

SINDH PUBLIC PROCUREMENT REGULATORY AUTHORITY

CONTRACT EVALUATION FORM

TO BE FILLED IN BY ALL PROCURING AGENCIES FOR PUBLIC CONTRACTS OF WORKS, SERVICES & GOODS

- 1) NAME OF THE ORGANIZATION / DEPTT. USA/O SBEP, Program Management & implementation Unit Education & Literacy Department
- 2) PROVINCIAL / LOCAL GOVT / OTHER Government of Sindh
- 3) TITLE OF CONTRACT Construction of Six Schools in District Khairpur Package 1A
- 4) TENDER NUMBER Package # SBEP-01A Khairpur
- 5) BRIEF DESCRIPTION OF CONTRACT Balance Work of Six Schools in Khairpur Package 1A
- 6) FORUM THAT APPROVED THE SCHEME PDWP
- 7) TENDER ESTIMATED VALUE PKR 588.817 Million
- 8) ENGINEER'S ESTIMATE (For civil works only) PKR 575.718828 Million
- 9) ESTIMATED COMPLETION PERIOD (AS PER CONTRACT) 12 Months
- 10) TENDER OPENED ON (DATE & TIME) 18th August, 2014 at 11:30 AM
- 11) NUMBER OF TENDER DOCUMENTS SOLD 15
(Attach list of buyers)
- 12) NUMBER OF BIDS RECEIVED _____
- 13) NUMBER OF BIDDERS PRESENT AT THE TIME OF OPENING OF BIDS 02
- 14) BID EVALUATION REPORT (Enclose a copy) Report submitted and hoisted on SPPRA website
M/s Kaybee Construction & BS Traders & Eng Services
- 15) NAME AND ADDRESS OF THE SUCCESSFUL BIDDER 3517 Street # 20, Sharhabad, Karachi,
- 16) CONTRACT AWARD PRICE PKR 494.62354 Million
- 17) RANKING OF SUCCESSFUL BIDDER IN EVALUATION REPORT (i.e. 1st, 2nd, 3rd EVALUATION BID)
1st Lowest evaluated: M/s Kaybee-Bs (Joint Venture)
2nd Lowest evaluated: M/s Bannu Munkhtar Contracting

18) METHOD OF PROCUREMENT USED -- (Tick one)

- a) SINGLE STAGE - ONE ENVELOPE PROCEDURE _____ Domestic/ Local
- b) SINGLE STAGE - TWO ENVELOPE PROCEDURE _____
- c) TWO STAGE BIDDING PROCEDURE _____
- d) TWO STAGE - TWO ENVELOPE BIDDING PROCEDURE _____

PLEASE SPECIFY IF ANY OTHER METHOD OF PROCUREMENT WAS ADOPTED i.e. EMERGENCY, DIRECT CONTRACTING ETC. WITH BRIEF REASONS

19) APPROVING AUTHORITY FOR AWARD OF CONTRACT _____

20) WHETHER THE PROCUREMENT WAS INCLUDED IN ANNUAL PROCUREMENT PLAN?

Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
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21) ADVERTISEMENT :

i) SPPRA Website:
(If yes, give date and SPPRA Identification No.)

Yes	July 11, 2014 (SPPRA ID 1575216592)
No	

ii) News Papers
(If yes, give names of newspapers and dates)

Yes	
No	No

22) NATURE OF CONTRACT

Domestic	<input checked="" type="checkbox"/>	Int.	<input type="checkbox"/>
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23) WHETHER QUALIFICATION CRITERIA
WAS INCLUDED IN BIDDING / TENDER DOCUMENTS?
(If yes, enclose a copy)

Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
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24) WHETHER BID EVALUATION CRITERIA
WAS INCLUDED IN BIDDING / TENDER DOCUMENTS?
(If yes, enclose a copy)

Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
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25) WHETHER APPROVAL OF COMPETENT AUTHORITY WAS OBTAINED FOR USING A
METHOD OTHER THAN OPEN COMPETITIVE BIDDING?*No other method used*

Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
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26) WAS BID SECURITY OBTAINED FROM ALL THE BIDDERS?

Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
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27) WHETHER THE SUCCESSFUL BID WAS LOWEST EVALUATED
BID / BEST EVALUATED BID (in case of Consultancies)

Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
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28) WHETHER THE SUCCESSFUL BIDDER WAS TECHNICALLY
COMPLIANT?

Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
-----	-------------------------------------	----	--------------------------

29) WHETHER NAMES OF THE BIDDERS AND THEIR QUOTED PRICES WERE READ OUT AT
THE TIME OF OPENING OF BIDS?

Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
-----	-------------------------------------	----	--------------------------

30) WHETHER EVALUATION REPORT GIVEN TO BIDDERS BEFORE THE AWARD OF
CONTRACT?

(Attach copy of the bid evaluation report)

Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
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(Attach copy of the bid evaluation report)

Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
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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/ /2014/1030
Karachi. dated: 11/09/2014

LETTER OF ACCEPTANCE / AWARD

**Kaybee Constructors and
BS Traders & Engineering Services. (Joint venture)**


351/3, Street # 20, Sharfabad,
Karachi

T: 021-34123535, F: 021-34937304

**Subject: Construction of Six (06) Schools in District Khairpur, Package 1a
Notification of Award of Contract of Package No. SBEP-01A-KHR**

This is to notify you that your bid dated 18th August, 2014 for the construction of six (06) schools in district Khairpur, (Package 1a) under USAID Sindh Basic Education Program for the accepted contract amount of PKR. 494,692,354/- (Four hundred and ninety four million, six hundred and ninety two thousands, three hundred and 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
Program Director

Cc: The Managing Director SPPRA

SPECIAL STIPULATIONS
Clause in Conditions of Contract

S.No	Description	*Ref	Summary
1	Engineer's Authority to issue Variation in emergency	3.1	2% of the Contract Price stated in the Letter of Acceptance.
2	Amount of Performance Security	4.2	Up to 5% of contract price stated in the Letter of Acceptance. Performance Security shall be in the form of Bank Guarantee from a Schedule bank in Pakistan.
3	Time for Furnishing Program	8.5	Within 14 days from the date of receipt of Letter of Acceptance.
4	Minimum amount of Third Party Insurance	18.3	Rs.500,000 - for property damage and Rs.500,000 - for personal injury / death per occurrence with number of occurrences unlimited.
5	Time for Commencement	8.1	Within 07 days from the date of receipt of Engineer's Notice to Commence which shall be issued within fourteen (14) days after signing of Contract Agreement or issuance of LOA.
6	Time for Completion	8.2	12 (Twelve) Calendar Months from the date of receipt of Engineer's Notice to Commence.
7	a) Amount of Liquidated Damages / Delay Damages/Penalties	8.7	0.08% of Contract Amount for each day of delay on completion of the Works subject to a maximum of 10% of Contract Price stated in the Letter of Acceptance.
	b) Amount of Bonus		Not Applicable
8	Defects Liability Period	11.1	365 days from the effective date of Taking Over Certificate.
9	Percentage of Retention Money to be deducted from IPCs	14.2	10% of the amount of Interim Payment Certificate.
10	Maximum Limit of Retention Money	14.3	5% of Contract Price stated in the Letter of Acceptance.
11	Minimum amount of Monthly Interim Payment Certificates of work done (Running Bills)	14.6	First two IPCs = PKR 05 Million. Balance IPCs = 15 Million
12	Time of Payment from delivery of Engineer's Interim Payment Certificate to Procuring Agency	14.7	28 working days from the issuance date of Interim Payment Certificate by the Engineer.
13	Interim Payment Certificate for advance payments (Mobilization Advance or Secured Advance etc)	14.2 & 14.5	Intermediate IPCs for Secured Advance or Mobilization Advance may be accepted for minimum amount of 05 million.
14	Mobilization Advance	*14.2	10% of Contract Price stated in the Letter of Acceptance.

*Note- For complete text please Refer related clause in Conditions of Contract.

(29)
Program Director
Sindh Basic Education Program
Government of Sindh





Sindh-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/10/2014
 Karachi, Dated: 09/07/2014

1. Abdul Majeed & Co
2. Tahir Associates
3. Qasim Khan & Company
4. Compro + Zealcon Engineers (Pvt) Ltd (JV)
5. Shaikat Khan & Company
6. United Construction Co.
7. Associated Constructors Limited
8. Hans Mukhtar Contracting (Pvt) Ltd

9. Ziauddin Ahmed & Company (Pvt) Ltd
10. Mirhadi Ahmed & Co
11. Umar Jan & Company
12. Fazal Brothers Builders & Developers
13. Metraco Pakistan (Pvt) Ltd
14. Kooche Constructors + Bg Traders & Engineering Services (JV)
15. Kestrel-SPD (Pvt) Ltd

Bid Reference No: SBEP-01A-KHR-3

Subject: Notice Inviting Tender
 Construction of Six schools in District Khairpur

Provincial Govt Funds/Gram e ADP (94 / 2013) & ADP 285 / 2014-15 USAID Grant # SC-22021(051)

1. Program Management & Implementation Unit (PMU), Education & Literacy Department, Government of Sindh (the "Procuring Agency" "PA") has received grant from the United States Agency for International Development (USAID) towards the cost of construction of schools in selected districts of Sindh and it is intended that part of the proceeds of the grant will be applied to eligible payments under the contract for the Package-01-A (previous package 1), Construction of Balance Works of Six Schools in district Khairpur.

2. The construction contract for the said schools was previously awarded in October 2013, and almost 15% work has been completed at school sites. However due to the on-site circumstances the previously awarded contract has been terminated, and is being paid off separately. This tender covers the remaining works of the contract, which are roughly averaged at 85% of the original scope of works, and will be managed as a separate and independent procurement with no interface to previous contract.

3. PA invites sealed bids for the above mentioned works from the interested firms already prequalified for Sindh Basic Education Program (SBEP). Bidders may obtain information by acquiring the bidding documents (BD) from the office PMU (address as above). A complete set of bidding documents in soft (CD) is being dispatched to all pre-qualified firms at their postal addresses.

4. All bids must be accompanied by a bid security in the amount equal to 2% of their quoted bid price in Pak rupees or an equivalent amount in a freely convertible currency in the form of Pay Order / Call Deposit/Demand Draft/Bank Guarantee from any scheduled bank of Pakistan, and must be delivered to PMU Office at or before 1400 hours, on 8th Aug, 2014. Bids will be opened at 1500 hours on the same day, in the presence of bidders' representatives who choose to attend at the same address. The bid validity period will be 90 days.

5. Visit to the school sites will be held on 15th July, 2014. Gathering point for the field visit will be the office of Resident Engineer, Package-1, Staff House, Daryaganj Pakistan (Pvt) Ltd, old NHA Home, near "Gambal Filling Drive" petrol pump, Opposite Inland Regional Office at Hattori Road, Gambal Sindh.

6. A pre-bid meeting shall be held on 23rd July, 2014 at 10:00 hours at PMU office. The bidders may send their queries according to the IBSR in the above mentioned.

7. PA reserves right to amend the bidding process and reject all or any bids or proposals, only as per SPP Rules 2010.

8. Please acknowledge the receipt and participate in the bid.

Corruption complaints if any, against this program may be reported at <http://www.anti-fraudhotline.com>, Toll free at 0800-84700, email at complaints@anti-fraudhotline.com or in person at 5-C, 2nd Floor, Khayaban-e-Ittehad, DHA Phase-VII, Karachi or by fax 021-35300410.

The Managing Director SPPRA Karachi



(Tareezuddin Khattar)
 Program Director



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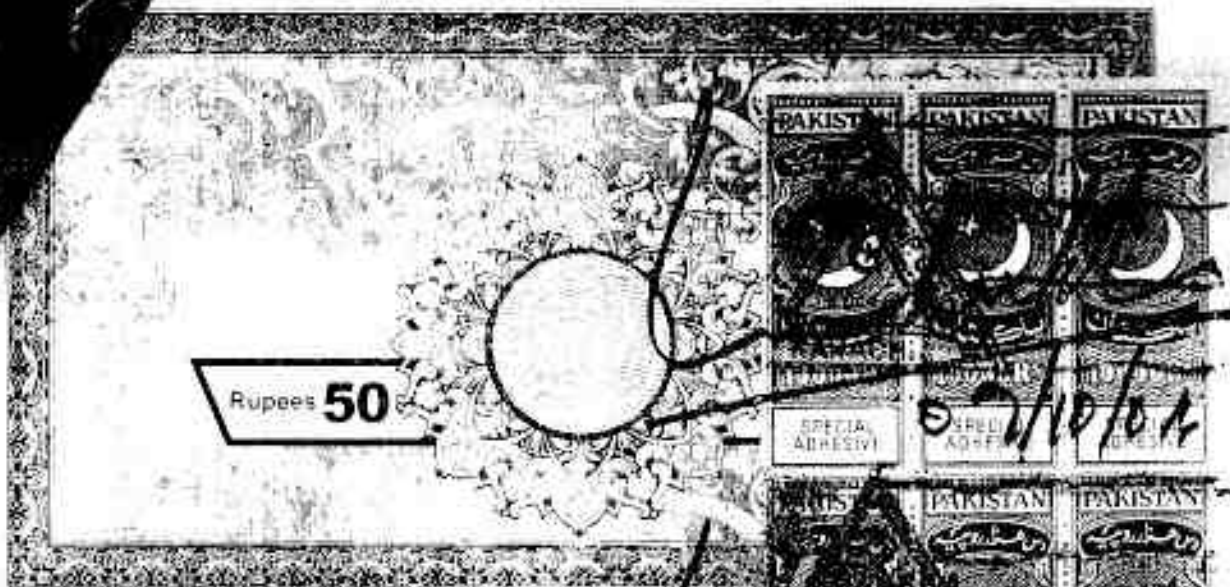
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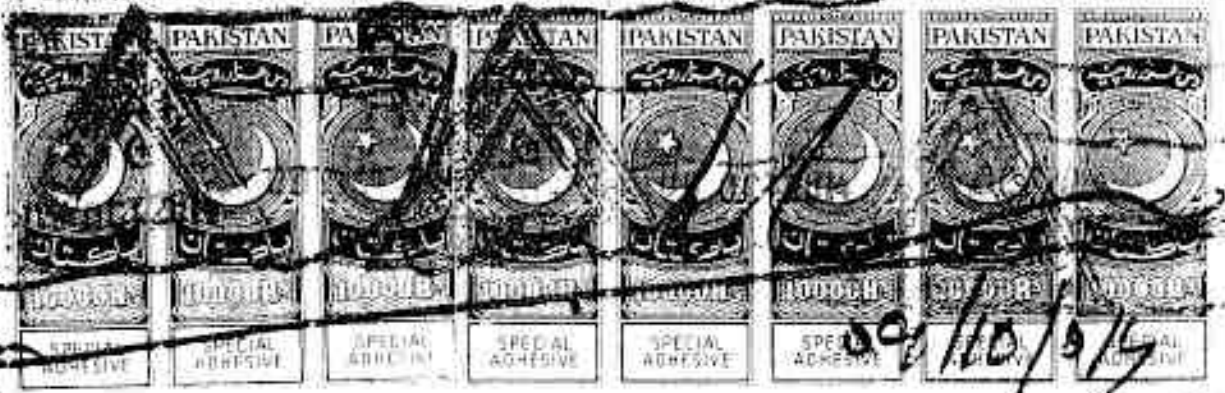
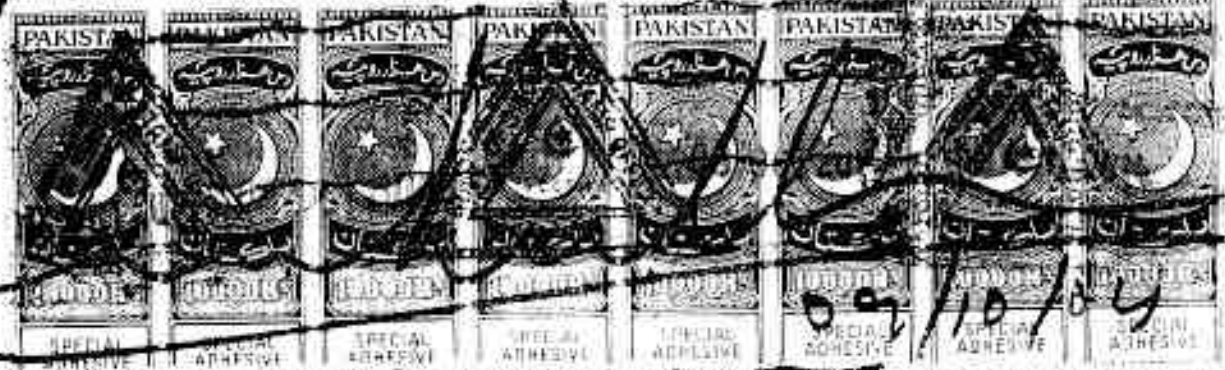
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(Tareezuddin Khattar)
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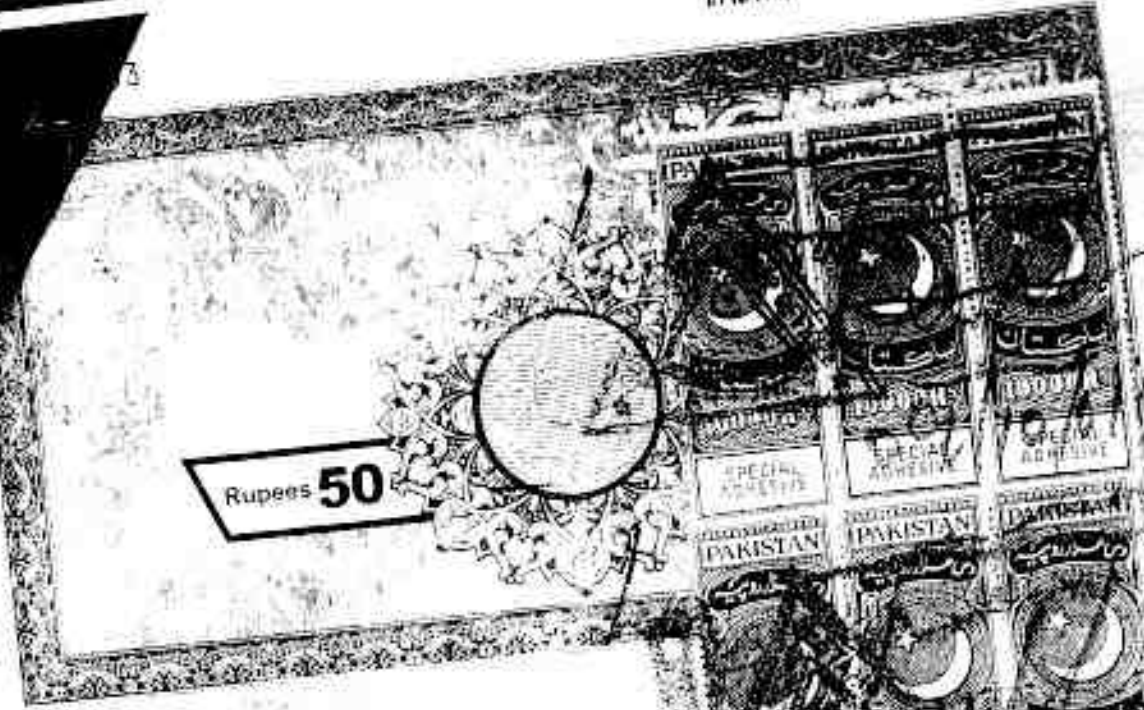
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Construction of double storey building with complete civil works including structural, architectural, plumbing, water supply, sewerage networks and related electrical and mechanical works along with external and landscaping works as described in the 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.

Program Director
Sixth Five Year Education Program

PAKISTAN AIR MAIL



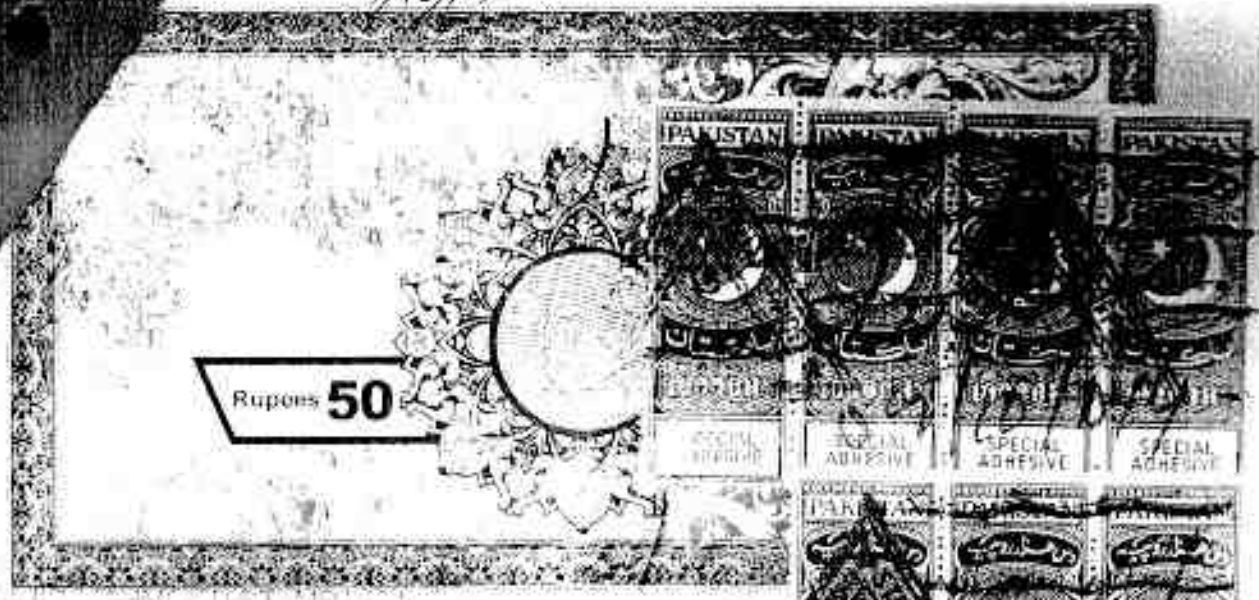
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1. POTA-KHRO3 GIBIS TANDO NAZAR ALI
2. POTA-KHRO4 GIBIS GHAGRI
3. POTA-KHRO5 GIBIS SEHARJA
4. POTA-KHRO7 GIBIS TANDO MIR ALI
5. POTA-KHRO8 GIBIS BOZDAR WADA

40

1484100/- 170
9/10/14

PAKISTAN GOVERNMENT PRINTING AND PUBLICATION



WHEREAS the Employer is desirous that certain Works & Construction of Package 01A: Construction of Balance Works of Six Schools in Khairpur District (Taluka Khairpur, Thari Mirwah), including following schools:

POLA-KHROZ GILLES KORO GOTH





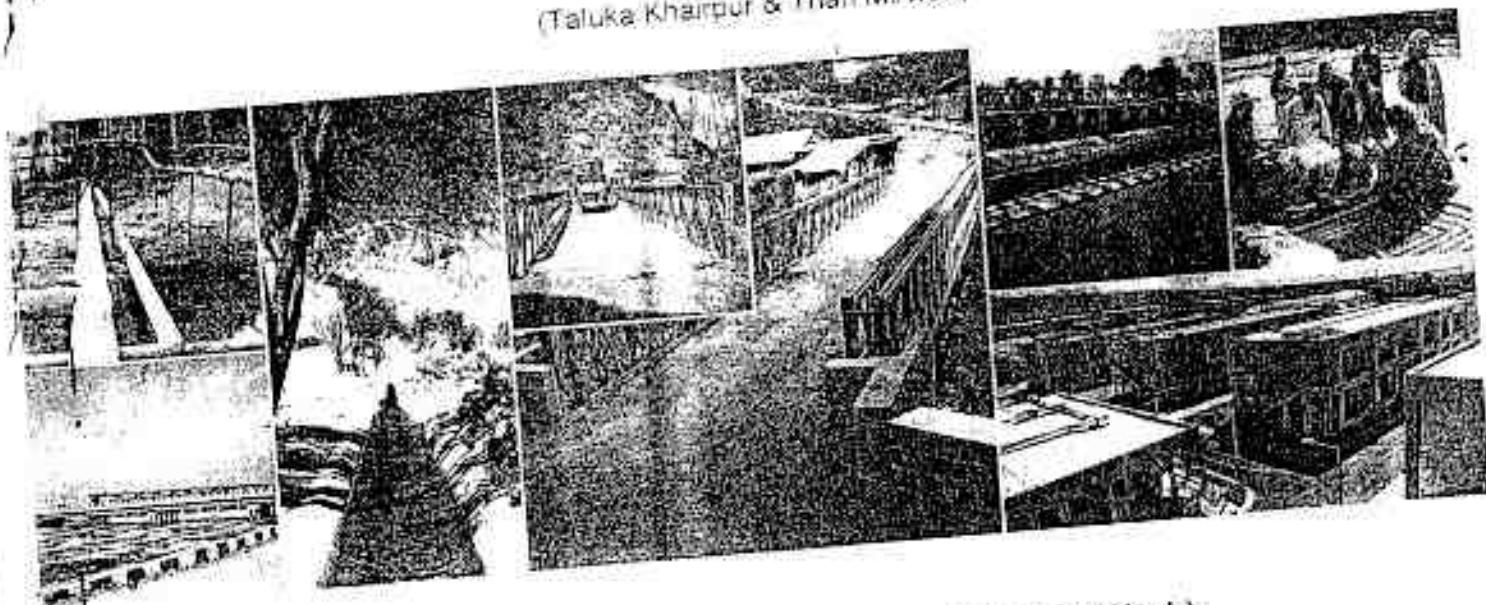
USAID
FROM THE AMERICAN PEOPLE



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

SINDH BASIC EDUCATION PROGRAM

Construction of Six Schools in District Khairpur, Sindh
(Taluka Khairpur & Thari Mirwah)



PACKAGE NO. SBEP- P01A-KHR (Balance Work)

Tender & Contract Documents

Minutes of Pre-bid Meeting

Addendum No.1

July, 2014

Halcrow



USAID
FROM THE AMERICAN PEOPLE

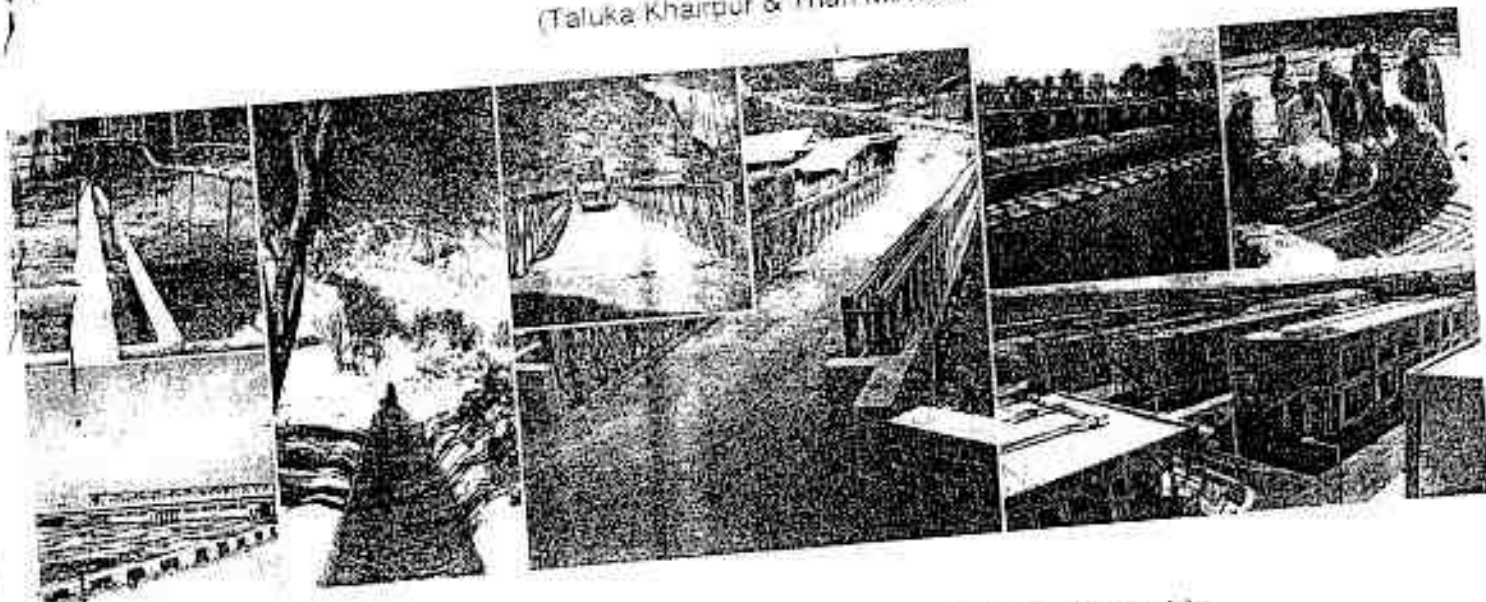


GOVERNMENT OF SINDH, EDUCATION & LITERACY DEPARTMENT
Program Management & Implementation Unit (PMIU)

