3/4" Cement sand plaster on extrenal facing as per approverd sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	4,498				
01- 02 C 53 B	Ref.Spec. No. C05 Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>FINISHING WORKS</u>					
	<u>For First floor</u>					
	<u>BLOCK MASONRY</u>					
	Ref.Spec. No.C18					
01- 02 C 54	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 4" thick	458	Cft.			
	b) 6" thick	320	Cft.			
	c) 8" thick	4,291	Cft.			
	d) 4" thick, external cavity; wall with all accessories arrangements for stone tile facing or Color Crete finishing including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	1,702	Cft.			
	<u>BRICK MASONRY</u>					
	Ref.Spec. No. C05					
01- 02 C 54 A	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.					
	a) 4-1/2" thick	Rate only	Cft.			
	b) 9" thick	Rate only	Cft.			
	c) 13-1/2" thick	Rate only	Cft.			
	<u>DOORS FRAMES</u>					
	Ref.Spec. No. C09 & C11					
01- 02 C 55	G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	516	R.ft.			
	<u>CEMENT PLASTER</u>					
	Ref.Spec. No. C 06					
01- 02 C 56	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers including complete in all respect as shown on the drawings.	175	Sq.ft.			
01- 02 C 57	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	6,573	Sq.ft.			
01- 02 C 57 A	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	13,678	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>ALUMINIUM WORKS</u>					
01- 02 C 58	Ref.Spec. No. C 11 Supply and fix in position as specified anodized aluminum openable windows and ventilators of 2"x4" section, approved manufacturer having minimum wall thickness not less than 1.6 mm with netted shutter and 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	1,377	Sq.ft.			
	<u>STRUCTURAL STEEL</u>					
	Ref. Sec.No. C 13					
01- 02 C 59	Mild steel grills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings.	1,721	Kg			
01- 02 C 60	Providing and fixing MS stair railing as per drawing and specifications complete in all respect.	30	Rft			
01- 02 C 61	Providing and fixing MS pipe railing for courtyard with paintings, as per drawing and specifications complete in all respect and approved by the engineers.	Rate Only	Rft			
	<u>FLOOR AND WALL FINISHES</u>					
	Ref.Spec. No. C 07, 08					
01- 02 C 62	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	6,945	Sq.ft.			
01- 02 C 63	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	318	Sq.ft.			
01- 02 C 64	Porcelain tile floor (type) using tile of size 8"x8" (full body), approved quality, colour and shade laid in approved pattern set in specified mortar including cement concrete base, complete in all respect as shown on the drawings.	500	Sq.ft.			
01- 02 C 65	Porcelain tile in Dado using tile of size 8"x8", quality, colour and shade laid in approved pattern including rough plaster base complete in all respect.	2,126	Sq.ft.			
	<u>MARBLE WORKS</u>					
	Ref.Spec. No. C 07, 08					
01- 02 C 66	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	176	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 67	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	50	Sq.ft.			
01- 02 C 68	Pre-polished marble tile for counter tops & other area 3/4" thick using of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including complete in all respect as shown on the drawings.	50	Sq.ft.			
01- 02 C 69	Pre-polished Marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	34	Sq.ft.			
01- 02 C 70	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	52	Sq.ft.			
	<u>PAINTING</u>					
	Ref.Spec. No. C 10					
01- 02 C 71	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	6,573	Sq.ft.			
01- 02 C 72	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	13,678	Sq.ft.			
	<u>WOODEN DOORS</u>					
	Ref.Spec. No. C 09, 12					
01- 02 C 73	Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partial wood frame and infill, polish, color/ lacker, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	560	Sq.ft.			
01- 02 C 74	Fixed 6mm plain laminated glass panel part at above door panel with solid wood batten including teak polish/ lacker at both sides arround the glass of approved type, quality complete in all respect as shown on the drawings and specifications.	124	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 75	<u>FALSE CEILING</u> Ref.Spec. No.C14 12mm thick gypsum board ceiling including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on the drawings and specifications.	500	Sq.ft.			
01- 02 C 76	<u>Pre cast C.C Patren jali</u> Ref.Spec. No.C18, C5 C.C Patren jali as per approved designed and specification	680	Sq.ft.			
01- 02 C 77	<u>STONE CLADDING/ COLOR-CRETE/ EXTERNAL FACING</u> Ref.Spec. No. C19 & C20 Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	5,111	Sq.ft.			
01- 02 C 77 A	Providing and laying Color-Crete with 3/4" Cement sand plaster on extrenal facing as per approved sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	4,848	Sq.ft.			
01- 02 C 77 B	Ref.Spec. No. C05 Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq.ft.			
01- 02 C 78	<u>WATER PROOFING AND BUILTUP ROOFING</u> Ref.Spec. No.C 16 Water proofing and built up roofing over roof slab comprising all the layers and coatings etc as shown in the drawings and specifications.	7,500	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>FINISHING WORKS</u> <u>For Roof floor / Secound floor</u> <u>BLOCK MASONRY</u> Ref.Spec. No. C18					
01- 02 C 79	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 4" thick	30	Cft.			
	b) 6" thick	50	Cft.			
	c) 8" thick	500	Cft.			
	d) 4" thick, external cavity; wall with all accessories arrangements for stone tile facing or Color Crete finishig including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	789	Cft.			
	<u>BRICK MASONRY</u> Ref.Spec. No. C05					
01- 02 C 79A	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.					
	a) 4-1/2" thick	Rate only	Cft.			
	b) 9" thick	Rate only	Cft.			
	c) 13-1/2" thick	Rate only	Cft.			
	<u>DOORS FRAMES</u> Ref.Spec. No. C09 & C11					
01- 02 C 80	G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	35	R.ft.			
	<u>CEMENT PLASTER</u> Ref.Spec. No. C 06					
01- 02 C 81	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection, parapet or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and as per elevation complete in all respect as shown on the drawings.	2,504	Sq.ft.			
01- 02 C 82	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	388	Sq.ft.			
01- 02 C 83	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	902	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 84	3/4" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls to O.H.W Tank etc with making of chamfer corner in plaster as per drawings and specifications.	360	Sq.ft.			
01- 02 C 85	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating.	230	Sq.ft.			
01- 02 C 86	Water proofing coating treatment to all horizontal surfaces in contact with water shall be treated with 1 coat of crystalline water proofing coating.	130	Sq.ft.			
01- 02 C 86	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, including fixing of frame and embedded parts in concrete and painting, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 02 C 86 A	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer. (For O.H.W tank)	4	No.			
<u>FLOOR AND WALL FINISHES</u>						
Ref.Spec. No. C 07, 08						
01- 02 C 87	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	180	Sq.ft.			
01- 02 C 88	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	16	Sq.ft.			
<u>MARBLE WORKS</u>						
Ref.Spec. No. C 07, 08						
01- 02 C 89	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	6	Sq.ft.			
<u>PAINTING</u>						
Ref.Spec. No. C 10						
01- 02 C 90	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	388	Sq.ft.			
01- 02 C 91	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	902	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 92	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc.complete in all respect as directed by the Engineer.	2,504	Sq.ft.			
	<u>WOODEN DOORS</u> Ref.Spec. No. C 09, C12					
01- 02 C 93	Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partal wood frame and infill, polish, color/ lacker, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	49	Sq.ft.			
	<u>Pre cast C.C Patren jali and Railing</u> Ref.Spec. No.C18, C5 & C21					
01- 02 C 94	C.C Patren jali as per approved designed and specification	100	Sq.ft.			
01- 02 C 95	Precast water spout as per approved designed and specification	15	No.			
	<u>CLADDING/ EXTERNAL FACING</u> Ref.Spec. No. C19 & C20					
01- 02 C 96	Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	2,368	Sq.ft.			
	Providing and laying Color-Crete with 3/4" Cement sand plaster on extrenal facing as per approverd sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	530	Sq.ft.			
01- 02 C 98	Ref.Spec. No. C05 Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq.ft.			
Total C/o to Summary for CIVIL WORKS Pak Rs.						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>EXTERNAL DEVELOPEMENT</u>					
	<u>CONSTRUCTION OF BOUNDARY WALL</u>					
	Ref.Spec. No. C02					
	<u>EARTHWORKS</u>					
	Ref.Spec. No.					
01- 03 D 1	Excavation in all kinds of sub-surface materials, timbering upto following depths including disposal of surplus / rejected excavated materials to designated places.					
	a) 0 ft to 5 ft	2,347	Cft.			
01- 03 D 2	Fill and backfill with selected materials including watering and compaction to every layer as per specification.					
	a) From suitable excavated material (from stockpile of excavated materials)	1,174	Cft.			
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	8,772	Cft.			
01- 03 D3	Area Fill with selected materials from outside source including watering and compaction to every layer as per specification for Play ground.					
		5,000	Cft.			
	<u>DEWATERING</u>					
	Ref.Spec. No. G03					
01- 03 D4	Designing, providing and installation of complete dewatering system including boring, strainer, filter and other all materials, pumping and disposal of water upto Engineer's satisfaction and to keep the construction surface dry all the time.					
	a) Completion of installation works at site, up 100% running/ working position	Rate only	L.S.			
	b) Dewatering	Rate only	Day			
	<u>TERMITE CONTROL TREATMENT</u>					
	Ref.Spec. No. C03					
01- 03 D5	Termite control treatment to surfaces following structures complete in all respect as per specification: (Only plan area will be measured)					
		1,864	Sq.ft.			
	<u>REINFORCEMENT</u>					
	Ref.Spec. No. C04					
01- 03 D6	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.					
		4.94	ton.			
	<u>PLAIN AND REINFORCED CONCRETE</u>					
	Ref.Spec. No. C04					
01- 03 D7	Blinding concrete 1250 psi using slag cement conforming to BS-146.					
		391	Cft.			
01- 03 D7A	Situ concrete 1:3:6, with formwork under the plinth beam thickness as per drawings, using slag cement conforming to BS-146, straight or curve at any level including all anchors required to be built in Rcc columns pedestals, complete in all respect as per drawings and specifications.					
		338	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D8	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Footings b) Columns upto plinth c) Plinth beams	665 145 405	Cft. Cft. Cft.			
01- 03 D9	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification; a) Columns <u>BLOCK MASONRY</u> Ref.Spec. No. C18	301	Cft.			
01- 03 D10	Cement concrete solid block masonry, Envicrete or approved equalant masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 8" thick / 4" thick <u>BRICK MASONRY</u> Ref.Spec. No. C05	1,890	Cft.			
01- 03 D10 A	Solid brick masonry wall 9" thick with using slag cement conforming to BS-146 set in 1:4 cement sand mortar, straight or curve below plinth beam, planters including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per Drawings and Specifications. a) 9" thick	Rate only	Cft.			
01- 03 D10 B	Solid brick masonry wall with pointing on both faces above plinth beam 9" thick set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties, and other fixtures required to be built in brick masonry, complete in all respect as per Drawings and specifications. a) 4 1/2" thick <u>CEMENT PLASTER</u> Ref.Spec. No. C06	Rate only	Cft.			
01- 03 D11	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces (Columns, wall, beams and project etc.) including making grooves as per design and elevation complete in all respect as shown on the drawings. <u>PROTECTION WORKS</u> Ref.Spec. No. C16	2,221	Sq.ft.			
01- 03 D12	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	2,838	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D13	<p><u>COPING</u> Ref.Spec. No. C04 Providing and fixing 3" thick coping including plaster using OP cement for boundary wall complete as shown on the drawings.</p>	363	Rft.			
01- 03 D14	<p><u>STRUCTURAL STEEL</u> Ref. Sec.No. C13 Mild steel main gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 14'x7')</p>	1	no			
01- 03 D15	<p>Mild steel wicket gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 3'x7')</p>	1	no			
01- 03 D 15A	<p><u>CLADDING/ EXTERNAL FACING</u> Ref.Spec. No. C19 & C20 Providing and laying stone cladding/ stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.</p>	6171	Sq.ft.			
01- 03 D 16	<p><u>LANDSCAPING</u> Ref. Sec.No. C17 Fill and backfill with selected materials including watering and compaction to every layer as per specification.</p>	586	Cft.			
01- 03 D17	<p>Area fill with selected materials including watering and compaction to every layer as per specification.</p>	9,000	Cft.			
01- 03 D18	<p>Relocation and replanting of removed trees as per specifications and and as directed by the Engineer.</p>	32	No.			
01- 03 D19	<p>Development of lawn (grass) including fertilizer mixed with earth including spreading and watering etc. and cutting etc. till guarantee period (12 months) complete in all respect as shown on the drawings and as per specifications.</p>	5,500	Sq.ft.			
01- 03 D20	<p>12" thick approved selected sweet earth including spreading, levelling, dressing and watering etc. complete in all respect as per specifications and as directed by the Engineer.</p>	5,500	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D21	Trees/ plants of the following types and size/ height including excavation, backfilling, manure/ fertilizer, supports and water etc. complete in all respect as shown on the drawings, specifications and as directed by the Engineer. a) Neem tree (3 to 4 feet) b) Babul tree (3 to 4 feet) c) Golmohar (3 to 4 feet) d) Champa (2 to 3 feet) e) Crape Jasmine (2 to 3 feet) f) Cement Concrete planters.	12 5 10 22 22 170	No. No. No. No. No. Rft			
	<u>Foothpath Walkway (Precast Paving Blocks / Tiles)</u> Ref. Sec.No.C21					
01- 03 D22	4" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	4,600	Sq.ft.			
01- 03 D23	Precast cement concrete paving blocks envicrete or approved equivalent of size 8" x 4" x 2.5" laid in approved pattern including 2" thick sand cushion,	4,600	Sq.ft.			
01- 03 D24	PCC concrete kerb envicrete or approved equivalent including lean, hauching concrete etc complete as per drawing and specifications with earth cutting/ filling, levelling, dressing etc complete in all respect as per specifications and as directed by the Engineer.	1,000	Rft			
01- 03 D24A	Plain cement concrete panel flooring including 1/2" Groove @ 8"c/c, joints etc complete as shown in the drawings.	315	Sq.ft.			
	<u>EXTERNAL SEWER & MANHOLES</u>					
01- 03 D25	Construction of manholes with material including, excavation, base top RCC slab, GI steps, CC benching water proof internal plaster, external bitumen coating etc inlet/out connections etc. i. 24" x 24" SIZE ii. 36" x 36" SIZE	8 2	Nos. Nos.			
01- 03 D26	Supply and fix water tight (Square Type) Malleable Iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	10	No.			
	<u>Septic Tank</u>					
01- 03 D27	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft.	830 430	Cft. Cft.			
01- 03 D28	Blinding concrete 1250 psi using slag cement conforming to BS-146	55	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D29	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of Crystalline water proofing coating.	490	Sq.ft.			
01- 03 D30	Water proofing coating treatment to all surfaces in contact with water shall be treated with 1 coat of Crystalline water proofing coating on horizontal surface.	140	Sq.ft.			
01- 03 D31	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) Base Slab. b) Walls including chamfer etc. c) Top Slab	111 345 70	Cft. Cft. Cft.			
01- 03 D32	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	1.5	Ton			
01- 03 D32	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	90	Sq.ft.			
01- 03 D33	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	630	Sq.ft.			
01- 03 D34	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings complete in all respect as shown on the drawings and specifications.	430	Sq.ft.			
01- 03 D35	Providing embedding 10" wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	51	Rft.			
01- 03 D36	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 03 D37	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No.			
01- 03 D38	<u>Soakage Pit</u> Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft. c) More than 10 ft upto full depth.	900 900 1,800	Cft. Cft. Cft.			
01- 03 D39	Blinding concrete 2000 psi using slag cement conforming to BS-146	25	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D40	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 20" thick b) 16" thick b) 12" thick	680 550 210	Cft Cft Cft			
01- 03 D41	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. Pre-cast R.C.C Slab	90	Cft			
01- 03 D42	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.35	Ton			
01- 03 D43	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	1	No			
01- 03 D44	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	24	No			
	<u>Ground Storage Tank</u>					
01- 03 D45	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft.	725 12	Cft. Cft.			
01- 03 D46	Blinding concrete 1250 psi using slag cement conforming to BS-146	48	Cft.			
01- 03 D47	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) Base Slab. b) Walls including chamfer etc. c) Top slabs d) Precast Slab	100 255 60 10	Cft. Cft. Cft. Cft.			
01- 03 D48	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	1	Ton			
01- 03 D49	Providing embedding 10" (250 mm) wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	55	Rft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D50	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 12" thick	75	Cft.			
01- 03 D51	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 03 D52	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	10	No.			
01- 03 D53	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	530	Sq.ft.			
01- 03 D54	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	116	Sq.ft.			
01- 03 D55	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	435	Sq.ft.			
01- 03 D56	2" thick, 3000psi (cly) cement concrete floor and screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	185	Sq.ft.			
01- 03 D57	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc.complete in all respect as per specifications.	90	Sq.ft.			
01- 03 D58	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	12	Sq.ft.			
01- 03 D59	Providing and applying three or more coats of matt emultion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	40	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D60	MS Door including paint etc complete in all respect as shown in the drawings.	15	Sq.ft.			
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 2 coats of crystalline water proofing coating on vertical surfaces	577	Sq.ft.			
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 1 coat of crystalline water proofing coating on horizontal surfaces.	83	Sq.ft.			
<u>Tube Well / Penumatic Pump</u>						
<u>Construction works</u>						
01- 03 D62	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft	150	Cft.			
01- 02 C 63	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials)	20	Cft.			
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	40	Cft.			
01- 03 D64	Blinding concrete 1250 psi using slag cement conforming to BS-146	60	Cft.			
01- 03 D65	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification; Pre-cast R.C.C Slab including Beam	35	Cft.			
01- 03 D66	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.10	Ton			
01- 03 D67	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 20" thick, for foundation b) 16" thick, for foundation c) 12" thick, for foundation d) 12" thick, for above G.L e) 4" thick, for parapet wall	50 40 45 180 10	Cft Cft Cft Cft Cft			
01- 03 D68	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	285	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D69	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	25	Sq.ft.			
01- 03 D70	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	150	Sq.ft.			
01- 03 D71	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	25	Sq.ft.			
01- 03 D72	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	25	Sq.ft.			
01- 03 D73	Plain cement concrete 2" thick floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	25	Sq.ft.			
01- 03 D74	Plain cement concrete 2" thick screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	33	Sq.ft.			
01- 03 D75	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc.complete in all respect as per specifications.	285	Sq.ft.			
01- 03 D76	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	25	Sq.ft.			
01- 03 D77	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	150	Sq.ft.			
01- 03 D78	Vapor barrier sheet, under foundations and floor as per drawings and specifications.	25	Sq.ft.			
01- 03 D79	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	250	Sq.ft.			

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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>Kanchan Arsenic filter</u>					
01- 03 D80	Excavation and backfilling in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places. a) 0 ft to 5 ft	75	Cft.			
01- 03 D81	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material / scorce to be approved by the Engineer) upto free haulage limit.	50 100	Cft. Cft.			
01- 03 D82	Blinding concrete 1250 psi using slag cement conforming to BS-146	15	Cft.			
01- 03 D83	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) footing b) Columns up bottom first slab c) Slabs & projection e) Walls including chamfer etc.	25 20 35 80	Cft. Cft. Cft. Cft.			
01- 03 D84	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.5	Ton			
01- 03 D85	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	84	Sq.ft.			
01- 03 D86	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	84	Sq.ft.			
01- 03 D87	2" thick, 3000 cement concrete floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	84	Sq.ft.			
01- 03 D88	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	152	Sq.ft.			
01- 03 D89	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	126	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D90	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating.	126	Sq.ft.			
01- 03 D91	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	218	Sq.ft.			
	<u>Holding Tank</u>					
01- 03 D92	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft.	755 540	Cft. Cft.			
01- 03 D93	Blinding concrete 1250 psi using slag cement conforming to BS-146	50	Cft.			
01- 03 D94	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of Crystalline water proofing coating.	466	Sq.ft.			
01- 03 D95	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) Base Slab. b) Walls including chamfer etc. c) Top Slab	107 335 89	Cft. Cft. Cft.			
01- 03 D96	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	1.150	Ton			
01- 03 D97	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	102	Sq.ft.			
01- 03 D98	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	349	Sq.ft.			
01- 03 D99	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings complete in all respect as shown on the drawings and specifications.	466	Sq.ft.			
01- 03 D100	Providing embedding 10" wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	44	Rft.			
01- 03 D101	Supply and fix water tight (Round Type, 24") Pre-cast heavy duty cover with M.S frame work, including liftring handle, making good, complete in all respect as per specification and as directed by the Engineer.	2	No.			

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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D102	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No.			
	<u>Soakage Trench</u>					
01- 03 D103	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft.	5,125 -	Cft. Cft.			
01- 03 D104	Blinding concrete 1250 psi using slag cement conforming to BS-146	151	Cft.			
01- 03 D105	Solid brick masonry wall from 13-1/2" to 31-1/2" thicknesses set in 1:4 cement sand mortar.	520	Cft			
01- 03 D106	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. Pre-cast R.C.C Slab including beam	250	Cft			
01- 03 D107	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.57	Ton			
01- 03 D108	Supply and fix water tight (Round Type, 24") Pre-cast heavey duty cover with M.S frame work, including liftring handle, making good, complete in all respect as per specification and as directed by the Engineer.	6	No.			
01- 03 D109	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	18	No			
01- 03 D110	Supply and fill 1/2" to 2" size gravel in trench complete in all respects, as per drawing and directed by the Engineer.	150	Cft			
	<u>Plain cement concrete panel flooring:</u>					
01- 03 D111	Plain cement concrete panel flooring including sub flooring and base preparation, joints etc complete as shown in the drawings.	2,300	Sq.ft.			
Sub- Total C/o to Summary for External Development work Pak Rs.						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
32-04E 1	<p>PART -1 <u>Distribution Board</u> <u>Distribution Board</u></p> <p>Fabrication, Supply, installation, Testing and commissioning at site of following Distribution board, made of MS Sheet 16 SWG with hinged door, handle, catcher, earthing bar, neutral strip, internal wiring from MCBs terminating on cable terminal blocks, 2 coats of antirust and powder coated paint of approved colour, including cost of all necessary materials complete in all respects, DBs shall be manufactured as per specification, single line diagram complete in all respect up to the satisfaction of Engineer.</p>					
	i) MDBLP-GF	1	No.			
	ii) DBLP-GF1	1	No.			
	iii) DBLP-GF2	1	No.			
	vi) DBLP-FF1	1	No.			
	v) DBLP-FF2	1	No.			
	vi) MCC-WP	1	No.			
	vii) DB-EXT (IP 54)	1	No.			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-2: <u>CABLES AND CONDUITS</u>					
40-04E 2	<u>L.V. Power Cables</u> Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 600 / 1000 Volt grade manufactured by any one of the manufacturers as mentioned in approved manufacturer list in pre-laid conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the employers electrical engineer before placing the order with the manufacturer.					
	a) 4 Core Cu/PVC/PVC CABLE					
	i. 4 core 10mm.sq.	545	R.ft			
	ii. 4 core 16mm.sq.	330	R.ft			
	iii. 4 core 35mm.sq.	100	R.ft			
	b) Circuit Protective Conductor (CPC)					
	i. 1 core 10mm sq. PVC insulated colour Green/Yellow.	545	R.ft			
	ii. 1 core 16mm sq. PVC insulated colour Green/Yellow.	430	R.ft			
40-04E 3	<u>P.V.C. Conduit and Accessories</u> Supply at site of PVC conduit to be installed on slabs, walls, floor, columns or as required as per site conditions including cost of all PVC conduit accessories, steel pull wires, complete in all respects.					
	a) 32mm (1.25") dia. PVC conduit to pull electric cable.	415	R.ft			
	b) 38mm (1.5") dia. PVC conduit to pull electric cable.	360	R.ft			
	c) 50mm (2") dia. PVC conduit to pull electric cable.	135	R.ft			
	d) 75mm (3") dia. PVC conduit to pull electric cable.	200	R.ft			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-3 <u>Wiring & Conduiting</u>					
40-04E 4	<u>Circuit Wiring & Conduiting</u>					
	a) Circuit Wiring and conduiting from DB to switch / Fan dimmer with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	24	Nos.			
	b) Same as item (a) but wiring from switch to switch with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit.	49	Nos.			
	c) Wiring from switch/dimmer to first light/fan point with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm dia PVC conduit, complete with cables and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	143	Nos.			
	d) Wiring and conduiting of light point to point with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	73	Nos.			
	e) Circuit Wiring and conduiting from DB to power socket outlet with 2 x 4 sq.mm 1 core Cu/PVC insulated cable + CPC 4 sq.mm 1 core Cu/PVC insulated cable in 20 mm dia PVC conduit complete with cables, conduits and all necessary accessories such as sheet steel back box with earth connecting point bends, junction boxes, sockets etc., as per the specifications and drawings and approval by the Engineer.	21	Nos.			
	f) Same as item (e) but wiring between adjacent socket outlets with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC.	17	Nos.			