SINDH BASIC EDUCATION PROGRAM

Construction of Six Schools in District Khairpur, Sindh

(Taluka Khairpur & Thari Mirwah)



PACKAGE NO. SBEP- P01A-KHR (Balance Work)

Tender & Contract Documents

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July, 2014

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USAID
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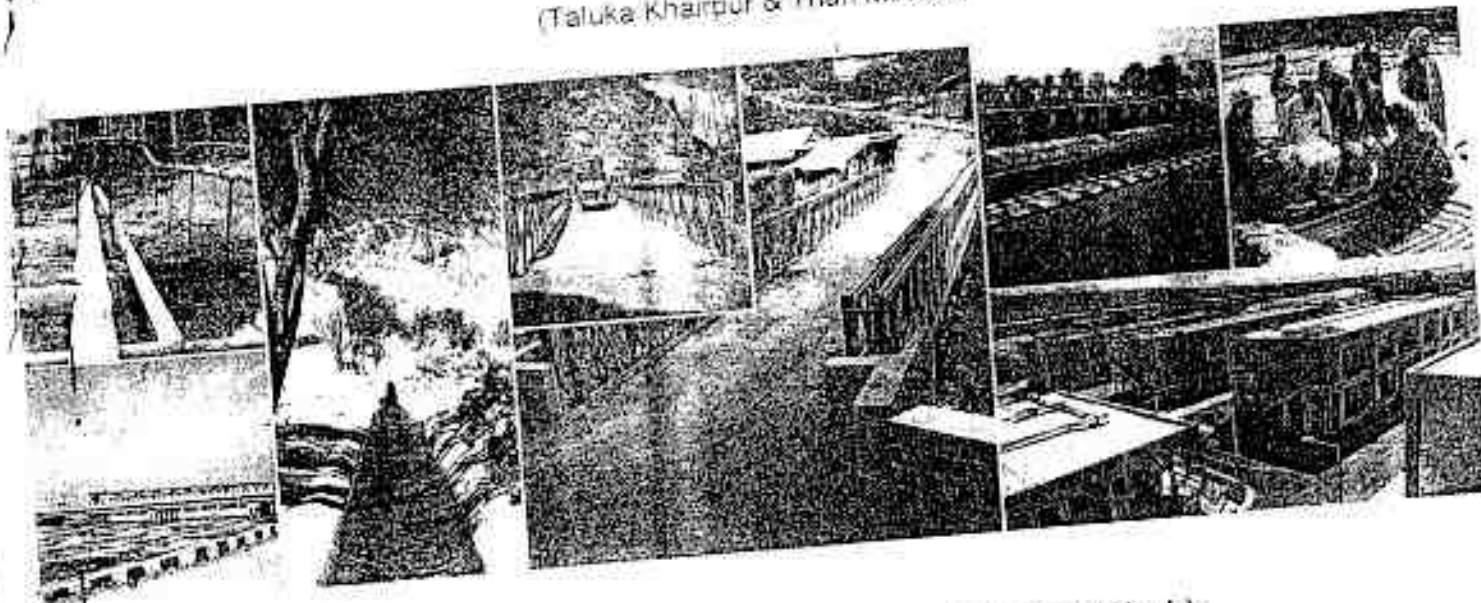


GOVERNMENT OF SINDH, EDUCATION & LITERACY DEPARTMENT
Program Management & Implementation Unit (PMIU)

SINDH BASIC EDUCATION PROGRAM

Construction of Six Schools in District Khairpur, Sindh

(Taluka Khairpur & Thari Mirwah)



PACKAGE NO. SBEP- P01A-KHR (Balance Work)

Tender & Contract Documents

Minutes of Pre-bid Meeting

Addendum No.1

July, 2014

Halcrow

SINDH BASIC EDUCATION PROGRAM
CONSTRUCTION OF NEW SCHOOLS AND UPGRADATION OF EXISTING SCHOOLS
PACKAGE- 1A (Balance Work): DISTRICT KHAIRPUR MIRS
GBLSS KORO GOTH (P01-KHR02)
SUMMARY OF TENDERED COST (BALANCE WORKS)

CODE	DESCRIPTION	M/s Kaybee - BS (JV)
	A. GENERAL ITEMS	988,970
	B. CIVIL WORKS	60,635,665
	C. EXTERNAL WORKS	6,695,417
	D. ELECTRICAL WORKS	9,526,300
	E. PLUMBING WORKS	3,069,036
	Sub-Total	80,915,388

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	<u>Temporaray Facilities (Optional Items)</u>				
01- 01 G 1	Ref.Spec. No. G05 Providing and maintaining a rental building of area 3,000 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	60,000.00	720,000.00
	OR				
01- 01 G 2	Providing and maintaining a tent school of area 3,000 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 3,000 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		
	Sub- Total (Rs.)				720,000
	<u>Site Clearing and Grubbing</u>				
01- 01 G 4	Ref.Spec. No. C01 Clearing, removal of debris from site and Grubbing complete in all respect as directed by the Engineer.	650	Sft	3.00	1,950.00
	<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.	0	Sft		
01- 01 G 6	Dismantling, removing of existing sewerage lines as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	0	Rft.		
01- 01 G 7	Dismantling, removing of existing water supply lines as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	0	Rft.		
01- 01 G 8	Dismantling, removing of existing electrical supply line as directed by the Engineer.	0	Rft.		
01- 01 G 9 (a)	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.	390	Rft	18	7,020.00
01- 01 G 9 (b)	Dismatling of existing below plinth portion of 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.	250	Rft	20	5,000.00
	<u>POWER SUPPLY & TELECOMMUNICATION</u>				
01- 01 G 10	Providing, installing, testing and commissioning of existing 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	150,000	150,000.00
01- 01 G 11	Providing, installing, testing and commissioning of existing 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	25,000	25,000.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	<u>SIGN BOARD / PLAQUE</u> Ref.Spec. No. SP 100				
01- 01 G 12	Maintanance of (already fixed) Project sign board for construction duration as directed by the Engineer.	1	Job	10,000	10,000.00
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	40,000	40,000.00
	<u>WATER TESTING</u>				
01- 01 G 14	Sampling and testing of Water from bore of well (TDS) including submission of report as per specification.	1	Each	30,000	30,000.00
Total General Items (Rs.)					268,970
Sub- Total C/o to Summary General Items Pak Rs.					988,970

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	<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	0	Cft.		
	b) More than 5 ft upto 10 ft.	0	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)	650	Cft.	8.00	5,200
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	100	Cft.	5.00	500
	c) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	14,915	Cft.	14.00	208,810
	d) Compaction of top layer as per specifications and as directed by the Engineer.	12,850	Sft.	20.00	257,000
	<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	0	L.S.	not required	
	b) Dewatering	0	Day	not required	
	<u>TERMITE CONTROL TREATMENT</u>				
	Ref.Spec. No. C03				
01- 02 C 4	Termite control treatment to specified surfaces following structures complete in all respect as per drawings and specification: (Under sub floor only)	19,500	Sq.ft.	25.00	487,500
	<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.	1	ton.	140000.00	140,000
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.	0	ton.	Already Done	
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u>				
	Ref.Spec. No. C04				
01- 02 C 7	Blinding concrete 1250 psi using Type-V cement.	0	Cft.	Already Done	

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 02 C 8	Reinforced cement concrete using Type-V cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Raft foundation slab b) Columns upto plinth (within Plinth beam portion) c) Plinth beams	0 280 1335	Cft. Cft. Cft.	Already Done 385.00 385.00	 107,800 513,975
	<u>BRICK MASONRY</u> Ref.Spec. No. C05				
07- 02 C 9	Solid brick masonry under the plinth beam of one and half brick thickness, set in 1:4 cement 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.	0	Cft.	Already Done	
	<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.	12700	Sq.ft.	40.00	508,000
	<u>P.C.C UNDER FLOORING</u> Ref.Spec. No. C07				
01- 02 C 11	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	12700	Sq.ft.	85.00	1,079,500
	<u>PLINTH PROTECTION</u> Ref.Spec. No. C04 & C07				
01- 02 C 12	Blinding concrete 1250 psi using Type-V cement.	560	Cft.	185.00	103,600
	<u>PROTECTION WORKS</u> Ref.Spec. No. C16				
01- 02 C 13	Vapor barrier sheet, under the floor as per drawings and specifications.	12500	Sq.ft.	13.00	162,500
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.	2750	Sq.ft.	40.00	110,000
	<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.	26	ton.	140,000.00	3,640,000
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.	0	ton.		
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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	1528 2900 7050 350 130 60	Cft. Cft. Cft. Cft. Cft. Cft.	425.00 425.00 425.00 425.00 425.00 425.00	649,400 1,232,500 2,996,250 148,750 55,250 25,500
<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.	36	ton.	140000.00	5,040,000
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)	0	ton.		
<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 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	2350 3000 7150 176 143 26	Cft. Cft. Cft. Cft. Cft. Cft.	425.00 425.00 425.00 425.00 425.00 425.00	998,750 1,275,000 3,038,750 74,800 60,775 11,050
<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.	4.5	ton.	140,000	630,000
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)	1	ton.	140,000	140,000
<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u>					
Ref.Spec. No. C04					

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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 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	110 125 280 925 1150 396 20	Cft. Cft. Cft. Cft. Rft. Cft. Cft.	425 425 425 425 425 425 425	46,750 53,125 119,000 393,125 488,750 168,300 8,500
<u>FINISHING WORKS</u>					
<u>For Ground floor</u>					
<u>BRICK MASONRY</u>					
Ref.Spec. No. C05					
01- 02 C 24	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	1750 7650 30	Cft. Cft. Cft.	265 265 265	463,750 2,027,250 7,950
<u>DOORS FRAMES</u>					
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 patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	1072	R.ft.	290	310,880
<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.	48.00	18,000
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.	11225	Sq.ft.	40.00	449,000
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.	24000	Sq.ft.	48.00	1,152,000

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	<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.	2130	Sq.ft.	1000.00	2,130,000
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.	950.00	110,200
	<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.	2625	Kg	210.00	551,250
01- 02 C 33	Providing and fixing railing for stairs/ramps as per drawing and specifications complete in all respect.				
	a) MS railing stairs	55	Rft	500.00	27,500
	b) M.S railing at entrance	50	Rft	500.00	25,000
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.	215	Rft	1600.00	344,000
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	65,000	65,000
	<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.	11225	Sq.ft.	180	2,020,500
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.	150	Sq.ft.	180	27,000

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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.	790	Sq.ft.	185	146,150
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.	825	Sq.ft.	215	177,375
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.	2400	Sq.ft.	225	540,000
<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)	100	Sq.ft.	300	30,000
	b) Entrance Steps Risers (1/2" thick)	50	Sq.ft.	180	9,000
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.	400	Sq.ft.	300	120,000
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.	100	Sq.ft.	180	18,000
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.	60	Sq.ft.	180	10,800
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.	122	Sq.ft.	280	34,160
<u>PAINTING</u>					
Ref.Spec. No. C10					

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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.	24000	Sq.ft.	25	600,000
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.	24000	Sq.ft.	35	840,000
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.	32	12,000
	<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 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.	875	Sq.ft.	950	831,250
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.	165	Sq.ft.	415	68,475
	<u>FALSE CEILING</u> Ref.Spec. No.				
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.	1210	Sq.ft.	105	127,050
	<u>Pre cast C.C Patren jali</u> Ref.Spec. No.				
01- 02 C 52	C.C Patren jali as per approved designed and specification	630	Sq.ft.	110	69,300
	<u>BRICK FACING</u> Ref.Spec. No. C05				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 02 C 53	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.	10000	Sq.ft.	200	2,000,000
	<u>FINISHING WORKS</u>				
	<u>For First floor</u>				
	<u>BRICK MASONRY</u>				
	Ref.Spec. No. C05				
01- 02 C 54	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	1000	Cft.	265	265,000
	b) 9" thick	7750	Cft.	265	2,053,750
	c)13-1/2" thick	20	Cft.	265	5,300
	<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.	823	R.ft.	280	230,440
	<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.	48	8,400
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.	12325	Sq.ft.	40	493,000
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.	22000	Sq.ft.	48	1,056,000
	<u>ALUMINIUM WORKS</u>				
	Ref.Spec. No. C 11				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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 & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	2250	Sq.ft.	1,000	2,250,000
	<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.	2775	Kg	210	582,750
01- 02 C 60	Providing and fixing MS stair railing as per drawing and specifications complete in all respect.	30	Rft	500	15,000
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.	230	Rft	1,600	368,000
	<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.	12325	Sq.ft.	180	2,218,500
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.	850	Sq.ft.	185	157,250
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.	825	Sq.ft.	215	177,375
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.	2375	Sq.ft.	225	534,375
	<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.	200	Sq.ft.	300	60,000

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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.	180	9,000
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.	180	9,000
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.	35	Sq.ft.	180	6,300
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.	95	Sq.ft.	280	26,600
	<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.	12325	Sq.ft.	25	308,125
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.	22000	Sq.ft.	35	770,000
	<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.	700	Sq.ft.	950	665,000

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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.	135	Sq.ft.	415	56,025
	<u>FALSE CEILING</u> Ref.Spec. No.				
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.	815	Sq.ft.	105	85,575
	<u>Pre cast C.C Patren jali and Railing</u> Ref.Spec. No.				
01- 02 C 76	C.C Patren jali as per approved designed and specification	630	Sq.ft.	110	69,300
	<u>BRICK FACING</u> Ref.Spec. No. C05				
01- 02 C 77	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.	7100	Sq.ft.	200	1,420,000
	<u>WATER PROOFING AND BUILTUP ROOFING</u> 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.	13950	Sq.ft.	350	4,882,500
	<u>FINISHING WORKS</u> <u>For Roof floor / Secound floor</u>				
	<u>BRICK MASONRY</u> Ref.Spec. No. C05				
01- 02 C 79	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	30	Cft.	265	7,950
	b) 9" thick	490	Cft.	265	129,850
	c)13-1/2" thick	20	Cft.	265	5,300
	<u>DOORS FRAMES</u> Ref.Spec. No. C09 & C11				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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.	63	R.ft.	280	17,640
<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.	1920	Sq.ft.	48	92,160
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.	200	Sq.ft.	40	8,000
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.	850	Sq.ft.	48	40,800
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.	438	Sq.ft.	40	17,520
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 compound Aquafin 1C or approved equivalent.	438	Sq.ft.	115	50,370
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.	25,000	50,000
<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.	200	Sq.ft.	180.00	36,000
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.	20	Sq.ft.	185.00	3,700

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	MARBLE WORKS				
01- 02 C 89	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.	300.00	1,800
	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.	450	Sq.ft.	25.00	11,250
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.	850	Sq.ft.	35.00	29,750
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.	1920	Sq.ft.	32.00	61,440
	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 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.	50	Sq.ft.	950.00	47,500
	Pre cast C.C Patren jali and Railing				
01- 02 C 94	Ref.Spec. No. C.C Patren jali as per approved designed and specification	630	Sq.ft.	110.00	69,300
01- 02 C 95	Precast water spout as per approved designed and specification	22	No.	510.00	11,220
	BRICK FACING				
	Ref.Spec. No. C05				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 02 C 96	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.	4100	Sq.ft.	200.00	820,000
Total C/o to Summary for CIVIL WORKS Pak Rs.					60,635,665

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	<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 upto following depths including disposal of surplus / rejected excavated materials to designated places. a) 0 ft to 5 ft	2,670	Cft.	8	21,360.00
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) b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	650 100	Cft. Cft.	5 14	3,250.00 1,400.00
	<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 b) Dewatering	Rate Only Rate Only	L.S. Day		
	<u>TERMITE CONTROL TREATMENT</u>				
	Ref.Spec. No. C03				
01- 03 D5	Termite control treatment to specified surfaces following structures complete in all respect as per drawings and specification:	670	Sq.ft.	25	16,750.00
	<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.	4.0	ton.	140,000	560,000.00
	<u>PLAIN AND REINFORCED CONCRETE</u>				
	Ref.Spec. No. C04				
01- 03 D7	Blinding concrete 1250 psi using Type-V cement.	335	Cft.	185	61,975.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D8	Reinforced cement concrete using Type-V cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification. a) Footings b) Columns upto plinth c) Plinth beams	225 241 450	Cft. Cft. Cft.	385 385 385	86,625.00 92,785.00 173,250.00
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	520	Cft.	385	200,200.00
	<u>BRICK MASONRY</u> Ref.Spec. No. C05				
01- 03 D10	Solid brick masonry wall 9" thick with Type-V cement set in 1:4 cement sand mortar, straight or curve below plinth beam 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	445	Cft.	255	113,475.00
01- 03 D11	Solid brick masonry wall with pointing on external face above plinth beam 4-1/2" 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.	1,755	Cft.	265	465,075.00
	<u>CEMENT PLASTER</u> Ref.Spec. No. C06				
01- 03 D12	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces (Columns, wall, beams and projections etc.) including making grooves as per design and elevation complete in all respect as shown on the drawings.	5,300	Sq.ft.	48	254,400.00
	<u>PROTECTION WORKS</u> Ref.Spec. No. C16				
01- 03 D13	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.	1,850	Sq.ft.	30	55,500.00
	<u>COPING</u> Ref.Spec. No. C04				
01- 03 D14	Providing and fixing 3" thick coping including plaster using OP cement for boundary wall complete as shown on the drawings.	240	Rft.	200	48,000.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D15	<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	50,000	100,000.00
01- 03 D16	<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	25,000	50,000.00
01- 03 D 17	<p><u>LANDSCAPING</u> Ref. Sec.No. Fill and backfill with selected materials including watering and compaction to every layer as per specification.</p>	2,450	Cft.	5	12,250.00
01- 03 D18	<p>Area Fill with selected materials including watering and compaction to every layer as per specification.</p>	17,000	Cft.	14	238,000.00
01- 03 D19	<p>Relocation and replanting of removed trees as per specifications and and as directed by the Engineer.</p>	3	No.	1,000	3,000.00
01- 03 D20	<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>	2,500	Sq.ft.	40	100,000.00
01- 03 D21	<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>	2,500	Cft.	14	35,000.00
01- 03 D22	<p>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.</p>				
	a) Neem tree (3 to 4 feet)	12	No.	200	2,400.00
	b) Babul tree (3 to 4 feet)	12	No.	200	2,400.00
	c) Golmohar (3 to 4 feet)	12	No.	200	2,400.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	d) Champa (2 to 3 feet)	40	No.	200	8,000.00
	e) Crape Jasmine (2 to 3 feet)	50	No.	200	10,000.00
	f) Cement Concrete planters.	30	Rft	400	12,000.00
	<u>Footpath Walkway (Precast Paving Blocks / Tiles)</u>				
	Ref. Sec.No.				
01- 03 D23	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.	2,965	Sq.ft.	25	74,125.00
01- 03 D24	Precast cement concrete paving blocks Envicrete or approved equivalent of size 8" x 4" x 1.5" laid in approved pattern including 2" thick sand cushion, levelling and dressing complete in all respect and as directed by the Engineer.	2,965	Sq.ft.	170	504,050.00
01- 03 D25	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.	445	Rft	350	155,750.00
	<u>EXTERNAL SEWER & MANHOLES</u>				
01- 03 D26	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	10	Nos.	25,000	250,000.00
	ii. 36" x 36" SIZE	8	Nos.	30,000	240,000.00
01- 03 D27	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.	18	No.	30,000	540,000.00
	<u>Septic Tank</u>				
01- 03 D28	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	830	Cft.	8	6,640.00
	b) More than 5 ft upto 10 ft.	430	Cft.	10	4,300.00
01- 03 D29	Blinding concrete 1250 psi using Type-V cement.	55	Cft.	185	10,175.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D30	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing compound Aquafin 1C or approved equivalent.	630	Sq.ft.	115	72,450.00
01- 03 D31	Reinforced cement concrete using Type-V cement having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer.				
	a) Base Slab.	111	Cft.	385	42,735.00
	b) Walls including chamfer etc.	345	Cft.	385	132,825.00
	c) Top Slab	70	Cft.	385	26,950.00
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	140,000	210,000.00
01- 03 D33	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	3,600.00
01- 03 D34	3/4" 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	25,200.00
01- 03 D35	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.	48	20,640.00
01- 03 D36	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.	300	15,300.00
01- 03 D37	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.	30,000	60,000.00
01- 03 D38	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No.	3,000	48,000.00
	<u>Soakage Pit (Option-1)</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D39	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	890	Cft.	8	7,120.00
	b) More than 5 ft upto 10 ft.	890	Cft.	10	8,900.00
	c) More than 10 ft upto 17 ft.	980	Cft.	30	29,400.00
01- 03 D40	Blinding concrete 1250 psi using Type-V cement.	25	Cft.	185	4,625.00
01- 03 D41	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar.				
	a) 18" thick	640	Cft	265	169,600.00
	b) 13-1/2" thick	180	Cft	265	47,700.00
	b) 9" thick	90	Cft	265	23,850.00
01- 03 D42	Reinforced cement concrete using Type-V cement 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	500	45,000.00
01- 03 D43	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.25	Ton	140,000	35,000.00
01- 03 D44	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	30,000	30,000.00
01- 03 D45	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No	3,000	48,000.00
	<u>Ground Storage Tank</u>				
01- 03 D46	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	725	Cft.	8	5,800.00
	b) More than 5 ft upto 10 ft.	825	Cft.	10	8,250.00
01- 03 D47	Blinding concrete 1250 psi using Type-V cement.	48	Cft.	185	8,880.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D48	Reinforced cement concrete using Type-V cement 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.	385 385 385 600	38,500.00 98,175.00 23,100.00 6,000.00
01- 03 D49	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	1	Ton	140,000	140,000.00
01- 03 D50	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.	300	16,500.00
01- 03 D51	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) 9" thick	66	Cft.	245	16,170.00
01- 03 D52	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.	30,000	60,000.00
01- 03 D53	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	10	No.	3,000	30,000.00
01- 03 D54	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.	48	25,440.00
01- 03 D55	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.	40	4,640.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D56	3/4" 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.	675	Sq.ft.	48	32,400.00
01- 03 D57	2" thick, 3000 cement concrete floor smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	141	Sq.ft.	60	8,460.00
01- 03 D58	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.	100	Sq.ft.	30	3,000.00
01- 03 D59	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.	16	Sq.ft.	25	400.00
01- 03 D60	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.	60	Sq.ft.	35	2,100.00
01- 03 D61	MS Door including paint etc complete in all respect as shown in the drawings.	15	Sq.ft.	750	11,250.00
01- 03 D62	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing compound Aquafin 1C or approved equivalent.	585	Sq.ft.	115	67,275.00
<u>Tube Well / Penumatic Pump</u>					
<u>Construction works</u>					
01- 03 D63	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	85	Cft.	8	680.00
01- 02 C 64	Fill and backfill with selected materials including watering and compaction to every layer as per specification.				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D65	a) From suitable excavated material (from stockpile of excavated materials)	20	Cft.	5	100.00
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	40	Cft.	14	560.00
	Blinding concrete 1250 psi using Type-V cement.	50	Cft.	185	9,250.00
01- 03 D66	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	15	Cft.	370	5,550.00
01- 03 D67	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.05	Ton	135,000	6,750.00
01- 03 D68	Solid brick masonry wall with brick coping 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 specification.				
	a) 18" thick	40	Sft	265	10,600.00
	b) 13-1/2" thick	30	Sft	265	7,950.00
	a) 9" thick	175	Sft	265	46,375.00
01- 03 D69	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.	48	13,680.00
01- 03 D70	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.	40	1,000.00
01- 03 D71	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.	48	7,200.00
01- 03 D72	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	1,000.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D73	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.	85	2,125.00
01- 03 D74	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.	85	2,125.00
01- 03 D75	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.	60	1,980.00
01- 03 D76	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.	32	9,120.00
01- 03 D77	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.	25	625.00
01- 03 D78	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.	35	5,250.00
01- 03 D79	Vapor barrier sheet, under foundations and floor as per drawings and specifications.	25	Sq.ft.	13	325.00
01- 03 D80	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.	30	7,500.00
	<u>Kanchan Arsenic filter</u>				
01- 03 D81	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.	8	600.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D82	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	Cft.	5	250.00
		100	Cft.	14	1,400.00
01- 03 D83	Blinding concrete 1250 psi using Type-V cement.	15	Cft.	185	2,839.75
01- 03 D84	Reinforced cement concrete using SR cement 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.	385	9,625.00
		20	Cft.	385	7,700.00
		35	Cft.	385	13,475.00
		80	Cft.	385	30,800.00
01- 03 D85	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.5	Ton	140,000	70,000.00
01- 03 D86	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	3,360.00
01- 03 D87	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.	85	7,140.00
01- 03 D88	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.	65	5,460.00
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.	48	7,296.00
01- 03 D90	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.	48	6,048.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D91	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing compound Aquafin 1C or approved equivalent.	126	Sq.ft.	115	14,490.00
01- 03 D92	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.	30	6,540.00
Sub- Total for External Development work-I Pak Rs.					6,554,539

BILL OF QUANTITIES
(Holding Tank & Soakage Trench 80')

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	<u>EXTERNAL DEVELOPMENT</u>				
	<u>Holding Tank (Option-2)</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.	8.00 5.00	6,040.00 2,700.00
01- 03 D93	Blinding concrete 1250 psi using slag cement conforming to BS-146	50	Cft.	14.00	700.00
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.	115.00	53,590.00
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.	385.00 385.00 385.00	41,195.00 128,975.00 34,265.00
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	140,000.00	161,000.00
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.	40.00	4,080.00
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.	40.00	13,960.00
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.	48.00	22,368.00
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.	300.00	13,200.00
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.	30000.00	60,000.00
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.	3000.00	48,000.00
	Sub-Total				590,073
	<u>Soakage Trench (Option-3)</u>				

BILL OF QUANTITIES
(Holding Tank & Soakage Trench 80')

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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.	8.00	41,000.00
01- 03 D104	Blinding concrete 1250 psi using slag cement conforming to BS-146	151	Cft.	185.00	27,935.00
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	260.00	135,200.00
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	250	Cft	405.00	101,250.00
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	140,000.00	79,800.00
01- 03 D108	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.	6	No.	30000.00	180,000.00
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	3000.00	54,000.00
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	50.00	7,500.00
Sub-Total					626,685
Total					1,216,758
Less Cost of Additional Two Options					(1,075,880)
Total C/o to Summary for External Development work Pak Rs					6,695,417

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
02-04E 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.	240,000	240,000.00
	ii) DBLP-GF1	1	No.	206,000	206,000.00
	iii) DBLP-GF2	1	No.	165,000	165,000.00
	vi) DBLP-FF1	1	No.	132,000	132,000.00
	v) DBLP-FF2	1	No.	222,000	222,000.00
	vi) MCC-WP	1	No.	290,000	290,000.00
	vii) DB-EXT (IP 54)	1	No.	130,000	130,000.00
02-04E 2	<p><u>PART-2: CABLES AND CONDUITS</u> <u>L.V. Power Cables</u></p> <p>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.</p>				
	a) 4 Core Cu/PVC/PVC CABLE				
	i. 4 core 10mm.sq.	415	R.ft	580	240,700.00
	ii. 4 core 16mm.sq.	385	R.ft	745	286,825.00
	iii. 4 core 95mm.sq.	75	R.ft	3,200	240,000.00
	b) Circuit Protective Conductor (CPC)				
	i. 1 core 10mm sq. PVC insulated colour Green/Yellow.	415	R.ft	135	56,025.00
	ii. 1 core 16mm sq. PVC insulated colour Green/Yellow.	385	R.ft	180	69,300.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
iii. 02-04E 3	1 core 50mm sq. PVC insulated colour Green/Yellow. <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.	75	R.ft	470	35,250.00
a)	32mm dia. PVC conduit to pull electric cable.	390	R.ft	140	54,600.00
b)	38mm dia. PVC conduit to pull electric cable.	365	R.ft	180	65,700.00
c)	50mm dia. PVC conduit to pull electric cable.	50	R.ft	260	13,000.00
d)	75mm dia. PVC conduit to pull electric cable.	150	R.ft	250	37,500.00
PART-3 <u>Wiring & Conduiting</u>					
02-04E 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.	6,150	196,800.00
b)	Same as item (a) but wiring from switch to switch.	85	Nos.	1,430	121,550.00
c)	Wiring from switch/dimmer to first light/fan point 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 and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	224	Nos.	1,280	286,720.00
d)	Wiring and conduiting of light point to point 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.	136	Nos.	1,085	147,560.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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.	26	Nos.	7,900	205,400.00
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.	25	Nos.	530	13,250.00
g)	Same as (f) 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.	41	Nos.	1,930	79,130.00
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.	4,250	17,000.00
PART-4: <u>LIGHT FIXTURES, FANS, SWITCHES, OUTLETS & ACCESSORIES</u>					
02-04E 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 w electronic ballast.	97	Nos.	2,430	235,710.00
b.	Fluorescent Light TMS 015 with 1x18Watt TL-D lamp color 84 w electronic ballast.	7	Nos.	1,490	10,430.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	c. Fluorescent Light TCS398 with 2x36Watt TL-D lamp color 84 with M2 Louver & electronic ballast.	31	Nos.	8,800	272,800.00
	d. Fluorescent Light TCS398 2x36Watt TL-D lamp color 84 with M6 Louver & electronic ballast.	126	Nos.	7,890	994,140.00
	e. Fluorescent Light TBS 318 with 1x36Watt TL-D lamp color 84 w electronic ballast.	16	Nos.	8,880	142,080.00
02-04E 6	<u>Ceiling Fans</u> Supply, installation and commissioning of ceiling fans of following sizes steel body, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respects, fittings shall be duly approved by				
	a. 56" dia.	17	Nos.	7,150	121,550.00
	b. 48" dia.	63	Nos.	6,300	396,900.00
	c. 36" dia.	1	Nos.	5,700	5,700.00
02-04E 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	18	Nos.	590	10,620.00
	ii) Two gang - 1 Way Switch	38	Nos.	740	28,120.00
	iii) Three gang - 1 Way Switch	15	Nos.	910	13,650.00
	iv) Four gang - 1 Way Switch	1	Nos.	1,400	1,400.00
	v) One gang - Fan Dimmer	9	Nos.	990	8,910.00
	vi) Two gang - Fan Dimmer	36	Nos.	2,210	79,560.00
02-04E 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.	30	Nos.	980	29,400.00
	ii) 13A, 3-pin Simplex Switch Socket outlet.	40	Nos.	970	38,800.00
	iii) 13A, 3-pin Duplex Switch Socket outlet.	17	Nos.	1,490	25,330.00
	iv) 15A, 3-pin simplex Switch Socket outlet.	7	Nos.	1,170	8,190.00
	v) Floor Box - Type B	24	Nos.	2,980	71,520.00
02-04E 9	LOAD BREAK SWITCHES				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	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.	1,750	1,750.00
	<u>PART-5: EARTHING SYSTEM</u>				
02-04E 10	<u>Earth Electrode</u> Supply at site and installation of Stainless Steel copper claded earth electrodes, 10 feet long and 20mm dia including cost of all necessary materials, complete in all respects, as per specification.	0	Nos.		
02-04E 11	<u>Copper Conductor</u>				
a)	Supply, installation and connecting up of 1 x 16sqmm 1-Core Cu/PVC cable, in 38mm dia uPVC Class-d conduit directly buried in ground, 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	390	3,900.00
b)	Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia uPVC Class-d 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.	40	R.ft	390	15,600.00
c)	Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia uPVC Class-d 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.	100	R.ft	355	35,500.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	d) Supply, installation and connections of bare copper conductor 2x50 mm sq. in 38mm dia uPVC Class-d conduit, from building rebars 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.	250	R.ft	615	153,750.00
	e) Supply, installation and connections of copper conductor 1x50 mm sq. 1-Core Cu/PVC cable, in 38mm dia uPVC Class-d 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	615	9,225.00
02-04E 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.	90,000	180,000.00
02-04E 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.	8,000	16,000.00
02-04E 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.	5,500	11,000.00
02-04E 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	15,000	15,000.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	<u>PART-6: TELEPHONE / VOICE SYSTEM</u>				
02-04E 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.	275	R.ft	55	15,125.00
	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.	2150	R.ft	95	204,250.00
	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.	180	R.ft	95	17,100.00
	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	35	Nos.	1,650	57,750.00
	ii) Duplex Outlet RJ 45	4	Nos.	2,800	11,200.00
02-04E 17	<u>Utility 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.	39,000	39,000.00
02-04E 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.	29,000	29,000.00
	ii) 8 Port Patch Panel	2	Nos.	16,000	32,000.00
02-04E 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.	300	1,500.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	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	38	Nos.	1,450	55,100.00
	ii) 3 meter long	38	Nos.	2,100	79,800.00
02-04E 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.	37,680	37,680.00
02-04E 21	<u>Telephone Sets</u> Supply and connection of following type of Telephone sets.				
	a) Telephone with CLI Module	2	Nos.	11,000	22,000.00
	b) Telephone without CLI Module	3	Nos.	6,000	18,000.00
02-04E 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.	16,850	134,800.00
	ii) Heat detector with buzzer	5	Nos.	10,980	54,900.00
02-04E 23	<u>PART -8 LIGHTNING PROTECTION SYSTEM</u> <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.	1800	R.ft.	475	855,000.00
02-04E 24	<u>Down Conductor</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
02-04E 25	a) Supply at site, installation, connections of 2x50mm.sq. stranded bare copper conductor as down conductors to be installed within the columns from air terminal on roof to building rebars, all other required accessories, complete in all respects. <u>Air terminal</u>	560	R.ft.	570	319,200.00
02-04E 26	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. <u>Copper Test Link</u>	6	Nos.	45,000	270,000.00
	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.	3,500	28,000.00
<u>PART -9 Public Address System</u>					
02-04E 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.	17,500	35,000.00
02-04E 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.	13,250	53,000.00
02-04E 29	<u>Microphone</u> Cordless Microphone.	2	Nos.	12,000	24,000.00
02-04E 30	<u>Wiring</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	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.	250	R.ft.	270	67,500.00
	PART -10 EXTERNAL AREA LIGHTING				
02-04E31	<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.	23	Nos.	7,300	167,900.00
	b) Britlite or equivalent Bollard Light Fixture in die cast aluminum body powder coated suitable for walkways with 1x18WATT PLC LAMP IP67	2	Nos.	17,550	35,100.00
02-04E32	<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.	9	Nos.	8,500	76,500.00
	b) Same as item (h) but wiring from light point to light point.	16	Nos.	6,300	100,800.00
	PART -11 MISCELLANEOUS WORKS				
02-04E 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.	100	Rft.	110	11,000.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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.	1	Nos.	7,100	7,100.00
02-04E 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.	19,000	38,000.00
02-04E 35	<u>Utility / PTCL Connection</u> a) Supply and co-ordination for the utility connection from WAPDA / HESCO 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.	1	Job	50,000	50,000.00
		1	Job	25,000	25,000.00
PART -12 SOLAR ROOM ELECTRIFICATION WORKS					
02-04E 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 in all respects a. Fluorescent Light TCW098 with 1x36Watt TL-D lamp color 84 & electronic ballast (IP65). b. Fluorescent Light TCS398 with 2x36Watt TL-D lamp color 84 with M2 Louver & electronic ballast.	2	Nos.	9,100	18,200.00
		2	Nos.	9,500	19,000.00
02-04E 37	<u>Switches & Fan Dimmers</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
02-04E 38	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	1	Nos.	1,110	1,110.00
	i) Four gang - 1 Way Switch				
02-04E 39	<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	1	Nos.	1,630	1,630.00
	i) 13A, 3-pin Duplex Switch Socket outlet.				
02-04E 40	<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.	1	Nos.	13,500	13,500.00
	i) Heat detector with buzzer				
02-04E 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.	6,100	6,100.00
	b) Same as item (a) but wiring from switch to power outlet.				
	c) Wiring from switch to first light 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 and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.				
		4	Nos.	1,290	5,160.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
Total C/o to Summary for Electrical Works Pak Rs.					9,526,300

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	<u>PILUMBING WORKS (BUILDING)</u> <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.				
02-05P1	European style coupled water closet with seat cover, flush tank C.P. (chrome plated) connector, thimble, etc. a. Type - EWC	8	No.	15,500	124,000.00
02-05P2	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.	12,300	270,600.00
02-05P3	Urinal wall hung type with automatic 1/2" size flush valve, CP trap, waste, connector and fixing accessories.		No.		
02-05P4	Wash basin (WB) including C.P P- trap/Bottle Trap, stop cocks, etc. i. Type - WB - V(Vanity)	21	No.	13,300	279,300.00
02-05P5	Wash basin hot and cold water mixer, waste, etc for following. i. Type - WB - V(Vanity)		No.		
02-05P6	Toilet Hand Shower with flexible chain & telephone type shower Including tee stop cock etc. complete in all respect. Type - TS	30	No.	3,900	117,000.00
02-05P7	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.	6	No.	8,150	48,900.00
02-05P8	Sink hot and cold water mixer, etc, for following. a. For SK-1		No.		
02-05P9	S.S Grease Trap 7.5 Kg. capacity, inlet/outlet 2" Dia connections.		No.		
02-05P10	Toilet accessories complete set, (Imported make) i. Soap dispenser ii. Toilet paper holder iii. Coat Hook iv. Hand Dryer v. Paper Rack	8 30 8 8 8	No. No. No. No. No.	840 955 115 2,450 1,630	6,720.00 28,650.00 920.00 19,600.00 13,040.00
	<u>Plumbing Water Supply</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
02-05P11	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)	120	Rft.	120	14,400.00
	ii) ¾" internal dia (32 mm outer dia)	360	Rft.	160	57,600.00
	iii) 1" internal dia (40 mm outer dia)	645	Rft.	235	151,575.00
	iv) 1¼" internal dia (50 mm outer dia)	140	Rft.	375	52,500.00
	v) 1½" internal dia (63 mm outer dia)	180	Rft.	620	111,600.00
	vi) 2" internal dia (75 mm outer dia)		Rft.		
	vii) 2½" internal dia (90 mm outer dia)		Rft.		
02-05P12	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)	8	No	1,755	14,040.00
	ii) 1" internal dia (40 mm outer dia)	2	No	5,750	11,500.00
	iii) 1¼" internal dia (50 mm outer dia)	2	No	8,540	17,080.00
	iv) 1½" internal dia (63 mm outer dia)	1	No	12,800	12,800.00
	v) 2" internal dia (75 mm outer dia)		No		
	vi) 2½" internal dia (90 mm outer dia)		No		
	<u>Plumbing Sewerage</u>				
02-05P13	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	255	Rft.	130	33,150.00
	3" dia		Rft		
	4" dia	875	Rft.	225	196,875.00
	6" dia		Rft.		

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
02-05P14	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.	40	No.	1,690	67,600.00
02-05P15	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.		
02-05P16	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.	5	No.	9,600	48,000.00
02-05P17	Providing and fixing Clean Out complete in all respects	18	No.	1,880	33,840.00
	<u>Water Cooler</u>				
02-05P18	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.	145,000	580,000.00
	<u>EXTERNAL DEVELOPMENT</u>				
	<u>Septic Tank</u>				
02-05P19	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)	10	Rft.	590	5,900.00
	2" dia pipe sleeves 9" long	5	No.s	590	2,950.00
	<u>Soakage Pit</u>				
02-05P20	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.	170	850.00
	<u>Ground Water Storage Tank</u>				
02-05P21	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	5	Rft.	170	850.00
	ii) 1½" dia	5	Rft.	435	2,175.00
	ii) 2" dia, pipe sleeve 9" long	2	No.s	650	1,300.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
02-05P22	Supply and fitting of M.S manhole cover (size 2x2) with frame, painted black on both sides etc complete in all respects as per drawing and directed by the Engineer. <u>Kanchan Arsenic Filter</u> Filter Material.	2	No.	24,500	49,000.00
02-05P23	Providing & laying gravel, including screening and washing as per drawing or directed by the Engineer. Gravel size 6 mm to 15 mm.	21	Cft	90	1,890.00
02-05P24	Providing & laying coarse sand, including screening and washing as per drawing or directed by the Engineer.	42	Cft	30	1,260.00
02-05P25	Providing & laying fine sand, including screening and washing as per drawing or directed by the Engineer.	42	Sq.ft.	32	1,344.00
02-05P26	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.	335	12,395.00
02-05P27	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.	80	720.00
02-05P28	Providing & laying iron nails with out coating (1" thick layer) as per drawing or directed by the Engineer.	125	Kg.	145	18,125.00
02-05P29	Providing & fixing cover over Kanchan Filter of PVC sheet 1/2" thick, as per drawing or directed by the Engineer.	32	Sq.ft.	240	7,680.00
02-05P30	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.	170	3,910.00
02-05P31	Providing and fixing Plastic Shower Heads <u>Tube Well / Penumatic Pump</u>	9	Nos	240	2,160.00
02-05P32	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.	335	33,500.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
02-05P33	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.	355	17,750.00
02-05P34	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.	100	100.00
02-05P35	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)	104	Rft.	53	5,512.00
		72	Rft.	70	5,040.00
		38	Rft.	135	5,130.00
02-05P36	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.	125	5,000.00
02-05P37	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)	72	Rft.	415	29,880.00
02-05P38	Testing and developing of bore hole, complete in all respect and as directed by the Engineer.	3	Per Hr.	1,800	5,400.00
02-05P39	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.	160	7,200.00
02-05P40	Providing/fixing Injector valve as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	Each.	240	240.00
02-05P41	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.	75	75.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
02-05P42	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.	50,000	50,000.00
	<u>EXTERNAL PIPING</u> <u>Plumbing Water Supply</u>				
02-05P43	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)	63	Rft.	170	10,710.00
	iii) 1" internal dia (40 mm outer dia)		Rft.		
	iv) 1¼" internal dia (50 mm outer dia)	126	Rft.	390	49,140.00
	v) 1½" internal dia (63 mm outer dia)	31	Rft.	630	19,530.00
	vi) 2" internal dia (75 mm outer dia)		Rft.		
	vii) 2½" internal dia (90 mm outer dia)		Rft.		
02-05P44	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)	1	No	1,810	1,810.00
	ii) 1" internal dia (40 mm outer dia)		No		
	iii) 1¼" internal dia (50 mm outer dia)	1	No	8,710	8,710.00
	iv) 1½" internal dia (63 mm outer dia)	1	No	12,150	12,150.00
	v) 2" internal dia (75 mm outer dia)		No		
	vi) 2½" internal dia (90 mm outer dia)		No		
	<u>Plumbing Sewerage</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
02-05P45	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 (Sleeves at P. Beams already provided)	32 550	Rft. Rft. Rft. Rft.	230 580	7,360.00 319,000.00
02-05P46	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.		No.		
02-05P47	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.		
02-05P48	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.		No.		
02-05P49	Providing and fixing Clean Out complete in all respects		No.		
	<u>Water Supply Pump For GST</u>				
01-05P50	Supply at site, installation, testing and commissioning of water supply reciprocating pump with 2HP motor as per spacification complete in all respect.	2	No	26,000	52,000.00
Total C/o to Summary for Plumbing Wroks Pak Rs.					3,069,036

SINDH BASIC EDUCATION PROGRAM
CONSTRUCTION OF NEW SCHOOLS AND UPGRADATION OF EXISTING SCHOOLS
PACKAGE- 01A-KHR (Balance Work), DISTRICT KHAIRPUR
GBHS TANDO NAZAR ALI (P01A-KHR03)

SUMMARY OF TENDERED COST (BALANCE WORKS)

CODE	DESCRIPTION	M/s Kaybee - BS (JV)
	A. GENERAL ITEMS	962,900
	B. CIVIL WORKS	63,768,110
	C. EXTERNAL WORKS	9,178,677
	D. ELECTRICAL WORKS	9,842,450
	E. PLUMBING WORKS	3,099,186
	Sub-Total	86,851,323

**SECTION 1
GENERAL WORKS
BILL OF QUANTITIES**

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	<u>Temporaray Facilities (Optional Items)</u>				
01- 01 G 1	Ref.Spec. No. G05 Novation of agreement of already provided rental building and maintaining of it area 1,200 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	50,000	600,000
	OR				
01- 01 G 2	Providing and maintaining a tent school of area 1,200 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		
01- 01 G 3	Providing and maintaining porta cabins for school of area 1,200 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		-
	Sub- Total (Rs.)				600,000
	<u>Site Clearing and Grubbing</u>				
01- 01 G 4	Ref.Spec. No. C01 Clearing, removal of debris from site and Grubbing complete in all respect as directed by the Engineer.	24,450	Sft	3.00	73,350
	<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.	1,050	Sft	20	21,000
01- 01 G 6	Dismantling, removing of existing sewerage lines as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	0	Rft.		
01- 01 G 7	Dismantling, removing of existing water supply lines as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	0	Rft.		
01- 01 G 8	Dismantling, removing of existing electrical supply line as directed by the Engineer.	0	Rft.		
01- 01 G 9 (a)	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.	725	Rft	18	13,050

**SECTION 1
GENERAL WORKS
BILL OF QUANTITIES**

**SINDH BASIC EDUCATION PROGRAM
GBHS TANDO NAZAR ALI**

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01-01 G 9 (b)	Dismantling of existing below plinth portion 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	20	500
<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	150,000	150,000
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	25,000	25,000
<u>SIGN BOARD / PLAQUE</u>					
Ref.Spec. No. SP 100					
01-01 G 12	Maintenance of (already fixed) Project sign board for construction duration as directed by the Engineer.	1	Job	10,000	10,000
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	40,000	40,000
<u>WATER TESTING</u>					
Ref.Spec. No.					
01-01 G 14	Sampling and testing of Water from bore of well (TDS) including submission of report as per specification.	1	Each	30,000	30,000
Total General Items (Rs.)					362,900
Sub- Total C/o to Summary General Items Pak Rs.					962,900

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	<u>CONSTRUCTION OF SCHOOL BUILDING</u>				
	<u>SUB-STRUCTURE</u>				
	<u>EARTHWORKS</u>				
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.	0 0	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. c) Compaction of top layer as per specifications and as directed by the Engineer.	0 17,515 12,850	Cft. Cft. Sft.	18 6.00	315,270 77,100
	<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	0 0	L.S. Day		
	<u>TERMITE CONTROL TREATMENT</u>				
	Ref.Spec. No. C03				
01- 02 C 4	Termite control treatment to specified surfaces following structures complete in all respect as per drawings and specification: (Under sub floor only)	19,500	Sq.ft.	25	487,500
	<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.	3.00	ton.	140000.00	420,000
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.	0	ton.		
	<u>PLAIN AND REINFORCED CONCRETE AND</u>				
	<u>FORMWORKS</u>				
	Ref.Spec. No. C04				
01- 02 C 7	Blinding concrete 1250 psi using Type-V cement.	0	Cft.		
01- 02 C 8	Reinforced cement concrete using Type-V cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in:				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	a) Raft foundation slab	0	Cft.		
	b) Columns upto plinth (within Plinth beam portion)	1,780	Cft.	385.00	685,300
	c) Plinth beams	3,282	Cft.	385.00	1,263,570
	<u>BRICK MASONRY</u>				
	Ref.Spec. No. C05				
07- 02 C 9	Solid brick masonry under the plinth beam of one and half brick thickness, set in 1:4 cement 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.	0	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.	12700	Sq.ft.	40	508,000
	<u>P.C.C UNDER FLOORING</u>				
	Ref.Spec. No. C07				
01- 02 C 11	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	12700	Sq.ft.	85	1,079,500
	<u>PLINTH PROTECTION</u>				
	Ref.Spec. No. C04 & C07				
01- 02 C 12	Blinding concrete 1250 psi using Type-V cement.	560	Cft.	185	103,600
	<u>PROTECTION WORKS</u>				
	Ref.Spec. No. C16				
01- 02 C 13	Vapor barrier sheet, under the floor as per drawings and specifications.	12500	Sq.ft.	13	162,500
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.	4450	Sq.ft.	14	62,300
	<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.	35	ton.	140000	4,900,000
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.	1	ton.	140000	140,000
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u>				
	Ref.Spec. No. C04				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
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 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	2300 2900 7050 350	Cft. Cft. Cft. Cft.	425 425 425 425	977,500 1,232,500 2,996,250 148,750
	<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.	36	ton.	140000	5,040,000
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.	1	ton.	140000	140,000
<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 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	2350 3000 7150 176	Cft. Cft. Cft. Cft.	425 425 425 425	998,750 1,275,000 3,038,750 74,800
	<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.	4.5	ton.	140000	630,000
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.	1	ton.	140000	140,000
<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u>					
	Ref.Spec. No. C04				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
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 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	110 125 280 925 1150 396 20	Cft. Cft. Cft. Cft. Rft. Cft. Cft.	425 425 425 425 425 425 425	46,750 53,125 119,000 393,125 488,750 168,300 8,500
	<u>FINISHING WORKS</u> <u>For Ground floor</u> <u>BRICK MASONRY</u> Ref.Spec. No. C05				
01- 02 C 24	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	1750 7650 30	Cft. Cft. Cft.	265 265 265	463,750 2,027,250 7,950
	<u>DOORS FRAMES</u> Ref.Spec. No. C09 & C11				
01- 02 C 25	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.	1072	R.ft.	290	310,880
	<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.	48	18,000
01- 02 C 27	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.	11225	Sq.ft.	48	538,800

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 02 C 28	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.	24000	Sq.ft.	40	960,000
<u>ALUMINIUM WORKS</u>					
Ref.Spec. No. C11					
01- 02 C 29	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.	2130	Sq.ft.	1000	2,130,000
01- 02 C 30	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.	950	110,200
<u>STRUCTURAL STEEL</u>					
Ref. Sec.No. C13					
01- 02 C 31	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.	2625	Kg	210	551,250
01- 02 C 32	Providing and fixing railing for stairs/ramps as per drawing and specifications complete in all respect.				
	a) MS railing stairs	55	Rft	500	27,500
	b) M.S railing at entrance	50	Rft	500	25,000
01- 02 C 33	Providing and fixing MS pipe railing for courtyard with paintings, as per drawing and specifications complete in all respect and approved by the Engineer.	215	Rft	1600	344,000
01- 02 C 34	Providing and fixing MS folding gate (Emergency Exit) with paintings, complete in all respects as per drawing and specifications.	1	No	65000	65,000
<u>FLOOR AND WALL FINISHES</u>					
Ref.Spec. No. C07					

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 02 C 35	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.	11225	Sq.ft.	180	2,020,500
01- 02 C 36	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.	150	Sq.ft.	180	27,000
01- 02 C 37	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.	790	Sq.ft.	185	146,150
01- 02 C 38	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.	825	Sq.ft.	215	177,375
01- 02 C 39	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.	2400	Sq.ft.	225	540,000
MARBLE WORKS					
Ref.Spec. No. C07 & C08					
01- 02 C 40	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)	100	Sq.ft.	300	30,000
	b) Entrance Steps Risers (1/2" thick)	50	Sq.ft.	180	9,000
01- 02 C 41	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.	400	Sq.ft.	300	120,000
01- 02 C 42	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.	100	Sq.ft.	180	18,000
01- 02 C 43	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.	60	Sq.ft.	180	10,800

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 02 C 44	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.	122	Sq.ft.	25	3,050
	<u>PAINTING</u> Ref.Spec. No. C10				
01- 02 C 45	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.	24000	Sq.ft.	25	600,000
01- 02 C 46	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.	24000	Sq.ft.	35	840,000
01- 02 C 47	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.	32	12,000
	<u>WOODEN DOORS</u> Ref.Spec. No. C09				
01- 02 C 48	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.	875	Sq.ft.	950	831,250
01- 02 C 49	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.	165	Sq.ft.	415	68,475
	<u>FALSE CEILING</u> Ref.Spec. No.				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 02 C 50	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.	1210	Sq.ft.	105	127,050
	<u>Pre cast C.C Patren jali</u> Ref.Spec. No.				
01- 02 C 51	C.C Patren jali as per approved designed and specification	630	Sq.ft.	110	69,300
	<u>BRICK FACING</u> Ref.Spec. No. C05				
01- 02 C 52	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.	10000	Sq.ft.	200	2,000,000
	<u>FINISHING WORKS</u> <u>For First floor</u> <u>BRICK MASONRY</u> Ref.Spec. No. C05				
01- 02 C 53	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	1000	Cft.	265	265,000
	b) 9" thick	7750	Cft.	265	2,053,750
	c)13-1/2" thick	20	Cft.	265	5,300
	<u>DOORS FRAMES</u> 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.	823	R.ft.	280	230,440
	<u>CEMENT PLASTER</u> Ref.Spec. No. C 06				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
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.	48	8,400
01- 02 C 56	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.	12325	Sq.ft.	48	591,600
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.	22000	Sq.ft.	40	880,000
<u>ALUMINIUM WORKS</u>					
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 & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	2250	Sq.ft.	1000	2,250,000
<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.	2775	Kg	210	582,750
01- 02 C 60	Providing and fixing MS stair railing as per drawing and specifications complete in all respect.	30	Rft	500	15,000
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.	230	Rft	1600	368,000
<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.	12325	Sq.ft.	180	2,218,500
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.	850	Sq.ft.	185	157,250

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
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.	825	Sq.ft.	215	177,375
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.	2375	Sq.ft.	225	534,375
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.	200	Sq.ft.	300	60,000
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.	180	9,000
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.	180	9,000
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.	35	Sq.ft.	180	6,300
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.	95	Sq.ft.	280	26,600
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.	12325	Sq.ft.	25	308,125

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
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.	22000	Sq.ft.	35	770,000
	<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 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.	700	Sq.ft.	950	665,000
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.	135	Sq.ft.	415	56,025
	<u>FALSE CEILING</u>				
	Ref.Spec. No.				
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.	815	Sq.ft.	105	85,575
	<u>Pre cast C.C Patren jali and Railing</u>				
	Ref.Spec. No.				
01- 02 C 76	C.C Patren jali as per approved designed and specification	630	Sq.ft.	110	69,300
	<u>BRICK FACING</u>				
	Ref.Spec. No. C05				
01- 02 C 77	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.	7100	Sq.ft.	200	1,420,000
	<u>WATER PROOFING AND BUILTUP ROOFING</u>				
	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.	13950	Sq.ft.	350	4,882,500
	<u>FINISHING WORKS</u>				
	<u>For Roof floor / Secound floor</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	<u>BRICK MASONRY</u>				
	Ref.Spec. No. C05				
01- 02 C 79	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	30	Cft.	265	7,950
	b) 9" thick	490	Cft.	265	129,850
	c)13-1/2" thick	20	Cft.	265	5,300
	<u>DOORS FRAMES</u>				
	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 patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	63	R.ft.	280	17,640
	<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.	1920	Sq.ft.	48	92,160
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.	200	Sq.ft.	48	9,600
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.	850	Sq.ft.	40	34,000
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.	438	Sq.ft.	40	17,520
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 compound Aquafin 1C or approved equivalent.	438	Sq.ft.	115	50,370

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
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.	25000	50,000
<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.	200	Sq.ft.	180	36,000
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.	20	Sq.ft.	185	3,700
<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.	300	1,800
<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.	450	Sq.ft.	25	11,250
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.	850	Sq.ft.	35	29,750
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.	1920	Sq.ft.	32	61,440
<u>WOODEN DOORS</u>					
Ref.Spec. No. C 09, C12					

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
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 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. <u>Pre cast C.C Patren jali and Railing</u> Ref.Spec. No.	50	Sq.ft.	950	47,500
01- 02 C 94	C.C Patren jali as per approved designed and specification	630	Sq.ft.	110	69,300
01- 02 C 95	Precast water spout as per approved designed and specification <u>BRICK FACING</u> Ref.Spec. No. C05	22	No.	510	11,220
01- 02 C 96	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.	4100	Sq.ft.	200	820,000
Total C/o to Summary for CIVIL WORKS Pak Rs.					63,768,110

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	<u>EXTERNAL DEVELOPEMENT</u>				
	<u>CONSTRUCTION OF BOUNDARY WALL</u>				
	Ref.Spec. No. C02				
	<u>EARTHWORKS</u>				
	Ref.Spec. No.				
01-	03 D 2 a) 0 ft to 5 ft	3,150	Cft.	8	25,200
	Fill and backfill with selected materials obtained from excavation including watering and compaction to every layer as per specification.				
01-	03 D3 Fill and backfill with selected materials from borrow area including watering and compaction to every layer as per specification.	200	Cft.	5	1,000
		6,600	Cft.	14	92,400
	<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		L.S.	50,000	-
	b) Dewatering		Day	5,000	-
	<u>TERMITE CONTROL TREATMENT</u>				
	Ref.Spec. No. C03				
01-	03 D5 Termite control treatment to specified surfaces following structures complete in all respect as per drawings and specification:	800	Sq.ft.	25	20,000
	<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.	7	ton.	140000	980,000
	<u>PLAIN AND REINFORCED CONCRETE</u>				
	Ref.Spec. No. C04				
01-	03 D7 Blinding concrete 1250 psi using Type-V cement.	400	Cft.	185	74,000
01-	03 D8 Reinforced cement concrete using Type-V cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification.				
	a) Footings	1,710	Cft.	385	658,350
	b) Columns upto plinth	290	Cft.	385	111,650
	c) Plinth beams	255	Cft.	385	98,175
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	610	Cft.	385	234,850
	<u>BRICK MASONRY</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 03 D10	Ref.Spec. No. C05 Solid brick masonry wall 9" thick with Type-V cement set in 1:4 cement sand mortar, straight or curve below plinth beam 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	255	Cft.	265	67,575
01- 03 D11	Solid brick masonry wall with pointing on exterior faces above plinth beam 4-1/2" 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.	1,775	Cft.	265	470,375
<u>CEMENT PLASTER</u>					
01- 03 D12	Ref.Spec. No. C06 3/4" thick, 1:4 cement sand plaster to specified exterior surfaces (Columns, wall, beams and projections etc.) including making grooves as per design and elevation complete in all respect as shown on the drawings.	7,783	Sq.ft.	48	373,584
<u>PROTECTION WORKS</u>					
01- 03 D13	Ref.Spec. No. C16 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.	2,200	Sq.ft.	30	66,000
<u>COPING</u>					
01- 03 D14	Ref.Spec. No. C04 Providing and fixing 3" thick coping including plaster using OP cement for boundary wall complete as shown on the drawings.	800	Rft.	200	160,000
<u>STRUCTURAL STEEL</u>					
01- 03 D15	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	90000	180,000
01- 03 D16	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	25000	50,000
<u>LANDSCAPING</u>					
Ref. Sec.No.					