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
g)	Same as (e) but wiring from socket outlet to socket outlet with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC.	33	Nos.			
h)	Wiring and conduiting from DB to water pump/LBS with 2 x 6 sq.mm 1 core Cu/PVC insulated cable + CPC 6 sq.mm 1 core Cu/PVC insulated cable in 25 mm dia PVC conduit complete with cables, conduits and all necessary accessories such as bends, junction boxes, sockets etc., as per the specifications and drawings and approval by the Engineer.	4	Nos.			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-4: <u>LIGHT FIXTURES, FANS, SWITCHES, OUTLETS & ACCESSORIES</u>					
40-04E 5	<u>LIGHT FIXTURES</u> Supply, Installation, testing and commissioning of following light fittings, ceiling /wall mounted / with hanging arrangement made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, as per approved manufacturer, fittings shall be duly approved by Engineer.					
	a. Fluorescent Light TMS 015 with 1x36Watt TL-D lamp color 84 & electronic ballast.	43	Nos.			
	b. Fluorescent Light TMS 015 with 1x18Watt TL-D lamp color 84 & electronic ballast.	6	Nos.			
	c. LED Light TCS398 2x16Watt TL-Master LED lamp with M2 Louver .	22	Nos.			
	d. LED Light TCS398 2x16Watt TL-Master LED lamp with M2 Louver.(with hanging arrangement)	70	Nos.			
	e. Fluorescent Light TBS 318 with 1x36Watt TL-D lamp color 84 & electronic ballast.	16	Nos.			
40-04E 6	<u>Ceiling Fans</u> Supply, installation and commissioning of 4-blades ceiling fans of following sizes, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respects, fittings shall be duly approved by Engineer.					
	a. 56" dia.	7	Nos.			
	b. 48" dia.	49	Nos.			
	c. 36" dia.	1	Nos.			

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
40-04E 7	<p><u>Switches & Fan Dimmers</u></p> <p>Supply and installation of following type gang switches of 10 Amp rating, including 16 SWG sheet steel back box recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respect, as per specifications and drawings and approval by the Engineer.</p> <p>i) One gang - 1 Way Switch ii) Two gang - 1 Way Switch iii) Three gang - 1 Way Switch iv) Four gang - 1 Way Switch v) One gang - Fan Dimmer vi) Two gang - Fan Dimmer vii) One gang - 2 Way Switch</p>	7 21 9 2 7 25 2	Nos. Nos. Nos. Nos. Nos. Nos. Nos.			
40-04E 8	<p>SOCKETS</p> <p>Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and drawings, as per approved manufacturer list and approval by the Engineer.</p> <p>i) 10A, 2-pin universal Switch Socket outlet. ii) 13A, 3-pin Simplex Switch Socket outlet. iii) 13A, 3-pin Duplex Switch Socket outlet. iv) 15A, 3-pin Round Switch Socket outlet. v) Floor Box - Type B</p>	25 32 10 6 16	Nos. Nos. Nos. Nos. Nos.			
40-04E 9	<p>LOAD BREAK SWITCHES</p> <p>Supply, installation, testing & commissioning of following size Load Break switch with MS back box including all accessories complete in all respects, as per specifications and drawings and approval by the Engineer.</p> <p>i) 30 Amp SPN LBS</p>	1	Nos.			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-5: <u>EARTHING SYSTEM</u>					
40-04E 10	<u>Earth Electrode</u> Supply at site and installation of Copper earth electrodes, 10 feet long and 17mm dia including cost of all necessary materials, complete in all respects, as per specification.	11	Nos.			
40-04E 11	<u>Copper Conductor</u>					
	a) Supply, installation and connecting up of 1 x 16sqmm 1-Core Cu/PVC cable, directly buried in ground from ECP in pit to earth electrode, includes excavation, backfilling of earth, cad-welding of copper conductor to earth electrode rod at one end and provision/ fixing of cable lugs at other end, including all accessories as per the Specifications and Drawings and to the entire satisfaction and approval of the Engineer.	10	R.ft			
	b) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable in 38mm dia PVC conduit, directly buried in ground, from Pit to ECP / MCC, as per drawing or as per the instructions of the engineer. including cost of excavation, backfilling of earth, brass nuts, bolts, washers, all necessary accessories, complete in all respects.	30	R.ft			
	c) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from ECP to U-link box and from U-Link box to data patch panel, as per drawing or as per the instructions of the engineer. including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	85	R.ft			
	d) Supply, installation and connections of bare copper conductor 50 mm sq. in 38mm dia PVC conduit, from building rebars / earth electrode to earth connecting point, as per drawing or as per the instructions of the engineer. including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	15	R.ft			

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	e) Supply, installation and connections of copper conductor 1x50 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from earth connecting point to distribution board, as per drawing or as per the instructions of the engineer. including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	15	R.ft			
40-04E 12	<u>Earth Connecting Points (ECP)</u> Supply of earth connecting points consisting of copper plate 300mm long x 50mm wide x 6mm thick to be installed as and where shown on drawings, complete with fixing arrangement, brass nuts bolts, washers, lugs, 1/2" dia. holes to facilitate connections of Incoming copper strips / copper conductors and outgoing CPC.	2	Nos.			
40-04E 13	<u>ECP (in inspection Chamber)</u> Supply of earth connecting points in Earth pit / inspection chamber consisting of copper plate 200mm long x 50mm wide x 6mm thick with necessary holes, all fixing accessories of the copper plates on the wall of main holes, brass nuts bolts, washers, including cost of all necessary materials, complete in all respects.	2	Nos.			
40-04E 14	<u>Earth pit / Inspection Chamber</u> Construction of Earth pit/ inspection chamber 375mm x 375mm x 450mm deep with 150mm thick wall and 330mm x 330mm heavy duty R.C.C Cover, complete in all respects, as per specification.	2	Nos.			
40-04E 15	<u>Testing</u> Testing of the earthing system with "Earth Tester" along with other testing accessories. Testing shall be performed in the presence of the Engineer and written test result duly verified by the Engineer shall be submitted to the Client for his record.	1	Job			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-6: <u>TELEPHONE / VOICE SYSTEM</u>					
40-04E 16	<u>Telephone / Data Network</u>					
	a) Wiring for each telephone point from Utility box to telephone point with Cat 6 UTP in 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects, as per drawing and specification.	230	R.ft			
	b) Wiring for each data point from Utility box with Cat 6A UTP, to data point, including cost of 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects as per drawing and specification.	1200	R.ft			
	c) Wiring from Utility box with Four pair Cat 6A UTP, to data patch panel, including cost of 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects as per drawing and specification.	140	R.ft			
	d) Supply, Installation of following telephone / data Outlet plate including RJ-45 IOs and 16 SWG sheet steel back box recessed in wall or wall surface, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.					
	i) Simplex Outlet RJ 45	23	Nos.			
	ii) Duplex Outlet RJ 45	3	Nos.			
40-04E 17	<u>U Link Box</u>					
	Supply, Installation, testing and commissioning of Utility box, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.	1	Nos.			
40-04E 18	<u>Patch Panel</u>					
	a) Supply and installation of following Patch Panels complete in all respects as per the specifications and drawings and to the approval of the Engineer.					
	i) 24 Port Patch Panel	1	Nos.			

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
40-04E 19	<u>Telephone / Data Patch Cords</u>					
	a) Supply and connecting of telephone 2 Pair drop cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer.	5	Nos.			
	b) Supply and connecting of data CAT 6A patch cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer.					
	i) 1 meter long	24	Nos.			
	ii) 3 meter long	24	Nos.			
40-04E 20	<u>Communication Rack</u>					
	Supply installation of 15U Data racks for the fixing of 12 port rack mounted 19" CAT-6A UTP Patch Panel with cable organizer including all installation accessories as per specification complete in all respect to the approval of engineer.	1	Nos.			
40-04E 21	<u>Telephone Sets</u>					
	Supply and connection of following type of Telephone sets.					
	a) Telephone with CLI Module	2	Nos.			
	b) Telephone without CLI Module	3	Nos.			
CARRIED FORWARD TO SUMMARY						
40-04E 22	<u>PART -7 Fire Alarm System</u>					
	<u>Fire Alarm System</u>					
	a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect.					
	i) Smoke detector with buzzer	8	Nos.			
	ii) Heat detector with buzzer	4	Nos.			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	<u>PART -8 LIGHTNING PROTECTION SYSTEM</u>					
40-04E 23	<u>Roof Conductor</u> Supply at site and installation of 50sqmm stranded bare copper conductor fixed on parapet walls or on flat surface of roof as shown on drawing or as required as per site conditions, including cost of copper saddles, copper crossing 3"x3" as shown on drawings, brass screws, all necessary fixing material / accessories, complete in all respects.	970	R.ft.			
40-04E 24	<u>Down Conductor</u> a) Supply at site, installation, connections of 50mm.sq. stranded bare copper conductor in 38mm dia. PVC conduit as down conductors to be installed within the columns from air terminal on roof to building rebars, all other required accessories including cadweld, complete in all respects.	675	R.ft.			
40-04E 25	<u>Air terminal</u> Supply, installation and connecting up of 1 x 16mm DIA SOUND ROUND COPPER 600mm LONG AERIAL ROD as and where shown on drawings, complete with fixing arrangement, cost of all necessary materials / accessories, complete in all respects.	6	Nos.			
40-04E 26	<u>Copper Test Link</u> Supply at site and installation of sectionable copper test link made of 200mm x 200mm uPVC enclosure with necessary holes, all fixing accessories of the copper test link to be installed on the wall of manholes, brass nuts bolts, washers, including cost of all necessary materials, complete in all respects.	8	Nos.			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -9 <u>Public Address System</u>					
40-04E 27	<u>Amplifier</u> a) Supply, installation & commissioning of following type amplifier with three outputs, three microphone inputs and one music input, complete in all respect, as per approved manufacturer list. i) 30W	3	Nos.			
40-04E 28	<u>Speakers</u> a) Supply, installation & commissioning of 10W wall mounted speaker with all accessories complete in all respects, as per approved manufacturer list.	4	Nos.			
40-04E 29	<u>Microphone</u> Cordless Microphone.	2	Nos.			
40-04E 30	<u>Wiring</u> Wiring with 2 Core, 2.5 sq.mm PVC insulated and PVC sheathed Cable from Amplifier / controller to speaker and speaker to speaker in 20mm dia PVC conduit complete in all respects upto maximum (15 Nos speaker) as shown in riser diagram.	180	R.ft.			
CARRIED FORWARD TO SUMMARY						

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -10 EXTERNAL AREA LIGHTING					
40-04E31	<u>LIGHT FIXTURES</u> Supply, Installation, testing and commissioning of following light fittings, wall mounted arrangement made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, as per approved manufacturer, fittings shall be duly approved by Architect / Engineer.					
	a) Bulkhead light fixture mounted on wall with 1x18Watt PLC lamp.	12	Nos.			
	b) Britlite or equivalent Bollard Light Fixture in die cast aluminum body powder coated suitable for walkways with 1x18WATT PLC LAMP IP-67.	3	Nos.			
40-04E32	<u>Wiring & Conduiting</u> a) Circuit Wiring and conduiting from DB to first light point with 1 x 4 sq.mm 3 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables for external lighting, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	5	Nos.			
	b) Same as item (h) but wiring from light point to light point.	10	Nos.			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -11 MISCELLANEOUS WORKS					
40-04E 33	<u>Cable TV System</u>					
	a) Supply, installation, testing and commissioning of RG-6 co-axial cable wiring for Cable TV system from U-link Box to TV outlet complete in all respects, as per the specifications and drawings and approval by the Engineer.	90	Rft.			
	b) <u>Outlets</u> Supply, installation testing and commissioning of cable TV outlet along with 16 SWG back box having earth terminals and 2 coats of antirust paint, complete in all respects, as per the specifications and drawings and approval by the Engineer.	2	Nos.			
40-04E 34	<u>Manholes</u>					
	Construction of water tight concrete handhole / cable chamber with Heavy duty RCC cover with lifting hooks and these words "ELECTRICAL CABLES" written with paint on cover. Complete in all respect as per drawing and specification. Sizes of Manhole are as under:					
	i) 1'-6" x 1'-6" x 2'-6" deep	4	Nos.			
40-04E 35	<u>Utility / PTCL Connection</u>					
	a) Supply and co-ordination for the utility connection from Utility as per required electrical load demand. The utility connection charges shall be paid separately as per actual on submission of receipt.	1	Job			
	b) Supply and co-ordination for the telephone connection from PTCL as per required demand. The telephone connection charges shall be paid separately as per actual on submission of receipt.	1	Job			
CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -12 SOLAR ROOM ELECTRIFICATION WORKS					
40-04E 36	<u>LIGHT FIXTURES</u> Supply, Installation, testing and commissioning of following light fittings, ceiling /wall mounted made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete					
	a. Fluorescent Light TCW098 with 1x36Watt TL-D lamp color 84 & electronic ballast (IP65).	2	Nos.			
	b. Fluorescent Light TMS 015 with 1x36Watt TL-D lamp color 84 & electronic ballast.	3	Nos.			
40-04E 37	<u>Switches & Fan Dimmers</u> Supply and installation of following type gang switches of 10 Amp rating, including 16 SWG sheet steel back box recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respect, as per specifications and drawings and approval					
	i) Four gang - 1 Way Switch	1	Nos.			
40-04E 38	<u>SOCKETS</u> Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and drawings					
	i) 13A, 3-pin Duplex Switch Socket outlet.	1	Nos.			
40-04E 39	<u>Fire Alarm System</u> a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect.					
	i) Heat detector with buzzer	1	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
40-04E 40	<u>Circuit Wiring & Conduiting</u>					
	a) Circuit Wiring and conduiting from DB to switch with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	1	Nos.			
	b) Same as item (a) but wiring from switch to switch with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit.	1	Nos.			
	c) Same as item (b) but wiring from switch to first light point.	4	Nos.			
	d) Same as item (b) but wiring from light point to light point.	1	Nos.			
CARRIED FORWARD TO SUMMARY						
GRAND TOTAL						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	PILUMBING WORKS (BUILDING) PLUMBING FIXTURES Supply and Installation of plumbing fixtures & faucets complete in all respects including all accessories, support, hangers, etc. ready to use as per specifications, drawings and instructions of Consultant.					
01-05P1	European style coupled water closet with seat cover, flush tank C.P. (chrome plated) connector, thimble, etc. a. Type - EWC	5	No.			
01-05P2	Asian style water closet Orissa type with flush tank C.P. (chrome plated) connector, uPVC Class "E" flush pipe, thimble, P-Trap, etc.	8	No.			
01-05P3	Urinal wall hung type with automatic 1/2" size flush valve, CP trap, waste, connector and fixing accessories.		No.			
01-05P4	Wash basin (WB) including C.P P- trap/Bottle Trap, stop cocks, etc. i. Type - WB - V(Vanity)	11	No.			
01-05P5	Wash basin hot and cold water mixer, waste, etc for following. i. Type - WB - V(Vanity)		No.			
01-05P6	Toilet Hand Shower with flexible chain & telephone type shower Including tee stop cock etc. complete in all respect. Type - TS	13	No.			
01-05P7	Stainless steel lab. sink including stop cocks, P-trap, Bottle trap, waste pipe etc complete in all respects. SK - 1, 36" x 20" single bowl and single drainer.	2	No.			
01-05P8	Sink hot and cold water mixer, etc, for following. a. For SK-1		No.			
01-05P9	S.S Grease Trap 7.5 Kg. capacity, inlet/outlet 2" Dia connections.		No.			
01-05P10	Toilet accessories complete set, (Imported make) i. Soap dispenser ii. Toilet paper holder iii. Coat Hook iv. Mirror 5mm (Belgium) v. Paper Rack	6 13 6 120 6	No. No. No. Sft No.			
Page Total						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>Plumbing Water Supply</u>					
01-05P11	Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for water supply as per DIN 8077-8078 for pipes and DIN 16962,PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.					
	i) ½" internal dia (20 mm outer dia)	50	Rft.			
	ii) ¾" internal dia (32 mm outer dia)	350	Rft.			
	iii) 1" internal dia (40 mm outer dia)	520	Rft.			
	iv) 1¼" internal dia (50 mm outer dia)	135	Rft.			
	v) 1½" internal dia (63 mm outer dia)	205	Rft.			
	vi) 2" internal dia (75 mm outer dia)		Rft.			
	vii) 2½" internal dia (90 mm outer dia)		Rft.			
01-05P12	Providing and installing gate/ball valves, Kitz or approved equivalent make, including jointing ,fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters.					
	i) ¾" internal dia (32 mm outer dia)	2	No			
	ii) 1" internal dia (40 mm outer dia)	4	No			
	iii) 1¼" internal dia (50 mm outer dia)	3	No			
	iv) 1½" internal dia (63 mm outer dia)	2	No			
	v) 2" internal dia (75 mm outer dia)		No			
	vi) 2½" internal dia (90 mm outer dia)		No			
Page Total						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>Plumbing Sewerage</u>					
01-05P13	Providing, fixing , cutting, jointing and testing uPVC piping conforming to BS-4514 and BS 5255 including uPVC fittings with solvent cement jointing, rates include cost of clamping to walls and ceiling , hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter:					
	2" dia	105	Rft.			
	3" dia		Rft			
	4" dia	440	Rft.			
	6" dia	110	Rft.			
01-05P14	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.	49	No.			
01-05P15	Construction of rectangular brick masonry manhole of following sizes for sewer complete with plastering from internal and external side, PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, rungs, complete as per drawings.					
01-05P16	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.	4	No.			
01-05P17	Providing and fixing Clean Out complete in all respects	8	No.			
	<u>Water Cooler</u>					
01-05P18	Providing and fixing drinking water cooler of capacity 60 gallons per hour including all accessories and making connections to water supply and drainage systems complete in all respects as per details in specifications	4	No.			
Page Total						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
EXTERNAL DEVELOPMENT						
	<u>Septic Tank</u>					
01-05P19	Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with `B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer. 6" i/d (150 mm) 4" dia, pipe seleves in walls 6" dia, pipe seleves in walls	15 5 2	Rft. Nos Nos			
	<u>Soakage Pit</u>					
01-05P20	Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with `B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer. 6" i/d (150 mm)	5	Rft.			
	<u>Ground Water Storage Tank</u>					
01-05P21	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipe (Heavy Quality) of B.S.S. 1387-1967 complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer. i) ¾" dia ii) 1½" dia iii) 2" dia, pipe seleves, 9" long	5 5 2	Rft. Rft. Nos			
	<u>Overhead Water Storage Tank</u>					
01-05P22A	Vent Pipe 4" dia as per drawing and specifications for U.G.W.Tank, O.H.W.Tank complete in all respects, puddle flange, specials as per drawing or directed by the Engineer.	4	Nos			
01-05P22B	Providing, laying, cutting, jointing, testing and disinfecting brass pipe seleaves/ connection pie with puddle including coupler (Heavy Quality) of approved as per B.S.S coads complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer. i) 1¼" dia, pipe seleves, 10" long i) 2½" dia, pipe seleves, 10" long	2 3	Nos Nos			
	<u>Kanchan Arsenic Filter</u>					
	Filter Material.					
01-05P23	Providing & laying gravel, including screening and washing as per drawing or directed by the Engineer. Gravel size 6 mm to 15 mm.	21	Cft			
01-05P24	Providing & laying coarse sand, including screening and washing as per drawing or directed by the Engineer.	42	Cft			
01-05P25	Providing & laying fine sand, including screening and washing as per drawing or directed by the Engineer.	42	Sq.ft.			
01-05P26	Providing & fixing M.S sheet 1/4" thick, 1/8" Dia hole 2 inch c/c (Diffuser Plate), as per drawing or directed by the Engineer.	37	Sq.ft.			