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 03 D 17	Fill and backfill with selected materials including watering and compaction to every layer as per specification.	2,450	Cft.	5	12,250
01- 03 D18	Area Fill with selected materials including watering and compaction to every layer as per	33,200	Cft.	14	464,800
01- 03 D19	Relocation and replanting of removed trees as per specifications and and as directed by the Engineer.	3	No.	1000	3,000
01- 03 D20	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.	11,400	Sq.ft.	40	456,000
01- 03 D21	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.	11,400	Cft.	14	159,600
01- 03 D22	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)	12	No.	200	2,400
	b) Babul tree (3 to 4 feet)	12	No.	200	2,400
	c) Golmohar (3 to 4 feet)	12	No.	200	2,400
	d) Champa (2 to 3 feet)	40	No.	200	8,000
	e) Crape Jasmine (2 to 3 feet)	50	No.	200	10,000
	f) Cement Concrete planters.	30	Rft	400	12,000
	<u>Foothpath Walkway (Precast Paving Blocks / Tiles)</u> Ref. Sec.No.				
01- 03 D23	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.	4,950	Sq.ft.	25	123,750
01- 03 D24	Precast cement concrete paving blocks Envicrete or approved equivalent of size 8" x 4" x 1.5" laid in approved pattern including 2" thick sand cushion,	4,950	Sq.ft.	170	841,500
01- 03 D25	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.	645	Rft	350	225,750
	<u>EXTERNAL SEWER & MANHOLES</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 03 D26	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	10	Nos.	25000	250,000
	ii. 36" x 36" SIZE	8	Nos.	30000	240,000
01- 03 D27	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.	18	No.	30000	540,000
	Septic Tank				
01- 03 D28	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	830	Cft.	8	6,640
	b) More than 5 ft upto 10 ft.	430	Cft.	10	4,300
01- 03 D29	Blinding concrete 1250 psi using Type-V cement.	55	Cft.	185	10,175
01- 03 D30	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing compound Aquafin 1C or approved equivalent.	630	Sq.ft.	115	72,450
01- 03 D31	Reinforced cement concrete using Type-V cement having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer.				
	a) Base Slab.	111	Cft.	385	42,735
	b) Walls including chamfer etc.	345	Cft.	385	132,825
	c) Top Slab	70	Cft.	385	26,950
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	140000	210,000
01- 03 D33	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.	48	4,320
01- 03 D34	3/4" 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

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 03 D35	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.	48	20,640
01- 03 D36	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.	300	15,300
01- 03 D37	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.	30000	60,000
01- 03 D38	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No.	3000	48,000
	<u>Soakage Pit (Option-1)</u>				
01- 03 D39	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	890	Cft.	8	7,120
	b) More than 5 ft upto 10 ft.	890	Cft.	10	8,900
	c) More than 10 ft upto 17 ft.	980	Cft.	30	29,400
01- 03 D40	Blinding concrete 1250 psi using Type-V cement.	25	Cft.	185	4,625
01- 03 D41	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar.				
	a) 18" thick	640	Cft	265	169,600
	b) 13-1/2" thick	180	Cft	265	47,700
	b) 9" thick	90	Cft	265	23,850
01- 03 D42	Reinforced cement concrete using Type-V cement 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	500	45,000
01- 03 D43	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.25	Ton	140000	35,000

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 03 D44	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	30000	30,000
01- 03 D45	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No	3000	48,000
<u>Ground Storage Tank</u>					
01- 03 D46	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	725	Cft.	8	5,800
	b) More than 5 ft upto 10 ft.	12	Cft.	10	120
01- 03 D47	Blinding concrete 1250 psi using Type-V cement.	48	Cft.	185	8,880
01- 03 D48	Reinforced cement concrete using Type-V cement having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer.				
	a) Base Slab.	100	Cft.	385	38,500
	b) Walls including chamfer etc.	255	Cft.	385	98,175
	c) Top slabs	60	Cft.	385	23,100
	d) Precast Slab	10	Cft.	600	6,000
01- 03 D49	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	1	Ton	140000	140,000
01- 03 D50	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.	300	16,500
01- 03 D51	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) 9" thick	66	Cft.	265	17,490

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 03 D52	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.	30000	60,000
01- 03 D53	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	10	No.	3000	30,000
01- 03 D54	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.	48	25,440
01- 03 D55	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.	48	5,568
01- 03 D56	3/4" 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.	675	Sq.ft.	40	27,000
01- 03 D57	2" thick, 3000 cement concrete floor smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	141	Sq.ft.	60	8,460
01- 03 D58	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.	100	Sq.ft.	30	3,000
01- 03 D59	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.	16	Sq.ft.	25	400

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 03 D60	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.	60	Sq.ft.	35	2,100
01- 03 D61	MS Door including paint etc complete in all respect as shown in the drawings.	15	Sq.ft.	750	11,250
01- 03 D62	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing compound Aquafin 1C or approved equivalent.	585	Sq.ft.	115	67,275
<u>Tube Well / Penumatic Pump</u>					
<u>Construction works</u>					
01- 03 D63	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	85	Cft.	8	680
01- 02 C 64	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.	5	100
		40	Cft.	15	600
01- 03 D65	Blinding concrete 1250 psi using Type-V cement.	50	Cft.	185	9,250
01- 03 D66	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	15	Cft.	405	6,075
01- 03 D67	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.05	Ton	140000	7,000
01- 03 D68	Solid brick masonry wall with brick coping 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 specification.				
	a) 18" thick	40	Sft	265	10,600
	b) 13-1/2" thick	30	Sft	265	7,950
	a) 9" thick	175	Sft	265	46,375

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 03 D69	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.	48	13,680
01- 03 D70	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.	48	1,200
01- 03 D71	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.	40	6,000
01- 03 D72	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 D73	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.	85	2,125
01- 03 D74	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.	60	1,500
01- 03 D75	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.	60	1,980
01- 03 D76	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.	32	9,120
01- 03 D77	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.	25	625

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 03 D78	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.	35	5,250
01- 03 D79	Vapor barrier sheet, under foundations and floor as per drawings and specifications.	25	Sq.ft.	13	325
01- 03 D80	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.	30	7,500
	<u>Kanchan Arsenic filter</u>				
01- 03 D81	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.	8	600
01- 03 D82	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.	5	250
		100	Cft.	14	1,400
01- 03 D83	Blinding concrete 1250 psi using Type-V cement.	15	Cft.	185	2,775
01- 03 D84	Reinforced cement concrete using SR cement 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.	385 385 385 385	9,625 7,700 13,475 30,800
01- 03 D85	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.5	Ton	135000	67,500
01- 03 D86	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

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 03 D87	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.	85	7,140
01- 03 D88	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.	65	5,460
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.	48	7,296
01- 03 D90	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.	40	5,040
01- 03 D91	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing compound Aquafin 1C or approved equivalent.	126	Sq.ft.	115	14,490
01- 03 D92	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.	30	6,540
Sub- Total C/o to Summary for External Development work Pak Rs.					9,063,183

BILL OF QUANTITIES
(Holding Tank & Soakage Trench 80')

Item	Item Description	Qty	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	<u>EXTERNAL DEVELOPMENT</u>				
	<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.	8 14	6,040 7,560
01- 03 D93	Blinding concrete 1250 psi using slag cement conforming to BS-146	50	Cft.	185	9,250
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.	30	13,980
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.	385 385 385	41,195 128,975 34,265
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	140000	161,000
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.	48	4,896
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.	48	22,368
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.	300	13,200
01- 03 D101	Supply and fix water tight (Round Type, 24") Pre-cast heavy duty cover with M.S frame work, including liftrng handle, making good, complete in all respect as per specification and as directed by the Engineer.	2	No.	30000	60,000

BILL OF QUANTITIES
(Holding Tank & Soakage Trench 80')

Item	Item Description	Qty	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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.	3000	48,000
Sub-Total					564,689
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.	8	41,000 -
01-03 D104	Blinding concrete 1250 psi using slag cement conforming to BS-146	151	Cft.	185	27,935
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	265	137,800
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	250	Cft	405	101,250
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	140000	79,800
01-03 D108	Supply and fix water tight (Round Type, 24") Pre-cast heavy duty cover with M.S frame work, including liftrng handle, making good, complete in all respect as per specification and as directed by the Engineer.	6	No.	30000	180,000
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	3000	54,000
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	50	7,500
Sub-Total					629,285
Total					1,193,974
Less Cost of Additional Two Options					(1,078,480)
C/o to Summary for External Development work Pak Rs					9,178,677

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
03-04E1	<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.	240,000	240,000
	ii) DBLP-GF1	1	No.	206000	206,000
	iii) DBLP-GF2	1	No.	165000	165,000
	vi) DBLP-FF1	1	No.	132000	132,000
	v) DBLP-FF2	1	No.	222000	222,000
	vi) MCC-WP	1	No.	290000	290,000
	vii) DB-EXT (IP 54)	1	No.	130000	130,000
03-04E2	<p><u>PART-2: CABLES AND CONDUITS</u> <u>L.V. Power Cables</u></p> <p>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.</p>				
	a) 4 Core Cu/PVC/PVC CABLE				
	i. 4 core 10mm.sq.	415	R.ft	580	240,700
	ii. 4 core 16mm.sq.	385	R.ft	775	298,375
	iii. 4 core 95mm.sq.	75	R.ft	3200	240,000
	b) Circuit Protective Conductor (CPC)				
	i. 1 core 10mm sq. PVC insulated colour Green/Yellow.	415	R.ft	135	56,025

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
ii.	1 core 16mm sq. PVC insulated colour Green/Yellow.	385	R.ft	180	69,300
iii.	1 core 50mm sq. PVC insulated colour Green/Yellow.	75	R.ft	470	35,250
03-04E3	<p><u>P.V.C. Conduit and Accessories</u></p> <p>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.</p> <p>a) 32mm dia. PVC conduit to pull electric cable. 390 R.ft 140 54,600</p> <p>b) 38mm dia. PVC conduit to pull electric cable. 365 R.ft 180 65,700</p> <p>c) 50mm dia. PVC conduit to pull electric cable. 50 R.ft 260 13,000</p> <p>d) 75mm dia. PVC conduit to pull electric cable. 150 R.ft 550 82,500</p>				
	<p>PART-3 <u>Wiring & Conduiting</u></p>				
03-04E4	<p><u>Circuit Wiring & Conduiting</u></p> <p>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. 6150 196,800</p> <p>b) Same as item (a) but wiring from switch to switch. 85 Nos. 1430 121,550</p> <p>c) Wiring from switch/dimmer to first light/fan point 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 and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer. 224 Nos. 1280 286,720</p>				
	<p>d) Wiring and conduiting of light point to point 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. 136 Nos. 1085 147,560</p>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
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.	26	Nos.	7900	205,400
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.	25	Nos.	530	13,250
g)	Same as (f) 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.	41	Nos.	1930	79,130
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.	4250	17,000
PART-4: <u>LIGHT FIXTURES, FANS, SWITCHES, OUTLETS & ACCESSORIES</u>					
03-04E5	<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 w electronic ballast.	97	Nos.	2430	235,710
b.	Fluorescent Light TMS 015 with 1x18Watt TL-D lamp color 84 w electronic ballast.	7	Nos.	1490	10,430
c.	Fluorescent Light TCS398 with 2x36Watt TL-D lamp color 84 with M2 Louver & electronic ballast.	31	Nos.	8800	272,800
d.	Fluorescent Light TCS398 2x36Watt TL-D lamp color 84 with M6 Louver & electronic ballast.	126	Nos.	7890	994,140

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	e. Fluorescent Light TBS 318 with 1x36Watt TL-D lamp color 84 w electronic ballast.	16	Nos.	8880	142,080
03-04E6	<u>Ceiling Fans</u> Supply, installation and commissioning of ceiling fans of following sizes steel body, 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.	17	Nos.	7150	121,550
	b. 48" dia.	63	Nos.	6300	396,900
	c. 36" dia.	1	Nos.	5700	5,700
03-04E7	<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	18	Nos.	590	10,620
	ii) Two gang - 1 Way Switch	38	Nos.	740	28,120
	iii) Three gang - 1 Way Switch	15	Nos.	910	13,650
	iv) Four gang - 1 Way Switch	1	Nos.	1400	1,400
	v) One gang - Fan Dimmer	9	Nos.	990	8,910
	vi) Two gang - Fan Dimmer	36	Nos.	2210	79,560
03-04E8	<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.	30	Nos.	980	29,400
	ii) 13A, 3-pin Simplex Switch Socket outlet.	40	Nos.	970	38,800
	iii) 13A, 3-pin Duplex Switch Socket outlet.	17	Nos.	1490	25,330
	iv) 15A, 3-pin simplex Switch Socket outlet.	7	Nos.	1170	8,190
	v) Floor Box - Type B	24	Nos.	2980	71,520
03-04E9	<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.				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
i)	30 Amp SPN LBS	1	Nos.	1750	1,750
03-04E10	<u>PART-5: EARTHING SYSTEM</u> <u>Earth Electrode</u> Supply at site and installation of Stainless Steel copper claded earth electrodes, 10 feet long and 20mm dia including cost of all necessary materials, complete in all respects, as per specification.	0	Nos.		
03-04E11	<u>Copper Conductor</u> a) Supply, installation and connecting up of 1 x 16sqmm 1-Core Cu/PVC cable, in 38mm dia uPVC Class-d conduit directly buried in ground, 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	390	3,900
	b) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia uPVC Class-d 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.	40	R.ft	390	15,600
	c) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia uPVC Class-d 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.	100	R.ft	355	35,500
	d) Supply, installation and connections of bare copper conductor 2x50 mm sq. in 38mm dia uPVC Class-d conduit, from building rebars 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.	250	R.ft	615	153,750

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
03-04E12	<p>e) Supply, installation and connections of copper conductor 1x50 mm sq. 1-Core Cu/PVC cable, in 38mm dia uPVC Class-d 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.</p> <p><u>Earth Connecting Points (ECP)</u></p>	15	R.ft	615	9,225
03-04E13	<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> <p><u>ECP (in inspection Chamber)</u></p>	2	Nos.	90000	180,000
03-04E14	<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> <p><u>Earth pit / Inspection Chamber</u></p>	2	Nos.	8000	16,000
03-04E15	<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> <p><u>Testing</u></p>	2	Nos.	5500	11,000
03-04E16	<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> <p>PART-6: <u>TELEPHONE / VOICE SYSTEM</u></p> <p><u>Telephone / Data Network</u></p>	1	Job	15000	15,000

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	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.	275	R.ft	55	15,125
	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.	2150	R.ft	95	204,250
	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.	180	R.ft	95	17,100
	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	35	Nos.	1650	57,750
	ii) Duplex Outlet RJ 45	4	Nos.	2800	11,200
03-04E17	<u>Utility 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.	39000	39,000
03-04E18	<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.	29000	29,000
	ii) 8 Port Patch Panel	2	Nos.	16000	32,000
03-04E19	<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.	300	1,500

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	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	38	Nos.	1450	55,100
	ii) 3 meter long	38	Nos.	2100	79,800
03-04E20	<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.	37680	37,680
03-04E21	<u>Telephone Sets</u> Supply and connection of following type of Telephone sets.				
	a) Telephone with CLI Module	2	Nos.	11000	22,000
	b) Telephone without CLI Module	3	Nos.	6000	18,000
	<u>PART -7 Fire Alarm System</u>				
03-04E22	<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.	16850	134,800
	ii) Heat detector with buzzer	5	Nos.	10980	54,900
	<u>PART -8 LIGHTNING PROTECTION SYSTEM</u>				
03-04E23	<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, <u>copper crossing 3"x3"</u> as shown on drawings, brass screws, all necessary fixing material / accessories, complete in all respects.	1800	R.ft.	475	855,000
03-04E24	<u>Down Conductor</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
03-04E25	<p>a) Supply at site, installation, connections of 2x50mm.sq. stranded bare copper conductor as down conductors to be installed within the columns from air terminal on roof to building rebars, all other required accessories, complete in all respects.</p> <p><u>Air terminal</u></p>	560	R.ft.	570	319,200
03-04E26	<p>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.</p> <p><u>Copper Test Link</u></p> <p>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.</p>	6	Nos.	45000	270,000
		8	Nos.	3500	28,000
<u>PART -9 Public Address System</u>					
03-04E27	<p><u>Amplifier</u></p> <p>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.</p>				
	i) 30W	2	Nos.	17500	35,000
03-04E28	<p><u>Speakers</u></p> <p>a) Supply, installation & commissioning of 10W wall mounted speaker with all accessories complete in all respects, as per approved manufacturer list.</p>				
		4	Nos.	13250	53,000
03-04E29	<p><u>Microphone</u></p> <p>Cordless Microphone.</p>				
		2	Nos.	76000	152,000
03-04E30	<p><u>Wiring</u></p>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	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.	250	R.ft.	270	67,500
	PART -10 EXTERNAL AREA LIGHTING				
03-04E31	<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.	33	Nos.	7300	240,900 -
	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.	17550	35,100 -
	c) Philips type or equivalent 50watt SON-T lamp mounted on decorative proposed pole.	0	Nos.	not required	
	d) Philips type or equivalent MMF383 flood light with 250watt SON-T lamp mounted on proposed pole.	0	Nos.	not required	
03-04E32	<u>Light Poles</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
a)	Supply and installation and Testing & Commissioning of 2.5 meter high steel decorative pole with already taken 50Watt SON-T Lamp ,complete with deep drawn base plate, pole foundation, excavation and backfilling, self locking inspection door with special key only, black anchor bolts, plastic pipes, final paint base, coaxial cable connectors, internal wiring with 3 core 2.5sqmm , and an automatic transfer switch (10 Amp-1set). galvanized nuts, galvanized washers, brackets, clamps, earth lug inside inspection door compartment and pole inner compartment suitable to hold cable connection box including all accessories etc., as per standards, specification, drawings, complete in all respects and to the approval of the Owner.	0	Nos.		-
b)	Supply and installation and Testing & Commissioning of 6 meter high hot-dipped galvanized steel pole with already taken 2 no. of 250watt lamps ,complete with deep drawn base plate, pole foundation, excavation and backfilling, self locking inspection door with special key only, black anchor bolts, plastic pipes, final paint base, coaxial cable connectors, internal wiring with 3 core 2.5sqmm , and an automatic transfer switch (10 Amp-2set). galvanized nuts, galvanized washers, brackets, clamps, earth lug inside inspection door compartment and pole inner compartment suitable to hold cable connection box including all accessories etc., as per standards, specification, drawings, complete in all respects and to the approval of the Owner.	0	Nos.	not required	-
03--04E33	<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.	7	Nos.	8500	59,500
b)	Same as item (h) but wiring from light point to light point.	28	Nos.	6300	176,400

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	c) Circuit Wiring and conduiting from DB to first light point with 1 x 6 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.	0	Nos.		-
	d) Same as item (h) but wiring from light point to light p	0	Nos.		-
03-04E34	<u>Earthing system</u> Supply, installation, testing and commissioning of Earthing System for poles including earth electrode set, with 20mm dia 7feet long driven Stainless Steel copper claded earth rod, connected with PVC insulated copper earth conductor 1 x 16 sq.mm in 25 mm dia PVC pipe, upto earth connecting point including concrete inspection chamber, medium-duty C.I. cover, etc.,complete in all respects and to the approval of the Engineer.	0	Nos.		-
	PART -11 MISCELLANEOUS WORKS				
03-04E35	<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.	100	Rft.	110	11,000
	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.	1	Nos.	7100	7,100
03-04E36	<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:				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	i) 1'-6" x 1'-6" x 2'-6" deep	2	Nos.	19000	38,000
03-04E37	<u>Utility / PTCL Connection</u>				
	a) Supply and co-ordination for the utility connection from WAPDA / HESCO as per required electrical load demand. The utility connection charges shall be paid separately as per actual on submission of receipt.	1	Job	50000	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	25000	25,000
	PART -12 SOLAR ROOM ELECTRIFICATION WORKS				
03-04E38	<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).	2	Nos.	9100	18,200
	b. Fluorescent Light TCS398 with 2x36Watt TL-D lamp color 84 with M2 Louver & electronic ballast.	2	Nos.	9500	19,000
03-04E39	<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.	1110	1,110
03-04E40	<u>SOCKETS</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	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 and approval				
	i) 13A, 3-pin Duplex Switch Socket outlet.	1	Nos.	1630	1,630
03-04E41	<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.	13500	13,500
03-04E42	<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.	6100	6,100
	b) Same as item (a) but wiring from switch to power outlet.	1	Nos.	1450	1,450
	c) Wiring from switch to first light 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 and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	4	Nos.	1290	5,160
	CARRIED FORWARD TO SUMMARY-GRAND TOTAL				9,842,450

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	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.				
03-05P1	European style coupled water closet with seat cover, flush tank C.P. (chrome plated) connector, thimble, etc. a. Type - EWC	8	No.	15,500	124,000.00
03-05P2	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.	12,300	270,600
03-05P3	Urinal wall hung type with automatic 1/2" size flush valve, CP trap, waste, connector and fixing accessories.		No.		-
03-05P4	Wash basin (WB) including C.P P- trap/Bottle Trap, stop cocks, etc. i. Type - WB - V(Vanity)	21	No.	13,300	279,300
03-05P5	Wash basin hot and cold water mixer, waste, etc for following. i. Type - WB - V(Vanity)		No.		-
03-05P6	Toilet Hand Shower with flexible chain & telephone type shower Including tee stop cock etc. complete in all respect. Type - TS	30	No.	3,900	117,000
03-05P7	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.	6	No.	8,150	48,900
03-05P8	Sink hot and cold water mixer, etc, for following. a. For SK-1		No.		-
03-05P9	S.S Grease Trap 7.5 Kg. capacity, inlet/outlet 2" Dia connections.		No.		-
03-05P10	Toilet accessories complete set, (Imported make)				
	i. Soap dispenser	8	No.	840	6,720
	ii. Toilet paper holder	30	No.	955	28,650
	iii. Coat Hook	8	No.	115	920
	iv. Hand Dryer	8	No.	2,450	19,600
	v. Paper Rack	8	No.	1,630	13,040
	<u>Plumbing Water Supply</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
03-05P11	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)	120	Rft.	120	14,400
	ii) ¾" internal dia (32 mm outer dia)	360	Rft.	160	57,600
	iii) 1" internal dia (40 mm outer dia)	645	Rft.	235	151,575
	iv) 1¼" internal dia (50 mm outer dia)	140	Rft.	375	52,500
	v) 1½" internal dia (63 mm outer dia)	180	Rft.	620	111,600
	vi) 2" internal dia (75 mm outer dia)		Rft.		-
	vii) 2½" internal dia (90 mm outer dia)		Rft.		-
03-05P12	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)	8	No	1,755	14,040
	ii) 1" internal dia (40 mm outer dia)	2	No	5,755	11,510
	iii) 1¼" internal dia (50 mm outer dia)	2	No	8,540	17,080
	iv) 1½" internal dia (63 mm outer dia)	1	No	12,800	12,800
	v) 2" internal dia (75 mm outer dia)		No		-
	vi) 2½" internal dia (90 mm outer dia)		No		-
	<u>Plumbing Sewerage</u>				
03-05P13	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	255	Rft.	130	33,150

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	3" dia		Rft		-
	4" dia	875	Rft.	225	196,875
	6" dia		Rft.		-
03-05P14	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.	40	No.	1,690	67,600
03-05P15	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.		-
03-05P16	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.	5	No.	9,600	48,000
03-05P17	Providing and fixing Clean Out complete in all respects	18	No.	1,880	33,840
	<u>Water Cooler</u>				
03-05P18	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.	145,000	580,000
	EXTERNAL DEVELOPMENT				
	<u>Septic Tank</u>				
03-05P19	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)	10	Rft.	590	5,900
	2" dia pipe sleeves 9" long	5	No.s	590	2,950
	<u>Soakage Pit</u>				
03-05P20	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.	170	850
	<u>Ground Water Storage Tank</u>				
03-05P21	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	5	Rft.	170	850
	ii) 1½" dia	5	Rft.	435	2,175
	ii) 2" dia, pipe sleeve 9" long	2	No.s	650	1,300
03-05P22	Supply and fitting of M.S manhole cover (size 2'x2') with frame, painted black on both sides, etc. complete in all respects, as per drawing and directed by the Engineer.	2	No.	24,500	49,000
	<u>Kanchan Arsenic Filter</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
Filter Material.					
03-05P23	Providing & laying gravel, including screening and washing as per drawing or directed by the Engineer. Gravel size 6 mm to 15 mm.	21	Cft	90	1,890
03-05P24	Providing & laying coarse sand, including screening and washing as per drawing or directed by the Engineer.	42	Cft	30	1,260
03-05P25	Providing & laying fine sand, including screening and washing as per drawing or directed by the Engineer.	42	Sq.ft.	32	1,344
03-05P26	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.	335	12,395
03-05P27	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.	80	720
03-05P28	Providing & laying iron nails with out coating (1" thick layer) as per drawing or directed by the Engineer.	125	Kg.	145	18,125
03-05P29	Providing & fixing cover over Kanchan Filter of PVC sheet 1/2" thick, as per drawing or directed by the Engineer.	32	Sq.ft.	240	7,680
03-05P30	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.	170	3,910
03-05P31	Providing and fixing Plastic Shower Heads	9	Nos	240	2,160
<u>Tube Well / Penumatic Pump</u>					
03-05P32	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.	335	33,500
03-05P33	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.	355	17,750
03-05P34	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.	100	100

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
03-05P35	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)	104	Rft.	53	5,512
	ii) 1-1/4" i/d(30mm)	72	Rft.	70	5,040
	iii) 2" i/d(50mm)	38	Rft.	135	5,130
03-05P36	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.	125	5,000
03-05P37	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)	72	Rft.	415	29,880
03-05P38	Testing and developing of bore hole, complete in all respect and as directed by the Engineer.	3	Per Hr.	1,800	5,400
03-05P39	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.	160	7,200
03-05P40	Providing/fixing Injector valve as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	Each.	240	240
03-05P41	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.	75	75
03-05P42	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.	50,000	50,000
	<u>EXTERNAL PIPING</u> <u>Plumbing Water Supply</u>				-
03-05P43	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)	102	Rft.	170	17,340
	iii) 1" internal dia (40 mm outer dia)		Rft.		-
	iv) 1¼" internal dia (50 mm outer dia)	176	Rft.	390	68,640

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	v) 1½" internal dia (63 mm outer dia)	30	Rft.	630	18,900
	vi) 2" internal dia (75 mm outer dia)		Rft.		-
	vii) 2½" internal dia (90 mm outer dia)		Rft.		-
03-05P44	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)	1	No	1,810	1,810
	ii) 1" internal dia (40 mm outer dia)		No		-
	iii) 1¼" internal dia (50 mm outer dia)	1	No	8,710	8,710
	iv) 1½" internal dia (63 mm outer dia)	1	No	12,150	12,150
	v) 2" internal dia (75 mm outer dia)		No		-
	vi) 2½" internal dia (90 mm outer dia)		No		-
	<u>Plumbing Sewerage</u>				-
03-05P45	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.	230	7,360
	6" dia	558	Rft.	580	323,640
03-05P46	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.		No.		-
03-05P47	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.		-
03-05P48	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.		No.		-
03-05P49	Providing and fixing Clean Out complete in all respects		No.		-
	<u>Water Supply Pump For GST</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01-05P50	Supply at site, installation, testing and commissioning of water supply reciprocating pump with 2HP motor as per specification complete in all respect.	2	No	26,000	52,000
GRAND TOTAL					3,099,186

SINDH BASIC EDUCATION PROGRAM

CONSTRUCTION OF NEW SCHOOLS AND UPGRADATION OF EXISTING SCHOOLS

PACKAGE- 01A(Balance Works): DISTRICT KHAIRPUR MIRS

GBLSS GAGHRI (P01A-KHR04)

SUMMARY OF TENDERED COST (BALANCE WORKS)

CODE	DESCRIPTION	M/s Kaybee - BS (JV)
	A. GENERAL ITEMS	301,680
	B. CIVIL WORKS	61,038,135
	C. EXTERNAL WORKS	7,053,449
	D. ELECTRICAL WORKS	8,862,705
	E. PLUMBING WORKS	3,150,778
	Sub-Total	80,406,747

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
<u>Temporaray Facilities (Optional Items)</u>					
01- 01 G 1	Ref.Spec. No. G05 Providing and maintaining a rental building of area 1,000 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	not required	
01- 01 G 2	OR Providing and maintaining a tent school of area 1,000 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	not required	
01- 01 G 3	OR Providing and maintaining porta cabins for school of area 1,000 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	not required	
Sub- Total (Rs.)					0.00
<u>Site Clearing and Grubbing</u>					
01- 01 G 4	Ref.Spec. No. C01 Clearing, removal of debris from site and Grubbing complete in all respect as directed by the Engineer.	14,000	Sft	3.00	42,000.00
<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.	0	Sft	not required	
01- 01 G 6	Dismantling, removing of existing sewerage lines as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.	not required	
01- 01 G 7	Dismantling, removing of existing water supply lines as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.	not required	
01- 01 G 8	Dismantling, removing of existing electrical supply line as directed by the Engineer.	150	Rft.	not required	
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.	110	Rft	18.00	1,980.00
01- 01 G 9 (b)	Dismatling of existing below plinth portion 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.	135	Rft	20.00	2,700.00
<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	150,000.00	150,000.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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. <u>SIGN BOARD / PLAQUE</u> Ref.Spec. No. SP 100	1	Job	25,000.00	25,000.00
01- 01 G 12	Maintanance of (already fixed) Project sign board for construction duration as directed by the Engineer.	1	Job	10,000.00	10,000.00
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	40,000.00	40,000.00
	<u>WATER TESTING</u> Ref.Spec. No.				
01- 01 G 14	Sampling and testing of Water from bore of well (TDS) including submission of report as per specification.	1	Each	30,000.00	30,000.00
	Total General Items (Rs.)				301,680.00
	Sub- Total C/o to Summary General Items Pak Rs.				301,680.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	<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	0	Cft.		
	b) More than 5 ft upto 10 ft.	0	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)	0	Cft.		
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	46,000	Cft.	18.00	828,000.00
	c) Compaction of top layer as per specifications and as directed by the Engineer.	15,300	Sft.	6.00	91,800.00
	<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	0	L.S.		
	b) Dewatering	0	Day		
	<u>TERMITE CONTROL TREATMENT</u>				
	Ref.Spec. No. C03				
01- 02 C 4	Termite control treatment to specified surfaces following structures complete in all respect as per drawings and specification: (Under sub floor only)	15300	Sq.ft.	25.00	382,500.00
	<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.	12	ton.	140000.00	1,680,000.00
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.	140000.00	140,000.00
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u>				
	Ref.Spec. No. C04				
01- 02 C 7	Blinding concrete 1250 psi using Type-V cement.	795	Cft.	185.00	147,075.00
01- 02 C 8	Reinforced cement concrete using Type-V cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in:				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	a) Raft foundation slab	0	Cft.	Already Done	
	b) Columns upto plinth	585	Cft.	385.00	225,225.00
	c) Plinth beams	3320	Cft.	385.00	1,278,200.00
	<u>BRICK MASONRY</u>				
	Ref.Spec. No. C05				
07- 02 C 9	Solid brick masonry under the plinth beam of one and half brick thickness, set in 1:4 cement 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.	1200	Cft.	265.00	318,000.00
	<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.	10880	Sq.ft.	40.00	435,200.00
	<u>P.C.C UNDER FLOORING</u>				
	Ref.Spec. No. C07				
01- 02 C 11	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	10880	Sq.ft.	85.00	924,800.00
	<u>PLINTH PROTECTION</u>				
	Ref.Spec. No. C04 & C07				
01- 02 C 12	Blinding concrete 1250 psi using Type-V cement.	550	Cft.	185.00	101,750.00
	<u>PROTECTION WORKS</u>				
	Ref.Spec. No. C16				
01- 02 C 13	Vapor barrier sheet, under the floor as per drawings and specifications.	10880	Sq.ft.	13.00	141,440.00
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.	4500	Sq.ft.	40.00	180,000.00
	<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.	140000.00	4,480,000.00
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.	140000.00	140,000.00
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u>				
	Ref.Spec. No. C04				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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	2200	Cft.	425.00	935,000.00
	b) Beams & lintels	2550	Cft.	425.00	1,083,750.00
	c) Slab & projections	5990	Cft.	425.00	2,545,750.00
	d) Stair cases	355	Cft.	425.00	150,875.00
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts.	125	Cft.	425.00	53,125.00
	f) Parapet wall for stair cases	60	Cft.	425.00	25,500.00
	<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.	30	ton.	140000.00	4,200,000.00
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.	140000.00	140,000.00
	<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	2325	Cft.	425.00	988,125.00
	b) Beams & lintels	3025	Cft.	425.00	1,285,625.00
	c) Slab & projections	5990	Cft.	425.00	2,545,750.00
	d) Stair cases	180	Cft.	425.00	76,500.00
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts.	150	Cft.	425.00	63,750.00
	f) Parapet wall for stair cases	26	Cft.	425.00	11,050.00
	<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.	140,000.00	560,000.00
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.	140,000.00	140,000.00
	<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;				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	a) Columns	95	Cft.	425	40,375.00
	b) Beams & lintels	145	Cft.	425	61,625.00
	c) Slab & projections	255	Cft.	425	108,375.00
	d) Parapet Wall/ Purdi	465	Cft.	425	197,625.00
	e) Precast coping for parapet wall at roof and erecting/ fixing including shuttering and all accessories and/or embedded parts.	550	Rft.	425	233,750.00
	g) Over head water tank, column, walls & slab	400	Cft.	425	170,000.00
	f) Others Misc Str	20	Cft.	425	8,500.00
	<u>FINISHING WORKS</u>				
	<u>For Ground floor</u>				
	<u>BRICK MASONRY</u>				
	Ref.Spec. No. C05				
01- 02 C 24	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	1500	Cft.	265	397,500.00
	b) 9" thick	6800	Cft.	265	1,802,000.00
	c) 13-1/2" thick	30	Cft.	265	7,950.00
	<u>DOORS FRAMES</u>				
	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 patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	1120	R.ft.	290	324,800.00
	<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.	48.00	18,000.00
01- 02 C 27	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.	10900	Sq.ft.	40.00	436,000.00
01- 02 C 28	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	21000	Sq.ft.	48.00	1,008,000.00
	<u>ALUMINIUM WORKS</u>				
	Ref.Spec. No. C11				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 02 C 29	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.	1735	Sq.ft.	1000.00	1,735,000.00
01- 02 C 30	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. <u>STRUCTURAL STEEL</u> Ref. Sec.No. C13	116	Sq.ft.	950.00	110,200.00
01- 02 C 31	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.	2185	Kg	210.00	458,850.00
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	55 50	Rft Rft	500.00 500.00	27,500.00 25,000.00
01- 02 C 33	Providing and fixing MS pipe railing for courtyard with paintings, as per drawing and specifications complete in all respect and approved by the Engineer.	85	Rft	1600.00	136,000.00
01- 02 C 34	Providing and fixing MS folding gate (Emergency Exit) with paintings, complete in all respects as per drawing and specifications. <u>FLOOR AND WALL FINISHES</u> Ref.Spec. No. C07	2	No	65,000	130,000.00
01- 02 C 35	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.	9600	Sq.ft.	180	1,728,000.00
01- 02 C 36	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.	150	Sq.ft.	180	27,000.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 02 C 37	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.	600	Sq.ft.	185	111,000.00
01- 02 C 38	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.	900	Sq.ft.	215	193,500.00
01- 02 C 39	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.	2100	Sq.ft.	225	472,500.00
	MARBLE WORKS Ref.Spec. No. C07 & C08				
01- 02 C 40	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)	100 50	Sq.ft. Sq.ft.	300 180	30,000.00 9,000.00
01- 02 C 41	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.	400	Sq.ft.	300	120,000.00
01- 02 C 42	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.	100	Sq.ft.	180	18,000.00
01- 02 C 43	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.	60	Sq.ft.	280	16,800.00
01- 02 C 44	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. PAINTING Ref.Spec. No. C10	130	Sq.ft.	25	3,250.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 02 C 45	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.	10900	Sq.ft.	35	381,500.00
01- 02 C 46	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.	21000	Sq.ft.	35	735,000.00
01- 02 C 47	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.	32	12,000.00
	<u>WOODEN DOORS</u> Ref.Spec. No. C09				
01- 02 C 48	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.	900	Sq.ft.	950	855,000.00
01- 02 C 49	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.	190	Sq.ft.	415	78,850.00
	<u>FALSE CEILING</u> Ref.Spec. No.				
01- 02 C 50	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.	900	Sq.ft.	105	94,500.00
	<u>Pre cast C.C Patren jali</u> Ref.Spec. No.				
01- 02 C 51	C.C Patren jali as per approved designed and specification	1000	Sq.ft.	110	110,000.00
	<u>BRICK FACING</u> Ref.Spec. No. C05				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 02 C 52	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.	9800	Sq.ft.	200	1,960,000.00
	<u>FINISHING WORKS</u> <u>For First floor</u> <u>BRICK MASONRY</u> Ref.Spec. No. C05				
01- 02 C 53	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	800	Cft.	265	212,000.00
	b) 9" thick	6800	Cft.	265	1,802,000.00
	c) 13-1/2" thick	20	Cft.	265	5,300.00
	<u>DOORS FRAMES</u> 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.	960	R.ft.	280	268,800.00
	<u>CEMENT PLASTER</u> Ref.Spec. No. C 06				
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.	48	8,400.00
01- 02 C 56	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.	11600	Sq.ft.	40	464,000.00
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.	22000	Sq.ft.	48	1,056,000.00
	<u>ALUMINIUM WORKS</u> Ref.Spec. No. C 11				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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 & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications. <u>STRUCTURAL STEEL</u> Ref. Sec.No. C 13	1885	Sq.ft.	1,000	1,885,000.00
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.	2375	Kg	210	498,750.00
01- 02 C 60	Providing and fixing MS stair railing as per drawing and specifications complete in all respect.	30	Rft	500	15,000.00
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. <u>FLOOR AND WALL FINISHES</u> Ref.Spec. No. C 07, 08	30	Rft	1,600	48,000.00
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.	10600	Sq.ft.	180	1,908,000.00
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.	610	Sq.ft.	185	112,850.00
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.	605	Sq.ft.	215	130,075.00
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. <u>MARBLE WORKS</u> Ref.Spec. No. C 07, 08	2000	Sq.ft.	225	450,000.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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.	200	Sq.ft.	300	60,000.00
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.	180	9,000.00
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.	180	9,000.00
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.	35	Sq.ft.	180	6,300.00
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.	95	Sq.ft.	280	26,600.00
<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.	11600	Sq.ft.	25	290,000.00
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.	22000	Sq.ft.	135	2,970,000.00
<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 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.	725	Sq.ft.	950	688,750.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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. <u>FALSE CEILING</u> Ref.Spec. No.	145	Sq.ft.	415	60,175.00
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. <u>Pre cast C.C Patren jali and Railing</u> Ref.Spec. No.	605	Sq.ft.	105	63,525.00
01- 02 C 76	C.C Patren jali as per approved designed and specification <u>BRICK FACING</u> Ref.Spec. No. C05	1000	Sq.ft.	110	110,000.00
01- 02 C 77	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. <u>WATER PROOFING AND BUILTUP ROOFING</u> Ref.Spec. No.C 16	7000	Sq.ft.	200	1,400,000.00
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.	12500	Sq.ft.	350	4,375,000.00
01- 02 C 79	<u>FINISHING WORKS</u> <u>For Roof floor / Secound floor</u> <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 <u>DOORS FRAMES</u> Ref.Spec. No. C09 & C11	30 490 20	Cft. Cft. Cft.	265 265 265	7,950.00 129,850.00 5,300.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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.	50	R.ft.	280	14,000.00
	<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.	1920	Sq.ft.	48	92,160.00
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.	200	Sq.ft.	40	8,000.00
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.	850	Sq.ft.	48	40,800.00
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.	438	Sq.ft.	40	17,520.00
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 compound Aquafin 1C or approved equivalent.	438	Sq.ft.	115	50,370.00
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.	25,000	50,000.00
	<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.	200	Sq.ft.	180.00	36,000.00
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.	20	Sq.ft.	185.00	3,700.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	<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.	300.00	1,800.00
	<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.	450	Sq.ft.	25.00	11,250.00
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.	850	Sq.ft.	35.00	29,750.00
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.	1600	Sq.ft.	32.00	51,200.00
	<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 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.	50	Sq.ft.	950.00	47,500.00
	<u>Pre cast C.C Patren jali and Railing</u> Ref.Spec. No.				
01- 02 C 94	C.C Patren jali as per approved designed and specification	50	Sq.ft.	110.00	5,500.00
01- 02 C 95	Precast water spout as per approved designed and specification	22	No.	510.00	11,220.00
	<u>BRICK FACING</u> Ref.Spec. No. C05				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 02 C 96	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.	4000	Sq.ft.	200.00	800,000.00
Total C/o to Summary for CIVIL WORKS Pak Rs.					61,038,135

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	<u>EXTERNAL DEVELOPEMENT</u>				
	<u>CONSTRUCTION OF BOUNDARY WALL</u>				
	<u>EARTHWORKS</u>				
	Ref.Spec. No. C02				
01- 03 D 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	100	Cft.	8	800
01- 03 D 2	Fill and backfill with selected materials obtained from excavation including watering and compaction to every layer as per specification.	200	Cft.	5	1,000
01- 03 D3	Fill and backfill with selected materials from borrow area including watering and compaction to every layer as per specification.	2,200	Cft.	14	30800
	<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		L.S.	50,000	0
	b) Dewatering		Day	5,000	0
	<u>TERMITE CONTROL TREATMENT</u>				
	Ref.Spec. No. C03				
01- 03 D5	Termite control treatment to specified surfaces following structures complete in all respect as per drawings and specification:	20	Sq.ft.	25	500
	<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.	4.0	ton.	137,000	548000
	<u>PLAIN AND REINFORCED CONCRETE</u>				
	Ref.Spec. No. C04				
01- 03 D7	Blinding concrete 1250 psi using Type-V cement.	185	Cft.	185	34225
01- 03 D8	Reinforced cement concrete using Type-V cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification.				
	a) Footings	380	Cft.	385	146300
	b) Columns upto plinth	75	Cft.	385	28875
	c) Plinth beams	190	Cft.	385	73150

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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	175	Cft.	385	67375
	<u>BRICK MASONRY</u> Ref.Spec. No. C05				
01- 03 D10	Solid brick masonry wall 9" thick with Type-V cement set in 1:4 cement sand mortar, straight or curve below plinth beam 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	10	Cft.	265	2650
01- 03 D11	Solid brick masonry wall with pointing on exterior faces above plinth beam 4-1/2" 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.	520	Cft.	265	137800
	<u>CEMENT PLASTER</u> Ref.Spec. No. C06 3/4" thick, 1:4 cement sand plaster to specified exterior surfaces (Columns, wall, beams and projections etc.) including making grooves as per design and elevation complete in all respect as shown on the drawings.	1,575	Sq.ft.	48	75600
	<u>PROTECTION WORKS</u> Ref.Spec. No. C16				
01- 03 D13	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.	500	Sq.ft.	30	15000
	<u>COPING</u> Ref.Spec. No. C04				
01- 03 D14	Providing and fixing 3" thick coping including plaster using OP cement for boundary wall complete as shown on the drawings.	250	Rft.	200	50000
	<u>STRUCTURAL STEEL</u> Ref. Sec.No. C13				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D15	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	90,000	180000
01- 03 D16	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	25,000	50000
<u>LANDSCAPING</u>					
Ref. Sec.No.					
01- 03 D 17	Fill and backfill with selected materials including watering and compaction to every layer as per specification.	2,620	Cft.	5	13100
01- 03 D18	Area Fill with selected materials including watering and compaction to every layer as per specification.	71,200	Cft.	14	996800
01- 03 D19	Relocation and replanting of removed trees as per specifications and and as directed by the Engineer.	3	No.	10,000	30000
01- 03 D20	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.	3,495	Sq.ft.	40	139800
01- 03 D21	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.	3,495	Cft.	14	48930
01- 03 D22	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)	12	No.	200	2400
	b) Babul tree (3 to 4 feet)	12	No.	200	2400
	c) Golmohar (3 to 4 feet)	12	No.	200	2400
	d) Champa (2 to 3 feet)	40	No.	200	8000
	e) Crape Jasmine (2 to 3 feet)	50	No.	200	10000

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	f) Cement Concrete planters.	30	Rft	400	12000
	<u>Foothpath Walkway (Precast Paving Blocks / Tiles)</u> Ref. Sec.No.				
01- 03 D23	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.	5,955	Sq.ft.	25	148875
01- 03 D24	Precast cement concrete paving blocks Envicrete or approved equivalent of size 8" x 4" x 1.5" laid in approved pattern including 2" thick sand cushion, levelling and dressing complete in all respect and as directed by the Engineer.	5,955	Sq.ft.	170	1012350
01- 03 D25	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.	800	Rft	350	280000
	<u>EXTERNAL SEWER & MANHOLES</u>				
01- 03 D26	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	7	Nos.	25,000	175000
	ii. 36" x 36" SIZE	6	Nos.	30,000	180000
01- 03 D27	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.	13	No.	30,000	390000
	<u>Septic Tank</u>				
01- 03 D28	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	830	Cft.	8	6640
	b) More than 5 ft upto 10 ft.	430	Cft.	10	4300
01- 03 D29	Blinding concrete 1250 psi using Type-V cement.	55	Cft.	180	9900

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D30	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing compound Aquafin 1C or approved equivalent.	630	Sq.ft.	115	72450
01- 03 D31	Reinforced cement concrete using Type-V cement 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.	385 385 385	42735 132825 26950
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	140,000	210000
01- 03 D33	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 D34	3/4" 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	25200
01- 03 D35	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.	48	20640
01- 03 D36	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.	300	15300
01- 03 D37	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.	30,000	60000
01- 03 D38	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No.	3,000	48000
	<u>Soakage Pit</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D39	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	890	Cft.	8	7120
	b) More than 5 ft upto 10 ft.	890	Cft.	10	8900
	c) More than 10 ft upto 17 ft.	980	Cft.	30	29400
01- 03 D40	Blinding concrete 1250 psi using Type-V cement.	25	Cft.	185	4625
01- 03 D41	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar.				
	a) 18" thick	640	Cft	265	169600
	b) 13-1/2" thick	180	Cft	265	47700
	b) 9" thick	90	Cft	265	23850
01- 03 D42	Reinforced cement concrete using Type-V cement 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	500	45000
01- 03 D43	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.25	Ton	140,000	35000
01- 03 D44	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	30,000	30000
01- 03 D45	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No	3,000	48000
	<u>Ground Storage Tank</u>				
01- 03 D46	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	725	Cft.	8	5800
	b) More than 5 ft upto 10 ft.	12	Cft.	10	120
01- 03 D47	Blinding concrete 1250 psi using Type-V cement.	48	Cft.	185	8880

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D48	Reinforced cement concrete using Type-V cement 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.	385 385 385 600	38500 98175 23100 6000
01- 03 D49	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	1	Ton	140,000	140000
01- 03 D50	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.	300	16500
01- 03 D51	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) 9" thick	66	Cft.	245	16170
01- 03 D52	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.	30,000	60000
01- 03 D53	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	10	No.	3,000	30000
01- 03 D54	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.	48	25440
01- 03 D55	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.	40	4640

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D56	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.	675	Sq.ft.	40	27000
01- 03 D57	2" thick, 3000 cement concrete floor smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	141	Sq.ft.	60	8460
01- 03 D58	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.	100	Sq.ft.	30	3000
01- 03 D59	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.	16	Sq.ft.	25	400
01- 03 D60	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.	60	Sq.ft.	35	2100
01- 03 D61	MS Door including paint etc complete in all respect as shown in the drawings.	15	Sq.ft.	750	11250
01- 03 D62	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing compound Aquafin 1C or approved equivalent.	585	Sq.ft.	115	67275
	<u>Tube Well / Penumatic Pump</u> <u>Construction works</u>				
01- 03 D63	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.				0
	a) 0 to 5 ft	85	Cft.	8	680

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 02 C 64	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.	5	100
		40	Cft.	14	560
01- 03 D65	Blinding concrete 1250 psi using Type-V cement.	50	Cft.	185	9250
01- 03 D66	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	15	Cft.	370	5550
01- 03 D67	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.05	Ton	140,000	7000
01- 03 D68	Solid brick masonry wall with brick coping 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 specification. a) 18" thick b) 13-1/2" thick a) 9" thick	40 30 175	Sft Sft Sft	265 265 265	10600 7950 46375
01- 03 D69	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.	48	13680
01- 03 D70	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.	40	1000
01- 03 D71	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.	40	6000

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D72	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	1000
01- 03 D73	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.	85	2125
01- 03 D74	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.	60	1500
01- 03 D75	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.	60	1980
01- 03 D76	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.	32	9120
01- 03 D77	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.	25	625
01- 03 D78	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.	35	5250
01- 03 D79	Vapor barrier sheet, under foundations and floor as per drawings and specifications.	25	Sq.ft.	12	300
01- 03 D80	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.	30	7500
	<u>Kanchan Arsenic filter</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D81	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.	8	600
01- 03 D82	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	Cft.	5	250
		100	Cft.	14	1400
01- 03 D83	Blinding concrete 1250 psi using Type-V cement.	15	Cft.	185	2775
01- 03 D84	Reinforced cement concrete using SR cement 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.	385	9625
		20	Cft.	385	7700
		35	Cft.	385	13475
		80	Cft.	385	30800
01- 03 D85	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.5	Ton	140,000	70000
01- 03 D86	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	3360
01- 03 D87	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.	85	7140
01- 03 D88	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.	65	5460
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.	48	7296

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D90	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.	40	5040
01- 03 D91	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing compound Aquafin 1C or approved equivalent.	126	Sq.ft.	115	14490
01- 03 D92	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.	30	6540
Sub- Total for External Development work-1 Pak Rs.					6,938,771

BILL OF QUANTITIES

(Holding Tank & Soakage Trench 80')

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	<u>EXTERNAL DEVELOPMENT</u>				
	<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.	8.00 14.00	6,040.00 7,560.00
01- 03 D93	Blinding concrete 1250 psi using slag cement conforming to BS-146	50	Cft.	185.00	9,250.00
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.	30.00	13,980.00
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.	385.00 385.00 385.00	41,195.00 128,975.00 34,265.00
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	140000.00	161,000.00
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.	40.00	4,080.00
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.	40.00	13,960.00
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.	48.00	22,368.00
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.	300.00	13,200.00
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.	30000.00	60,000.00
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.	3000.00	48,000.00

BILL OF QUANTITIES

(Holding Tank & Soakage Trench 80')

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	Sub-Total				563,873.00
	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.	8.00	41,000.00
01- 03 D104	Blinding concrete 1250 psi using slag cement conforming to BS-146	151	Cft.	185.00	27,935.00
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	255.00	132,600.00
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	250	Cft	320.00	80,000.00
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	140000.00	79,800.00
01- 03 D108	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.	6	No.	30000.00	180,000.00
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	3000.00	54,000.00
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	50.00	7,500.00
	Sub-Total				602,835
	Total				1,166,708
	Less Cost of Additional Two Options				(1,052,030)
	Sub-Total-B C/o to Summary for External Development work Pak Rs.				7,053,449

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
04-04E 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.	240,000	240000
	ii) DBLP-GF1	1	No.	206,000	206000
	iii) DBLP-GF2	1	No.	165,000	165000
	vi) DBLP-FF1	1	No.	132,000	132000
	v) DBLP-FF2	1	No.	222,000	222000
	vi) MCC-WP	1	No.	290,000	290000
	vii) DB-EXT (IP 54)	1	No.	130,000	130000
04-04E 2	<p>PART-2: <u>CABLES AND CONDUITS</u> <u>L.V. Power Cables</u></p> <p>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.</p>				
	a) 4 Core Cu/PVC/PVC CABLE				
	i. 4 core 10mm.sq.	415	R.ft	580	240700
	ii. 4 core 16mm.sq.	430	R.ft	745	320350
	iii. 4 core 95mm.sq.	75	R.ft	3,200	240000

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
b)	Circuit Protective Conductor (CPC)				
i.	1 core 10mm sq. PVC insulated colour Green/Yellow.	415	R.ft	135	56025
ii.	1 core 16mm sq. PVC insulated colour Green/Yellow.	430	R.ft	180	77400
iii.	1 core 50mm sq. PVC insulated colour Green/Yellow.	75	R.ft	470	35250
04-04E 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 dia. PVC conduit to pull electric cable.	390	R.ft	140	54600
b)	38mm dia. PVC conduit to pull electric cable.	410	R.ft	180	73800
c)	50mm dia. PVC conduit to pull electric cable.	50	R.ft	260	13000
d)	75mm dia. PVC conduit to pull electric cable.	150	R.ft	550	82500
	<u>PART-3 Wiring & Conduiting</u>				
04-04E 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.	30	Nos.	6,150	184500
b)	Same as item (a) but wiring from switch to switch.	76	Nos.	1,430	108680
c)	Wiring from switch/dimmer to first light/fan point 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 and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	198	Nos.	1,280	253440