BILL OF QUANTITIES

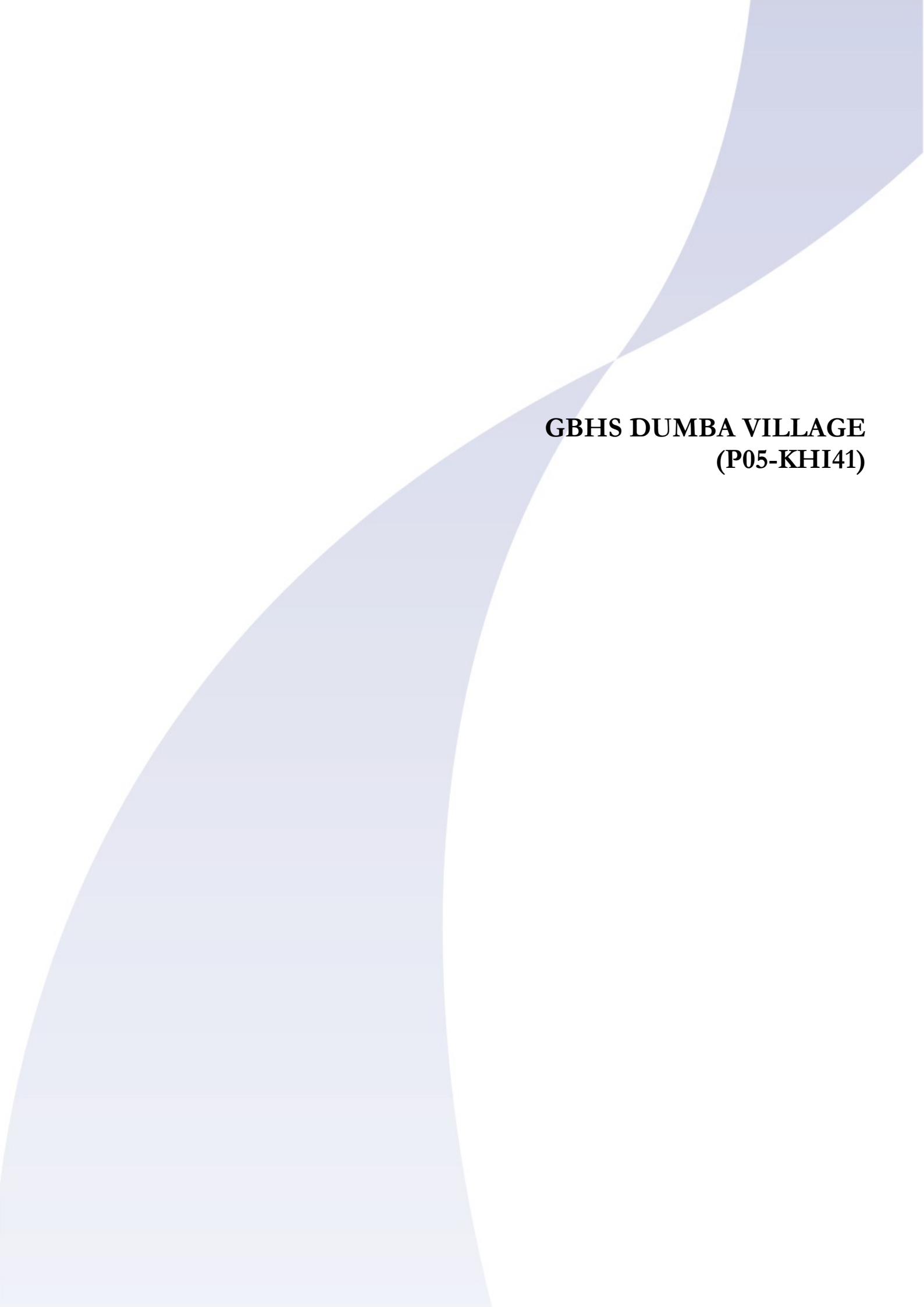
Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P27	Providing & laying Dry rammed brick ballast 1-1/2" to 2" (40mm to 50mm) guage, including screening and washing as per drawing or directed by the Engineer.	9	Cft.			
01-05P28	Providing & laying iron nails with out coating (1" thick layer) as per drawing or directed by the Engineer.	125	Kg.			
01-05P29	Providing & fixing cover over Kanchan Filter of PVC sheet 1/2" thick, as per drawing or directed by the Engineer.	32	Sq.ft.			
01-05P30	Providing, laying, cutting, jointing, testing and disinfecting PPRC pipe including plastic shower heads with all fittings complete in all respects as per drawing or directed by the Engineer. i) 3/4" internal dia (32 mm outer dia)	23	Rft.			
01-05P31	Providing and fixing Plastic Shower Heads	9	Nos			
<u>Tube Well / Penumatic Pump</u>						
01-05P32	Boring for tubewell in all types of soil except shingle and rock, from ground level to 100 ft (30m) Depth, including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. i) 8"i/d (200mm)	100	Rft.			
01-05P33	Boring for tubewell in all types of soil except shingle and rock, from a depth of 100.1 to 200ft (30 to 60 m) below ground level,including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. i) 8"i/d (200mm)	50	Rft.			
01-05P34	Providing and installing P.V.C. bail/End plug B.S.S. class 'D', in tubewell bore hole, complete in all respect and as directed by the Engineer. i)2" i/d (100mm)	1	Each.			
01-05P35	Providing and installing P.V.C. blind pipe B.S.S Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer, etc, complete in all respect and as directed by the Engineer. i) 1" i/d(25mm) ii) 1-1/4" i/d(30mm) iii) 2" i/d(50mm)	150 40	Rft. Rft. Rft.			
01-05P36	Providing and installing P.V.C. strainer B.S.S Class 'D' in tubewell bore hole, including sockets and solvents; etc, complete in all respect and as directed by the Engineer. i)2" i/d(50mm)	40	Rft.			
01-05P36	Providing and installing P.V.C. blind pipe B.S.S Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer,complete in all respect and as directed by the Engineer. i) 4" i/d (100mm)	60	Rft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P37	Testing and developing of bore hole, complete in all respect and as directed by the Engineer.	3	Per Hr.			
01-05P38	Shrouding with graded pea gravel 3/8" to 1/8" around tubewell in bore hole, complete in all respect and as directed by the Engineer.	45	Cft.			
01-05P39	Providing/fixing Injector valve as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	Each.			
01-05P40	Providing/fixing P.V.C. Cup/Cover as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	No.			
01-05P41	Providing/fixing Pneumatic Pump (having 4 impellers capable to carry a discharge of 400 gals/hr against 90 ft head and 3 HP Motor), complete in all respect and as directed by the Engineer.	1	Set.			
	EXTERNAL PIPING <u>Plumbing Water Supply</u>					
01-05P42	Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for water supply as per DIN 8077-8078 for pipes and DIN 16962,PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.					
	i) ½" internal dia (20 mm outer dia)		Rft.			
	ii) ¾" internal dia (32 mm outer dia)	30	Rft.			
	iii) 1" internal dia (40 mm outer dia)	150	Rft.			
	iv) 1¼" internal dia (50 mm outer dia)	130	Rft.			
	v) 1½" internal dia (63 mm outer dia)	13	Rft.			
	vi) 2" internal dia (75 mm outer dia)		Rft.			
	vii) 2½" internal dia (90 mm outer dia)		Rft.			
01-05P43	Providing and installing gate/ball valves, Kitz or approved equivalent make, including jointing ,fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters.					
	i) ¾" internal dia (32 mm outer dia)	2	No			
	ii) 1" internal dia (40 mm outer dia)	4	No			
	iii) 1¼" internal dia (50 mm outer dia)	3	No			
	iv) 1½" internal dia (63 mm outer dia)	0	No			
	v) 2" internal dia (75 mm outer dia)		No			
	vi) 2½" internal dia (90 mm outer dia)		No			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>Plumbing Sewerage</u>					
01-05P44	Providing, fixing , cutting, jointing and testing uPVC piping conforming to BS-4514 and BS 5255 including uPVC fittings with solvent cement jointing, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter:					
	2" dia		Rft.			
	3" dia		Rft			
	4" dia	32	Rft.			
	6" dia	430	Rft.			
01-05P45	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.		No.			
01-05P46	Construction of rectangular brick masonry manhole of 2'x2' for sewer complete with plastering from internal and external side, PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, rungs, complete as per drawings.		No.			
01-05P47	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.		No.			
01-05P48	Providing and fixing Clean Out complete in all respects		No.			
	<u>Water Supply Pump For GST</u>					
01-05P49	Supply at site, installation, testing and commissioning of water supply reciprocating pump with 2HP motor as per spacification complete in all respect.	2	No			
Page Total						
G-Total C/o to Summary						



**GBHS DUMBA VILLAGE
(P05-KHI41)**

SINDH BASIC EDUCATION PROGRAM
CONSTRUCTION OF NEW SCHOOLS AND UPGRADATION OF EXISTING SCHOOLS
Package- 05: Karachi, City
GBHS DUMBA VILLAGE, GADAP TOWN
SUMMARY OF TENDERED COST

CODE	DESCRIPTION	AMOUNT IN PAK.RUPEES
A.	GENERAL ITEMS	_____
B.	CIVIL WORKS	_____
C.	EXTERNAL WORKS	_____
D.	ELECTRICAL WORKS	_____
E.	PLUMBING WORKS	_____
F.	DAYWORK COST	_____
Sub-Total		