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
d)	Wiring and conduiting of light point to point 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.	130	Nos.	1,085	141050
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.	25	Nos.	7,900	197500
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.	25	Nos.	530	13250
g)	Same as (f) 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.	39	Nos.	1,930	75270
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.	4,250	17000
04-04E 5	<p><u>PART-4: LIGHT FIXTURES, FANS, SWITCHES, OUTLETS & ACCESSORIES</u></p> <p><u>LIGHT FIXTURES</u></p> <p>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.</p>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
a.	Fluorescent Light TMS 015 with 1x36Watt TL-D lamp color 84 w electronic ballast.	73	Nos.	2,430	177390
b.	Fluorescent Light TMS 015 with 1x18Watt TL-D lamp color 84 w electronic ballast.	7	Nos.	1,490	10430
c.	Fluorescent Light TCS398 with 2x36Watt TL-D lamp color 84 with M2 Louver & electronic ballast.	31	Nos.	8,800	272800
d.	Fluorescent Light TCS398 2x36Watt TL-D lamp color 84 with M6 Louver & electronic ballast.	126	Nos.	7,890	994140
e.	Fluorescent Light TBS 318 with 1x36Watt TL-D lamp color 84 w electronic ballast.	16	Nos.	8,880	142080
04-04E 6	<u>Ceiling Fans</u> Supply, installation and commissioning of ceiling fans of following sizes steel body, 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.	17	Nos.	7,150	121550
b.	48" dia.	55	Nos.	6,300	346500
c.	36" dia.	1	Nos.	5,700	5700
04-04E 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	13	Nos.	590	7670
ii)	Two gang - 1 Way Switch	44	Nos.	740	32560
iii)	Three gang - 1 Way Switch	8	Nos.	910	7280
vi)	One gang - Fan Dimmer	9	Nos.	910	8190
v)	Two gang - Fan Dimmer	32	Nos.	990	31680
04-04E 8	SOCKETS				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	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.	27	Nos.	980	26460
	ii) 13A, 3-pin Simplex Switch Socket outlet.	40	Nos.	970	38800
	iii) 13A, 3-pin Duplex Switch Socket outlet.	17	Nos.	1,490	25330
	iv) 15A, 3-pin simplex Switch Socket outlet.	7	Nos.	1,170	8190
	v) Floor Box - Type B	24	Nos.	2,980	71520
04-04E 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.		0
04-04E 10	<u>PART-5: EARTHING SYSTEM</u> <u>Earth Electrode</u> Supply at site and installation of Stainless Steel copper claded earth electrodes, 10 feet long and 20mm dia including cost of all necessary materials, complete in all respects, as per specification.				
		0	Nos.		0
04-04E 11	<u>Copper Conductor</u> a) Supply, installation and connecting up of 1 x 16sqmm 1-Core Cu/PVC cable, in 38mm dia uPVC Class-d conduit directly buried in ground, 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	390	3900

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	b) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia uPVC Class-d 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.	40	R.ft	390	15600
	c) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia uPVC Class-d 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.	100	R.ft	355	35500
	d) Supply, installation and connections of bare copper conductor 2x50 mm sq. in 38mm dia uPVC Class-d conduit, from building rebars 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.	250	R.ft	355	88750
	e) Supply, installation and connections of copper conductor 1x50 mm sq. 1-Core Cu/PVC cable, in 38mm dia uPVC Class-d 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	615	9225
04-04E 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.	615	1230
04-04E 13	<u>ECP (in inspection Chamber)</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
04-04E 14	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.	90,000	180000
	<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.	5,500	11000
04-04E 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	15,000	15000
<u>PART-6: TELEPHONE / VOICE SYSTEM</u>					
04-04E 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.	275	R.ft	55	15125
	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.	2160	R.ft	95	205200
	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.	190	R.ft	95	18050

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	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	35	Nos.	1,650	57750
	ii) Duplex Outlet RJ 45	4	Nos.	2,800	11200
04-04E 17	<u>Utility 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.	39,000	39000
04-04E 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.	29,000	29000
	ii) 8 Port Patch Panel	2	Nos.	16,000	32000
04-04E 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.	300	1500
	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	38	Nos.	1,450	55100
	ii) 3 meter long	38	Nos.	2,100	79800
04-04E 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.	37,680	37680
04-04E 21	<u>Telephone Sets</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	Supply and connection of following type of Telephone sets.				
	a) Telephone with CLI Module	2	Nos.	11,000	22000
	b) Telephone without CLI Module	3	Nos.	6,000	18000
	<u>PART -7 Fire Alarm System</u>				
04-04E 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.	16,850	134800
	ii) Heat detector with buzzer	5	Nos.	10,980	54900
	<u>PART -8 LIGHTNING PROTECTION SYSTEM</u>				
04-04E 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.	1380	R.ft.	475	655500
04-04E 24	<u>Down Conductor</u>				
	a) Supply at site, installation, connections of 2x50mm.sq. stranded bare copper conductor as down conductors to be installed within the columns from air terminal on roof to building rebars, all other required accessories, complete in all respects.	700	R.ft.	570	399000
04-04E 25	<u>Air terminal</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	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.	5	Nos.	45,000	225000
04-04E 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.	10	Nos.	3,500	35000
	<u>PART -9 Public Address System</u>				
04-04E 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.	17,500	35000
04-04E 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.	13,250	53000
04-04E 29	<u>Microphone</u> Cordless Microphone.	2	Nos.	12,000	24000
04-04E 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.	250	R.ft.	270	67500

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	PART -10 EXTERNAL AREA LIGHTING				
04-04E31	<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.	4	Nos.	7,300	29200
	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.	17,550	35100
04-04E32	<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.	2	Nos.	8,500	17000
	b) Same as item (h) but wiring from light point to light point.	4	Nos.	6,300	25200
	PART -11 MISCELLANEOUS WORKS				
04-04E 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.	100	Rft.	110	11000
	b) <u>Outlets</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	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.	1	Nos.	7,100	7100
04-04E 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.	19,000	38000
04-04E 35	<u>Utility / PTCL Connection</u> a) Supply and co-ordination for the utility connection from WAPDA / HESCO 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.	1	Job	50,000	50000
04-04E 36	PART -12 SOLAR ROOM ELECTRIFICATION WORKS <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).	2	Nos.	9,130	18260
	b. Fluorescent Light TCS398 with 2x36Watt TL-D lamp color 84 with M2 Louver & electronic ballast.	2	Nos.	9,500	19000

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
04-04E 37	<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</p>				
	i) Four gang - 1 Way Switch	1	Nos.	1,110	1110
04-04E 38	<p><u>SOCKETS</u></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 dr</p>				
	i) 13A, 3-pin Duplex Switch Socket outlet.	1	Nos.	1,630	1630
04-04E 39	<p><u>Fire Alarm System</u></p> <p>a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect.</p>				
	i) Heat detector with buzzer	1	Nos.	13,500	13500
04-04E 40	<p><u>Circuit Wiring & Conduiting</u></p> <p>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.</p> <p>b) Same as item (a) but wiring from switch to power outlet.</p>				
	a)	1	Nos.	2,100	2100
	b)	1	Nos.	1,450	1450

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
c)	Wiring from switch to first light 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 and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	4	Nos.	1,290	5160
Total for Electrical Works Pak Rs					8,862,705

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	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.				
04-05P1	European style coupled water closet with seat cover, flush tank C.P. (chrome plated) connector, thimble, etc. a. Type - EWC	8	No.	15,500	124,000.00
04-05P2	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.	12,300	270,600.00
04-05P3	Urinal wall hung type with automatic 1/2" size flush valve, CP trap, waste, connector and fixing accessories.		No.		
04-05P4	Wash basin (WB) including C.P P- trap/Bottle Trap, stop cocks, etc. i. Type - WB - V(Vanity)	21	No.	13,300	279,300.00
04-05P5	Wash basin hot and cold water mixer, waste, etc for following. i. Type - WB - V(Vanity)		No.		
04-05P6	Toilet Hand Shower with flexible chain & telephone type shower Including tee stop cock etc. complete in all respect. Type - TS	30	No.	3,900	117,000.00
04-05P7	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.	6	No.	8,150	48,900.00
04-05P8	Sink hot and cold water mixer, etc, for following. a. For SK-1		No.		
04-05P9	S.S Grease Trap 7.5 Kg. capacity, inlet/outlet 2" Dia connections.		No.		
04-05P10	Toilet accessories complete set, (Imported make) i. Soap dispenser ii. Toilet paper holder iii. Coat Hook iv. Hand Dryer v. Paper Rack	8 30 8 8 8	No. No. No. No. No.	840 955 115 2,450 1,630	6,720.00 28,650.00 920.00 19,600.00 13,040.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	<u>Plumbing Water Supply</u>				
04-05P11	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)	155	Rft.	120	18,600.00
	ii) ¾" internal dia (32 mm outer dia)	372	Rft.	160	59,520.00
	iii) 1" internal dia (40 mm outer dia)	614	Rft.	235	144,290.00
	iv) 1¼" internal dia (50 mm outer dia)	357	Rft.	375	133,875.00
	v) 1½" internal dia (63 mm outer dia)	23	Rft.	620	14,260.00
	vi) 2" internal dia (75 mm outer dia)		Rft.		
	vii) 2½" internal dia (90 mm outer dia)		Rft.		
04-05P12	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)	9	No	1,755	15,795.00
	ii) 1" internal dia (40 mm outer dia)	3	No	5,750	17,250.00
	iii) 1¼" internal dia (50 mm outer dia)	3	No	8,540	25,620.00
	iv) 1½" internal dia (63 mm outer dia)	1	No	12,800	12,800.00
	v) 2" internal dia (75 mm outer dia)		No		
	vi) 2½" internal dia (90 mm outer dia)		No		
	<u>Plumbing Sewerage</u>				
04-05P13	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:				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	2" dia	354	Rft.	130	46,020.00
	3" dia		Rft		
	4" dia	865	Rft.	225	194,625.00
	6" dia		Rft.		
04-05P14	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.	39	No.	1,690	65,910.00
04-05P15	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.		0.00
04-05P16	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.	5	No.	9,600	48,000.00
04-05P17	Providing and fixing Clean Out complete in all respects	18	No.	1,880	33,840.00
	<u>Water Cooler</u>				
04-05P18	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.	145,000	580,000.00
	EXTERNAL DEVELOPMENT				
	<u>Septic Tank</u>				
04-05P19	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)	10	Rft.	590	5,900.00
	<u>Soakage Pit</u>				
04-05P20	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.	170	850.00
	2" dia pipe sleeves 9" long	5	No.s	590	2,950.00
	<u>Ground Water Storage Tank</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
04-05P21	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	5	Rft.	170	850.00
	ii) 1½" dia	5	Rft.	435	2,175.00
	ii) 2" dia, pipe sleeve 9" long	2	No.s	650	1,300.00
04-05P22	Supply and fitting of M.S manhole cover (size 2'x2') with frame, painted black on both sides, etc. complete in all respects, as per drawing and directed by the Engineer.	2	No.	24,500	49,000.00
	<u>Kanchan Arsenic Filter</u>				
	Filter Material.				
04-05P23	Providing & laying gravel, including screening and washing as per drawing or directed by the Engineer. Gravel size 6 mm to 15 mm.	42	Cft	90	3,780.00
04-05P24	Providing & laying coarse sand, including screening and washing as per drawing or directed by the Engineer.	63	Cft	30	1,890.00
04-05P25	Providing & laying fine sand, including screening and washing as per drawing or directed by the Engineer.	63	Sq.ft.	32	2,016.00
04-05P26	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.	71	Sq.ft.	335	23,785.00
04-05P27	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.	17	Cft.	80	1,360.00
04-05P28	Providing & laying iron nails with out coating (1" thick layer) as per drawing or directed by the Engineer.	180	Kg.	145	26,100.00
04-05P29	Providing & fixing cover over Kanchan Filter of PVC sheet 1/2" thick, as per drawing or directed by the Engineer.	70	Sq.ft.	240	16,800.00
04-05P30	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.				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	i) ¾" internal dia (32 mm outer dia)	39	Rft.	170	6,630.00
04-05P31	Providing and fixing Plastic Shower Heads	9	Nos	240	2,160.00
	<u>Tube Well / Penumatic Pump</u>				
04-05P32	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.	335	33,500.00
04-05P33	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.	355	17,750.00
04-05P34	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.	100	100.00
04-05P35	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)	104	Rft.	53	5,512.00
	ii) 1-1/4" i/d(30mm)	72	Rft.	70	5,040.00
	iii) 2" i/d(50mm)	38	Rft.	135	5,130.00
04-05P36	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.	125	5,000.00
04-05P37	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)	72	Rft.	415	29,880.00
04-05P38	Testing and developing of bore hole, complete in all respect and as directed by the Engineer.	3	Per Hr.	1,800	5,400.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
04-05P39	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.	160	7,200.00
04-05P40	Providing/fixing Injector valve as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	Each.	240	240.00
04-05P41	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.	75	75.00
04-05P42	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.	50,000	50,000.00
	EXTERNAL PIPING				
	<u>Plumbing Water Supply</u>				
04-05P43	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)	77	Rft.	170	13,090.00
	iii) 1" internal dia (40 mm outer dia)		Rft.		
	iv) 1¼" internal dia (50 mm outer dia)	165	Rft.	390	64,350.00
	v) 1½" internal dia (63 mm outer dia)	120	Rft.	630	75,600.00
	vi) 2" internal dia (75 mm outer dia)		Rft.		
	vii) 2½" internal dia (90 mm outer dia)		Rft.		
04-05P44	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)	1	No	1,810	1,810.00
	ii) 1" internal dia (40 mm outer dia)		No		
	iii) 1¼" internal dia (50 mm outer dia)	1	No	8,710	8,710.00
	iv) 1½" internal dia (63 mm outer dia)	1	No	12,150	12,150.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
04-05P45	v) 2" internal dia (75 mm outer dia)		No		
	vi) 2½" internal dia (90 mm outer dia)		No		
	<u>Plumbing Sewerage</u>				
	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.	230	7,360.00
	6" dia	490	Rft.	580	284,200.00
04-05P46	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.		No.		
04-05P47	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.		
04-05P48	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.		No.		
04-05P49	Providing and fixing Clean Out complete in all respects		No.		
	<u>Water Supply Pump For GST</u>				
01-05P50	Supply at site, installation, testing and commissioning of water supply reciprocating pump with 2HP motor as per specification complete in all respect.	2	No	26,000	52,000.00
					3,150,778.00

SINDH BASIC EDUCATION PROGRAM
CONSTRUCTION OF NEW SCHOOLS AND UPGRADATION OF EXISTING SCHOOLS
PACKAGE- 01A (Balance Works): DISTRICT KHAIRPUR MIRS
GBHSS SETHARGA (P01A-KHR05)
SUMMARY OF TENDERED COST (BALANCE WORKS)

CODE	DESCRIPTION	M/s Kaybee - BS (JV)
	A. GENERAL ITEMS	451,230
	B. CIVIL WORKS	65,394,950
	C. EXTERNAL WORKS	7,313,799
	D. ELECTRICAL WORKS	9,302,050
	E. PLUMBING WORKS	2,954,736
	Sub-Total	85,416,765

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
<u>Temporaray Facilities (Optional Items)</u>					
01-01 G 1	Ref.Spec. No. G05 Providing and maintaining a rental building of area 3,000 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	not required	
OR					
01-01 G 2	Providing and maintaining a tent school of area 3,000 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	not required	
OR					
01-01 G 3	Providing and maintaining porta cabins for school of area 3,000 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	not required	
Sub- Total (Rs.)					0.00
<u>Site Clearing and Grubbing</u>					
01-01 G 4	Ref.Spec. No. C01 Clearing, removal of debris from site and Grubbing complete in all respect as directed by the Engineer.	32,750	Sft	3.0	98,250
<u>DISMANTLING WORK</u>					
01-01 G 5 A	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.	2,050	Sft	20	41,000
01-01 G 5 B	Dismantling, removing of existing building structure below plinth 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.	2,570	Sft	20	51,400

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 01 G 6	Dismantling, removing of existing sewerage lines as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.	18.00	900
01- 01 G 7	Dismantling, removing of existing water supply lines as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	0	Rft.		
01- 01 G 8	Dismantling, removing of existing electrical supply line as directed by the Engineer.	0	Rft.		
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.	260	Rft	18	4,680
<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	150000.00	150,000
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	25000.00	25,000
<u>SIGN BOARD / PLAQUE</u> Ref.Spec. No. SP 100					
01- 01 G 12	Maintanance of (already fixed) Project sign board for construction duration as directed by the Engineer.	1	Job	10000.00	10,000
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	40000.00	40,000
<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	30000.00	30,000

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
Total General Items (Rs.)					451,230
Sub- Total C/o to Summary General Items Pak Rs.					451,230

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	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	0	Cft.		
	b) More than 5 ft upto 10 ft.	0	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)	0	Cft.		
	b) Obtained from outside sources (material/source to be approved by the Engineer) upto free haulage limit.	25100	Cft.	5.00	125,500
	c) Compaction of top layer as per specifications and as directed by the Engineer.	12850	Sft.	12.00	154,200
	d) Removal and disposal of dumped material laying at site as directed by the Engineer.	9000	Cft.	12.00	108,000
	e) Dressing of dump material at site as directed by the Engineer.	26700	Sft.	5.00	133,500
	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	0	L.S.		-
	b) Dewatering	0	Day		-
	TERMITE CONTROL TREATMENT				
	Ref.Spec. No. C03				
01- 02 C 4	Termite control treatment to specified surfaces following structures complete in all respect as per drawings and specification: (Under sub floor only)	19500	Sq.ft.	25.00	487,500
	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.	14	ton.	137000.00	1,918,000
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.	1	ton.	137000.00	137,000
	PLAIN AND REINFORCED CONCRETE AND FORMWORKS				
	Ref.Spec. No. C04				
01- 02 C 7	Blinding concrete 1250 psi using Type-V cement.	715	Cft.	185.00	132,275

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 02 C 8	Reinforced cement concrete using Type-V cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Raft foundation slab b) Columns upto plinth c) Plinth beams <u>BRICK MASONRY</u> Ref.Spec. No. C05	0 330 3620	Cft. Cft. Cft.	- 385.00 385.00	- 127,050 1,393,700
07- 02 C 9	Solid brick masonry under the plinth beam of one and half brick thickness, set in 1:4 cement 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	715	Cft.	265.00	189,475
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.	12700	Sq.ft.	40.00	508,000
	<u>P.C.C UNDER FLOORING</u> Ref.Spec. No. C07				
01- 02 C 11	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	12700	Sq.ft.	85.00	1,079,500
	<u>PLINTH PROTECTION</u> Ref.Spec. No. C04 & C07				
01- 02 C 12	Blinding concrete 1250 psi using Type-V cement.	560	Cft.	185.00	103,600
	<u>PROTECTION WORKS</u> Ref.Spec. No. C16				
01- 02 C 13	Vapor barrier sheet, under the floor as per drawings and specifications.	12500	Sq.ft.	13.00	162,500
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.	5017	Sq.ft.	40.00	200,680
	<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.	36	ton.	137000.00	4,932,000

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
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.	137000.00	137,000
<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	2300	Cft.	415.00	954,500
	b) Beams & lintels	2900	Cft.	415.00	1,203,500
	c) Slab & projections	7050	Cft.	415.00	2,925,750
	d) Stair cases	350	Cft.	415.00	145,250
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts.	130	Cft.	415.00	53,950
	f) Parapet wall for stair cases	60	Cft.	415.00	24,900
<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.	36	ton.	137000.00	4,932,000
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.	1	ton.	137000.00	137,000
<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	2350	Cft.	415.00	975,250
	b) Beams & lintels	3000	Cft.	415.00	1,245,000
	c) Slab & projections	7150	Cft.	415.00	2,967,250
	d) Stair cases	176	Cft.	415.00	73,040
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts.	143	Cft.	415.00	59,345
	f) Parapet wall for stair cases	26	Cft.	415.00	10,790
<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.	4.5	ton.	137,000.00	616,500
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.	137,000.00	137,000
<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u>					

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
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	110 125 280 925 1150 396 20	Cft. Cft. Cft. Cft. Rft. Cft. Cft.	415 415 415 415 415 415 415	45,650 51,875 116,200 383,875 477,250 164,340 8,300
	<u>FINISHING WORKS</u> <u>For Ground floor</u> <u>BRICK MASONRY</u>				
01- 02 C 24	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	1750 7650 30	Cft. Cft. Cft.	265 265 265	463,750 2,027,250 7,950
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.	1072	R.ft.	290	310,880
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.	48.00	18,000
01- 02 C 27	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.	11225	Sq.ft.	40.00	449,000
01- 02 C 28	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.	24000	Sq.ft.	48.00	1,152,000

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	<u>ALUMINIUM WORKS</u>				
	Ref.Spec. No. C11				
01- 02 C 29	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.	2130	Sq.ft.	1000.00	2,130,000
01- 02 C 30	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.	950.00	110,200
	<u>STRUCTURAL STEEL</u>				
	Ref. Sec.No. C13				
01- 02 C 31	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.	2625	Kg	210.00	551,250
01- 02 C 32	Providing and fixing railing for stairs/ramps as per drawing and specifications complete in all respect.	55	Rft	500.00	27,500
	a) MS railing stairs	50	Rft	500.00	25,000
	b) M.S railing at entrance				
01- 02 C 33	Providing and fixing MS pipe railing for courtyard with paintings, as per drawing and specifications complete in all respect and approved by the Engineer.	215	Rft	1600.00	344,000
01- 02 C 34	Providing and fixing MS folding gate (Emergency Exit) with paintings, complete in all respects as per drawing and specifications.	1	No	65,000	65,000
	<u>FLOOR AND WALL FINISHES</u>				
	Ref.Spec. No. C07				
01- 02 C 35	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.	11225	Sq.ft.	180	2,020,500

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 02 C 36	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.	150	Sq.ft.	180	27,000
01- 02 C 37	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.	790	Sq.ft.	185	146,150
01- 02 C 38	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.	825	Sq.ft.	215	177,375
01- 02 C 39	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.	2400	Sq.ft.	225	540,000
MARBLE WORKS					
Ref.Spec. No. C07 & C08					
01- 02 C 40	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)	100	Sq.ft.	300	30,000
	b) Entrance Steps Risers (1/2" thick)	50	Sq.ft.	180	9,000
01- 02 C 41	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.	400	Sq.ft.	300	120,000
01- 02 C 42	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.	100	Sq.ft.	180	18,000
01- 02 C 43	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.	60	Sq.ft.	180	10,800

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 02 C 44	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.	122	Sq.ft.	280	34,160
	<u>PAINTING</u> Ref.Spec. No. C10				
01- 02 C 45	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.	24000	Sq.ft.	25	600,000
01- 02 C 46	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.	24000	Sq.ft.	35	840,000
01- 02 C 47	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.	32	12,000
	<u>WOODEN DOORS</u> Ref.Spec. No. C09				
01- 02 C 48	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.	875	Sq.ft.	950	831,250
01- 02 C 49	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.	165	Sq.ft.	415	68,475
	<u>FALSE CEILING</u> Ref.Spec. No.				
01- 02 C 50	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.	1210	Sq.ft.	105	127,050
	<u>Pre cast C.C Patren jali</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 02 C 51	Ref.Spec. No. C.C Patren jali as per approved designed and specification	630	Sq.ft.	110	69,300
	<u>BRICK FACING</u>				
01- 02 C 52	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.	10000	Sq.ft.	200	2,000,000
	<u>FINISHING WORKS</u>				
	<u>For First floor</u>				
	<u>BRICK MASONRY</u>				
01- 02 C 53	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	1000	Cft.	265	265,000
	b) 9" thick	7750	Cft.	265	2,053,750
	c) 13-1/2" thick	20	Cft.	265	5,300
	<u>DOORS FRAMES</u>				
01- 02 C 54	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.	823	R.ft.	280	230,440
	<u>CEMENT PLASTER</u>				
01- 02 C 55	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.	48	8,400
01- 02 C 56	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.	12325	Sq.ft.	40	493,000

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
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.	22000	Sq.ft.	48	1,056,000
	<u>ALUMINIUM WORKS</u> 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 & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	2250	Sq.ft.	1,000	2,250,000
	<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.	2775	Kg	210	582,750
01- 02 C 60	Providing and fixing MS stair railing as per drawing and specifications complete in all respect.	30	Rft	500	15,000
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.	230	Rft	1,600	368,000
	<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.	12325	Sq.ft.	180	2,218,500
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.	850	Sq.ft.	185	157,250
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.	825	Sq.ft.	215	177,375

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
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.	2375	Sq.ft.	225	534,375
MARBLE WORKS					
01- 02 C 66	Ref.Spec. No. C 07, 08 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.	200	Sq.ft.	300	60,000
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.	180	9,000
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.	180	9,000
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.	35	Sq.ft.	180	6,300
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.	95	Sq.ft.	280	26,600
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.	12325	Sq.ft.	25	308,125
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.	22000	Sq.ft.	35	770,000
WOODEN DOORS					

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
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 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.	700	Sq.ft.	950	665,000
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 arround the glass of approved type, quality complete in all respect as shown on the drawings and specifications.	135	Sq.ft.	415	56,025
<u>FALSE CEILING</u>					
01- 02 C 75	Ref.Spec. No. 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.	815	Sq.ft.	105	85,575
<u>Pre cast C.C Patren jali and Railing</u>					
01- 02 C 76	Ref.Spec. No. C.C Patren jali as per approved designed and specification	630	Sq.ft.	110	69,300
<u>BRICK FACING</u>					
01- 02 C 77	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.	7100	Sq.ft.	200	1,420,000
<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.	13950	Sq.ft.	350	4,882,500
<u>FINISHING WORKS</u>					
<u>For Roof floor / Secound floor</u>					
<u>BRICK MASONRY</u>					
Ref.Spec. No. C05					

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 02 C 79	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	30	Cft.	265	7,950
	b) 9" thick	490	Cft.	265	129,850
	c)13-1/2" thick	20	Cft.	265	5,300
	<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.	63	R.ft.	280	17,640
	<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.	1920	Sq.ft.	48	92,160
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.	200	Sq.ft.	40	8,000
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.	850	Sq.ft.	48	40,800
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.	438	Sq.ft.	40	17,520
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 compound Aquafin 1C or approved equivalent.	438	Sq.ft.	115	50,370

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
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.	25,000	50,000
	<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.	200	Sq.ft.	180.00	36,000
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.	20	Sq.ft.	185.00	3,700
	<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.	300.00	1,800
	<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.	450	Sq.ft.	25.00	11,250
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.	850	Sq.ft.	35.00	29,750
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.	1920	Sq.ft.	32.00	61,440
	<u>WOODEN DOORS</u> Ref.Spec. No. C 09, C12				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
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. <u>Pre cast C.C Patren jali and Railing</u> Ref.Spec. No.	50	Sq.ft.	950.00	47,500
01- 02 C 94	C.C Patren jali as per approved designed and specification	630	Sq.ft.	110.00	69,300
01- 02 C 95	Precast water spout as per approved designed and specification	22	No.	510.00	11,220
	<u>BRICK FACING</u> Ref.Spec. No. C05				
01- 02 C 96	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.	4100	Sq.ft.	200.00	820,000
Total C/o to Summary for CIVIL WORKS Pak Rs.					65,394,950

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	<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 upto following depths including disposal of surplus / rejected excavated materials to designated places.				
	a) 0 ft to 5 ft	100	Cft.	8	800
01- 03 D 2	Fill and backfill with selected materials obtained from excavation including watering and compaction to every layer as per specification.	200	Cft.	5	1,000
01- 03 D3	Fill and backfill with selected materials from borrow area including watering and compaction to every layer as per specification.	2,200	Cft.	14	30,800
	<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% runnung/ working position		L.S.	50,000	-
	b) Dewatering		Day	5,000	-
	<u>TERMITE CONTROL TREATMENT</u>				
	Ref.Spec. No. C03				
01- 03 D5	Termite control treatment to specified surfaces following structures complete in all respect as per drawings and specification:	20	Sq.ft.	25	500
	<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.	4.0	ton.	135,000	540,000
	<u>PLAIN AND REINFORCED CONCRETE</u>				
	Ref.Spec. No. C04				
01- 03 D7	Blinding concrete 1250 psi using Type-V cement.	10	Cft.	185	1,850
01- 03 D8	Reinforced cement concrete using Type-V cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification.				
	a) Footings	10	Cft.	385	3,850
	b) Columns upto plinth	8	Cft.	385	3,080

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 03 D9	c) Plinth beams Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification;	10	Cft.	385	3,850
01- 03 D10	a) Columns <u>BRICK MASONRY</u> Ref.Spec. No. C05 Solid brick masonry wall 9" thick with Type-V cement set in 1:4 cement sand mortar, straight or curve below plinth beam including all anchors, walls ties and other fixtures required to be built in brick masonry, complete in all respect as per Drawings and Specifications	15	Cft.	385	5,775
01- 03 D10	a) 9" thick	10	Cft.	265	2,650
01- 03 D11	Solid brick masonry wall with pointing on exterior faces above plinth beam 4-1/2" 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.				
01- 03 D12	<u>CEMENT PLASTER</u> Ref.Spec. No. C06 3/4" thick, 1:4 cement sand plaster to specified exterior surfaces (Columns, wall, beams and projections etc.) including making grooves as per design and elevation complete in all respect as shown on the drawings.	50	Cft.	265	13,250
01- 03 D13	<u>PROTECTION WORKS</u> Ref.Spec. No. C16 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.	100	Sq.ft.	48	4,800
01- 03 D14	<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.	100	Sq.ft.	30	3,000
	<u>STRUCTURAL STEEL</u> Ref. Sec.No. C13	30	Rft.	200	6,000