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
<u>Temporary Facilities (Optional Items)</u>						
01- 01 G 1	Ref.Spec. No. G05 Providing and maintaining a rental building of area 1,500 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, water supply and sanitation complete in all respect as directed by the Engineer.	Rate only	Month			
OR						
01- 01 G 2	Providing and maintaining a tent school of area 1,500 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, water supply and sanitation complete in all respect as directed by the Engineer.	Rate only	Month			
OR						
01- 01 G 3	Providing and maintaining porta cabins for school of area 1,500 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, airconditioning, water supply and sanitation complete in all respect as directed by the Engineer.	Rate only	Month			
OR						
01- 01 G 4	Shifting of furnitures and equipemnts and reinstall etc from existing school to rental building and reinstall as per specification and directed by the engineer.	Rate only	L.S			
01- 01 G 5	Repair & renovation of existing Governmet building proposed for temporary school during the construction. (The payable amount shall be assessed as per actual rehabilitation work on selected building and as per recommendation by the Engineer on BOQ rates of similar items quoted in the bid).	P.S.	P.S.			500,000
Sub- Total (Rs.)						
<u>Site Clearing and Grubbing</u>						
01- 01 G 6	Ref.Spec. No. C01 Clearing and Grubbing complete in all respect as directed by the Engineer.	30,463	Sft			
<u>DISMANTLING WORK</u>						
01- 01 G 7	Ref.Spec. No. G04 Dismantling, removing of existing building structure and foundations including disposal of debris materials to designated places/location as directed by the Engineer. All the dismantled materials shall be contractor's property and rate/price of dismantling work should include compensation of such items obtained by the Contractor from existing building.	4,892	Sft			
01- 01 G 8	Dismantling, removing of existing sewerage lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.			
01- 01 G 9	Dismantling, removing of existing water supply lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.			
01- 01 G 10	Dismantling, removing of existing electrical supply line as directed by the Engineer.	150	Rft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
01- 01 G 11	Dismatling of existing boundry wall as shown in the drawing including disposal of surplus material and as directed by the Engineer. Dismantled material shall be contractor's property.	100	Rft			
01- 01 G 12	Dismatling of existing walkways/plateform/water tank ramp etc and flooring as shown in the drawing/ as per site including disposal of surplus material and as directed by the Engineer. Dismantled material shall be contractor's property.	645	Sft			
<u>POWER SUPPLY & TELECOMMUNICATION</u>						
01- 01 G 13	Providing, installing, testing and commissioning of electrical supply line for re-routing as per new plan including cables, all fixtures, connections and all related civil works as directed by the Engineer.	1	Job			
01- 01 G 14	Providing, installing, testing and commissioning of telephone line for re-routing as per new plan including cables, all fixtures, connections and all related civil works as directed by the Engineer.	1	Job			
<u>SIGN BOARD / PLAQUE</u>						
Ref.Spec. No. SP 100						
01- 01 G 15	Providing and installation of Project sign board as per drawing complete including all civil related works, foundations, earthwork concrete, protection works complete as directed by the Engineer.	1	Job			
01- 01 G 16	Providing, construction and installation of Inauguration Plaque as per drawing complete including all civil related works, foundations, earthwork concrete, protection works etc complete as directed by the Engineer.	1	Job			
02- 01 G 17	Providing and maintenance of the Engineer's facilities at individual school site as per clause 44, Section-100 (SP), Volume-III (A), Specifications-Special Provisions. All items/ materials/ equipment shall become contractor's property at the completion of works.	12	Month			
<u>WATER TESTING</u>						
Ref.Spec. No.						
01- 01 G 18	Sampling and testing of Water from bore of well (TDS) including submission of report as per specification.	1	Each			
Total General Items (Rs.)						
Sub- Total C/o to Summary General Items Pak Rs.						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
<u>CONSTRUCTION OF SCHOOL BUILDING</u>						
<u>SUB-STRUCTURE</u>						
<u>EARTHWORKS</u>						
Ref.Spec. No. C02						
01- 02 C 1	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places. a) 0 ft to 5 ft b) More than 5 ft upto 10 ft.	12438 1000	Cft. Cft.			
01- 02 C 2	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material/ source to be approved by the Engineer) upto free haulage limit.	6219 33887	Cft. Cft.			
01- 02 C 2A	Engineered fill layer not exceeding 6" thick with ASSHTO A-1-a type material & soling with compaction should be 98% MDD, (Maximum Dry density) selected materials including watering and compaction to every layer as per specification and drawings. a) Stone soling 12" compacted layer b) Fill layer not exceeding 6" thick with ASSHTO A-1-a type material.	Rate only Rate only	Cft. Cft.			
01- 02 C 2B	Plate load test as per specifications, including in all respect work complete performe and test reports with any number of tests as required by the engineer.	Rate only	L.s			
<u>DEWATERING</u>						
Ref.Spec. No. G03						
01- 02 C 3	Designing, providing and installation of complete dewatering system including boring, strainer, filter and other all materials, pumping and disposal of water upto Engineer's satisfaction and to keep the construction surface dry all the time. a) Completion of installation works at site, up 100% running/ working position b) Dewatering, days not allow more then/ maximum payable	Rate Only Rate Only	L.S. Day			
<u>TERMITE CONTROL TREATMENT</u>						
Ref.Spec. No. C03						
01- 02 C 4	Termite control treatment to surfaces following structures complete in all respect as per specification: (Only plan area will be measured)	7500	Sq.ft.			
<u>REINFORCEMENT</u>						
Ref.Spec. No. C04						
01- 02 C 5	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	22	ton.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 6	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate only	ton.			
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u>					
	Ref.Spec. No. C04					
01- 02 C 7	Blinding concrete 1250 psi using slag cement conforming to BS-146.	1833	Cft.			
01- 02 C 8	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in:					
	a) Isolated foundations	5038	Cft.			
	b) Columns upto plinth	399	Cft.			
	c) Plinth beams	1931	Cft.			
	d) SOG & Ramps Slabs	95	Cft.			
	e) Walls	35	Cft.			
	<u>SITU CONCRETE 1:3:6</u>					
	Ref.Spec. No. C04					
07- 02 C 9	Situ concrete 1:3:6, with formwork under the plinth beam thickness as per drawings, using slag cement conforming to BS-146, straight or curve at any level including all anchors required to be built in Rcc columns pedestals, complete in all respect as per drawings and specifications.	391	Cft.			
	<u>BRICK MASONRY</u>					
	Ref.Spec. No. C05					
07- 02 C 9 A	Solid brick masonry under the plinth beam of one and half brick thickness, set in 1:4 using slag cement conforming to BS-146 & sand mortar, straight or curve at any level including all anchors required to be built in brick masonry, complete in all respect as per drawings and specifications.	Rate only	Cft.			
	<u>HARDCORE/ STONE SOLING</u>					
	Ref.Spec. No. C07					
01- 02 C 10	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	8,966	Sq.ft.			
	<u>P.C.C UNDER FLOORING</u>					
	Ref.Spec. No. C07					
01- 02 C 11	PCC 4" thick plain cement concrete (using slag cement conforming to BS-146) sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	7,001	Sq.ft.			
	<u>PLINTH PROTECTION</u>					
	Ref.Spec. No. C04 & C07					
01- 02 C 12	Blinding concrete 1250 psi using slag cement conforming to BS-146	654	Cft.			
	<u>PROTECTION WORKS</u>					
	Ref.Spec. No. C16					
01- 02 C 13	Vapor barrier sheet, under the floor as per drawings and specifications.	5,504	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 14	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	12,233	Sq.ft.			
<p><u>SUPER-STRUCTURE WORKS</u> <u>Ground Floor (From Plinth level to 1st Slab)</u> <u>REINFORCEMENT</u> Ref.Spec. No. C04</p>						
01- 02 C 15	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	27	ton.			
01- 02 C 16	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate Only	ton.			
<p><u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u> Ref.Spec. No. C04</p>						
01- 02 C 17	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification;					
	a) Columns	1,179	Cft.			
	b) Beams & lintels	1,858	Cft.			
	c) Slab & projections	4,405	Cft.			
	d) Stair cases	373	Cft.			
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts.	157	Cft.			
	f) Parapet wall for stair cases	83	Cft.			
<p><u>First Floor (From 1st Slab to 2nd slab)</u> <u>REINFORCEMENT</u> Ref.Spec. No. C04</p>						
01- 02 C 18	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	28	ton.			
01- 02 C 19	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate Only	ton.			
<p><u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u> Ref.Spec. No. C04</p>						
01- 02 C 20	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification;					
	a) Columns	1,275	Cft.			
	b) Beams & lintels	1,775	Cft.			
	c) Slab & projections	4,431	Cft.			
	d) Stair cases	175	Cft.			
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts.	139	Cft.			
	f) Parapet wall for stair cases	32	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>Second Floor / Roof (From 2nd slab to 3rd slab & tower)</u>					
	<u>REINFORCEMENT</u>					
	Ref.Spec. No. C04					
01- 02 C 21	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	4	ton.			
01- 02 C 22	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate only	ton.			
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u>					
	Ref.Spec. No. C04					
01- 02 C 23	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures components complete in all respect as per drawings and specification;					
	a) Columns	133	Cft.			
	b) Beams & lintels	169	Cft.			
	c) Slab & projections	358	Cft.			
	d) Parapet Wall/ Purdi	501	Cft.			
	e) Precast coping for parapet wall at roof and erecting/ fixing including shuttering and all accessories and/or embedded parts.	685	Rft.			
	g) Over head water tank, column, walls & slab	300	Cft.			
	f) Others Misc Str	20	Cft.			
	<u>FINISHING WORKS</u>					
	<u>For Ground floor</u>					
	<u>BLOCK MASONRY</u>					
	Ref.Spec. No.C18					
01- 02 C 24	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 4" thick	1,179	Cft.			
	b) 6" thick	248	Cft.			
	c) 8" thick	5,565	Cft.			
	d) 4" thick, external cavity; wall with all accessories arrangements for stone tile facing or Color Crete finishig including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	1,296	Cft.			
	<u>BRICK MASONRY</u>					
	Ref.Spec. No. C05					
01- 02 C 24 A	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.					
	a) 4-1/2" thick	Rate only	Cft.			
	b) 9" thick	Rate only	Cft.			
	c)13-1/2" thick	Rate only	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 25	<p><u>DOORS FRAMES</u> Ref.Spec. No. C09 & C11 G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.</p>	561	R.ft.			
01- 02 C 26	<p><u>CEMENT PLASTER</u> Ref.Spec. No. C06 3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.</p>	325	Sq.ft.			
01- 02 C 28	<p>1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.</p>	6,688	Sq.ft.			
01- 02 C 29	<p>1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.</p>	17,540	Sq.ft.			
01- 02 C 30	<p><u>ALUMINIUM WORKS</u> Ref.Spec. No. C11 Supply and fix in position as specified anodized aluminum openable windows and ventilators of 2"x4" section, approved manufacturer having minimum wall thickness not less than 1.6 mm with netted shutter and 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.</p>	1,313	Sq.ft.			
01- 02 C 31	<p>Supply and fix in position as specified anodized aluminum doors with fixed panel both side and top of approved 2"x4" section, manufacturer having minimum wall thickness not less than 1.6 mm with 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.</p>	116	Sq.ft.			
01- 02 C 32	<p><u>STRUCTURAL STEEL</u> Ref. Sec.No. C13 Mild steel grills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings and specification.</p>	1,615	Kg			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 33	Providing and fixing railing for stairs/ramps as per drawing and specifications complete in all respect. a) MS railing stairs b) M.S railing at entrance	54 70	Rft Rft			
01- 02 C 34	Providing and fixing MS pipe railing for courtyard with paintings, as per drawing and specifications complete in all respect and approved by the Engineer.	50	Rft			
01- 02 C 35	Providing and fixing MS folding gate (Emergency Exit) with paintings, complete in all respects as per drawing and specifications.	1	No			
01- 02 C 35 A	Providing and fixing MS folding Main entrance gate with paintings, complete in all respects as per drawing and specifications.	1	No			
<u>FLOOR AND WALL FINISHES</u>						
Ref.Spec. No. C07						
01- 02 C 36	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	6,329	Sq.ft.			
01- 02 C 37	Providing and laying terrazzo tile for entrance ramp (3/4" thick) with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	100	Sq.ft.			
01- 02 C 38	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	409	Sq.ft.			
01- 02 C 39	Porcelain tile floor (type) using tile of size 8"x8" (full body), approved quality, colour and shade laid in approved pattern set in specified mortar including cement concrete base, complete in all respect as shown on the drawings and specifications.	729	Sq.ft.			
01- 02 C 40	Porcelain tile in Dado using tile of size 8"x8", quality, colour and shade laid in approved pattern including rough plaster base complete in all respect as shown on drawings and specifications.	3,336	Sq.ft.			
<u>MARBLE WORKS</u>						
Ref.Spec. No. C07 & C08						
01- 02 C 41	Pre-polished marble on entrance steps, stairs, ramp & floor etc using approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings. a) Entrance Steps & Platform (3/4" thick) b) Entrance Steps Risers (1/2" thick)	325 60	Sq.ft. Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 42	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	382	Sq.ft.			
01- 02 C 43	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	106	Sq.ft.			
01- 02 C 44	Pre-polished marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish including complete in all respect as shown on the drawings.	53	Sq.ft.			
01- 02 C 45	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	40	Sq.ft.			
	<u>PAINTING</u> Ref.Spec. No. C10					
01- 02 C 46	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	6,688	Sq.ft.			
01- 02 C 47	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	17,540	Sq.ft.			
01- 02 C 48	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	325	Sq.ft.			
	<u>WOODEN DOORS</u> Ref.Spec. No. C09					
01- 02 C 49	Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partal wood frame and infill, polish, color/ lacker, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	530	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 50	Fixed 6mm plain laminated glass panel part at above door panel with solid wood batten including teak polish/ lacker at both sides around the glass of approved type, quality complete in all respect as shown on the drawings and specifications.	110	Sq.ft.			
	<u>FALSE CEILING</u> Ref.Spec. No. C14					
01- 02 C 51	1/2" thick gypsum board ceiling including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on the drawings and specifications.	729	Sq.ft.			
	<u>Pre cast C.C Patren jali</u> Ref.Spec. No.C18, C5					
01- 02 C 52	C.C Patren jali as per approved designed and specification	600	Sq.ft.			
	<u>CLADDING/ EXTERNAL FACING</u> Ref.Spec. No.C19 & C20					
01- 02 C 53	Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	3,893	Sq.ft.			
01- 02 C 53 A	Providing and laying Color-Crete with 3/4" Cement sand plaster on extrenal facing as per approverd sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	4,498				
01- 02 C 53 B	Ref.Spec. No. C05 Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>FINISHING WORKS</u>					
	<u>For First floor</u>					
	<u>BLOCK MASONRY</u>					
	Ref.Spec. No.C18					
01- 02 C 54	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 4" thick	458	Cft.			
	b) 6" thick	320	Cft.			
	c) 8" thick	4,291	Cft.			
	d) 4" thick, external cavity; wall with all accessories arrangements for stone tile facing or Color Crete finishing including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	1,702	Cft.			
	<u>BRICK MASONRY</u>					
	Ref.Spec. No. C05					
01- 02 C 54 A	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.					
	a) 4-1/2" thick	Rate only	Cft.			
	b) 9" thick	Rate only	Cft.			
	c) 13-1/2" thick	Rate only	Cft.			
	<u>DOORS FRAMES</u>					
	Ref.Spec. No. C09 & C11					
01- 02 C 55	G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	516	R.ft.			
	<u>CEMENT PLASTER</u>					
	Ref.Spec. No. C 06					
01- 02 C 56	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers including complete in all respect as shown on the drawings.	175	Sq.ft.			
01- 02 C 57	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	6,573	Sq.ft.			
01- 02 C 57	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	13,678	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>ALUMINIUM WORKS</u>					
01- 02 C 58	Ref.Spec. No. C 11 Supply and fix in position as specified anodized aluminum openable windows and ventilators of 2"x4" section, approved manufacturer having minimum wall thickness not less than 1.6 mm with netted shutter and 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	1,377	Sq.ft.			
	<u>STRUCTURAL STEEL</u>					
	Ref. Sec.No. C 13					
01- 02 C 59	Mild steel grills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings.	1,721	Kg			
01- 02 C 60	Providing and fixing MS stair railing as per drawing and specifications complete in all respect.	30	Rft			
01- 02 C 61	Providing and fixing MS pipe railing for courtyard with paintings, as per drawing and specifications complete in all respect and approved by the engineers.	Rate Only	Rft			
	<u>FLOOR AND WALL FINISHES</u>					
	Ref.Spec. No. C 07, 08					
01- 02 C 62	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	6,945	Sq.ft.			
01- 02 C 63	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	318	Sq.ft.			
01- 02 C 64	Porcelain tile floor (type) using tile of size 8"x8" (full body), approved quality, colour and shade laid in approved pattern set in specified mortar including cement concrete base, complete in all respect as shown on the drawings.	500	Sq.ft.			
01- 02 C 65	Porcelain tile in Dado using tile of size 8"x8", quality, colour and shade laid in approved pattern including rough plaster base complete in all respect.	2,126	Sq.ft.			
	<u>MARBLE WORKS</u>					
	Ref.Spec. No. C 07, 08					
01- 02 C 66	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	176	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 67	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	50	Sq.ft.			
01- 02 C 68	Pre-polished marble tile for counter tops & other area 3/4" thick using of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including complete in all respect as shown on the drawings.	50	Sq.ft.			
01- 02 C 69	Pre-polished Marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	34	Sq.ft.			
01- 02 C 70	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	52	Sq.ft.			
	<u>PAINTING</u>					
	Ref.Spec. No. C 10					
01- 02 C 71	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	6,573	Sq.ft.			
01- 02 C 72	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	13,678	Sq.ft.			
	<u>WOODEN DOORS</u>					
	Ref.Spec. No. C 09, 12					
01- 02 C 73	Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partial wood frame and infill, polish, color/ lacker, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	560	Sq.ft.			
01- 02 C 74	Fixed 6mm plain laminated glass panel part at above door panel with solid wood batten including teak polish/ lacker at both sides around the glass of approved type, quality complete in all respect as shown on the drawings and specifications.	124	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 75	FALSE CEILING Ref.Spec. No.C14 12mm thick gypsum board ceiling including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on the drawings and specifications.	500	Sq.ft.			
01- 02 C 76	Pre cast C.C Patren jali Ref.Spec. No.C18, C5 C.C Patren jali as per approved designed and specification	680	Sq.ft.			
01- 02 C 77	STONE CLADDING/ COLOR-CRETE/ EXTERNAL FACING Ref.Spec. No. C19 & C20 Providing and laying stone clading/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	5,111	Sq.ft.			
01- 02 C 77 A	Providing and laying Color-Crete with 3/4" Cement sand plaster on extrenal facing as per approved sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	4,848	Sq.ft.			
01- 02 C 77 B	Ref.Spec. No. C05 Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq.ft.			
01- 02 C 78	WATER PROOFING AND BUILTUP ROOFING Ref.Spec. No.C 16 Water proofing and built up roofing over roof slab comprising all the layers and coatings etc as shown in the drawings and specifications.	7,500	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>FINISHING WORKS</u> <u>For Roof floor / Secound floor</u> <u>BLOCK MASONRY</u> Ref.Spec. No. C18					
01- 02 C 79	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 4" thick	30	Cft.			
	b) 6" thick	50	Cft.			
	c) 8" thick	500	Cft.			
	d) 4" thick, external cavity; wall with all accessories arrangements for stone tile facing or Color Crete finishing including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	789	Cft.			
	<u>BRICK MASONRY</u> Ref.Spec. No. C05					
01- 02 C 79A	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per drawings and specifications.					
	a) 4-1/2" thick	Rate only	Cft.			
	b) 9" thick	Rate only	Cft.			
	c) 13-1/2" thick	Rate only	Cft.			
	<u>DOORS FRAMES</u> Ref.Spec. No. C09 & C11					
01- 02 C 80	G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	35	R.ft.			
	<u>CEMENT PLASTER</u> Ref.Spec. No. C 06					
01- 02 C 81	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection, parapet or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and as per elevation complete in all respect as shown on the drawings.	2,504	Sq.ft.			
01- 02 C 82	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	388	Sq.ft.			
01- 02 C 83	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	902	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 84	3/4" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls to O.H.W Tank etc with making of chamfer corner in plaster as per drawings and specifications.	360	Sq.ft.			
01- 02 C 85	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating.	230	Sq.ft.			
01- 02 C 86	Water proofing coating treatment to all horizontal surfaces in contact with water shall be treated with 1 coat of crystalline water proofing coating.	130	Sq.ft.			
01- 02 C 86	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, including fixing of frame and embedded parts in concrete and painting, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 02 C 86 A	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer. (For O.H.W tank)	4	No.			
FLOOR AND WALL FINISHES						
Ref.Spec. No. C 07, 08						
01- 02 C 87	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	180	Sq.ft.			
01- 02 C 88	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	16	Sq.ft.			
MARBLE WORKS						
Ref.Spec. No. C 07, 08						
01- 02 C 89	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	6	Sq.ft.			
PAINTING						
Ref.Spec. No. C 10						
01- 02 C 90	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	388	Sq.ft.			
01- 02 C 91	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	902	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 92	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc.complete in all respect as directed by the Engineer.	2,504	Sq.ft.			
	<u>WOODEN DOORS</u> Ref.Spec. No. C 09, C12					
01- 02 C 93	Wooden flush door leaves of the approved types and sizes teak ply finished shutter fixed comprising 1-1/2" thick solid core partal wood frame and infill, polish, color/ lacker, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with lacker polish complete in all respect as shown on the drawings and specifications.	49	Sq.ft.			
	<u>Pre cast C.C Patren jali and Railing</u> Ref.Spec. No.C18, C5 & C21					
01- 02 C 94	C.C Patren jali as per approved designed and specification	100	Sq.ft.			
01- 02 C 95	Precast water spout as per approved designed and specification	15	No.			
	<u>CLADDING/ EXTERNAL FACING</u> Ref.Spec. No. C19 & C20					
01- 02 C 96	Providing and laying stone clading/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	2,368	Sq.ft.			
	Providing and laying Color-Crete with 3/4" Cement sand plaster on extrenal facing as per approverd sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	530	Sq.ft.			
01- 02 C 98	Ref.Spec. No. C05 Providing and laying Brick facing including cavity arrangements / accessories, anchorages, angle irons etc at any height and level using selected bricks set in cement sand mortar 1:4 in walls as per size, design / pattern shown on the drawings of approved shapes and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	Rate only	Sq.ft.			
Total C/o to Summary for CIVIL WORKS Pak Rs.						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>EXTERNAL DEVELOPEMENT</u>					
	<u>CONSTRUCTION OF BOUNDARY WALL</u>					
	Ref.Spec. No. C02					
	<u>EARTHWORKS</u>					
	Ref.Spec. No.					
01- 03 D 1	Excavation in all kinds of sub-surface materials, timbering upto following depths including disposal of surplus / rejected excavated materials to designated places.					
	a) 0 ft to 5 ft	554	Cft.			
01- 03 D 2	Fill and backfill with selected materials including watering and compaction to every layer as per specification.					
	a) From suitable excavated material (from stockpile of excavated materials)	277	Cft.			
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	2,190	Cft.			
01- 03 D3	Area Fill with selected materials from outside source including watering and compaction to every layer as per specification for Play ground.	1,000	Cft.			
	<u>DEWATERING</u>					
	Ref.Spec. No. G03					
01- 03 D4	Designing, providing and installation of complete dewatering system including boring, strainer, filter and other all materials, pumping and disposal of water upto Engineer's satisfaction and to keep the construction surface dry all the time.					
	a) Completion of installation works at site, up 100% running/ working position	Rate only	L.S.			
	b) Dewatering	Rate only	Day			
	<u>TERMITE CONTROL TREATMENT</u>					
	Ref.Spec. No. C03					
01- 03 D5	Termite control treatment to surfaces following structures complete in all respect as per specification: (Only plan area will be measured)	466	Sq.ft.			
	<u>REINFORCEMENT</u>					
	Ref.Spec. No. C04					
01- 03 D6	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	1.23	ton.			
	<u>PLAIN AND REINFORCED CONCRETE</u>					
	Ref.Spec. No. C04					
01- 03 D7	Blinding concrete 1250 psi using slag cement conforming to BS-146.	93	Cft.			
01- 03 D7A	Situ concrete 1:3:6, with formwork under the plinth beam thickness as per drawings, using slag cement conforming to BS-146, straight or curve at any level including all anchors required to be built in Rcc columns pedestals, complete in all respect as per drawings and specifications.	84	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D8	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Footings b) Columns upto plinth c) Plinth beams	154 40 101	Cft. Cft. Cft.			
01- 03 D9	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification; a) Columns	83	Cft.			
	<u>BLOCK MASONRY</u> Ref.Spec. No. C18					
01- 03 D10	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 8" thick / 4" thick	473	Cft.			
	<u>BRICK MASONRY</u> Ref.Spec. No. C05					
01- 03 D10 A	Solid brick masonry wall 9" thick with using slag cement conforming to BS-146 set in 1:4 cement sand mortar, straight or curve below plinth beam, planters including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per Drawings and Specifications. a) 9" thick	Rate only	Cft.			
01- 03 D10 B	Solid brick masonry wall with pointing on both faces above plinth beam 9" thick set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties, and other fixtures required to be built in brick masonry, complete in all respect as per Drawings and specifications. a) 4 1/2" thick	Rate only	Cft.			
	<u>CEMENT PLASTER</u> Ref.Spec. No. C06					
01- 03 D11	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces (Columns, wall, beams and project etc.) including making grooves as per design and elevation complete in all respect as shown on the drawings.	567	Sq.ft.			
	<u>PROTECTION WORKS</u> Ref.Spec. No. C16					
01- 03 D12	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	688	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D13	<p><u>COPING</u> Ref.Spec. No. C04 Providing and fixing 3" thick coping including plaster using OP cement for boundary wall complete as shown on the drawings.</p>	93	Rft.			
01- 03 D14	<p><u>STRUCTURAL STEEL</u> Ref. Sec.No. C13 Mild steel main gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 14'x7')</p>	2	no			
01- 03 D15	<p>Mild steel wicket gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 3'x7')</p>	2	no			
01- 03 D 15A	<p><u>CLADDING/ EXTERNAL FACING</u> Ref.Spec. No. C19 & C20 Providing and laying stone cladding/ stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.</p>	1581	Sq.ft.			
01- 03 D 16	<p><u>LANDSCAPING</u> Ref. Sec.No. C17 Fill and backfill with selected materials including watering and compaction to every layer as per specification.</p>	275	Cft.			
01- 03 D17	<p>Area fill with selected materials including watering and compaction to every layer as per specification.</p>	8,549	Cft.			
01- 03 D18	<p>Relocation and replanting of removed trees as per specifications and and as directed by the Engineer.</p>	30	No.			
01- 03 D19	<p>Development of lawn (grass) including fertilizer mixed with earth including spreading and watering etc. and cutting etc. till guarantee period (12 months) complete in all respect as shown on the drawings and as per specifications.</p>	6,440	Sq.ft.			
01- 03 D20	<p>12" thick approved selected sweet earth including spreading, levelling, dressing and watering etc. complete in all respect as per specifications and as directed by the Engineer.</p>	6,440	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D21	Trees/ plants of the following types and size/ height including excavation, backfilling, manure/ fertilizer, supports and water etc. complete in all respect as shown on the drawings, specifications and as directed by the Engineer. a) Neem tree (3 to 4 feet) b) Babul tree (3 to 4 feet) c) Golmohar (3 to 4 feet) d) Champa (2 to 3 feet) e) Crape Jasmine (2 to 3 feet) f) Cement Concrete planters.	14 5 10 22 22 170	No. No. No. No. No. Rft			
	<u>Foothpath Walkway (Precast Paving Blocks / Tiles)</u> Ref. Sec.No.C21					
01- 03 D22	4" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	3,648	Sq.ft.			
01- 03 D23	Precast cement concrete paving blocks envicrete or approved equivalent of size 8" x 4" x 2.5" laid in approved pattern including 2" thick sand cushion,	3,648	Sq.ft.			
01- 03 D24	PCC concrete kerb envicrete or approved equivalent including lean, hauching concrete etc complete as per drawing and specifications with earth cutting/ filling, levelling, dressing etc complete in all respect as per specifications and as directed by the Engineer.	500	Rft			
01- 03 D24A	Plain cement concrete panel flooring including 1/2" Groove @ 8"c/c, joints etc complete as shown in the drawings.	315	Sq.ft.			
	<u>EXTERNAL SEWER & MANHOLES</u>					
01- 03 D25	Construction of manholes with material including, excavation, base top RCC slab, GI steps, CC benching water proof internal plaster, external bitumen coating etc inlet/out connections etc. i. 24" x 24" SIZE ii. 36" x 36" SIZE	8 2	Nos. Nos.			
01- 03 D26	Supply and fix water tight (Square Type) Malleable Iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	10	No.			
	<u>Septic Tank</u>					
01- 03 D27	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft.	830 430	Cft. Cft.			
01- 03 D28	Blinding concrete 1250 psi using slag cement conforming to BS-146	55	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D29	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of Crystalline water proofing coating.	490	Sq.ft.			
01- 03 D30	Water proofing coating treatment to all surfaces in contact with water shall be treated with 1 coat of Crystalline water proofing coating on horizontal surface.	140	Sq.ft.			
01- 03 D31	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) Base Slab. b) Walls including chamfer etc. c) Top Slab	111 345 70	Cft. Cft. Cft.			
01- 03 D32	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	1.5	Ton			
01- 03 D32	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	90	Sq.ft.			
01- 03 D33	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	630	Sq.ft.			
01- 03 D34	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings complete in all respect as shown on the drawings and specifications.	430	Sq.ft.			
01- 03 D35	Providing embedding 10" wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	51	Rft.			
01- 03 D36	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 03 D37	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No.			
01- 03 D38	<u>Soakage Pit</u> Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft. c) More than 10 ft upto full depth.	900 900 1,800	Cft. Cft. Cft.			
01- 03 D39	Blinding concrete 2000 psi using slag cement conforming to BS-146	25	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D40	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 20" thick b) 16" thick b) 12" thick	680 550 210	Cft Cft Cft			
01- 03 D41	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. Pre-cast R.C.C Slab	90	Cft			
01- 03 D42	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.35	Ton			
01- 03 D43	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	1	No			
01- 03 D44	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	24	No			
	<u>Ground Storage Tank</u>					
01- 03 D45	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft.	725 12	Cft. Cft.			
01- 03 D46	Blinding concrete 1250 psi using slag cement conforming to BS-146	48	Cft.			
01- 03 D47	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) Base Slab. b) Walls including chamfer etc. c) Top slabs d) Precast Slab	100 255 60 10	Cft. Cft. Cft. Cft.			
01- 03 D48	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	1	Ton			
01- 03 D49	Providing embedding 10" (250 mm) wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	55	Rft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D50	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 12" thick	75	Cft.			
01- 03 D51	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 03 D52	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	10	No.			
01- 03 D53	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	530	Sq.ft.			
01- 03 D54	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	116	Sq.ft.			
01- 03 D55	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	435	Sq.ft.			
01- 03 D56	2" thick, 3000psi (cly) cement concrete floor and screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	185	Sq.ft.			
01- 03 D57	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc.complete in all respect as per specifications.	90	Sq.ft.			
01- 03 D58	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	12	Sq.ft.			
01- 03 D59	Providing and applying three or more coats of matt emultion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	40	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D60	MS Door including paint etc complete in all respect as shown in the drawings.	15	Sq.ft.			
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 2 coats of crystalline water proofing coating on vertical surfaces	577	Sq.ft.			
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 1 coat of crystalline water proofing coating on horizontal surfaces.	83	Sq.ft.			
<u>Tube Well / Penumatic Pump</u>						
<u>Construction works</u>						
01- 03 D62	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft	150	Cft.			
01- 02 C 63	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials)	20	Cft.			
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	40	Cft.			
01- 03 D64	Blinding concrete 1250 psi using slag cement conforming to BS-146	60	Cft.			
01- 03 D65	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification; Pre-cast R.C.C Slab including Beam	35	Cft.			
01- 03 D66	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.10	Ton			
01- 03 D67	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 20" thick, for foundation	50	Cft			
	b) 16" thick, for foundation	40	Cft			
	c) 12" thick, for foundation	45	Cft			
	d) 12" thick, for above G.L	180	Cft			
e) 4" thick, for parapet wall	10	Cft				
01- 03 D68	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	285	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D69	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	25	Sq.ft.			
01- 03 D70	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	150	Sq.ft.			
01- 03 D71	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	25	Sq.ft.			
01- 03 D72	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	25	Sq.ft.			
01- 03 D73	Plain cement concrete 2" thick floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	25	Sq.ft.			
01- 03 D74	Plain cement concrete 2" thick screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	33	Sq.ft.			
01- 03 D75	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc.complete in all respect as per specifications.	285	Sq.ft.			
01- 03 D76	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	25	Sq.ft.			
01- 03 D77	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	150	Sq.ft.			
01- 03 D78	Vapor barrier sheet, under foundations and floor as per drawings and specifications.	25	Sq.ft.			
01- 03 D79	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	250	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>Kanchan Arsenic filter</u>					
01- 03 D80	Excavation and backfilling in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places. a) 0 ft to 5 ft	75	Cft.			
01- 03 D81	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material / scorce to be approved by the Engineer) upto free haulage limit.	50 100	Cft. Cft.			
01- 03 D82	Blinding concrete 1250 psi using slag cement conforming to BS-146	15	Cft.			
01- 03 D83	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) footing b) Columns up bottom first slab c) Slabs & projection e) Walls including chamfer etc.	25 20 35 80	Cft. Cft. Cft. Cft.			
01- 03 D84	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.5	Ton			
01- 03 D85	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	84	Sq.ft.			
01- 03 D86	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	84	Sq.ft.			
01- 03 D87	2" thick, 3000 cement concrete floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	84	Sq.ft.			
01- 03 D88	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	152	Sq.ft.			
01- 03 D89	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	126	Sq.ft.			

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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D90	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating.	126	Sq.ft.			
01- 03 D91	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	218	Sq.ft.			
01- 03 D111	Plain cement concrete panel flooring: Plain cement concrete panel flooring including sub flooring and base preparation, joints etc complete as shown in the drawings.	2,300	Sq.ft.			
Sub- Total C/o to Summary for External Development work Pak Rs.						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
41-04E 1	<p>PART -1 <u>Distribution Board</u> <u>Distribution Board</u></p> <p>Fabrication, Supply, installation, Testing and commissioning at site of following Distribution board, made of MS Sheet 16 SWG with hinged door, handle, catcher, earthing bar, neutral strip, internal wiring from MCBs terminating on cable terminal blocks, 2 coats of antirust and powder coated paint of approved colour, including cost of all necessary materials complete in all respects, DBs shall be manufactured as per specification, single line diagram complete in all respect up to the satisfaction of Engineer.</p>					
	i) MDBLP-GF	1	No.			
	ii) DBLP-GF1	1	No.			
	iii) DBLP-GF2	1	No.			
	vi) DBLP-FF1	1	No.			
	v) DBLP-FF2	1	No.			
	vi) MCC-WP	1	No.			
	vii) DB-EXT (IP 54)	1	No.			

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Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-2: <u>CABLES AND CONDUITS</u>					
41-04E 2	<u>L.V. Power Cables</u> Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 600 / 1000 Volt grade manufactured by any one of the manufacturers as mentioned in approved manufacturer list in pre-laid conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the employers electrical engineer before placing the order with the manufacturer.					
	a) 4 Core Cu/PVC/PVC CABLE					
	i. 4 core 10mm.sq.	545	R.ft			
	ii. 4 core 16mm.sq.	330	R.ft			
	iii. 4 core 35mm.sq.	100	R.ft			
	b) Circuit Protective Conductor (CPC)					
	i. 1 core 10mm sq. PVC insulated colour Green/Yellow.	545	R.ft			
	ii. 1 core 16mm sq. PVC insulated colour Green/Yellow.	430	R.ft			
41-04E 3	<u>P.V.C. Conduit and Accessories</u> Supply at site of PVC conduit to be installed on slabs, walls, floor, columns or as required as per site conditions including cost of all PVC conduit accessories, steel pull wires, complete in all respects.					
	a) 32mm (1.25") dia. PVC conduit to pull electric cable.	415	R.ft			
	b) 38mm (1.5") dia. PVC conduit to pull electric cable.	360	R.ft			
	c) 50mm (2") dia. PVC conduit to pull electric cable.	135	R.ft			
	d) 75mm (3") dia. PVC conduit to pull electric cable.	200	R.ft			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-3 <u>Wiring & Conduiting</u>					
41-04E 4	<u>Circuit Wiring & Conduiting</u>					
	a) Circuit Wiring and conduiting from DB to switch / Fan dimmer with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	24	Nos.			
	b) Same as item (a) but wiring from switch to switch with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit.	49	Nos.			
	c) Wiring from switch/dimmer to first light/fan point with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm dia PVC conduit, complete with cables and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	143	Nos.			
	d) Wiring and conduiting of light point to point with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	73	Nos.			
	e) Circuit Wiring and conduiting from DB to power socket outlet with 2 x 4 sq.mm 1 core Cu/PVC insulated cable + CPC 4 sq.mm 1 core Cu/PVC insulated cable in 20 mm dia PVC conduit complete with cables, conduits and all necessary accessories such as sheet steel back box with earth connecting point bends, junction boxes, sockets etc., as per the specifications and drawings and approval by the Engineer.	21	Nos.			
	f) Same as item (e) but wiring between adjacent socket outlets with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC.	17	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
g)	Same as (e) but wiring from socket outlet to socket outlet with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC.	33	Nos.			
h)	Wiring and conduiting from DB to water pump/LBS with 2 x 6 sq.mm 1 core Cu/PVC insulated cable + CPC 6 sq.mm 1 core Cu/PVC insulated cable in 25 mm dia PVC conduit complete with cables, conduits and all necessary accessories such as bends, junction boxes, sockets etc., as per the specifications and drawings and approval by the Engineer.	4	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-4: <u>LIGHT FIXTURES, FANS, SWITCHES, OUTLETS & ACCESSORIES</u>					
41-04E 5	<u>LIGHT FIXTURES</u> Supply, Installation, testing and commissioning of following light fittings, ceiling /wall mounted / with hanging arrangement made of fiber / plastic body. Complete with electronic blast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, as per approved manufacturer, fittings shall be duly approved by Engineer.					
	a. Fluorescent Light TMS 015 with 1x36Watt TL-D lamp color 84 & electronic ballast.	43	Nos.			
	b. Fluorescent Light TMS 015 with 1x18Watt TL-D lamp color 84 & electronic ballast.	6	Nos.			
	c. LED Light TCS398 2x16Watt TL-Master LED lamp with M2 Louver .	22	Nos.			
	d. LED Light TCS398 2x16Watt TL-Master LED lamp with M2 Louver.(with hanging arrangement)	70	Nos.			
	e. Fluorescent Light TBS 318 with 1x36Watt TL-D lamp color 84 & electronic ballast.	16	Nos.			
41-04E 6	<u>Ceiling Fans</u> Supply, installation and commissioning of 4-blades ceiling fans of following sizes, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respects, fittings shall be duly approved by Engineer.					
	a. 56" dia.	7	Nos.			
	b. 48" dia.	49	Nos.			
	c. 36" dia.	1	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
41-04E 7	<p><u>Switches & Fan Dimmers</u></p> <p>Supply and installation of following type gang switches of 10 Amp rating, including 16 SWG sheet steel back box recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respect, as per specifications and drawings and approval by the Engineer.</p>					
	i) One gang - 1 Way Switch	7	Nos.			
	ii) Two gang - 1 Way Switch	21	Nos.			
	iii) Three gang - 1 Way Switch	9	Nos.			
	iv) Four gang - 1 Way Switch	2	Nos.			
	v) One gang - Fan Dimmer	7	Nos.			
	vi) Two gang - Fan Dimmer	25	Nos.			
	vii) One gang - 2 Way Switch	2	Nos.			
41-04E 8	<p>SOCKETS</p> <p>Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and drawings, as per approved manufacturer list and approval by the Engineer.</p>					
	i) 10A, 2-pin universal Switch Socket outlet.	25	Nos.			
	ii) 13A, 3-pin Simplex Switch Socket outlet.	32	Nos.			
	iii) 13A, 3-pin Duplex Switch Socket outlet.	10	Nos.			
	iv) 15A, 3-pin Round Switch Socket outlet.	6	Nos.			
	v) Floor Box - Type B	16	Nos.			
41-04E 9	<p>LOAD BREAK SWITCHES</p> <p>Supply, installation, testing & commissioning of following size Load Break switch with MS back box including all accessories complete in all respects, as per specifications and drawings and approval by the Engineer.</p>					
	i) 30 Amp SPN LBS	1	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-5: <u>EARTHING SYSTEM</u>					
41-04E 10	<u>Earth Electrode</u> Supply at site and installation of Copper earth electrodes, 10 feet long and 17mm dia including cost of all necessary materials, complete in all respects, as per specification.	11	Nos.			
41-04E 11	<u>Copper Conductor</u>					
	a) Supply, installation and connecting up of 1 x 16sqmm 1-Core Cu/PVC cable, directly buried in ground from ECP in pit to earth electrode, includes excavation, backfilling of earth, cad-welding of copper conductor to earth electrode rod at one end and provision/ fixing of cable lugs at other end, including all accessories as per the Specifications and Drawings and to the entire satisfaction and approval of the Engineer.	10	R.ft			
	b) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable in 38mm dia PVC conduit, directly buried in ground, from Pit to ECP / MCC, as per drawing or as per the instructions of the engineer. including cost of excavation, backfilling of earth, brass nuts, bolts, washers, all necessary accessories, complete in all respects.	30	R.ft			
	c) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from ECP to U-link box and from U-Link box to data patch panel, as per drawing or as per the instructions of the engineer. including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	85	R.ft			
	d) Supply, installation and connections of bare copper conductor 50 mm sq. in 38mm dia PVC conduit, from building rebars / earth electrode to earth connecting point, as per drawing or as per the instructions of the engineer. including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	15	R.ft			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	e) Supply, installation and connections of copper conductor 1x50 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from earth connecting point to distribution board, as per drawing or as per the instructions of the engineer. including cost of brass nuts, bolts, washers, all necessary accessories, complete in all respects.	15	R.ft			
41-04E 12	<u>Earth Connecting Points (ECP)</u> Supply of earth connecting points consisting of copper plate 300mm long x 50mm wide x 6mm thick to be installed as and where shown on drawings, complete with fixing arrangement, brass nuts bolts, washers, lugs, 1/2" dia. holes to facilitate connections of Incoming copper strips / copper conductors and outgoing CPC.	2	Nos.			
41-04E 13	<u>ECP (in inspection Chamber)</u> Supply of earth connecting points in Earth pit / inspection chamber consisting of copper plate 200mm long x 50mm wide x 6mm thick with necessary holes, all fixing accessories of the copper plates on the wall of main holes, brass nuts bolts, washers, including cost of all necessary materials, complete in all respects.	2	Nos.			
41-04E 14	<u>Earth pit / Inspection Chamber</u> Construction of Earth pit/ inspection chamber 375mm x 375mm x 450mm deep with 150mm thick wall and 330mm x 330mm heavy duty R.C.C Cover, complete in all respects, as per specification.	2	Nos.			
41-04E 15	<u>Testing</u> Testing of the earthing system with "Earth Tester" along with other testing accessories. Testing shall be performed in the presence of the Engineer and written test result duly verified by the Engineer shall be submitted to the Client for his record.	1	Job			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART-6: <u>TELEPHONE / VOICE SYSTEM</u>					
41-04E 16	<u>Telephone / Data Network</u>					
	a) Wiring for each telephone point from Utility box to telephone point with Cat 6 UTP in 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects, as per drawing and specification.	230	R.ft			
	b) Wiring for each data point from Utility box with Cat 6A UTP, to data point, including cost of 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects as per drawing and specification.	1200	R.ft			
	c) Wiring from Utility box with Four pair Cat 6A UTP, to data patch panel, including cost of 20mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects as per drawing and specification.	140	R.ft			
	d) Supply, Installation of following telephone / data Outlet plate including RJ-45 IOs and 16 SWG sheet steel back box recessed in wall or wall surface, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.					
	i) Simplex Outlet RJ 45	23	Nos.			
	ii) Duplex Outlet RJ 45	3	Nos.			
41-04E 17	<u>U Link Box</u>					
	Supply, Installation, testing and commissioning of Utility box, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.	1	Nos.			
41-04E 18	<u>Patch Panel</u>					
	a) Supply and installation of following Patch Panels complete in all respects as per the specifications and drawings and to the approval of the Engineer.					
	i) 24 Port Patch Panel	1	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
41-04E 19	<u>Telephone / Data Patch Cords</u> a) Supply and connecting of telephone 2 Pair drop cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer. b) Supply and connecting of data CAT 6A patch cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer. i) 1 meter long ii) 3 meter long	5 24 24	Nos. Nos. Nos.			
41-04E 20	<u>Communication Rack</u> Supply installation of 15U Data racks for the fixing of 12 port rack mounted 19" CAT-6A UTP Patch Panel with cable organizer including all installation accessories as per specification complete in all respect to the approval of engineer.	1	Nos.			
41-04E 21	<u>Telephone Sets</u> Supply and connection of following type of Telephone sets. a) Telephone with CLI Module b) Telephone without CLI Module	2 3	Nos. Nos.			
PART -7 Fire Alarm System						
41-04E 22	<u>Fire Alarm System</u> a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect. i) Smoke detector with buzzer ii) Heat detector with buzzer	8 4	Nos. Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	<u>PART -8 LIGHTNING PROTECTION SYSTEM</u>					
41-04E 23	<u>Roof Conductor</u> Supply at site and installation of 50sqmm stranded bare copper conductor fixed on parapet walls or on flat surface of roof as shown on drawing or as required as per site conditions, including cost of copper saddles, copper crossing 3"x3" as shown on drawings, brass screws, all necessary fixing material / accessories, complete in all respects.	970	R.ft.			
41-04E 24	<u>Down Conductor</u> a) Supply at site, installation, connections of 50mm.sq. stranded bare copper conductor in 38mm dia. PVC conduit as down conductors to be installed within the columns from air terminal on roof to building rebars, all other required accessories including cadweld, complete in all respects.	675	R.ft.			
41-04E 25	<u>Air terminal</u> Supply, installation and connecting up of 1 x 16mm DIA SOUND ROUND COPPER 600mm LONG AERIAL ROD as and where shown on drawings, complete with fixing arrangement, cost of all necessary materials / accessories, complete in all respects.	6	Nos.			
41-04E 26	<u>Copper Test Link</u> Supply at site and installation of sectionable copper test link made of 200mm x 200mm uPVC enclosure with necessary holes, all fixing accessories of the copper test link to be installed on the wall of manholes, brass nuts bolts, washers, including cost of all necessary materials, complete in all respects.	8	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -9 <u>Public Address System</u>					
41-04E 27	<u>Amplifier</u> a) Supply, installation & commissioning of following type amplifier with three outputs, three microphone inputs and one music input, complete in all respect, as per approved manufacturer list. i) 30W	3	Nos.			
41-04E 28	<u>Speakers</u> a) Supply, installation & commissioning of 10W wall mounted speaker with all accessories complete in all respects, as per approved manufacturer list.	4	Nos.			
41-04E 29	<u>Microphone</u> Cordless Microphone.	2	Nos.			
41-04E 30	<u>Wiring</u> Wiring with 2 Core, 2.5 sq.mm PVC insulated and PVC sheathed Cable from Amplifier / controller to speaker and speaker to speaker in 20mm dia PVC conduit complete in all respects upto maximum (15 Nos speaker) as shown in riser diagram.	180	R.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -10 EXTERNAL AREA LIGHTING					
41-04E31	<u>LIGHT FIXTURES</u> Supply, Installation, testing and commissioning of following light fittings, wall mounted arrangement made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, as per approved manufacturer, fittings shall be duly approved by Architect / Engineer.					
	a) Bulkhead light fixture mounted on wall with 1x18Watt PLC lamp.	10	Nos.			
	b) Britlite or equivalent Bollard Light Fixture in die cast aluminum body powder coated suitable for walkways with 1x18WATT PLC LAMP IP-67.	10	Nos.			
41-04E32	<u>Wiring & Conduiting</u>					
	a) Circuit Wiring and conduiting from DB to first light point with 1 x 4 sq.mm 3 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables for external lighting, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	6	Nos.			
	b) Same as item (h) but wiring from light point to light point.	14	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -11 MISCELLANEOUS WORKS					
41-04E 33	<u>Cable TV System</u>					
	a) Supply, installation, testing and commissioning of RG-6 co-axial cable wiring for Cable TV system from U-link Box to TV outlet complete in all respects, as per the specifications and drawings and approval by the Engineer.	90	Rft.			
	b) <u>Outlets</u> Supply, installation testing and commissioning of cable TV outlet along with 16 SWG back box having earth terminals and 2 coats of antirust paint, complete in all respects, as per the specifications and drawings and approval by the Engineer.	2	Nos.			
41-04E 34	<u>Manholes</u>					
	Construction of water tight concrete handhole / cable chamber with Heavy duty RCC cover with lifting hooks and these words "ELECTRICAL CABLES" written with paint on cover. Complete in all respect as per drawing and specification. Sizes of Manhole are as under:					
	i) 1'-6" x 1'-6" x 2'-6" deep	6	Nos.			
41-04E 35	<u>Utility / PTCL Connection</u>					
	a) Supply and co-ordination for the utility connection from Utility as per required electrical load demand. The utility connection charges shall be paid separately as per actual on submission of receipt.	1	Job			
	b) Supply and co-ordination for the telephone connection from PTCL as per required demand. The telephone connection charges shall be paid separately as per actual on submission of receipt.	1	Job			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	PART -12 SOLAR ROOM ELECTRIFICATION WORKS					
41-04E 36	<u>LIGHT FIXTURES</u> Supply, Installation, testing and commissioning of following light fittings, ceiling /wall mounted made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete					
	a. Fluorescent Light TCW098 with 1x36Watt TL-D lamp color 84 & electronic ballast (IP65).	2	Nos.			
	b. Fluorescent Light TMS 015 with 1x36Watt TL-D lamp color 84 & electronic ballast.	3	Nos.			
41-04E 37	<u>Switches & Fan Dimmers</u> Supply and installation of following type gang switches of 10 Amp rating, including 16 SWG sheet steel back box recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respect, as per specifications and drawings and approval					
	i) Four gang - 1 Way Switch	1	Nos.			
41-04E 38	<u>SOCKETS</u> Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and dr					
	i) 13A, 3-pin Duplex Switch Socket outlet.	1	Nos.			
41-04E 39	<u>Fire Alarm System</u> a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect.					
	i) Heat detector with buzzer	1	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
41-04E 40	<u>Circuit Wiring & Conduiting</u>					
	a) Circuit Wiring and conduiting from DB to switch with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	1	Nos.			
	b) Same as item (a) but wiring from switch to switch with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 20 mm. dia PVC conduit.	1	Nos.			
	c) Same as item (b) but wiring from switch to first light point.	4	Nos.			
	d) Same as item (b) but wiring from light point to light point.	1	Nos.			
CARRIED FORWARD TO SUMMARY						
GRAND TOTAL						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	PILUMBING WORKS (BUILDING) PLUMBING FIXTURES Supply and Installation of plumbing fixtures & faucets complete in all respects including all accessories, support, hangers, etc. ready to use as per specifications, drawings and instructions of Consultant.					
01-05P1	European style coupled water closet with seat cover, flush tank C.P. (chrome plated) connector, thimble, etc. a. Type - EWC	5	No.			
01-05P2	Asian style water closet Orissa type with flush tank C.P. (chrome plated) connector, uPVC Class "E" flush pipe, thimble, P-Trap, etc.	8	No.			
01-05P3	Urinal wall hung type with automatic 1/2" size flush valve, CP trap, waste, connector and fixing accessories.		No.			
01-05P4	Wash basin (WB) including C.P P- trap/Bottle Trap, stop cocks, etc. i. Type - WB - V(Vanity)	11	No.			
01-05P5	Wash basin hot and cold water mixer, waste, etc for following. i. Type - WB - V(Vanity)		No.			
01-05P6	Toilet Hand Shower with flexible chain & telephone type shower Including tee stop cock etc. complete in all respect. Type - TS	13	No.			
01-05P7	Stainless steel lab. sink including stop cocks, P-trap, Bottle trap, waste pipe etc complete in all respects. SK - 1, 36" x 20" single bowl and single drainer.	2	No.			
01-05P8	Sink hot and cold water mixer, etc, for following. a. For SK-1		No.			
01-05P9	S.S Grease Trap 7.5 Kg. capacity, inlet/outlet 2" Dia connections.		No.			
01-05P10	Toilet accessories complete set, (Imported make) i. Soap dispenser ii. Toilet paper holder iii. Coat Hook iv. Mirror 5mm (Belgium) v. Paper Rack	6 13 6 120 6	No. No. No. Sft No.			
Page Total						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>Plumbing Water Supply</u>					
01-05P11	Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for water supply as per DIN 8077-8078 for pipes and DIN 16962,PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.					
	i) ½" internal dia (20 mm outer dia)	50	Rft.			
	ii) ¾" internal dia (32 mm outer dia)	350	Rft.			
	iii) 1" internal dia (40 mm outer dia)	520	Rft.			
	iv) 1¼" internal dia (50 mm outer dia)	135	Rft.			
	v) 1½" internal dia (63 mm outer dia)	205	Rft.			
	vi) 2" internal dia (75 mm outer dia)		Rft.			
	vii) 2½" internal dia (90 mm outer dia)		Rft.			
01-05P12	Providing and installing gate/ball valves, Kitz or approved equivalent make, including jointing ,fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters.					
	i) ¾" internal dia (32 mm outer dia)	2	No			
	ii) 1" internal dia (40 mm outer dia)	4	No			
	iii) 1¼" internal dia (50 mm outer dia)	3	No			
	iv) 1½" internal dia (63 mm outer dia)	2	No			
	v) 2" internal dia (75 mm outer dia)		No			
	vi) 2½" internal dia (90 mm outer dia)		No			
Page Total						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>Plumbing Sewerage</u>					
01-05P13	Providing, fixing , cutting, jointing and testing uPVC piping conforming to BS-4514 and BS 5255 including uPVC fittings with solvent cement jointing, rates include cost of clamping to walls and ceiling , hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter:					
	2" dia	105	Rft.			
	3" dia		Rft			
	4" dia	440	Rft.			
	6" dia	110	Rft.			
01-05P14	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.	49	No.			
01-05P15	Construction of rectangular brick masonry manhole of following sizes for sewer complete with plastering from internal and external side, PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, rungs, complete as per drawings.					
01-05P16	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.	4	No.			
01-05P17	Providing and fixing Clean Out complete in all respects	8	No.			
	<u>Water Cooler</u>					
01-05P18	Providing and fixing drinking water cooler of capacity 60 gallons per hour including all accessories and making connections to water supply and drainage systems complete in all respects as per details in specifications	4	No.			
Page Total						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
EXTERNAL DEVELOPMENT						
	<u>Septic Tank</u>					
01-05P19	Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with `B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer. 6" i/d (150 mm) 4" dia, pipe seleves in walls 6" dia, pipe seleves in walls	15 5 2	Rft. Nos Nos			
	<u>Soakage Pit</u>					
01-05P20	Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with `B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer. 6" i/d (150 mm)	5	Rft.			
	<u>Ground Water Storage Tank</u>					
01-05P21	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipe (Heavy Quality) of B.S.S. 1387-1967 complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer. i) ¾" dia ii) 1½" dia iii) 2" dia, pipe seleves, 9" long	5 5 2	Rft. Rft. Nos			
	<u>Overhead Water Storage Tank</u>					
01-05P22A	Vent Pipe 4" dia as per drawing and specifications for U.G.W.Tank, O.H.W.Tank complete in all respects, puddle flange, specials as per drawing or directed by the Engineer.	4	Nos			
01-05P22B	Providing, laying, cutting, jointing, testing and disinfecting brass pipe seleaves/ connection pie with puddle including coupler (Heavy Quality) of approved as per B.S.S coads complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer. i) 1¼" dia, pipe seleves, 10" long i) 2½" dia, pipe seleves, 10" long	2 3	Nos Nos			
	<u>Kanchan Arsenic Filter</u>					
	Filter Material.					
01-05P23	Providing & laying gravel, including screening and washing as per drawing or directed by the Engineer. Gravel size 6 mm to 15 mm.	21	Cft			
01-05P24	Providing & laying coarse sand, including screening and washing as per drawing or directed by the Engineer.	42	Cft			
01-05P25	Providing & laying fine sand, including screening and washing as per drawing or directed by the Engineer.	42	Sq.ft.			
01-05P26	Providing & fixing M.S sheet 1/4" thick, 1/8" Dia hole 2 inch c/c (Diffuser Plate), as per drawing or directed by the Engineer.	37	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P27	Providing & laying Dry rammed brick ballast 1-1/2" to 2" (40mm to 50mm) guage, including screening and washing as per drawing or directed by the Engineer.	9	Cft.			
01-05P28	Providing & laying iron nails with out coating (1" thick layer) as per drawing or directed by the Engineer.	125	Kg.			
01-05P29	Providing & fixing cover over Kanchan Filter of PVC sheet 1/2" thick, as per drawing or directed by the Engineer.	32	Sq.ft.			
01-05P30	Providing, laying, cutting, jointing, testing and disinfecting PPRC pipe including plastic shower heads with all fittings complete in all respects as per drawing or directed by the Engineer. i) 3/4" internal dia (32 mm outer dia)	23	Rft.			
01-05P31	Providing and fixing Plastic Shower Heads	9	Nos			
<u>Tube Well / Penumatic Pump</u>						
01-05P32	Boring for tubewell in all types of soil except shingle and rock, from ground level to 100 ft (30m) Depth, including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. i) 8"i/d (200mm)	100	Rft.			
01-05P33	Boring for tubewell in all types of soil except shingle and rock, from a depth of 100.1 to 200ft (30 to 60 m) below ground level,including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. i) 8"i/d (200mm)	50	Rft.			
01-05P34	Providing and installing P.V.C. bail/End plug B.S.S. class 'D', in tubewell bore hole, complete in all respect and as directed by the Engineer. i)2" i/d (100mm)	1	Each.			
01-05P35	Providing and installing P.V.C. blind pipe B.S.S Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer, etc, complete in all respect and as directed by the Engineer. i) 1" i/d(25mm) ii) 1-1/4" i/d(30mm) iii) 2" i/d(50mm)	150 40	Rft. Rft. Rft.			
01-05P36	Providing and installing P.V.C. strainer B.S.S Class 'D' in tubewell bore hole, including sockets and solvents; etc, complete in all respect and as directed by the Engineer. i)2" i/d(50mm)	40	Rft.			
01-05P36	Providing and installing P.V.C. blind pipe B.S.S Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer,complete in all respect and as directed by the Engineer. i) 4" i/d (100mm)	60	Rft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P37	Testing and developing of bore hole, complete in all respect and as directed by the Engineer.	3	Per Hr.			
01-05P38	Shrouding with graded pea gravel 3/8" to 1/8" around tubewell in bore hole, complete in all respect and as directed by the Engineer.	45	Cft.			
01-05P39	Providing/fixing Injector valve as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	Each.			
01-05P40	Providing/fixing P.V.C. Cup/Cover as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	No.			
01-05P41	Providing/fixing Pneumatic Pump (having 4 impellers capable to carry a discharge of 400 gals/hr against 90 ft head and 3 HP Motor), complete in all respect and as directed by the Engineer.	1	Set.			
	<u>EXTERNAL PIPING</u> <u>Plumbing Water Supply</u>					
01-05P42	Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for water supply as per DIN 8077-8078 for pipes and DIN 16962,PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.					
	i) ½" internal dia (20 mm outer dia)		Rft.			
	ii) ¾" internal dia (32 mm outer dia)	30	Rft.			
	iii) 1" internal dia (40 mm outer dia)	150	Rft.			
	iv) 1¼" internal dia (50 mm outer dia)	130	Rft.			
	v) 1½" internal dia (63 mm outer dia)	13	Rft.			
	vi) 2" internal dia (75 mm outer dia)		Rft.			
	vii) 2½" internal dia (90 mm outer dia)		Rft.			
01-05P43	Providing and installing gate/ball valves, Kitz or approved equivalent make, including jointing ,fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters.					
	i) ¾" internal dia (32 mm outer dia)	2	No			
	ii) 1" internal dia (40 mm outer dia)	4	No			
	iii) 1¼" internal dia (50 mm outer dia)	3	No			
	iv) 1½" internal dia (63 mm outer dia)	0	No			
	v) 2" internal dia (75 mm outer dia)		No			
	vi) 2½" internal dia (90 mm outer dia)		No			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>Plumbing Sewerage</u>					
01-05P44	Providing, fixing , cutting, jointing and testing uPVC piping conforming to BS-4514 and BS 5255 including uPVC fittings with solvent cement jointing, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter:					
	2" dia		Rft.			
	3" dia		Rft			
	4" dia	32	Rft.			
	6" dia	430	Rft.			
01-05P45	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.		No.			
01-05P46	Construction of rectangular brick masonry manhole of 2'x2' for sewer complete with plastering from internal and external side, PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, rungs, complete as per drawings.		No.			
01-05P47	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.		No.			
01-05P48	Providing and fixing Clean Out complete in all respects		No.			
	<u>Water Supply Pump For GST</u>					
01-05P49	Supply at site, installation, testing and commissioning of water supply reciprocating pump with 2HP motor as per spacification complete in all respect.	2	No			
Page Total						
G-Total C/o to Summary						

3 – DAYWORK SCHEDULE

BILL OF QUANTITIES**Daywork Schedule****General**

1. Reference is made to Sub-Clause 13.6 of the General Conditions of Contract . Work shall not be executed on a day work basis except by written order of the Engineer. Bidders shall enter basic rates for Day work items in the Schedules, which rates shall apply to any quantity of Daywork ordered by the Engineer. Nominal quantities have been indicated against each item of Day work, and the extended total for Day work shall be carried forward to the Bid Price.

Daywork Labour

2. In calculating payments due to the Contractor for the execution of Day work, the actual time of classes of labour directly doing the Day work ordered by the Engineer and for which they are competent to perform will be measured excluding meal breaks and rest periods. The time of gangers (charge hands) actually doing work with the gang will also be measured but not the time of foreman or other supervisory personnel.
3. The Contractor shall be entitled to payment in respect of the total time that labour is employed on Daywork, calculated at the basic rates entered by him in the Schedule of Day work Rates for labour together with an additional percentage, payment on basic rates representing the Contractor's profit, overheads, etc., as described below:
 - a) the basic rates for labour shall cover all direct costs to the Contractor, including (but not limited to) the amount of wages paid to such labour, transportation time, overtime, subsistence allowances and any sums paid to or on behalf of such labour for social benefits in accordance with Pakistan law. The basic rates will be payable in local currency only; and
 - b) the additional percentage payment to be quoted by the Bidder and applied to costs incurred under (a) above shall be deemed to cover the Contractor's profit, overheads, superintendence, liabilities and insurances and allowances to labour timekeeping and clerical and office work; the use of consumable stores, water, lighting and power; the use and repair of stagings, scaffolding, workshops and stores, portable power tools, manual plant and tools; supervision by the Contractor's staff, foremen and other supervisory personnel; and charges incidental to the foregoing.