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 03 D15	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	5,000	5,000
01- 03 D16	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	25,000	25,000
<u>LANDSCAPING</u>					
Ref. Sec.No.					
01- 03 D 17	Fill and backfill with selected materials including watering and compaction to every layer as per specification.	1,000	Cft.	5	5,000
01- 03 D18	Area Fill with selected materials including watering and compaction to every layer as per specification.	87,000	Cft.	14	1,218,000
01- 03 D19	Relocation and replanting of removed trees as per specifications and and as directed by the Engineer.	3	No.	1,000	3,000
01- 03 D20	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.	19,000	Sq.ft.	40	760,000
01- 03 D21	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.	19,000	Cft.	14	266,000
01- 03 D22	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)	12	No.	200	2,400
	b) Babul tree (3 to 4 feet)	12	No.	200	2,400
	c) Golmohar (3 to 4 feet)	12	No.	200	2,400

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	d) Champa (2 to 3 feet)	40	No.	200	8,000
	e) Crape Jasmine (2 to 3 feet)	50	No.	200	10,000
	f) Cement Concrete planters.	30	Rft	400	12,000
	<u>Foothpath Walkway (Precast Paving Blocks / Tiles)</u>				
	Ref. Sec.No.				
01- 03 D23	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.	4,950	Sq.ft.	25	123,750
01- 03 D24	Precast cement concrete paving blocks Envicrete or approved equivalent of size 8" x 4" x 1.5" laid in approved pattern including 2" thick sand cushion, levelling and dressing complete in all respect and as directed by the Engineer.	4,950	Sq.ft.	170	841,500
01- 03 D25	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.	645	Rft	350	225,750
	<u>EXTERNAL SEWER & MANHOLES</u>				
01- 03 D26	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	10	Nos.	25,000	250,000
	ii. 36" x 36" SIZE	8	Nos.	30,000	240,000
01- 03 D27	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.	18	No.	30,000	540,000
	<u>Septic Tank</u>				
01- 03 D28	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	830	Cft.	8	6,640
	b) More than 5 ft upto 10 ft.	430	Cft.	10	4,300

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 03 D29	Blinding concrete 1250 psi using Type-V cement.	55	Cft.	185	10,175
01- 03 D30	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing compound Aquafin 1C or approved equivalent.	630	Sq.ft.	115	72,450
01- 03 D31	Reinforced cement concrete using Type-V cement 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.	385 385 385	42,735 132,825 26,950
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	137,000	205,500
01- 03 D33	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 D34	3/4" 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 D35	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.	48	20,640
01- 03 D36	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.	300	15,300
01- 03 D37	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.	30,000	60,000

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 03 D38	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No.	3,000	48,000
	<u>Soakage Pit</u>				
01- 03 D39	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	890	Cft.	8	7,120
	b) More than 5 ft upto 10 ft.	890	Cft.	10	8,900
	c) More than 10 ft upto 17 ft.	980	Cft.	30	29,400
01- 03 D40	Blinding concrete 1250 psi using Type-V cement.	25	Cft.	185	4,625
01- 03 D41	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar.				
	a) 18" thick	640	Cft	265	169,600
	b) 13-1/2" thick	180	Cft	265	47,700
	b) 9" thick	90	Cft	265	23,850
01- 03 D42	Reinforced cement concrete using Type-V cement 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	300	27,000
01- 03 D43	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.25	Ton	137,000	34,250
01- 03 D44	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	30,000	30,000
01- 03 D45	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No	3,000	48,000
	<u>Ground Storage Tank</u>				-
01- 03 D46	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.				-

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	a) 0 to 5 ft	725	Cft.	8	5,800
	b) More than 5 ft upto 10 ft.	12	Cft.	10	120
01- 03 D47	Blinding concrete 1250 psi using Type-V cement.	48	Cft.	185	8,880
01- 03 D48	Reinforced cement concrete using Type-V cement having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer.				
	a) Base Slab.	100	Cft.	385	38,500
	b) Walls including chamfer etc.	255	Cft.	385	98,175
	c) Top slabs	60	Cft.	385	23,100
	d) Precast Slab	10	Cft.	600	6,000
01- 03 D49	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	1	Ton	137,000	137,000
01- 03 D50	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.	300	16,500
01- 03 D51	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) 9" thick	66	Cft.	245	16,170
01- 03 D52	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.	30,000	60,000
01- 03 D53	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	10	No.	3,000	30,000

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 03 D54	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.	48	25,440
01- 03 D55	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.	40	4,640
01- 03 D56	3/4" 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.	675	Sq.ft.	48	32,400
01- 03 D57	2" thick, 3000 cement concrete floor smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	141	Sq.ft.	60	8,460
01- 03 D58	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.	100	Sq.ft.	30	3,000
01- 03 D59	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.	16	Sq.ft.	25	400
01- 03 D60	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.	60	Sq.ft.	35	2,100
01- 03 D61	MS Door including paint etc complete in all respect as shown in the drawings.	15	Sq.ft.	750	11,250

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 03 D62	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing compound Aquafin 1C or approved equivalent.	585	Sq.ft.	115	67,275
	<u>Tube Well / Penumatic Pump</u>				
	<u>Construction works</u>				
01- 03 D63	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	85	Cft.	8	680
01- 02 C 64	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.	5	100
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	40	Cft.	14	560
01- 03 D65	Blinding concrete 1250 psi using Type-V cement.	50	Cft.	185	9,250
01- 03 D66	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	15	Cft.	370	5,550
01- 03 D67	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.05	Ton	137,000	6,850
01- 03 D68	Solid brick masonry wall with brick coping 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 specification.				
	a) 18" thick	40	Sft	265	10,600
	b) 13-1/2" thick	30	Sft	265	7,950
	a) 9" thick	175	Sft	265	46,375

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 03 D69	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.	48	13,680
01- 03 D70	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.	40	1,000
01- 03 D71	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.	40	6,000
01- 03 D72	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 D73	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.	85	2,125
01- 03 D74	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.	60	1,500
01- 03 D75	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.	60	1,980
01- 03 D76	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.	32	9,120

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 03 D77	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.	25	625
01- 03 D78	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.	35	5,250
01- 03 D79	Vapor barrier sheet, under foundations and floor as per drawings and specifications.	25	Sq.ft.	12	300
01- 03 D80	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. <u>Kanchan Arsenic filter</u>	250	Sq.ft.	30	7,500
01- 03 D81	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.	8	600
01- 03 D82	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.	5	250
		100	Cft.	14	1,400
01- 03 D83	Blinding concrete 1250 psi using Type-V cement.	15	Cft.	185	2,775
01- 03 D84	Reinforced cement concrete using SR cement 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.	385	9,625
		20	Cft.	385	7,700
		35	Cft.	385	13,475
		80	Cft.	385	30,800

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
01- 03 D85	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.5	Ton	137,000	68,500
01- 03 D86	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 D87	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.	85	7,140
01- 03 D88	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.	65	5,460
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.	48	7,296
01- 03 D90	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.	40	5,040
01- 03 D91	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing compound Aquafin 1C or approved equivalent.	126	Sq.ft.	115	14,490
01- 03 D92	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.	30	6,540
C/o to Summary for External Development work Pak Rs.					7,183,821

BILL OF QUANTITIES
(Holding Tank & Soakage Trench 80')

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	<u>EXTERNAL DEVELOPMENT</u>				
	<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	755	Cft.	8.00	6,040
	b) More than 5 ft upto 10 ft.	540	Cft.	14.00	7,560
01- 03 D93	Blinding concrete 1250 psi using slag cement conforming to BS-146	50	Cft.	185.00	9,250
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.	30.00	13,980
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.	385.00	41,195
	b) Walls including chamfer etc.	335	Cft.	385.00	128,975
	c) Top Slab	89	Cft.	385.00	34,265
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	137,000.00	157,550
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.	40.00	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.	40.00	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.	48.00	22,368
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.	300.00	13,200

BILL OF QUANTITIES
(Holding Tank & Soakage Trench 80')

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
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.	30000.00	60,000
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.	3000.00	48,000
SUB TOTAL					560,423
01- 03 D103	<u>Soakage Trench</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.	5,125 -	Cft. Cft.	8.00	41,000
01- 03 D104	Blinding concrete 1250 psi using slag cement conforming to BS-146	151	Cft.	185.00	27,935
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	255.00	132,600
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	250	Cft	385.00	96,250
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	137,000.00	78,090
01- 03 D108	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.	6	No.	30000.00	180,000
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	3000.00	54,000
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	50.00	7,500

BILL OF QUANTITIES
(Holding Tank & Soakage Trench 80')

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
Sub-Total					617,375
Total					1,177,798
Less Cost of Additional Two Options					(1,047,820)
C/o to Summary for External Development work Pak Rs.					7,313,799

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Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
05-04E 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>				
	MDBLP-GF				
	i) DBLP-GF1	1	No.	240,000	240,000
	ii) DBLP-GF2	1	No.	206,000	206,000
	iii) DBLP-FF1	1	No.	165,000	165,000
	vi) DBLP-FF2	1	No.	132,000	132,000
	v) MCC-WP	1	No.	222,000	222,000
	vi) DB-EXT (IP 54)	1	No.	290,000	290,000
	vii)	1	No.	130,000	130,000
	PART-2: <u>CABLES AND CONDUITS</u>				
05-04E 2	<p><u>L.V. Power Cables</u></p> <p>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.</p>				
	a) 4 Core Cu/PVC/PVC CABLE				
	i. 4 core 10mm.sq.	415	R.ft	580	240,700
	ii. 4 core 16mm.sq.	385	R.ft	775	298,375

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Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
iii.	4 core 95mm.sq.	75	R.ft	3,200	240,000
b)	Circuit Protective Conductor (CPC)				
i.	1 core 10mm sq. PVC insulated colour Green/Yellow.	415	R.ft	135	56,025
ii.	1 core 16mm sq. PVC insulated colour Green/Yellow.	385	R.ft	180	69,300
iii.	1 core 50mm sq. PVC insulated colour Green/Yellow.	75	R.ft	470	35,250
05-04E 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 dia. PVC conduit to pull electric cable.	390	R.ft	140	54,600
b)	38mm dia. PVC conduit to pull electric cable.	365	R.ft	180	65,700
c)	50mm dia. PVC conduit to pull electric cable.	50	R.ft	260	13,000
d)	75mm dia. PVC conduit to pull electric cable.	150	R.ft	550	82,500
05-04E 4	<u>PART-3 Wiring & Conduiting</u> <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.	6,150	196,800
b)	Same as item (a) but wiring from switch to switch.	85	Nos.	1,430	121,550
c)	Wiring from switch/dimmer to first light/fan point 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 and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	224	Nos.	1,280	286,720

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Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
d)	Wiring and conduiting of light point to point 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.	136	Nos.	1,085	147,560
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.	26	Nos.	7,900	205,400
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.	25	Nos.	530	13,250
g)	Same as (f) 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.	41	Nos.	1,930	79,130
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.	4,250	17,000
	PART-4: <u>LIGHT FIXTURES, FANS, SWITCHES, OUTLETS & ACCESSORIES</u>				
05-04E 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.				

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Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
a.	Fluorescent Light TMS 015 with 1x36Watt TL-D lamp color 84 w electronic ballast.	97	Nos.	2,430	235,710
b.	Fluorescent Light TMS 015 with 1x18Watt TL-D lamp color 84 w electronic ballast.	7	Nos.	1,490	10,430
c.	Fluorescent Light TCS398 with 2x36Watt TL-D lamp color 84 with M2 Louver & electronic ballast.	31	Nos.	8,800	272,800
d.	Fluorescent Light TCS398 2x36Watt TL-D lamp color 84 with M6 Louver & electronic ballast.	126	Nos.	7,890	994,140
e.	Fluorescent Light TBS 318 with 1x36Watt TL-D lamp color 84 w electronic ballast.	16	Nos.	8,880	142,080
05-04E 6	<u>Ceiling Fans</u> Supply, installation and commissioning of ceiling fans of following sizes steel body, 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.	17	Nos.	7,150	121,550
b.	48" dia.	63	Nos.	6,300	396,900
c.	36" dia.	1	Nos.	5,700	5,700
05-04E 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	18	Nos.	590	10,620
ii)	Two gang - 1 Way Switch	38	Nos.	740	28,120
iii)	Three gang - 1 Way Switch	15	Nos.	910	13,650
iv)	Four gang - 1 Way Switch	1	Nos.	1,400	1,400
v)	One gang - Fan Dimmer	9	Nos.	990	8,910
vi)	Two gang - Fan Dimmer	36	Nos.	2,210	79,560
05-04E 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.				

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Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	i) 10A, 2-pin universal Switch Socket outlet.	30	Nos.	980	29,400
	ii) 13A, 3-pin Simplex Switch Socket outlet.	40	Nos.	970	38,800
	iii) 13A, 3-pin Duplex Switch Socket outlet.	17	Nos.	1,490	25,330
	iv) 15A, 3-pin simplex Switch Socket outlet.	7	Nos.	1,170	8,190
	v) Floor Box - Type B	24	Nos.	2,980	71,520
05-04E 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.	1,750	1,750
05-04E 10	PART-5: <u>EARTHING SYSTEM</u> <u>Earth Electrode</u> Supply at site and installation of Stainless Steel copper claded earth electrodes, 10 feet long and 20mm dia including cost of all necessary materials, complete in all respects, as per specification.	0	Nos.		
05-04E 11	<u>Copper Conductor</u> a) Supply, installation and connecting up of 1 x 16sqmm 1-Core Cu/PVC cable, in 38mm dia uPVC Class-d conduit directly buried in ground, 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	390	3,900
	b) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia uPVC Class-d 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.	40	R.ft	390	15,600

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Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	c) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia uPVC Class-d 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.	100	R.ft	355	35,500
	d) Supply, installation and connections of bare copper conductor 2x50 mm sq. in 38mm dia uPVC Class-d conduit, from building rebars 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.	250	R.ft	615.00	153,750
	e) Supply, installation and connections of copper conductor 1x50 mm sq. 1-Core Cu/PVC cable, in 38mm dia uPVC Class-d 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	615	9,225
05-04E 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.	90,000	180,000
05-04E 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.	8,000	16,000
05-04E 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.	5,500	11,000
05-04E 15	<u>Testing</u>				

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Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	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	15,000	15,000
	PART-6: TELEPHONE / VOICE SYSTEM				
05-04E 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.	275	R.ft	55	15,125
	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.	2150	R.ft	95	204,250
	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.	180	R.ft	95	17,100
	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	35	Nos.	1,650	57,750
	ii) Duplex Outlet RJ 45	4	Nos.	2,800	11,200
05-04E 17	Utility 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.	39,000	39,000
05-04E 18	Patch Panel				

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Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	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.	29,000	29,000
	ii) 8 Port Patch Panel	2	Nos.	16,000	32,000
05-04E 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.	300	1,500
	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	38	Nos.	1,450	55,100
	ii) 3 meter long	38	Nos.	2,150	81,700
05-04E 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.	37,680	37,680
05-04E 21	<u>Telephone Sets</u>				
	Supply and connection of following type of Telephone sets.				
	a) Telephone with CLI Module	2	Nos.	11,000	22,000
	b) Telephone without CLI Module	3	Nos.	6,000	18,000
	<u>PART -7 Fire Alarm System</u>				
05-04E 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.	16,850	134,800
	ii) Heat detector with buzzer	5	Nos.	10,980	54,900
	<u>PART -8 LIGHTNING PROTECTION SYSTEM</u>				

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Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
05-04E 23	<p><u>Roof Conductor</u></p> <p>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, <u>copper crossing 3"x3"</u> as shown on drawings, brass screws, all necessary fixing material / accessories, complete in all respects.</p>	1800	R.ft.	475	855,000
05-04E 24	<p><u>Down Conductor</u></p> <p>a) Supply at site, installation, connections of 2x50mm.sq. stranded bare copper conductor as down conductors to be installed within the columns from air terminal on roof to building rebars, all other required accessories, complete in all respects.</p>	560	R.ft.	570	319,200
05-04E 25	<p><u>Air terminal</u></p> <p>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.</p>	6	Nos.	45,000	270,000
05-04E 26	<p><u>Copper Test Link</u></p> <p>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.</p> <p>PART -9 <u>Public Address System</u></p>	8	Nos.	3,500	28,000
05-04E 27	<p><u>Amplifier</u></p> <p>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.</p> <p>i) 30W</p>	2	Nos.	17,500	35,000
05-04E 28	<p><u>Speakers</u></p>				

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Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	a) Supply, installation & commissioning of 10W wall mounted speaker with all accessories complete in all respects, as per approved manufacturer list.	4	Nos.	13,250	53,000
05-04E 29	Microphone Cordless Microphone.	2	Nos.	12,000	24,000
05-04E 30	Wiring 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.	250	R.ft.	270	67,500
	PART -10 EXTERNAL AREA LIGHTING				
05-04E 31	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.	Rate only	Nos.	7,300	
	b) Britlite or equivalent Bollard Light Fixture in die cast aluminum body powder coated suitable for walkways with 1x18WATT PLC LAMP IP-67.	4	Nos.	17,550	70,200
	c) Philips type or equivalent 50watt SON-T lamp mounted on decorative proposed pole.	0	Nos.		
	d) Philips type or equivalent MMF383 flood light with 250watt SON-T lamp mounted on proposed pole.	0	Nos.		
05-04E 32	Light Poles				

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Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
a)	Supply and installation and Testing & Commissioning of 2.5 meter high steel decorative pole with already taken 50Watt SON-T Lamp ,complete with deep drawn base plate, pole foundation, excavation and backfilling, self locking inspection door with special key only, black anchor bolts, plastic pipes, final paint base, coaxial cable connectors, internal wiring with 3 core 2.5sqmm , and an automatic transfer switch (10 Amp-1set). galvanized nuts, galvanized washers, brackets, clamps, earth lug inside inspection door compartment and pole inner compartment suitable to hold cable connection box including all accessories etc., as per standards, specification, drawings, complete in all respects and to the approval of the Owner.	0	Nos.		
b)	Supply and installation and Testing & Commissioning of 6 meter high hot-dipped galvanized steel pole with already taken 2 no. of 250watt lamps ,complete with deep drawn base plate, pole foundation, excavation and backfilling, self locking inspection door with special key only, black anchor bolts, plastic pipes, final paint base, coaxial cable connectors, internal wiring with 3 core 2.5sqmm , and an automatic transfer switch (10 Amp-2set). galvanized nuts, galvanized washers, brackets, clamps, earth lug inside inspection door compartment and pole inner compartment suitable to hold cable connection box including all accessories etc., as per standards, specification, drawings, complete in all respects and to the approval of the Owner.	0	Nos.		
05-04E 33	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.	1	Nos.	8,500	8,500
b)	Same as item (h) but wiring from light point to light point.	3	Nos.	6,300	18,900

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Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
c)	Circuit Wiring and conduiting from DB to first light point with 1 x 6 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.	0	Nos.		
d)	Same as item (h) but wiring from light point to light	0	Nos.		
05-04E 34	Earthing system Supply, installation, testing and commissioning of Earthing System for poles including earth electrode set, with 20mm dia 7feet long driven Stainless Steel copper claded earth rod, connected with PVC insulated copper earth conductor 1 x 16 sq.mm in 25 mm dia PVC pipe, upto earth connecting point including concrete inspection chamber, medium-duty C.I. cover, etc.,complete in all respects and to the approval of the Engineer.	0	Nos.		
PART -11 MISCELLANEOUS WORKS					
05-04E 35	Cable TV System				
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.	100	Rft.	110	11,000
b)	Outlets 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.	1	Nos.	7,100	7,100
05-04E 36	Manholes 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.	19,000	38,000
05-04E 37	Utility / PTCL Connection				

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Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	a) Supply and co-ordination for the utility connection from WAPDA / HESCO 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	25,000	25,000
	PART -12 SOLAR ROOM ELECTRIFICATION WORKS				
05-04E 38	<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, complete in all respects.				
	a. Fluorescent Light TCW098 with 1x36Watt TL-D lamp color 84 & electronic ballast (IP65).	2	Nos.	9,100	18,200
	b. Fluorescent Light TCS398 with 2x36Watt TL-D lamp color 84 with M2 Louver & electronic ballast.	2	Nos.	9,500	19,000
05-04E 39	<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.	1,110	1,110
05-04E 40	<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.	1,630	1,630
05-04E 41	<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.				

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GBHSS SETHARJA , TALUKA MIRWAH

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
05-04E 42	i) Heat detector with buzzer	1	Nos.	13,500	13,500
	<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.	6,100	6,100
	b) Same as item (a) but wiring from switch to power outlet.	1	Nos.	1,450	1,450
	c) Wiring from switch to first light 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 and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	4	Nos.	1,290	5,160
CARRIED FORWARD TO SUMMARY- GRAND TOTAL					9,302,050

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	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.				
05-05P 1	European style coupled water closet with seat cover, flush tank C.P. (chrome plated) connector, thimble, etc. a. Type - EWC	8	No.	15,500	124,000.00
05-05P 2	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.	12,300	270,600.00
05-05P 3	Urinal wall hung type with automatic 1/2" size flush valve, CP trap, waste, connector and fixing accessories.		No.	13,300	
05-05P 4	Wash basin (WB) including C.P P- trap/Bottle Trap, stop cocks, etc. i. Type - WB - V(Vanity)	21	No.	3,900	81,900.00
05-05P 5	Wash basin hot and cold water mixer, waste, etc for following. i. Type - WB - V(Vanity)		No.		
05-05P 6	Toilet Hand Shower with flexible chain & telephone type shower Including tee stop cock etc. complete in all respect. Type - TS	30	No.	3,900	117,000.00
05-05P 7	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.	6	No.	8,150	48,900.00
05-05P 8	Sink hot and cold water mixer, etc, for following. a. For SK-1		No.		
05-05P 9	S.S Grease Trap 7.5 Kg. capacity, inlet/outlet 2" Dia connections.		No.		
05-05P 10	Toilet accessories complete set, (Imported make)				
	i. Soap dispenser	8	No.	840	6,720.00
	ii. Toilet paper holder	30	No.	955	28,650.00
	iii. Coat Hook	8	No.	115	920.00
	iv. Hand Dryer	8	No.	2,450	19,600.00
	v. Paper Rack	8	No.	1,630	13,040.00
	<u>Plumbing Water Supply</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
05-05P 11	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)	120	Rft.	120	14,400.00
	ii) ¾" internal dia (32 mm outer dia)	360	Rft.	160	57,600.00
	iii) 1" internal dia (40 mm outer dia)	645	Rft.	235	151,575.00
	iv) 1¼" internal dia (50 mm outer dia)	140	Rft.	375	52,500.00
	v) 1½" internal dia (63 mm outer dia)	180	Rft.	620	111,600.00
	vi) 2" internal dia (75 mm outer dia)		Rft.		
	vii) 2½" internal dia (90 mm outer dia)		Rft.		
05-05P 12	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)	8	No	1,755	14,040.00
	ii) 1" internal dia (40 mm outer dia)	2	No	5,750	11,500.00
	iii) 1¼" internal dia (50 mm outer dia)	2	No	8,740	17,480.00
	iv) 1½" internal dia (63 mm outer dia)	1	No	12,800	12,800.00
	v) 2" internal dia (75 mm outer dia)		No		
	vi) 2½" internal dia (90 mm outer dia)		No		
	<u>Plumbing Sewerage</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
05-05P 13	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	245	Rft.	130	31,850.00
	3" dia		Rft		
	4" dia	875	Rft.	225	196,875.00
	6" dia		Rft.		
05-05P 14	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.	35	No.	1,690	59,150.00
05-05P 15	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.		
05-05P 16	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.	5	No.	9,600	48,000.00
05-05P 17	Providing and fixing Clean Out complete in all respects	18	No.	1,880	33,840.00
	<u>Water Cooler</u>				
05-05P 18	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.	145,000	580,000.00
	EXTERNAL DEVELOPMENT				
	<u>Septic Tank</u>				
05-05P 19	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)	10	Rft.	590	5,900.00
	2" dia pipe sleeves 9" long	5	No.s	590	2,950.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
05-05P 20	<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.</p> <p>6" i/d (150 mm)</p> <p><u>Ground Water Storage Tank</u></p>	5	Rft.	170	850.00
05-05P 21	<p>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.</p> <p>i) ¾" dia</p> <p>ii) 1½" dia</p> <p>ii) 2" dia, pipe sleeve 9" long</p>	5	Rft.	170	850.00
		5	Rft.	435	2,175.00
		2	No.s	650	1,300.00
05-05P 22	<p>Supply and fitting of M.S manhole cover (size 2'x2') with frame, painted black on both sides, etc. complete in all respects, as per drawing and directed by the Engineer.</p> <p><u>Kanchan Arsenic Filter</u></p> <p>Filter Material.</p>	2	No.	24,500	49,000.00
05-05P 23	<p>Providing & laying gravel, including screening and washing as per drawing or directed by the Engineer.</p> <p>Gravel size 6 mm to 15 mm.</p>	21	Cft	90	1,890.00
05-05P 24	<p>Providing & laying coarse sand, including screening and washing as per drawing or directed by the Engineer.</p>	42	Cft	30	1,260.00
05-05P 25	<p>Providing & laying fine sand, including screening and washing as per drawing or directed by the Engineer.</p>	42	Sq.ft.	32	1,344.00
05-05P 26	<p>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.</p>	37	Sq.ft.	335	12,395.00
05-05P 27	<p>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.</p>	9	Cft.	80	720.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
05-05P 28	Providing & laying iron nails with out coating (1" thick layer) as per drawing or directed by the Engineer.	125	Kg.	145	18,125.00
05-05P 29	Providing & fixing cover over Kanchan Filter of PVC sheet 1/2" thick, as per drawing or directed by the Engineer.	32	Sq.ft.	240	7,680.00
05-05P 30	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.	170	3,910.00
05-05P 31	Providing and fixing Plastic Shower Heads	9	Nos	240	2,160.00
	<u>Tube Well / Penumatic Pump</u>				
05-05P 32	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.	335	33,500.00
05-05P 33	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.	355	17,750.00
05-05P 34	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.	100	100.00
05-05P 35	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)	104	Rft.	53	5,512.00
	ii) 1-1/4" i/d(30mm)	72	Rft.	70	5,040.00
	iii) 2" i/d(50mm)	38	Rft.	135	5,130.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
05-05P 36	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.	125	5,000.00
05-05P 37	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)	72	Rft.	415	29,880.00
05-05P 38	Testing and developing of bore hole, complete in all respect and as directed by the Engineer.	3	Per Hr.	1,800	5,400.00
05-05P 39	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.	160	7,200.00
05-05P 40	Providing/fixing Injector valve as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	Each.	240	240.00
05-05P 41	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.	75	75.00
05-05P 42	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.	50,000	50,000.00
<u>EXTERNAL PIPING</u>					
<u>Plumbing Water Supply</u>					
05-05P 43	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)	105	Rft.	170	17,850.00
	iii) 1" internal dia (40 mm outer dia)		Rft.		
	iv) 1¼" internal dia (50 mm outer dia)	186	Rft.	390	72,540.00
	v) 1½" internal dia (63 mm outer dia)	28	Rft.	630	17,640.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
	vi) 2" internal dia (75 mm outer dia)		Rft.		
	vii) 2½" internal dia (90 mm outer dia)		Rft.		
05-05P 44	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)	1	No	1,810	1,810.00
	ii) 1" internal dia (40 mm outer dia)		No		
	iii) 1¼" internal dia (50 mm outer dia)	1	No	8,710	8,710.00
	iv) 1½" internal dia (63 mm outer dia)	1	No	12,150	12,150.00
	v) 2" internal dia (75 mm outer dia)		No		
	vi) 2½" internal dia (90 mm outer dia)		No		
	<u>Plumbing Sewerage</u>				
05-05P 45	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.	230	7,360.00
	6" dia	660	Rft.	580	382,800.00
05-05P 46	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.		No.		
05-05P 47	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.		