Appendix-D to Bid

SCHEDULE OF DAYWORK RATES

I. Labour

Item No.	Description	Unit	Nominal Quantity	Rate (Rs) in Figure	Rate (Rs) in Words	Extended Amount (Rs.)
1	2	3	4	5	6	7
D101	Ganger	Hr	100			
D102	Labourer	Hr	1,000			
D103	Brick layer	Hr	100			
D104	Mason	Hr	100			
D105	Carpenter	Hr	100			
D106	Steel work Erector	Hr	100			
	-----etc-----	Hr	100			
D113	Driver for vehicle up to 10 tons	Hr	500			
D114	Operator for excavator, dragline, shovel or crane	Hr	100			
D115	Operator for tractor, (tracked) with dozer blade or ripper	Hr	100			
D122	Sub Total					
	Allow _____ percent of subtotal for Contractor's overhead, profit, etc, in accordance with Paragraph 3(b) of Daywork Schedule _____					
	Total for Daywork: Labour : _____					
	(Carried forward to Daywork Summary)					

Appendix-D to Bid**Daywork Material**

4. The Contractor shall be entitled to payment in respect of materials used for Day work (except for materials for which the cost is included in the percentage addition to labour costs as detailed heretofore), at the basic rates entered by him in the Schedule of Day work Rates for materials together with an additional percentage payment on the basic rates to cover overhead charges and profit, as follows:
 - a) the basic rates for materials shall be calculated on the basis of the invoiced price, freight, insurance, handling expenses, damage, losses, etc., and shall provide for delivery to store for stockpiling at the site. The basic rates shall be stated in local currency but payment will be made in the currency or currencies expended upon presentation of supporting documentation;
 - b) the additional percentage payment shall be quoted by the Bidder and applied to the equivalent local currency payments made under Sub-Para(a) above; and
 - c) the cost of hauling materials used on work ordered to be carried out as Daywork from the store or stockpile on the site to the place where it is to be used will be paid in accordance with the terms for Labour and Constructional Plant in this Schedule.

Appendix-D to Bid

SCHEDULE OF DAYWORK RATES

II. Materials

Item No.	Description	Unit	Nominal Quantity	Rate (Rs) in Figure	Rate (Rs) in Words)	Extended Amount (Rs.)
1	2	3	4	5	6	7
D201	Cement, ordinary Portland or equivalent in bags	M.Ton	50			
D202	Mild Steel reinforcing bar upto 16mm diameter to BS 4449 or equivalent	M.Ton	50			
D203	Fine aggregate for concrete as specified.	Cu.M	200			
D223	<p style="text-align: right;">Sub Total</p> <p>Allow _____ percent of subtotal for Contractor's overhead, profit, etc., in accordance with Paragraph 4(b) of Daywork Schedule _____</p> <p>Total for Daywork: Materials _____</p> <p>(Carried forward to Daywork Summary)</p>					

Appendix-D to Bid**Daywork Constructional Plant**

5. The Contractor shall be entitled to payments in respect of constructional plant already on Site and employed on Daywork at the basic rental rates entered by him in the Schedule of Daywork Rates for constructional plant. The said rates shall be deemed to include complete allowance for depreciation, interest, indemnity and insurance, repairs, maintenance, supplies, fuel, lubricants, and other consumables, and all overhead, profit and administrative costs related to the use of such equipment. The cost of drivers, operators and assistants will be paid for separately as described under the section on Daywork Labour.
6. In calculating the payment due to the Contractor for constructional plant employed on Daywork, only the actual number of working hours will be eligible for payment, except that where applicable and agreed with the Engineer, the travelling time from the part of the Site where the constructional plant was located when ordered by the Engineer to be employed on Daywork and the time for return journey thereto shall be included for payment.
7. The basic rental rates for constructional plant employed on Daywork shall be stated in Pakistani Rupees.

Appendix-D to Bid

SCHEDULE OF DAYWORK RATES

III. Constructional Plant

Item No.	Description	Unit	Nominal Quantity	Rate (Rs.) in Figure	Rate Rs.) in Words	Extended Amount (Rs.)
1	2	3	4		5	6
D301	Excavator ,face shovel or dragline:					
	1. Up-to and including 1 Cu.M.	Hr	100			
	2. Over 1 Cu.M to 2 Cu. M.	Hr	100			
	3. Over 2 Cu. M	Hr	50			
D302	Tractor (tracked) including bull or angle dozer:					
	1. Up-to and including 150 HP	Hr	100			
	2. Over 150 to 200 HP	Hr	100			
	3. Over 200 to 250 HP	Hr	50			
D303	Tractor with ripper:					
	1. Up-to and including 200 HP	Hr	100			
	2. Over 200 to 250 HP	Hr	50			
D304	-----etc-----					
	Total for Daywork: Constructional Plant _____ (Carried forward to Daywork Summary)					

Appendix-D to Bid

DAYWORK

Summary (Daywork)

		Amount (Rs.)
(I)	Total for Daywork: Labour	_____
(II)	Total for Daywork : Materials	_____
(III)	Total for Daywork: Constructional Plant	_____
Total for Daywork (Carried forward to Summary Page of Bill of Quantities)		_____

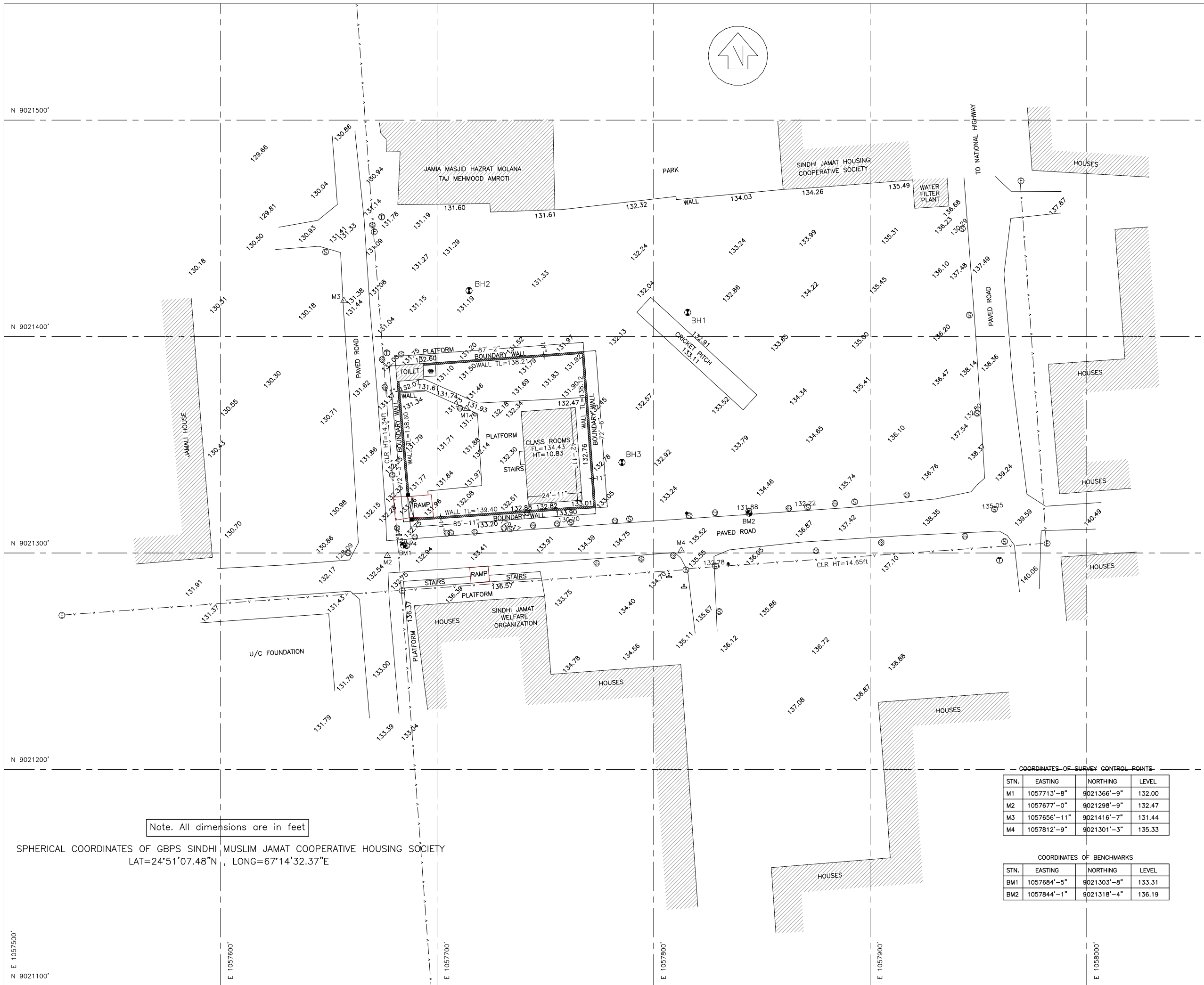
4 –SUMMARY OF COST

SINDH BASIC EDUCATION PROGRAM
CONSTRUCTION OF NEW SCHOOLS AND UPGRADATION OF EXISTING SCHOOLS
Package- 05: Karachi City - Bin Qasim & Gadap Towns
SUMMARY OF COST

S.No.	Items	General	Civil	Electrical	Plumbing	External Development	Grand Total
		Amount (PKR)	Amount (PKR)	Amount (PKR)	Amount (PKR)	Amount (PKR)	(PKR)
1	GBPS SINDHI JAMAAT CO-OPERATIVE HOUSING SOCIETY Bin Qasim Town						-
2	GBSS CATTLE COLONY Bin Qasim Town						-
3	GBELS WARIO GABOLE GOTH Gadap Town						-
4	GBSS YOUSUF GOTH Gadap Town						-
5	GBHS DUMBA VILLAGE Gadap Town						-
Sub Total of School Buildings							-
12	DAY WORK						-
Total Bid Price (Rs.)							-

ANNEXURE-1

BOREHOLE PLANS & LOGS



Note. All dimensions are in feet

SPHERICAL COORDINATES OF GBPS SINDHI MUSLIM JAMAT COOPERATIVE HOUSING SOCIETY
 LAT=24°51'07.48"N , LONG=67°14'32.37"E

COORDINATES OF SURVEY CONTROL POINTS

STN.	EASTING	NORTHING	LEVEL
M1	1057713'-8"	9021366'-9"	132.00
M2	1057677'-0"	9021298'-9"	132.47
M3	1057656'-11"	9021416'-7"	131.44
M4	1057812'-9"	9021301'-3"	135.33

COORDINATES OF BENCHMARKS

STN.	EASTING	NORTHING	LEVEL
BM1	1057684'-5"	9021303'-8"	133.31
BM2	1057844'-1"	9021318'-4"	136.19

LEGEND:

SURVEY CONTROL POINT	△
BENCHMARK	⊕
ELECTRIC POLE	⊙
LIGHT POLE	⊕
TELEPHONE POLE	⊙
TREE	⊗
COCONUT TREE	⊗
HAND PUMP	↑
GATE	⊢
SEWERAGE MANHOLE	⊙
COLUMN	■
PAVED ROAD	▬▬▬▬
WALKWAY	▬▬▬▬▬▬
BOUNDARY WALL	▬▬▬▬▬▬▬▬
SEWERAGE PIPELINE	▬▬▬▬▬▬▬▬
GRILL	▬▬▬▬▬▬▬▬
POWER LINE	▬▬▬▬▬▬▬▬
FLOOR LEVEL	FL=134.43
SPOT LEVEL	133.79
WALL TOP LEVEL	WALL TL=136.21
BORE HOLE (EXISTING)	⊕EBH
BORE HOLE (PROPOSED)	⊕BH



DATUM DESCRIPTION:
 HORIZONTAL & VERTICAL DATUM DERIVED BY HAND HELD
 MAGELLAN GPS.

PROJECT
**A&E SERVICES FOR SINDH
 BASIC EDUCATION PROGRAM**

DRAWING
GBPS SINDHI MUSLIM JAMAT COOPERATIVE HOUSING SOCIETY
 Tentative Bore Hole Plan

BOREHOLE LOGS



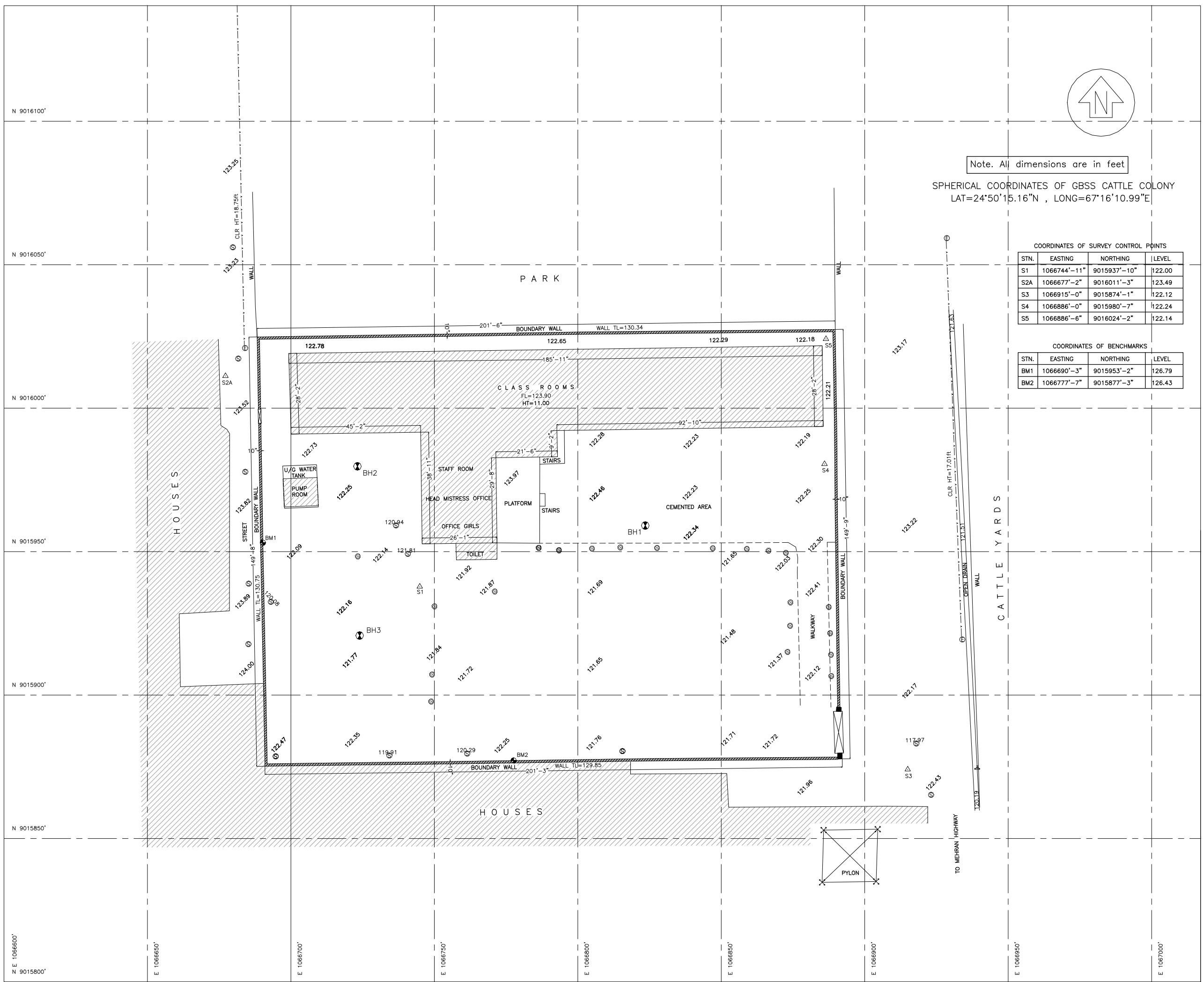
Soil Testing Services

SUBSURFACE EXPLORATION LOG

Start date : 04.02.2014	Casing diameter:	N/A
End date : 04.02.2014		
Drilling method Rotary	Borehole diameter:	4-inch
		BOREHOLE No. BH-1 Coordinates : E : - N : - Ground Level : 2-ft below road level Groundwater level : 4-ft

Date and time	Casing Depth (ft)	Depth to water (ft)	Sample details			Rock Core		Description of strata	Depth (thickness) (ft)	CR% / SPT Graph	Legend
						CR %	RQD %				
			Depth (ft) from to	Type	No.	Blows / N	Drive (mm)/ UDC				
		▽ GWL @ 4-ft									
			0.00					Ground Surface			
			3.00	SPT	1	14	450	SAND Yellowish brown, medium dense, silty fine to coarse SAND, embedded with clay.			
			6.00	SPT	2	11	450				
				SPT	3	13	450				
			9.00								
				SPT	4	43	450				
			12.00								
			15.00	SPT	5	100	200	CLAY Yellowish brown, stiff to hard, silty CLAYEY silt /sandy silty shale			
			18.00								
			21.00	SPT	6	100	200				
			24.00								
				SPT	7	100	200				
			27.00								
			30.00	SPT	8	100	200	Bottom of BH-1 at 30-feet			

Remarks: SPT : Standard Penetration Test CR : Core Recovery RQD : Rock Quality Designation	Logged by Aqil Shah Compiled by S. Altaf Hussain Checked by M. Abid Azhar
Project : Geotechnical Investigation for GBPS Sindhi Muslim Jamat Cooperative Housing Society, Bin Qasim Town, Karachi	Project No. K14-1009-101
	Sheet No. 1 of 1



Note. All dimensions are in feet

SPHERICAL COORDINATES OF GBSS CATTLE COLONY
 LAT=24°50'15.16"N , LONG=67°16'10.99"E



COORDINATES OF SURVEY CONTROL POINTS

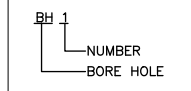
STN.	EASTING	NORTHING	LEVEL
S1	1066744'-11"	9015937'-10"	122.00
S2A	1066677'-2"	9016011'-3"	123.49
S3	1066915'-0"	9015874'-1"	122.12
S4	1066886'-0"	9015980'-7"	122.24
S5	1066886'-6"	9016024'-2"	122.14

COORDINATES OF BENCHMARKS

STN.	EASTING	NORTHING	LEVEL
BM1	1066690'-3"	9015953'-2"	126.79
BM2	1066777'-7"	9015877'-3"	126.43

LEGEND:

SURVEY CONTROL POINT	△
BENCHMARK	⊕
ELECTRIC POLE	⊙
LIGHT POLE	⊕
TELEPHONE POLE	⊕
TREE	⊙
COCONUT TREE	⊕
HAND PUMP	↑
GATE	⊕
SEWERAGE MANHOLE	⊕
COLUMN	■
PAVED ROAD	▬▬▬▬▬▬
WALKWAY	⋯⋯⋯⋯⋯
BOUNDARY WALL	▬▬▬▬▬▬
SEWERAGE PIPELINE	⋯⋯⋯⋯⋯
GRILL	⊕
POWER LINE	⋯⋯⋯⋯⋯
FLOOR LEVEL	FL=123.90
WALL TOP LEVEL	WALL TL=130.34
SPOT LEVEL	121.48
BORE HOLE (EXISTING)	⊕ EBH
BORE HOLE (PROPOSED)	⊕ BH



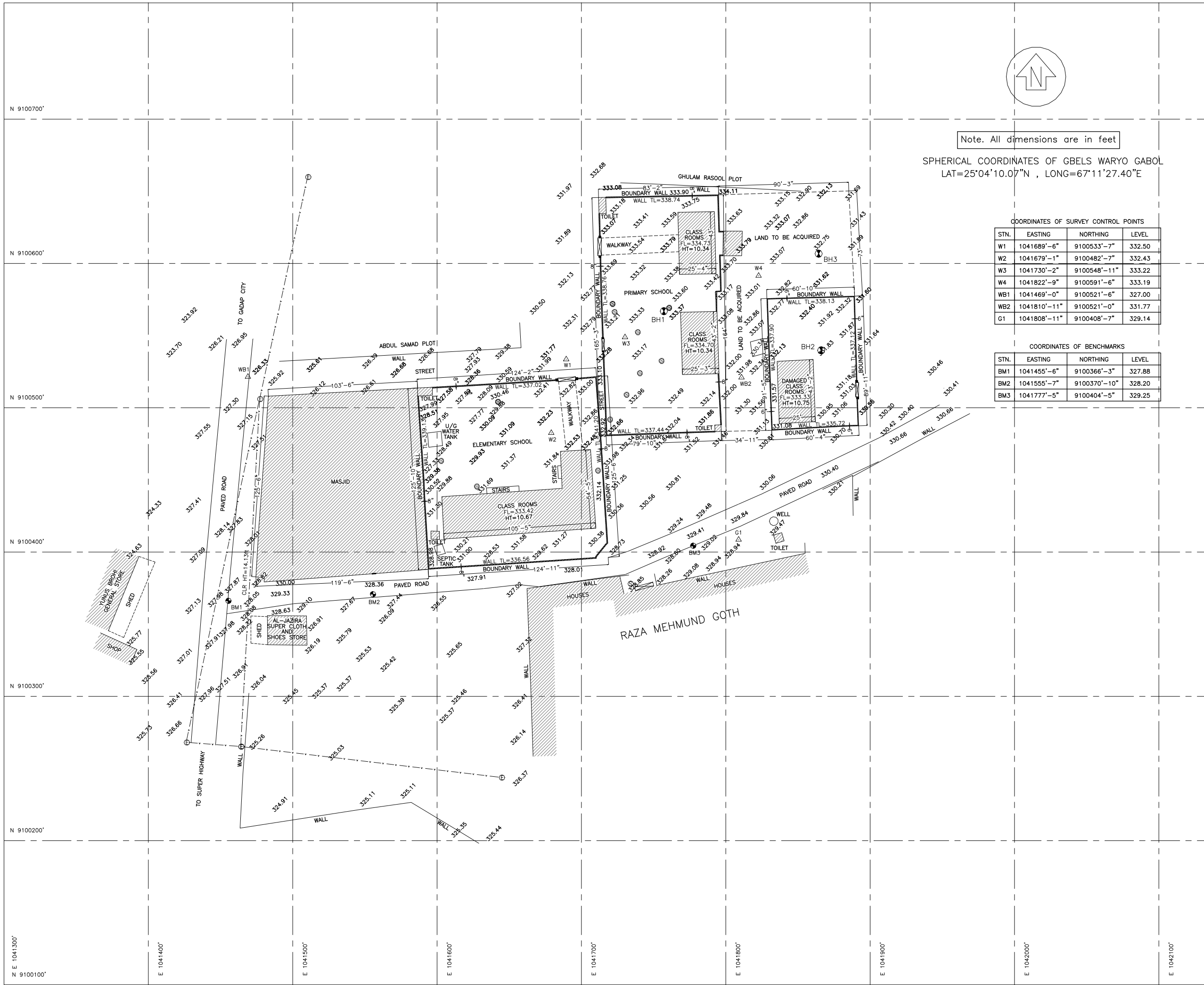
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HORIZONTAL & VERTICAL DATUM DERIVED BY HAND HELD MAGELLAN GPS.

PROJECT
**A&E SERVICES FOR SINDH
 BASIC EDUCATION PROGRAM**

DRAWING
**GBSS CATTLE COLONY
 Tentative Bore Hole Plan**

BOREHOLE LOGS



Note. All dimensions are in feet

SPHERICAL COORDINATES OF GBELS WARYO GABOL
 LAT=25°04'10.07"N , LONG=67°11'27.40"E

COORDINATES OF SURVEY CONTROL POINTS

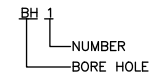
STN.	EASTING	NORTHING	LEVEL
W1	1041689'-6"	9100533'-7"	332.50
W2	1041679'-1"	9100482'-7"	332.43
W3	1041730'-2"	9100548'-11"	333.22
W4	1041822'-9"	9100591'-6"	333.19
WB1	1041469'-0"	9100521'-6"	327.00
WB2	1041810'-11"	9100521'-0"	331.77
G1	1041808'-11"	9100408'-7"	329.14

COORDINATES OF BENCHMARKS

STN.	EASTING	NORTHING	LEVEL
BM1	1041455'-6"	9100366'-3"	327.88
BM2	1041555'-7"	9100370'-10"	328.20
BM3	1041777'-5"	9100404'-5"	329.25

LEGEND:

SURVEY CONTROL POINT	△
BENCHMARK	●
ELECTRIC POLE	⊕
LIGHT POLE	⊕
TELEPHONE POLE	⊕
TREE	⊗
COCONUT TREE	⊗
HAND PUMP	↑
GATE	⊢
SEWERAGE MANHOLE	⊙
COLUMN	■
PAVED ROAD	▬▬▬▬▬▬
WALKWAY	▬▬▬▬▬▬
BOUNDARY WALL	▬▬▬▬▬▬
SEWERAGE PIPELINE	▬▬▬▬▬▬
GRILL	▬▬▬▬▬▬
POWER LINE	▬▬▬▬▬▬
FLOOR LEVEL	FL=333.42
SPOT LEVEL	330.81
WALL TOP LEVEL	WALL TL=336.56
BORE HOLE (EXISTING)	⊕ EBH
BORE HOLE (PROPOSED)	⊕ BH



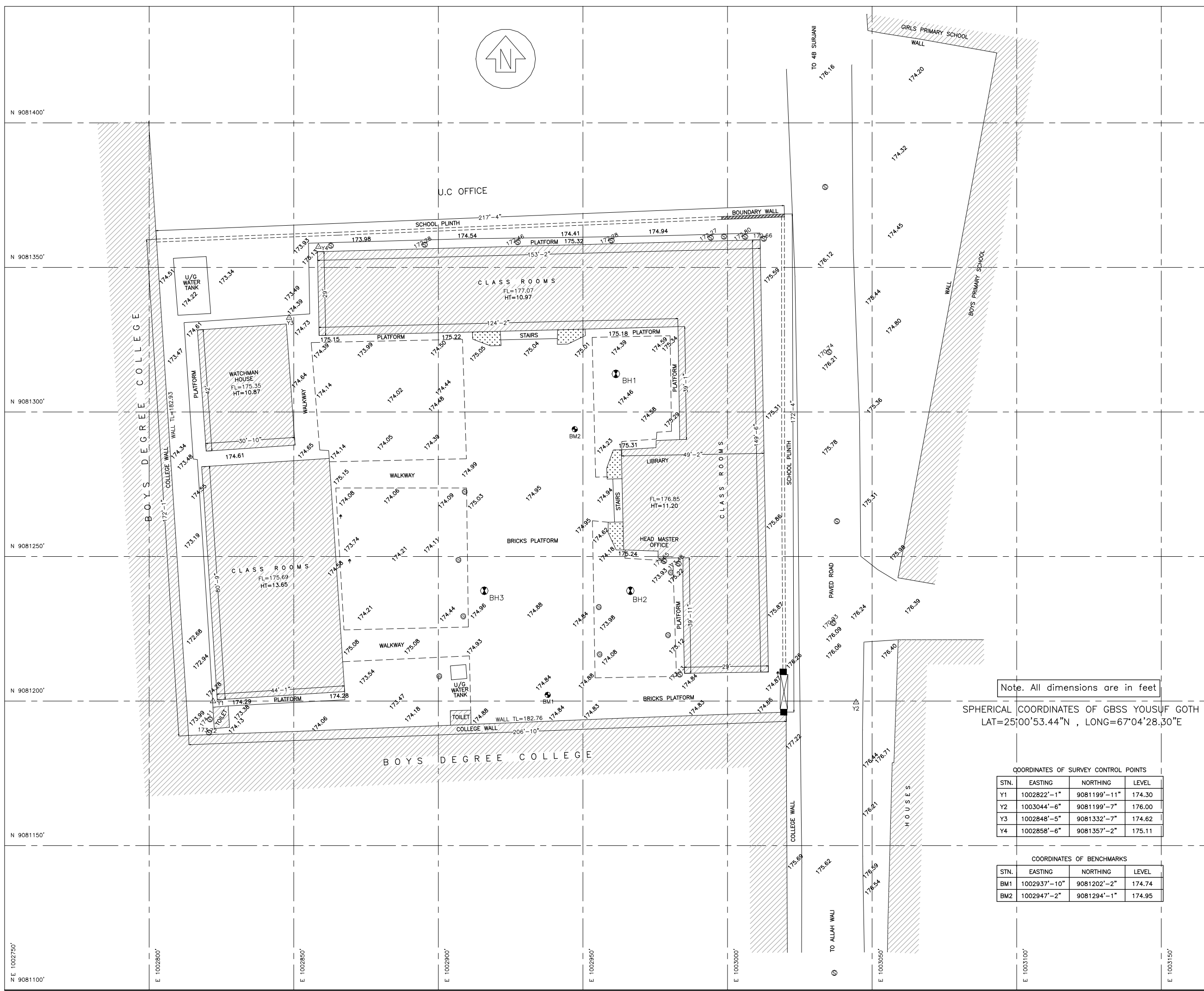
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HORIZONTAL & VERTICAL DATUM DERIVED BY HAND HELD MAGELLAN GPS.

DRAWING
 GBELS WARYO GABOL FINAL
 Tentative Bore Hole Plan

BOREHOLE LOGS

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 Last saved: Thu, 24 Apr 2014 04:28 pm
 PLOTTED BY: : jahmed2
 Plot Layout : Model



LEGEND:

SURVEY CONTROL POINT	△
BENCHMARK	⊕
ELECTRIC POLE	⊙
LIGHT POLE	⊙
TELEPHONE POLE	⊙
TREE	⊙
COCONUT TREE	⊙
HAND PUMP	⊙
GATE	⊙
SEWERAGE MANHOLE	⊙
COLUMN	■
PAVED ROAD	▬▬▬▬
WALKWAY	- - - - -
BOUNDARY WALL	▨▨▨▨
SEWERAGE PIPELINE	▬▬▬▬
GRILL	▬▬▬▬
POWER LINE	▬▬▬▬
FLOOR LEVEL	FL=176.85
WALL TOP LEVEL	WALL TL=182.76
SPOT LEVEL	174.88
BORE HOLE (EXISTING)	⊕BH
BORE HOLE (PROPOSED)	⊕BH



DATUM DESCRIPTION:
 HORIZONTAL & VERTICAL DATUM DERIVED BY HAND HELD MAGELLAN GPS.

Note. All dimensions are in feet
 SPHERICAL COORDINATES OF GBSS YOUSUF GOTH
 LAT=25°00'53.44"N , LONG=67°04'28.30"E

COORDINATES OF SURVEY CONTROL POINTS

STN.	EASTING	NORTHING	LEVEL
Y1	1002822'-1"	9081199'-11"	174.30
Y2	1003044'-6"	9081199'-7"	176.00
Y3	1002848'-5"	9081332'-7"	174.62
Y4	1002858'-6"	9081357'-2"	175.11

COORDINATES OF BENCHMARKS

STN.	EASTING	NORTHING	LEVEL
BM1	1002937'-10"	9081202'-2"	174.74
BM2	1002947'-2"	9081294'-1"	174.95

PROJECT
**A&E SERVICES FOR SINDH
 BASIC EDUCATION PROGRAM**

DRAWING
GBSS YOUSUF GOTH
 Tentative Bore Hole Plan

BOREHOLE LOGS



Soil Testing Services

SUBSURFACE EXPLORATION LOG

Start date : 26.02.2014 End date : 26.02.2014	Casing diameter: <p style="text-align: center;">N/A</p>	BOREHOLE No. BH-3 Coordinates : E :- N :- Ground Level : 2-ft below road level Groundwater level : 5-ft
Drilling method Rotary	Borehole diameter: 4-inch	

Date and time	Casing Depth (ft)	Depth to water (ft)	Sample details			Rock Core		Description of strata	Depth (thickness) (ft)	CR% / SPT Graph	Legend
						CR %	RQD %				
			Depth (ft) from to	Type	No.	Blows / N	Drive (mm)/ UDC				
		▽									
	N/A	GWL @ 5-ft	0.00					Ground Surface			
			3.00	SPT	1	6	450	CLAY Brown, medium stiff, silty CLAY/clayey silt, traces of fine sand			
			6.00	SPT	2	9	450	CLAY Yellowish brown, very stiff to hard, silty CLAY/clayey silt, traces of organic material at places			
			9.00	SPT	3	25	450				
			12.00	SPT	4	100	300				
			15.00	SPT	5	100	250				
			18.00	UDC	1			CLAYSTONE Yellowish brown, very weak, weathered & fractured, CLAYSTONE, interbedded thin layer of siltstone and organic material at places			
			21.00	Run	1	50	33				
			24.00	UDC	2						
			27.00	Run	2	70	42				
			30.00	UDC	3						
				Run	3	53	26				
								Bottom of BH-3 at 30-feet			

Remarks: SPT : Standard Penetration Test CR : Core Recovery RQD : Rock Quality Designation	Logged by Aqil Shah Compiled by S. Altaf Hussain Checked by M. Abid Azhar
Project : Geotechnical Investigation for GBSS Yousaf Goth (Option-I) Gadap Town, Karachi	Project No. K14-1009-101 Sheet No. 1 of 1



Note. All dimensions are in feet

SPHERICAL COORDINATES OF GBHS DUMBA VILLAGE
 LAT=24°58'25.30"N , LONG=67°15'33.70"E



LEGEND:

SURVEY CONTROL POINT	△
BENCHMARK	⊕
ELECTRIC POLE	⊙
LIGHT POLE	⊙
TELEPHONE POLE	⊙
TREE	⊙
COCONUT TREE	⊙
HAND PUMP	⊙
GATE	⊙
SEWERAGE MANHOLE	⊙
COLUMN	■
PAVED ROAD	—
WALKWAY	- - -
BOUNDARY WALL	▨
SEWERAGE PIPELINE	—
GRILL	—
POWER LINE	—
FLOOR LEVEL	FL=203.34
SPOT LEVEL	209.43
WALL TOP LEVEL	WALL TL=218.89
BORE HOLE (EXISTING)	⊕BH
BORE HOLE (PROPOSED)	⊕BH



DATUM DESCRIPTION:
 HORIZONTAL & VERTICAL DATUM DERIVED BY HAND HELD
 MAGELLAN GPS.

COORDINATES OF SURVEY CONTROL POINTS

STN.	EASTING	NORTHING	LEVEL
DK1	1063942'-6"	9065445'-9"	212.89
DK2	1063929'-6"	9065373'-11"	211.81
DK3	1064047'-11"	9065596'-1"	212.04
DK4	1064034'-7"	9065481'-10"	212.77
DK5	1064120'-10"	9065577'-2"	209.18
DS1	1063860'-7"	9065445'-9"	210.00
DS2	1063841'-8"	9065303'-1"	211.81
DS3	1063868'-8"	9065591'-6"	212.58
DS4	1064001'-1"	9065337'-9"	213.65
DS5	1063967'-4"	9065621'-5"	212.05
DS6	1064019'-6"	9065636'-0"	211.29
DS7	1064146'-10"	9065669'-6"	205.02
DS9	1064170'-1"	9065597'-4"	205.54

COORDINATES OF BENCHMARKS

STN.	EASTING	NORTHING	LEVEL
BM1	1063976'-1"	9065458'-6"	213.59
BM2	1064087'-0"	9065572'-8"	213.30
BM3	1064072'-8"	9065610'-11"	213.38

PROJECT
**A&E SERVICES FOR SINDH
 BASIC EDUCATION PROGRAM**

DRAWING
GBHS DUMBA VILLAGE
 Tentative Bore Hole Plan

CAD Ref: \SSEP Title_Sheet (A1).dwg
 Last saved: Thu, 24 Apr 2014 04:16 pm
 PLOTTED BY: jahmed2
 Plot Layout: Model

BOREHOLE LOGS



Soil Testing Services

SUBSURFACE EXPLORATION LOG

Start date : 17.02.2014 End date : 17.02.2014	Casing diameter: <p style="text-align: center;">N/A</p>	BOREHOLE No. BH-3 Coordinates : E :- N :- Ground Level : 4.5-ft above road level Groundwater level : N/A
Drilling method Rotary	Borehole diameter: <p style="text-align: center;">4-inch</p>	

Date and time	Casing Depth (ft)	Depth to water (ft)	Sample details			Rock Core		Description of strata	Depth (thickness) (ft)	CR% / SPT Graph	Legend	
						CR %	RQD %					
			Depth (ft) from to	Type	No.	Blows / N	Drive (mm)/ UDC					SPT
			0.00									
			3.00	SPT	1	47	450	SAND Yellowish brown, very dense, silty fine to coarse SAND, traces of gravels				
			6.00	SPT	2	52	450					
				SPT	3	41	450					
			9.00					SANDSTONE Brown, dense to very dense, friable SANDSTONE, interbedded thin layer of clay				
			12.00	SPT	4	50	450					
			15.00	SPT	5	100	300	SANDSTONE Brown, extremely weak to very weak, friable SANDSTONE/CLAYSTONE				
			18.00									
			21.00	SPT	6	100	200					
			24.00	Run	1	40	Nil					
			27.00	Run	2	53	46					
			30.00					Bottom of BH-3 at 30-feet				

Remarks: SPT : Standard Penetration Test CR : Core Recovery RQD : Rock Quality Designation	Logged by Aqil Shah Compiled by S. Altaf Hussain Checked by M. Abid Azhar
Project : Geotechnical Investigation for GBHS Dumba Village (Option-2) Gadap Town, Karachi	Project No. K14-1009-101 Sheet No. 1 of 1

ANNEXURE-2

APPROVED SUPPLIERS / MANUFACTURERS

1 Civil Works

S.No.	Material Description	Identified source	Remarks
1	Sand for concrete & masonry.	Bholari, Kotri Nooriabad, Super Highway	Only two sources in Sindh meet standard requirements.
2	Coarse Aggregate for concrete	Ubban Shah, Khairpur Kashmore Lucky Shah Sadar, Jamshoro Hub river, Karachi Attock cement quarry, Hub	Yousufzai crusher Adda more crusher Lucky Shah crusher Noorul Haq Masood crusher Noorul Haq Masood crusher
3	Cement (Slag) Cement (OPC)	Thatta Cement Thatta Cement Kohat Cement Maple Leaf cement Fecto cement D.G.Khan cement Pak-Cem cement Falcon Cement Lucky Cement	Thatta Factory Thatta Factory Kohat Factory Sikadarabad, Mianwali Taxilla D.G.Khan & Chakwal Chakwal Attock cement factory, Hub Nooriabad, Karachi
4	Water for mixing and curing of concrete.	Local, municipal supply Sub-soil water (if suitable) Canal, (after settlement of silt) Treated brackish sub-soil water	Prior approval is essential before use.

S.No.	Material Description	Identified source	Remarks
5	Admixtures	Sika BASF Berdex from Burger Schomberg PAGEL FOSROC abe (South Africa)	Only those admixtures will be allowed which are imported in ready to use condition Or If blended locally by the dealer under the licence of principal. The principal will hold responsibility of quality. In such case copy of agreement and QA certificate from principal will be required from local dealer.
6	Anti-termite chemical	Mirage Agenda 25 EC	Ali Akbar Group Jaffer Brothers
7	Reinforcement Steel	Agha Steel, Karachi Razzaq steel, Karachi Amreli Steel, Karachi Mughal steel, Lahore Afco, steel, Lahore Ittefaq steel, Lahore City steel, Lahore	Steel should meet ASTM A-615, Grade-60 requirements. Factory test results (physical and chemical) will be required with each consignment for all size of bars according to heat numbers.
8	Crushed aggregate Base / Sub-base course.	Ubban Shah, Khairpur Kashmore Lucky Shah Sadar, Jamshoro Hub river, Karachi Attock cement quarry	Yousufzai crusher Adda more crusher Lucky Shah crusher Noorul Haq Masood crusher Noorul Haq Masood crusher
9	Clay bricks (Facing) Clay bricks (Building)	Gomal, Rahimyar Khan Gomal, Rahimyar Khan Ittehad, Rahimyar Khan Arif, Rahimyar Khan Zaman, Hyderabad	Bricks meet ASTM C-216 requirement Bricks of all kiln meet ASTM C-62 requirement.

S.No.	Material Description	Identified source	Remarks
10	Precast concrete blocks (hollow & solid), pavers and kerb stones.	Envicrete, Karachi Magnacrete, Karachi Caracrete, Karachi Primecrete, Karachi	Quality of all manufacturers meet standard requirement.
11	Ready Mix Concrete	Atlas, Karachi Safe Mix, Karachi	No commercial ready mix concrete plant is available in other 7-Districts of Sindh where schools are going to be built under SBEP.
12	Machine made blocks (Compressed Soil-Cement Masonry Units)	Eco blocks, Islamabad	Single manufacturer
13	Pre-cast Concrete Slab Panel	Izhar Constructors (Pvt.) Ltd, Lahore and Karachi	Or Equivalent
14	Clay Tiles	Multan	Various manufacturers
15	Steel T-Iron & Girders	Jamal Steel, Lahore Abbas Steel, Karachi	Or Equivalent
16	Water stops	Sika DECORA	Or Equivalent

2 Architectural Works

S.No.	Material Description	Identified Sources	Remarks
1	Flooring (terrazzo tiles)	AL Mohammadi Tiles Matrix Tiles	OR Equivalent
2	Skirting / Dado	Al Mohammadi Tiles Matrix Tiles	
3	Flooring (washroom tiles)	Porcelenato RAK Shabbir Master EMCO	OR Equivalent
4	Paint	ICI Berger Nelson Juton Nippon	OR Equivalent
5	Wooden Doors, Windows and Hand rails	Sheesham Red meranti Diyar Beech Pine wood	
6	Aluminium Doors, Windows and Ventilators	Lucky Pakistan Cable Alcop Thermac	OR Equivalent
7	PVC Doors and Windows	FRAMEZ AVT Alfapen	OR Equivalent
8	Mild Steel Doors Windows	Local work shops MS "Z" section	
9	Glass & Glazing	Ghani Glass Fateh Glass Pakistan Safety Glass Imported from Saudia	OR Equivalent
10	C.C. Lattice	Local Source as approved	

S.No.	Material Description	Identified Sources	Remarks
11	Waterproofing	Sika Fosroc BASF Schomberg Abe (South Africa) PAGEL	OR Equivalent imported
12	Roof Insulation	Plastic local soil	2-inch thick as per local tradition
13	Polyurethane foam Polystyrene foam	Master Chemicals Diamond Foam Imported material	OR Equivalent
14	Protection of insulation.	Clay tiles	First class from Multan & Hala
15	Hardware / Iron Monger Door Locks Hinges Door Stopper Handle with latches KIK / Push Plate Tower Bolt	J.B. Saeed Union Yale Mandali Korean	OR Equivalent best quality
16	Epoxy, Sealants and Repair materials	Sika Fosroc BASF Schomberg PAGEL Abe (South Africa)	OR Equivalent
17	Color Crete	Ressichem Rehan & Co. Textures	
18	Lasbela Stone	Pak Stones Zafar Baloch Stone World	

3 Water Supply & Sanitation

S.No.	Material Description	Identified Sources	Remarks
1	Plumbing Fixtures	Sonex Master Porta Asia	OR Equivalent
2	Pipes & Fittings PVC G.I Pipe	AGM JEDDAH DADEX Paklite IIL	OR Equivalent

4 Electrical Works

S.No	Material Dexion	Approved Sources	Remarks
1	PVC conduits and accessories	Galco Dadex Civic	
2	G.I. Pipe	IIL Steelex	
3	Back-Boxes & Pull Boxes	Ezzi Engineering A to Zee Britlite	
4	Earthing & Lightning Protection Systems	Wallis W.J Furse LPI-Australia Application Technology -Spain	
5	MV/LV cables & wires.	Pakistan cables New Age cables	
6	Ceiling/Wall bracket fans	Millat Fans Pak Fans Royal Fans	
7	Light Fixtures	Philips Pierlite Britlite	
8	Lamps/ LED	Philips Osram Clipsal	
9	Ballast/ Choke	Philips Clipsal	
10	Wiring Accessories (switches & sockets)	Clipsal MK ABB	
11	Telephone & Data sockets	Clipsal 3M	
12	Voice/Data Structured Cabling System	Clipsal 3M Seimens	
13	Stand alone Fire alarm system	Esser by Honey Well Germany Bosch Every Day GST-UK	

S.No	Material Description	Approved Sources	Remarks
14	Public Address System	Optimus JD Media TOA Japan Bouyer -France	
15	Distribution Boards	PEL Libra Engineering Areva Hussain & Co.	
16	Cable Tray/ trunking , ladder & accessories	Ezzi Engineering A to Zee Britlite CECL	
17	Co-axial Cable	3M-USA Clipsal	
18	MATV System	3M-USA WISI -USA	

ANNEXURE-3

TENDER ANALYSIS FORMAT

CONSTRUCTION OF SCHOOLS UNDER
SINDH BASIC EDUCATION PROGRAM

Annexure-3

TENDER ANALYSIS																																		
ID of Analysis	BOQ Ref	Description					Unit	UNIT COST										Qty	TOTAL COST															
		Per Unit		Material	Labour	T & P		Sub-contract	Wastage/ Others	T. Basic Cost	O/H 0%	Profit 0%	W/h Tax 6%	Total Selling	Material	Labour	T & P		Sub-contract	Wastage /Others	T. Basic Cost	O/H	Profit	WH Tax	Total Selling									
		Qty	Rate																															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28							
ONLY AN EXAMPLE - NOT TO BE QUOTED																																		
	X	OP Cem	0.17	340	bags		57.80			2.43																								
		Sand	0.45	6	cft		2.70			6.39																								
		Agg	0.90	8.5	cft		7.65	1.41		4.05																								
		Water	0.6	0.06	ltr		0.03	0.76		1.00	<--- Vib																							
		Admixtures					2.80																											
							70.98	2.17	13.87	-	-	87.0	-	-	5.22	92	100	7,098	217	1,387	-	-	8,702	-	-	522	9,224							
																	TOTAL																	

Attach as many sheets as required

CONTRACT AGREEMENT

Contract Amount: PKR 326,922,254/- (Three hundred twenty six million, nine hundred twenty two thousand and two hundred fifty four only).

Bid Reference: SBEP-P05-KHI-1.

NIT # SBEP/USAID/PD/1027/2014

THIS CONTRACT AGREEMENT (hereinafter called the “Agreement”) made on the xst day of

January 2015 between **Program Management and Implementation Unit (PMIU) Sindh Basic**

Education Program, Education & Literacy Department, Government of Sindh (hereafter

called the “Employer”) of the one part and **M/s Badar Engineering Works having their**

registered offices at C-175, Block 9, Gulshan-E-Iqbal, Near Aziz Bhatti Park, Karachi

(hereafter called the “Contractor”) of the other part.

WHEREAS the Employer is desirous that certain Works, viz **Package 05: Construction of Five**

(05) Schools in Karachi, (Bin Qasim Town & Gadap) comprising of following schools:

i. P05-KHI-37 GBPS Sindhi Jamaat Co-operative Housing Society (Bin Qasim Town)

ii. P05-KHI-38 GBSS Cattle Colony (Bin Qasim Town)

iii. P05-KHI-39 GBELS Waryo Gabol (Gadap Town)

iv. P05-KHI-40 GBSS Yousuf Goth (Gadap Town)

v. P05-KHI-41 GBHS Dumba Village (Gadap Town)

Construction of double storey building with complete civil works including structural,

architectural, plumbing, water supply, sewerage networks and related electrical and mechanical

works along with external and landscaping works as described in the Drawings and Bill of

Quantities in detail should be executed by the Contractor and has accepted a Bid by the

Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW this Agreement witnessed as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents after incorporating addenda, if any, except those parts relating to Instructions to Bidders shall be deemed to form and be read and construed as part of this Agreement, viz:
 - (a) The Contract Agreement;
 - (b) The Letter of Acceptance;
 - (c) The completed Form of Bid (FB – 1);
 - (d) Special Stipulations (Appendix-A to Bid);
 - (e) The Particular Conditions of Contract Part II
 - (f) The General Conditions – Part I;
 - (g) The priced Bill of Quantities (Appendix-D to Bid);
 - (h) The completed Appendices to Bid (B, C, E to L);
 - (i) The Drawings;
 - (j) The Specifications.
 - (k) Addendum 1 (Minutes of Pre Bid Meeting)
 - (l) _____(Any other)

3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy defects therein in conformity and in all respects with the provisions of the Contract.

4. The Employer hereby covenants to pay the Contractor, in consideration of the execution and completion of the Works as per provisions of the Contract, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

5. Any dispute if so arises during the project life cycle will be amicably resolved with the decisions of mutually agreed arbitrator, which will be decided later on, who has consented to act as Arbitrator if & when needed.

IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed on the day, month and year first before written in accordance with their respective laws.

Signature of the Contactor

Signature of Employer

Name: _____

Name: Tameezuddin Khero

CNIC: _____

CNIC: _____

(Seal)

(Seal)

Signed, Sealed and Delivered in the presence of:

Witness:

Name:_____

Title:_____

Address:_____

Witness:

Name:_____

Title:_____

Address:_____

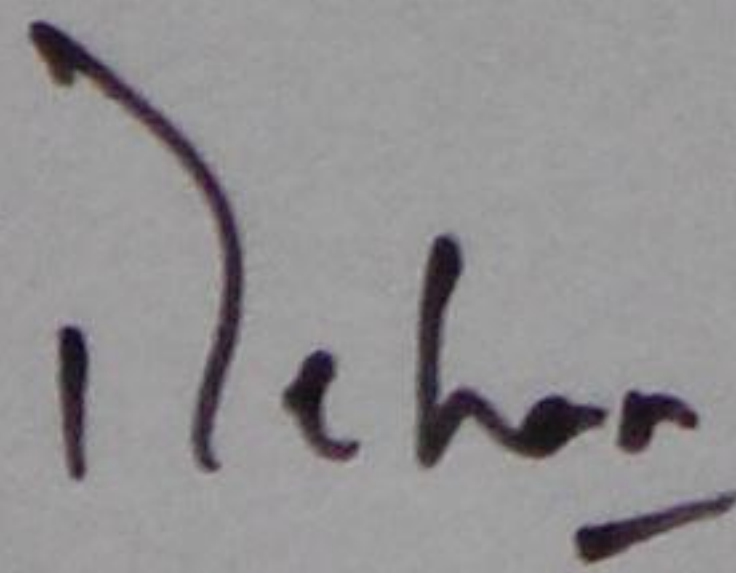
BID EVALUATION REPORT

(In compliance to Rule 45 of SPP Rules 2010)

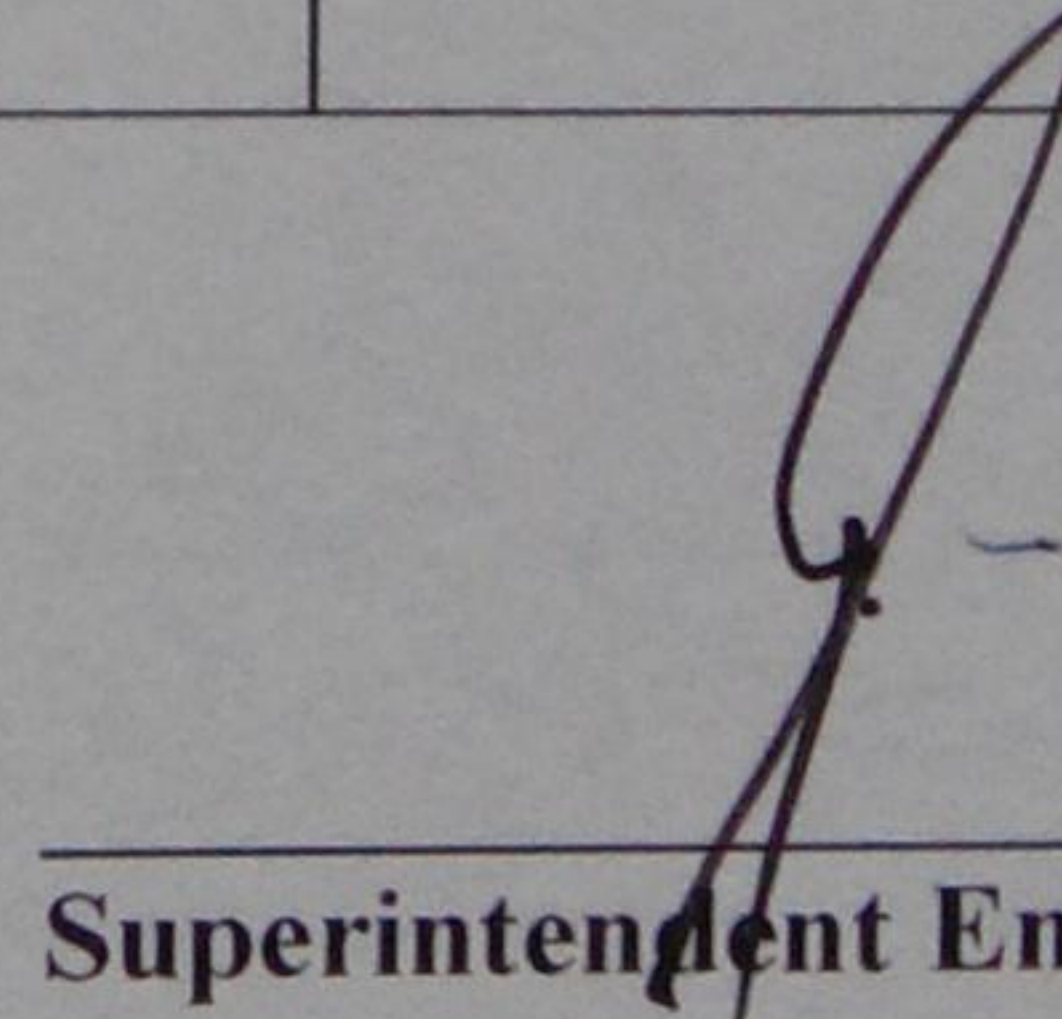
1. Name of Procuring Agency:	Program Management & Implementation Unit, Sindh Basic Education Program, Education & Literacy Deptt. Govt. of Sindh
2. Tender Reference No:	Package No. SBEP-P05-KHI-1
3. Tender Description/Name of Work/Item:	Construction of Five (05) Schools in Karachi (Gadap & Bin Qasim Towns), Package-05
4. Method of Procurement:	Single Stage One Envelope Procedure
5. Tender Published:	Tender Documents issued to all the pre-qualified contractor firms vide Letter No. SBEP/USAID/PD/1027/2014 dated 8 th Sept 2014.
6. Total Bid documents issued:	26
7. Total Bids Received:	04
8. Technical Bid Opening date (if applicable):	N/A
9. No of Bid technically qualified (if applicable):	N/A
10. Bid(s) Rejected:	01
11. Financial Bid Opening date:	16 th October 2014 @ 1530 Hours

12. Bid Evaluation Report:

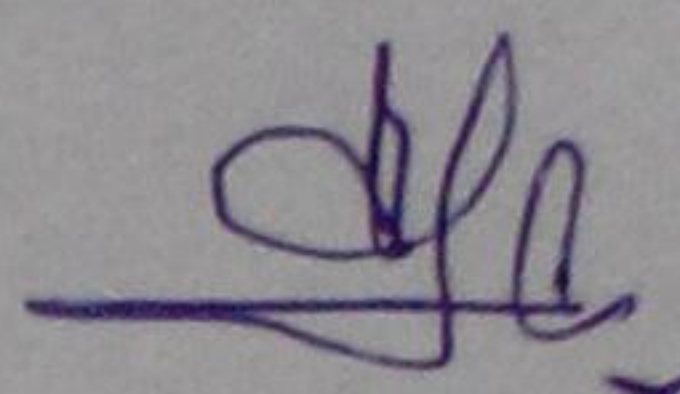
S #	Name of Firm or Bidder	Cost Offered by Bidder (PKR)	Ranking in terms of cost	Comparison with Engr's Estimated Cost	Reasons for acceptance/rejection	Remarks
1	M/s. Shoukat Khan & Company. Lalazar Colony, Mansehra Road Abbottabad.	408,170,343/-	2 nd	18.05% above	Higher Rates	---
2	M/s. Al-Shafi Enterprises. 7/C Sunset Boulevard, Phase-II, DHA, Karachi	501,926,712/-	3 rd	45.16% above	Higher Rates	---
3	M/s. Badar Engineering Works. C-175, Block-9, Gulshan-E-Iqbal, Karachi	326,922,254/-	1 st Lowest	5.59% Below	1 st Lowest evaluated responsive bidder with acceptable market rates	Recommended for award of work
4	M/s. Murtazvi Builders (Pvt.) Ltd. 406, Panorama Centre, Raja Ghazanfar Ali Road, Saddar, Karachi	---	---	---	---	Non- Responsive and rejected as per sub-clause: IB-26.4 of Instructions to Bidders and Rule: 30 (2) & 35 (1) (b) of SPP Rules



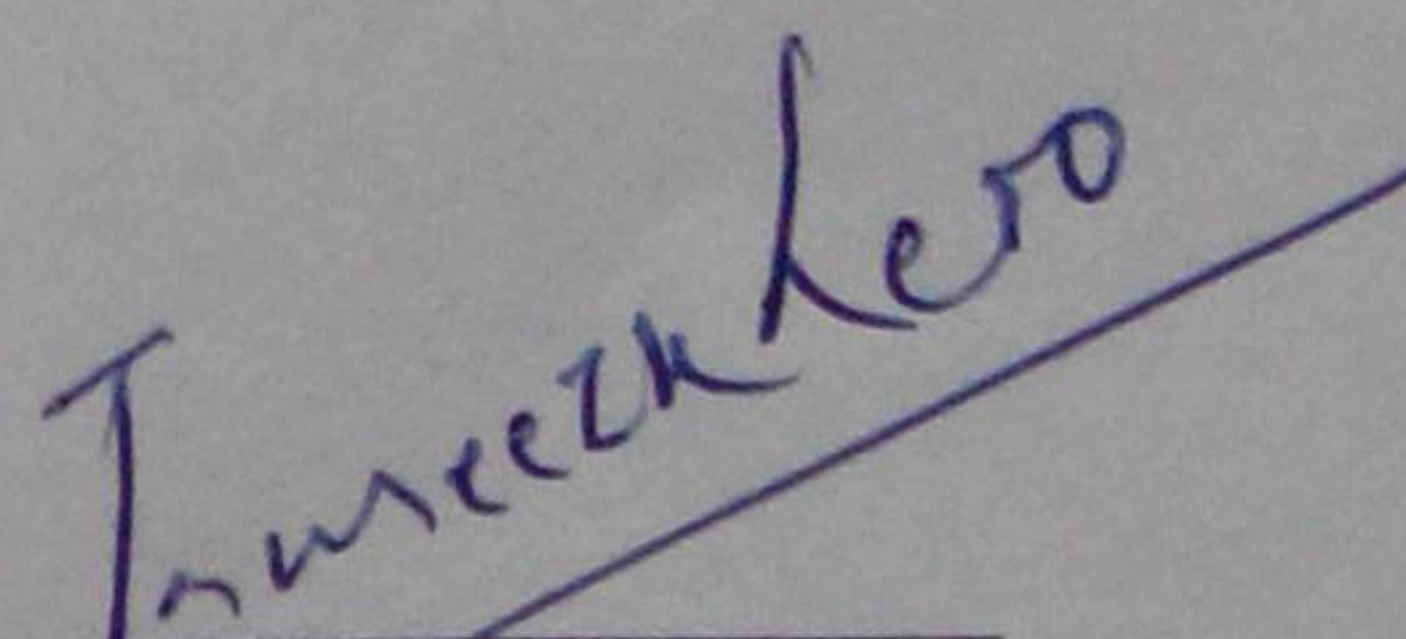
Addl. Secretary (GA/C) (E&L Deptt.)



Superintendent Engineer (W&S)



Rep. of M/s. Halcrow
Co-opted Member



Chairman/Convener of Committee
Program Director, SBEP



USAID-Sindh Basic Education Program
Program Management & Implementation Unit
Education and Literacy Department
Government of Sindh

Tel No. 021-35296931, Fax No. 021-35296935
D-29, Block-2, Clifton Karachi

SBEP/USAID/PD/1270/2014
Karachi, Dated: 01/01/2015

Letter of Acceptance / Award

M/s Badar Engineering Works
C-175, Block -9, Gulshan-e-Iqbal,
Near Aziz Bhatti Park, Karachi,
Pakitan.
Contacts: 92-21-34821159, 92-21-34821160

Subject: Construction of five (05) Schools in Karachi (Package 5).
Notification of Award of Contract of Package No. SBEP-P05-KHI-1

This is to notify that your bid dated 16th October 2014 for construction of (05) Schools in Karachi (Gadap & Bin Qasim Town) under USAID-Sindh Basic Education Program for the accepted contract amount PKR 326,922,254/- (Three hundred and twenty six million, nine hundred and twenty two thousand, two hundred fifty four rupees only) as corrected and modified in accordance with the "Instructions to the Bidders" is hereby accepted.

You are therefore awarded the contract for the subject works and requested to furnish performance security within 14 days in accordance with the conditions of the contract, using for that purpose, the performance security form included in the bidding documents, prepare and sign the contract agreement attached herewith in the time specified in the bidding data and instruction to bidders.

Tameezuddin Khero

(Tameezuddin Khero)
Program Director

Cc:
The Managing Director, SPPRA, Karachi.



USAID-SINDH BASIC EDUCATION PROGRAM
(PROGRAM MANAGEMENT & IMPLEMENTATION UNIT)
EDUCATION AND LITERACY DEPARTMENT
GOVERNMENT OF SINDH

31st Procurement Committee Meeting
Held on 12-12-2014 (11.00 AM)
at PMIU-SBEP, D-29 Clifton, Karachi

Review and approval of Bid Evaluation Report for construction of five (05) schools (Package 05) in Karachi (Gadap & Bin Qasim Town).

S.No	Name	Designation	Department	Contact & Email	Signature
1	Tameezuddin Khero	Program Director	PMIU / SBEP		Tameez Khero
2	Rehan Iqbal Baloch	Add. Secretary (GA/C)	Education & Literacy Dept, Gov of Sindh	0321 2674619	Rehan
3	Chaudhary M. Ali	Superintending Engineer	W&S Department, Gov of Sindh	_____	_____
4	Sohail S. Siddiqui	Chief of Party	Halcrow Pakistan		Sohail
5	Ali Muhammad Memon	Contracts Engineer	Halcrow Pk.	0333-5855503	Ali
6	TARIQ LATIF	HR ADVISOR	PMIU-SBEP	0321 8964593	Tarif
7	Syed Khurram Shehryar	Procurement Officer	PMIU-SBEP	03132020969	Syed
8	Ghupran Shari	CO R	USAID	-	Ghupran
9	Jawid Khawaja	SEA	PMIU	-	Jawid
10	A. Komail Mushtaq	M. CDC	PMIU	-	A. Komail
11	Quratul ain Memon	Program Manager	PMIU	-	Quratul
12	Chowdhry Mohamud Ali	S. E. (Ops)	Ops Dept.	-	Chowdhry



USAID-Sindh Basic Education Program
Program Management & Implementation Unit
Education and Literacy Department
Government of Sindh
Tel No. 021-35296931, Fax No. 021-35296935
D-29, Block-2, Clifton Karachi

SBEP/USAID/PD/ 1242 /2014
Karachi, Dated: 12/12/2014

Minutes of 31st Procurement Committee Meeting of SBEP PMIU

Subject: Review and approval of Bid Evaluation Report for construction of five (05) schools (Package 05) in Karachi (Gadap & Bin Qasim Town).

Bid Reference No: SBEP-05-KHI-1.

Attendance sheet:

a. Attendance sheet attached, Annex A.

1. Proceedings & Decision:

- M/S. Halcrow, the Architect & Engineer for Sindh Basic Education Program presented before the Procurement Committee the Bid Evaluation Report for the bids opened in the 30th Procurement Committee Meeting and recommended M/s. Badar Engineering Works for the award of work being 1st lowest evaluated responsive Bidder.
- M/s. Murtazvi Builders (Pvt.) Ltd has been declared as non-responsive bidder and disqualified as per sub-clause: IB-26.4 of Instructions to Bidders and Rule: 30 (2) & 35 (1) (b) of SPP Rules.
- *The Committee approved the award of work to lowest evaluated responsive bidder: M/s. Badar Engineering Works for the Bid Price of PKR 326,922,254/-*

(Reha Iqbal Baloch)
Member
Add. Secretary (GA/C)
Education & Literacy Dept.

(Chaudhary M. Ali)
Member
Superintending Engineer
Defunct CDGK W&S Department
Government of Sindh

(Sohail S. Siddiqui)
Co-opted Member
Chief of Party
Halcrow Pakistan

(Tameezuddin Khoro)
Chairman Procurement Committee/
Program Director, PMIU, SBEP
Education & Literacy Department

BID EVALUATION REPORT


(In compliance to Rule 45 of SPP Rules 2010)


1. Name of Procuring Agency:	Program Management & Implementation Unit, Sindh Basic Education Program, Education & Literacy Deptt. Govt. of Sindh
2. Tender Reference No:	Package No. SBEP-P05-KHI-1
3. Tender Description/Name of Work/Item:	Construction of Five (05) Schools in Karachi (Gadap & Bin Qasim Towns), Package-05
4. Method of Procurement:	Single Stage One Envelope Procedure
5. Tender Published:	Tender Documents issued to all the pre-qualified contractor firms vide Letter No. SBEP/USAID/PD/1027/2014 dated 8 th Sept 2014.
6. Total Bid documents issued:	26
7. Total Bids Received:	04
8. Technical Bid Opening date (if applicable):	N/A
9. No of Bid technically qualified (if applicable):	N/A
10. Bid(s) Rejected:	01
11. Financial Bid Opening date:	16 th October 2014 @ 1530 Hours


12. Bid Evaluation Report:

S #	Name of Firm or Bidder	Cost Offered by Bidder (PKR)	Ranking in terms of cost	Comparison with Engr's Estimated Cost	Reasons for acceptance/rejection	Remarks
1	M/s. Shoukat Khan & Company. Lalazar Colony, Munsehra Road Abbottabad.	408,170,343/-	3 rd	18.05% above	Higher Rates	---
2	M/s. Al-Shafi Enterprises. 7/C Sunset Boulevard, Phase-II, DHA, Karachi	501,926,712/-	2 nd	45.16% above	Higher Rates	---
3	M/s. Badar Engineering Works. C-175, Block-9, Gulshan-E-Iqbal, Karachi	326,922,254/-	1 st Lowest	-5.59% Below	1 st Lowest evaluated responsive bidder with acceptable market rates	Recommended for award of work
4	M/s. Murtazvi Builders (Pvt.) Ltd. 406, Panorama Centre, Raja Ghazanfar Ali Road, Saddar, Karachi	---	---	---	---	Non- Responsive and rejected as per sub-clause: IB-26.4 of Instructions to Bidders and Rule: 30 (2) & 35 (1) (b) of SPP Rules


Addl. Secretary (GA/C) (E&L Deptt.)



Superintending Engineer (W&S)
Defunct CDGK (W&S) Department


Rep. of M/s. Halcrow
Co-opted Member



Chairman / Convener of Committee
Program Director, SBEP


SINDH BASIC EDUCATION PROGRAM
CONSTRUCTION OF NEW SCHOOLS FOR UPGRADATION OF EXISTING SCHOOLS
 Package No: SBEP-P05-KHI-1, Karachi (Bin Qasim & Gadap Towns)
SUMMARY OF COST

S. No	SCHOOL NAME	Engineer's Estimate	M/s Shoukat Khan & Co.	%age Diff.	M/s Al-Shafi-Enterprises	%age Diff.	M/s Badar Engineering Works	%age Diff.	M/s Murtazvi Builders	%age Diff.
1	GBPS Sindhi Jamaat Cooperative Housing Society (Bin Qasim Town)	81,501,428	93,668,482	14.9%	115,415,757	41.6%	82,443,873	1.2%	NON-RESPONSIVE	
2	GBSS Cattle Colony (Bin Qasim Town)	73,198,715	85,198,166	16.4%	104,499,506	42.8%	70,999,377	-3.0%		
3	GBELS Waryo Gabol (Gadap Town)	73,868,423	86,784,232	17.5%	106,543,702	44.2%	75,882,412	2.7%		
4	GBSS Yousuf Goth (Gadap Town)	59,617,758	70,315,092	17.9%	86,666,250	45.4%	60,206,409	1.0%		
5	GBHS Dumba Village (Gadap Town)	54,285,365	64,580,151	19.0%	79,256,823	46.0%	55,185,439	1.7%		
Sub Total-A		342,471,688	400,546,123	17.0%	492,382,038	43.8%	344,717,510	0.7%		
Rebate offered (if any)		0	0		0		22,751,356 (6.6%)			
Amount After Rebate (Rs.)		342,471,688	400,546,123	1.0%	492,382,038	43.8%	321,966,154	-6.0%		
Subtracting Amount of Provisional Sum for comparison		500,000	500,000		500,000		500,000			
Sub Total-B (Net Cost of School Buildings)		341,971,688	400,046,123	17.0%	491,882,038	43.8%	321,466,154	-6.00%		
Adding Daywork cost (Cumulative for five Schools)		3,801,592	8,124,220		10,044,674		4,956,100			
Total Bid Price (Rs.)		345,773,280	408,170,343	18.05%	501,926,712	45.16%	326,422,254	-5.60%		
Adding Provisional Sum in the bid price of lowest bidder (M/s. Badar Engineering Works)		500,000					500,000			
FINAL BID PRICE (Rs.)		346,273,280					326,922,254	-5.59%		


 Superintendent Engineer, W&S
 Member


 Addl. Secretary (G/A/C) (E&L Deptt.)
 Member


 Rep. of M/s. Halcrow Pakistan Pvt. Ltd
 Co-Opted Member


 Program Director, PMIU-SBEP, E&L Deptt. GOS.
 Chairman/Convener of Committee