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
05-05P 48	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.		No.		
05-05P 49	Providing and fixing Clean Out complete in all respects		No.		
	<u>Water Supply Pump For GST</u>				
01-05P50	Supply at site, installation, testing and commissioning of water supply reciprocating pump with 2HP motor as per specification complete in all respect.	2	No	26,000	52,000.00
C/o to Summary for Plumbing Works Pak Rs.					2,954,736

SINDH BASIC EDUCATION PROGRAM
CONSTRUCTION OF NEW SCHOOLS AND UPGRADATION OF EXISTING SCHOOLS
Package- 01A: District Khairpur Mirs
GBHS TANDO MIR ALI (P01A-KHR07)
SUMMARY OF TENDERED COST (BALANCE WORKS)

CODE	DESCRIPTION	M/s Kaybee - BS (JV)
	A. GENERAL ITEMS	327,750
	B. CIVIL WORKS	59,041,940
	C. EXTERNAL WORKS	9,535,418
	D. ELECTRICAL WORKS	9,504,695
	E. PLUMBING WORKS	3,085,056
	Sub-Total	81,494,859

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	<u>Temporary Facilities (Optional Items)</u>				
01- 01 G 1	Ref.Spec. No. G05 Providing and maintaining a rental building of area 1,000 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	not Required	
	OR				
01- 01 G 2	Providing and maintaining a tent school of area 1,000 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	not Required	
	OR				
01- 01 G 3	Providing and maintaining porta cabins for school of area 1,000 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	not Required	
	Sub- Total (Rs.)				
	<u>Site Clearing and Grubbing</u>				
01- 01 G 4	Ref.Spec. No. C01 Clearing, removal of debris from site and Grubbing complete in all respect as directed by the Engineer.	18,700	Sft	3.00	56,100.00
	<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.	450	Sft	25.00	11,250.00
01- 01 G 6	Dismantling, removing of existing sewerage lines as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	0	Rft.		
01- 01 G 7	Dismantling, removing of existing water supply lines as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	0	Rft.		
01- 01 G 8	Dismantling, removing of existing electrical supply line as directed by the Engineer.	0	Rft.		

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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.	300	Rft	18.00	5,400.00
<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	150000.00	150,000.00
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	25000.00	25,000.00
<u>SIGN BOARD / PLAQUE</u> Ref.Spec. No. SP 100					
01- 01 G 12	Maintanance of (already fixed) Project sign board for construction duration as directed by the Engineer.	1	Job	10000.00	10,000.00
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	40000.00	40,000.00
<u>WATER TESTING</u> Ref.Spec. No.					
01- 01 G 14	Sampling and testing of Water from bore of well (TDS) including submission of report as per specification.	1	Each	30000.00	30,000.00
Total General Items (Rs.)					327,750
Sub- Total C/o to Summary General Items Pak Rs.					327,750

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	<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	0	Cft.	Already Done	
	b) More than 5 ft upto 10 ft.	0	Cft.	Already Done	
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)	0	Cft.	Already Done	
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	11,150	Cft.	18.00	200,700.00
	c) Compaction of top layer as per specifications and as directed by the Engineer.	11810	Sft.	6.00	70,860.00
	<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	0	L.S.		
	b) Dewatering	0	Day		
	<u>TERMITE CONTROL TREATMENT</u>				
	Ref.Spec. No. C03				
01- 02 C 4	Termite control treatment to specified surfaces following structures complete in all respect as per drawings and specification: (Under sub floor only)	19500	Sq.ft.	25.00	487,500.00
	<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.	0	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.	0	ton.		

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u>				
01- 02 C 7	Ref.Spec. No. C04 Blinding concrete 1250 psi using Type-V cement.	0	Cft.		
01- 02 C 8	Reinforced cement concrete using Type-V cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Raft foundation slab b) Columns upto plinth c) Plinth beams	0 0 0	Cft. Cft. Cft.		
	<u>BRICK MASONRY</u>				
07- 02 C 9	Ref.Spec. No. C05 Solid brick masonry under the plinth beam of one and half brick thickness, set in 1:4 cement 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.	0	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.	11810	Sq.ft.	40.00	472,400.00
	<u>P.C.C UNDER FLOORING</u>				
01- 02 C 11	Ref.Spec. No. C07 PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	11810	Sq.ft.	85.00	1,003,850.00
	<u>PLINTH PROTECTION</u>				
01- 02 C 12	Ref.Spec. No. C04 & C07 Blinding concrete 1250 psi using Type-V cement.	560	Cft.	185.00	103,600.00
	<u>PROTECTION WORKS</u>				
01- 02 C 13	Ref.Spec. No. C16 Vapor barrier sheet, under the floor as per drawings and specifications.	12500	Sq.ft.	13.00	162,500.00
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.	1250	Sq.ft.	40.00	50,000.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
<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.	24	ton.	140000.00	3,360,000.00
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.	140000.00	140,000.00
<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	650	Cft.	425.00	276,250.00
	b) Beams & lintels	2900	Cft.	425.00	1,232,500.00
	c) Slab & projections	7050	Cft.	425.00	2,996,250.00
	d) Stair cases	350	Cft.	425.00	148,750.00
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts.	130	Cft.	425.00	55,250.00
	f) Parapet wall for stair cases	60	Cft.	425.00	25,500.00
<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.	36	ton.	140000.00	5,040,000.00
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.	140000.00	140,000.00
<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	2350	Cft.	425.00	998,750.00
	b) Beams & lintels	3000	Cft.	425.00	1,275,000.00
	c) Slab & projections	7150	Cft.	425.00	3,038,750.00
	d) Stair cases	176	Cft.	425.00	74,800.00
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts.	143	Cft.	425.00	60,775.00
	f) Parapet wall for stair cases	26	Cft.	425.00	11,050.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	<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.	4.5	ton.	140,000	630,000.00
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.	140000.00	140,000.00
	<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	110	Cft.	425	46,750.00
	b) Beams & lintels	125	Cft.	425	53,125.00
	c) Slab & projections	280	Cft.	425	119,000.00
	d) Parapet Wall/ Purdi	925	Cft.	425	393,125.00
	e) Precast coping for parapet wall at roof and erecting/ fixing including shuttering and all accessories and/or embedded parts.	1150	Rft.	425	488,750.00
	g) Over head water tank, column, walls & slab	396	Cft.	425	168,300.00
	f) Others Misc Structure	20	Cft.	425	8,500.00
	<u>FINISHING WORKS</u>				
	<u>For Ground floor</u>				
	<u>BRICK MASONRY</u>				
	Ref.Spec. No. C05				
01- 02 C 24	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	1750	Cft.	265	463,750.00
	b) 9" thick	7650	Cft.	265	2,027,250.00
	c) 13-1/2" thick	30	Cft.	265	7,950.00
	<u>DOORS FRAMES</u>				
	Ref.Spec. No. C09 & C11				
01- 02 C 25	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.	1072	R.ft.	290	310,880.00
	<u>CEMENT PLASTER</u>				
	Ref.Spec. No. C06				
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BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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.	48.00	18,000.00
01- 02 C 27	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.	11225	Sq.ft.	40.00	449,000.00
01- 02 C 28	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.	24000	Sq.ft.	48.00	1,152,000.00
<u>ALUMINIUM WORKS</u>					
Ref.Spec. No. C11					
01- 02 C 29	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.	2130	Sq.ft.	1000.00	2,130,000.00
01- 02 C 30	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.	950.00	110,200.00
<u>STRUCTURAL STEEL</u>					
Ref. Sec.No. C13					
01- 02 C 31	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.	2625	Kg	210.00	551,250.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 02 C 32	Providing and fixing railing for stairs/ramps as per drawing and specifications complete in all respect.				
	a) MS railing stairs	55	Rft	500.00	27,500.00
	b) M.S railing at entrance	50	Rft	500.00	25,000.00
01- 02 C 33	Providing and fixing MS pipe railing for courtyard with paintings, as per drawing and specifications complete in all respect and approved by the Engineer.	215	Rft	1600.00	344,000.00
01- 02 C 34	Providing and fixing MS folding gate (Emergency Exit) with paintings, complete in all respects as per drawing and specifications.	1	No	60,000	60,000.00
<u>FLOOR AND WALL FINISHES</u>					
Ref.Spec. No. C07					
01- 02 C 35	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.	11225	Sq.ft.	180	2,020,500.00
01- 02 C 36	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.	150	Sq.ft.	180	27,000.00
01- 02 C 37	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.	790	Sq.ft.	185	146,150.00
01- 02 C 38	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.	825	Sq.ft.	215	177,375.00
01- 02 C 39	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.	2400	Sq.ft.	225	540,000.00
<u>MARBLE WORKS</u>					
Ref.Spec. No. C07 & C08					

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 02 C 40	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)	100	Sq.ft.	300	30,000.00
		50	Sq.ft.	180	9,000.00
01- 02 C 41	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.	400	Sq.ft.	300	120,000.00
01- 02 C 42	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.	100	Sq.ft.	180	18,000.00
01- 02 C 43	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.	60	Sq.ft.	180	10,800.00
01- 02 C 44	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.	122	Sq.ft.	280	34,160.00
PAINTING					
Ref.Spec. No. C10					
01- 02 C 45	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.	24000	Sq.ft.	25	600,000.00
01- 02 C 46	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.	24000	Sq.ft.	35	840,000.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 02 C 47	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.	32	12,000.00
<u>WOODEN DOORS</u>					
01- 02 C 48	Ref.Spec. No. C09 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.	875	Sq.ft.	950	831,250.00
01- 02 C 49	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.	165	Sq.ft.	415	68,475.00
<u>FALSE CEILING</u>					
01- 02 C 50	Ref.Spec. No. 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.	1210	Sq.ft.	105	127,050.00
<u>Pre cast C.C Patren jali</u>					
01- 02 C 51	Ref.Spec. No. C.C Patren jali as per approved designed and specification	630	Sq.ft.	110	69,300.00
<u>BRICK FACING</u>					
01- 02 C 52	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.	10000	Sq.ft.	200	2,000,000.00
<u>FINISHING WORKS</u>					
<u>For First floor</u>					

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	<u>BRICK MASONRY</u>				
	Ref.Spec. No. C05				
01- 02 C 53	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	1000	Cft.	265	265,000.00
	b) 9" thick	7750	Cft.	265	2,053,750.00
	c)13-1/2" thick	20	Cft.	265	5,300.00
	<u>DOORS FRAMES</u>				
	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.	823	R.ft.	280	230,440.00
	<u>CEMENT PLASTER</u>				
	Ref.Spec. No. C 06				
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.	48	8,400.00
01- 02 C 56	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.	12325	Sq.ft.	48	591,600.00
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.	22000	Sq.ft.	40	880,000.00
	<u>ALUMINIUM WORKS</u>				
	Ref.Spec. No. C 11				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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 & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	2250	Sq.ft.	1,000	2,250,000.00
	<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.	2775	Kg	210	582,750.00
01- 02 C 60	Providing and fixing MS stair railing as per drawing and specifications complete in all respect.	30	Rft	500	15,000.00
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.	230	Rft	1,600	368,000.00
	<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.	12325	Sq.ft.	180	2,218,500.00
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.	850	Sq.ft.	185	157,250.00
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.	825	Sq.ft.	215	177,375.00
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.	2375	Sq.ft.	225	534,375.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	<u>MARBLE WORKS</u>				
01- 02 C 66	Ref.Spec. No. C 07, 08 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.	200	Sq.ft.	300	60,000.00
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.	180	9,000.00
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.	180	9,000.00
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.	35	Sq.ft.	180	6,300.00
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.	95	Sq.ft.	280	26,600.00
	<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.	12325	Sq.ft.	25	308,125.00
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.	22000	Sq.ft.	35	770,000.00
	<u>WOODEN DOORS</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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.	700	Sq.ft.	950	665,000.00
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.	135	Sq.ft.	415	56,025.00
<u>FALSE CEILING</u>					
01- 02 C 75	Ref.Spec. No. 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.	815	Sq.ft.	105	85,575.00
<u>Pre cast C.C Patren jali and Railing</u>					
01- 02 C 76	Ref.Spec. No. C.C Patren jali as per approved designed and specification	630	Sq.ft.	110	69,300.00
<u>BRICK FACING</u>					
01- 02 C 77	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.	7100	Sq.ft.	200	1,420,000.00
<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.	13950	Sq.ft.	350	4,882,500.00
<u>FINISHING WORKS</u>					
<u>For Roof floor / Secound floor</u>					
<u>BRICK MASONRY</u>					
Ref.Spec. No. C05					

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 02 C 79	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	30 490 20	Cft. Cft. Cft.	265 265 265	7,950.00 129,850.00 5,300.00
	<u>DOORS FRAMES</u> 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 patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	63	R.ft.	280	17,640.00
	<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.	1920	Sq.ft.	48	92,160.00
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.	200	Sq.ft.	48	9,600.00
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.	850	Sq.ft.	40	34,000.00
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.	438	Sq.ft.	40	17,520.00
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 compound Aquafin 1C or approved equivalent.	438	Sq.ft.	115	50,370.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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.	25,000	50,000.00
<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.	200	Sq.ft.	180.00	36,000.00
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.	20	Sq.ft.	185.00	3,700.00
<u>MARBLE WORKS</u>					
01- 02 C 89	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.	300.00	1,800.00
<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.	450	Sq.ft.	25.00	11,250.00
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.	850	Sq.ft.	35.00	29,750.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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.	1920	Sq.ft.	32.00	61,440.00
<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 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.	50	Sq.ft.	950.00	47,500.00
<u>Pre cast C.C Patren jali and Railing</u>					
01- 02 C 94	Ref.Spec. No. C.C Patren jali as per approved designed and specification	630	Sq.ft.	110.00	69,300.00
01- 02 C 95	Precast water spout as per approved designed and specification	22	No.	510.00	11,220.00
<u>BRICK FACING</u>					
01- 02 C 96	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.	4100	Sq.ft.	200.00	820,000.00
Total C/o to Summary for CIVIL WORKS Pak Rs.					59,041,940

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	<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 upto following depths including disposal of surplus / rejected excavated materials to designated places.				
	a) 0 ft to 5 ft	3,100	Cft.	8	24,800.00
01- 03 D 2	Fill and backfill with selected materials obtained from excavation including watering and compaction to every layer as per specification.				
		2,200	Cft.	5	11,000.00
01- 03 D3	Fill and backfill with selected materials from borrow area including watering and compaction to every layer as per specification.				
		200	Cft.	14	2,800.00
	<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		L.S.		
	b) Dewatering		Day		
	<u>TERMITE CONTROL TREATMENT</u>				
	Ref.Spec. No. C03				
01- 03 D5	Termite control treatment to specified surfaces following structures complete in all respect as per drawings and specification:				
		770	Sq.ft.	25	19,250.00
	<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.				
		5.0	ton.	140,000	700,000.00
	<u>PLAIN AND REINFORCED CONCRETE</u>				
	Ref.Spec. No. C04				
01- 03 D7	Blinding concrete 1250 psi using Type-V cement.				
		400	Cft.	185	74,000.00
01- 03 D8	Reinforced cement concrete using Type-V cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification.				
	a) Footings	675	Cft.	385	259,875.00
	b) Columns upto plinth	280	Cft.	385	107,800.00
	c) Plinth beams	515	Cft.	385	198,275.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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>BRICK MASONRY</u> Ref.Spec. No. C05	600	Cft.	385	231,000.00
01- 03 D10	Solid brick masonry wall 9" thick with Type-V cement set in 1:4 cement sand mortar, straight or curve below plinth beam 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	515	Cft.	265	136,475.00
01- 03 D11	Solid brick masonry wall with pointing on exterior faces above plinth beam 4-1/2" 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. <u>CEMENT PLASTER</u> Ref.Spec. No. C06	1,525	Cft.	265	404,125.00
01- 03 D12	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces (Columns, wall, beams and projections 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	3,000	Sq.ft.	48	144,000.00
01- 03 D13	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. <u>COPING</u> Ref.Spec. No. C04	2,150	Sq.ft.	30	64,500.00
01- 03 D14	Providing and fixing 3" thick coping including plaster using OP cement for boundary wall complete as shown on the drawings. <u>STRUCTURAL STEEL</u> Ref. Sec.No. C13	300	Rft.	200	60,000.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D15	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	90,000	180,000.00
01- 03 D16	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	25,000	50,000.00
<u>LANDSCAPING</u>					
Ref. Sec.No.					
01- 03 D 17	Fill and backfill with selected materials including watering and compaction to every layer as per specification.	2,450	Cft.	14	34,300.00
01- 03 D18	Area Fill with selected materials including watering and compaction to every layer as per specification.	85,000	Cft.	14	1,190,000.00
01- 03 D19	Relocation and replanting of removed trees as per specifications and and as directed by the Engineer.	3	No.	1,000	3,000.00
01- 03 D20	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.	23,750	Sq.ft.	40	950,000.00
01- 03 D21	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.	23,750	Cft.	14	332,500.00
01- 03 D22	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)	12	No.	200	2,400.00
	b) Babul tree (3 to 4 feet)	12	No.	200	2,400.00
	c) Golmohar (3 to 4 feet)	12	No.	200	2,400.00
	d) Champa (2 to 3 feet)	40	No.	200	8,000.00
	e) Crape Jasmine (2 to 3 feet)	50	No.	200	10,000.00
	f) Cement Concrete planters.	30	Rft	400	12,000.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	<u>Foothpath Walkway (Precast Paving Blocks / Tiles)</u> Ref. Sec.No.				
01- 03 D23	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.	4,950	Sq.ft.	25	123,750.00
01- 03 D24	Precast cement concrete paving blocks Envicrete or approved equivalent of size 8" x 4" x 1.5" laid in approved pattern including 2" thick sand cushion, levelling and dressing complete in all respect and as directed by the Engineer.	4,950	Sq.ft.	170	841,500.00
01- 03 D25	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.	645	Rft	350	225,750.00
	<u>EXTERNAL SEWER & MANHOLES</u>				
01- 03 D26	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	10	Nos.	25,000	250,000.00
	ii. 36" x 36" SIZE	7	Nos.	30,000	210,000.00
01- 03 D27	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.	17	No.	30,000	510,000.00
	<u>Septic Tank</u>				
01- 03 D28	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	830	Cft.	8	6,640.00
	b) More than 5 ft upto 10 ft.	430	Cft.	10	4,300.00
01- 03 D29	Blinding concrete 1250 psi using Type-V cement.	55	Cft.	185	10,175.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D30	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing compound Aquafin 1C or approved equivalent.	630	Sq.ft.	115	72,450.00
01- 03 D31	Reinforced cement concrete using Type-V cement 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.	385 385 385	42,735.00 132,825.00 26,950.00
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	140,000	210,000.00
01- 03 D33	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.	48	4,320.00
01- 03 D34	3/4" 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	25,200.00
01- 03 D35	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.	48	20,640.00
01- 03 D36	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.	300	15,300.00
01- 03 D37	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.	30,000	60,000.00
01- 03 D38	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No.	3,000	48,000.00
	<u>Soakage Pit (Option-1)</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D39	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	890	Cft.	8	7,120.00
	b) More than 5 ft upto 10 ft.	890	Cft.	10	8,900.00
	c) More than 10 ft upto 17 ft.	980	Cft.	30	29,400.00
01- 03 D40	Blinding concrete 1250 psi using Type-V cement.	25	Cft.	185	4,625.00
01- 03 D41	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar.				
	a) 18" thick	640	Cft	265	169,600.00
	b) 13-1/2" thick	180	Cft	265	47,700.00
	b) 9" thick	90	Cft	265	23,850.00
01- 03 D42	Reinforced cement concrete using Type-V cement 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	500	45,000.00
01- 03 D43	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.25	Ton	140,000	35,000.00
01- 03 D44	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	30,000	30,000.00
01- 03 D45	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No	3,000	48,000.00
	<u>Ground Storage Tank</u>				
01- 03 D46	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	725	Cft.	8	5,800.00
	b) More than 5 ft upto 10 ft.	12	Cft.	10	120.00
01- 03 D47	Blinding concrete 1250 psi using Type-V cement.	48	Cft.	185	8,880.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D48	Reinforced cement concrete using Type-V cement 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.	385 385 385 385	38,500.00 98,175.00 23,100.00 3,850.00
01- 03 D49	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	1	Ton	140,000	140,000.00
01- 03 D50	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.	300	16,500.00
01- 03 D51	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) 9" thick	66	Cft.	265	17,490.00
01- 03 D52	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.	30,000	60,000.00
01- 03 D53	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	10	No.	3,000	30,000.00
01- 03 D54	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.	48	25,440.00
01- 03 D55	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.	48	5,568.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D56	3/4" 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.	675	Sq.ft.	40	27,000.00
01- 03 D57	2" thick, 3000 cement concrete floor smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	141	Sq.ft.	60	8,460.00
01- 03 D58	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.	100	Sq.ft.	30	3,000.00
01- 03 D59	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.	16	Sq.ft.	25	400.00
01- 03 D60	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.	60	Sq.ft.	35	2,100.00
01- 03 D61	MS Door including paint etc complete in all respect as shown in the drawings.	15	Sq.ft.	750	11,250.00
01- 03 D62	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing compound Aquafin 1C or approved equivalent.	585	Sq.ft.	115	67,275.00
	<u>Tube Well / Penumatic Pump</u> <u>Construction works</u>				
01- 03 D63	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	85	Cft.	8	680.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 02 C 64	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.	5	100.00
		40	Cft.	14	560.00
01- 03 D65	Blinding concrete 1250 psi using Type-V cement.	50	Cft.	185	9,250.00
01- 03 D66	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	15	Cft.	385	5,775.00
01- 03 D67	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.05	Ton	140,000	7,000.00
01- 03 D68	Solid brick masonry wall with brick coping 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 specification. a) 18" thick b) 13-1/2" thick a) 9" thick	40 30 175	Sft Sft Sft	265 265 265	10,600.00 7,950.00 46,375.00
01- 03 D69	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.	48	13,680.00
01- 03 D70	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.	48	1,200.00
01- 03 D71	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.	40	6,000.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D72	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	1,000.00
01- 03 D73	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.	85	2,125.00
01- 03 D74	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.	60	1,500.00
01- 03 D75	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.	60	1,980.00
01- 03 D76	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.	32	9,120.00
01- 03 D77	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.	25	625.00
01- 03 D78	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.	35	5,250.00
01- 03 D79	Vapor barrier sheet, under foundations and floor as per drawings and specifications.	25	Sq.ft.	13	325.00
01- 03 D80	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.	30	7,500.00
	<u>Kanchan Arsenic filter</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D81	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.	8	600.00
01- 03 D82	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	Cft.	5	250.00
		100	Cft.	14	1,400.00
01- 03 D83	Blinding concrete 1250 psi using Type-V cement.	15	Cft.	185	2,775.00
01- 03 D84	Reinforced cement concrete using SR cement 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.	385	9,625.00
		20	Cft.	385	7,700.00
		35	Cft.	385	13,475.00
		80	Cft.	385	30,800.00
01- 03 D85	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.5	Ton	140,000	70,000.00
01- 03 D86	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	3,360.00
01- 03 D87	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.	85	7,140.00
01- 03 D88	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.	65	5,460.00
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.	48	7,296.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D90	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.	40	5,040.00
01- 03 D91	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing compound Aquafin 1C or approved equivalent.	126	Sq.ft.	115	14,490.00
01- 03 D92	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.	30	6,540.00
C/o to Summary for External Development work Pak Rs.					9,422,084

BILL OF QUANTITIES

(Holding Tank & Soakage Trench 80')

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
<u>EXTERNAL DEVELOPMENT</u>					
<u>Holding Tank (Option-2)</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	755	Cft.	8.00	6,040.00
	b) More than 5 ft upto 10 ft.	540	Cft.	10.00	5,400.00
01- 03 D93	Blinding concrete 1250 psi using slag cement conforming to BS-146	50	Cft.	185.00	9,250.00
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.	30.00	13,980.00
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.	385.00	41,195.00
	b) Walls including chamfer etc.	335	Cft.	385.00	128,975.00
	c) Top Slab	89	Cft.	385.00	34,265.00
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	140,000.00	161,000.00
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.	48.00	4,896.00
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.	40.00	13,960.00
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.	48.00	22,368.00
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.	300.00	13,200.00

BILL OF QUANTITIES

(Holding Tank & Soakage Trench 80')

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
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.	30000.00	60,000.00
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.	3000.00	48,000.00
					562,529
01- 03 D103	<u>Soakage Trench (Option-3)</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.	5,125 -	Cft. Cft.	8.00	41,000.00
01- 03 D104	Blinding concrete 1250 psi using slag cement conforming to BS-146	151	Cft.	185.00	27,935.00
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	255.00	132,600.00
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	250	Cft	320.00	80,000.00
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	140,000.00	79,800.00
01- 03 D108	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.	6	No.	30000.00	180,000.00
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	3000.00	54,000.00
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	50.00	7,500.00
Sub-Total					602,835
Total					1,165,364
Less Cost of Additional Two Options					(1,052,030)

BILL OF QUANTITIES

(Holding Tank & Soakage Trench 80')

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
Sub-Total-B C/o to Summary for External Development work Pak Rs.					9,535,418

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
07-04E1	<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>				
	<p>i) MDBLP-GF</p> <p>ii) DBLP-GF1</p> <p>iii) DBLP-GF2</p> <p>vi) DBLP-FF1</p> <p>v) DBLP-FF2</p> <p>vi) MCC-WP</p> <p>vii) DB-EXT (IP 54)</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>	<p>No.</p> <p>No.</p> <p>No.</p> <p>No.</p> <p>No.</p> <p>No.</p> <p>No.</p>	<p>240,000</p> <p>206,000</p> <p>165,000</p> <p>132,000</p> <p>222,000</p> <p>290,000</p> <p>130,000</p>	<p>240,000.00</p> <p>206,000.00</p> <p>165,000.00</p> <p>132,000.00</p> <p>222,000.00</p> <p>290,000.00</p> <p>130,000.00</p>
07-04E2	<p>PART-2: <u>CABLES AND CONDUITS</u> <u>L.V. Power Cables</u></p> <p>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.</p>				
	<p>a) 4 Core Cu/PVC/PVC CABLE</p> <p>i. 4 core 10mm.sq.</p> <p>ii. 4 core 16mm.sq.</p>	<p>415</p> <p>385</p>	<p>R.ft</p> <p>R.ft</p>	<p>580</p> <p>745</p>	<p>240,700.00</p> <p>286,825.00</p>

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
iii.	4 core 95mm.sq.	75	R.ft	3,200	240,000.00
b)	Circuit Protective Conductor (CPC)				-
i.	1 core 10mm sq. PVC insulated colour Green/Yellow.	415	R.ft	135	56,025.00
ii.	1 core 16mm sq. PVC insulated colour Green/Yellow.	385	R.ft	180	69,300.00
iii.	1 core 50mm sq. PVC insulated colour Green/Yellow.	75	R.ft	470	35,250.00
07-04E3	<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				-
a)	32mm dia. PVC conduit to pull electric cable.	390	R.ft	140	54,600.00
b)	38mm dia. PVC conduit to pull electric cable.	365	R.ft	180	65,700.00
c)	50mm dia. PVC conduit to pull electric cable.	50	R.ft	280	14,000.00
d)	75mm dia. PVC conduit to pull electric cable.	150	R.ft	550	82,500.00
	PART-3 <u>Wiring & Conduiting</u>				
07-04E4	<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.	6,150	196,800.00
b)	Same as item (a) but wiring from switch to switch	85	Nos.	1,430	121,550.00
c)	Wiring from switch/dimmer to first light/fan point 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 and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	224	Nos.	1,280	286,720.00
					-

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
d)	Wiring and conduiting of light point to point 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.	136	Nos.	1,085	147,560.00 -
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.	26	Nos.	7,900	205,400.00
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.	25	Nos.	530	13,250.00 -
g)	Same as (f) 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.	41	Nos.	1,930	79,130.00 -
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.	4,250	17,000.00
PART-4: <u>LIGHT FIXTURES, FANS, SWITCHES, OUTLETS & ACCESSORIES</u>					
07-04E5	<u>LIGHT FIXTURES</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
a.	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.				
b.	Fluorescent Light TMS 015 with 1x36Watt TL-D lamp color 84 w electronic ballast.	97	Nos.	2,430	235,710.00
c.	Fluorescent Light TMS 015 with 1x18Watt TL-D lamp color 84 w electronic ballast.	7	Nos.	1,490	10,430.00
d.	Fluorescent Light TCS398 with 2x36Watt TL-D lamp color 84 with M2 Louver & electronic ballast.	31	Nos.	8,800	272,800.00
e.	Fluorescent Light TCS398 2x36Watt TL-D lamp color 84 with M6 Louver & electronic ballast.	126	Nos.	7,890	994,140.00
f.	Fluorescent Light TBS 318 with 1x36Watt TL-D lamp color 84 w electronic ballast.	16	Nos.	8,880	142,080.00
07-04E6	<u>Ceiling Fans</u>				
a.	Supply, installation and commissioning of ceiling fans of following sizes steel body, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respects, fittings shall be duly approved by Engineer.				
b.					
c.	56" dia.	17	Nos.	7,150	121,550.00
	48" dia.	63	Nos.	6,300	396,900.00
	36" dia.	1	Nos.	5,700	5,700.00
07-04E7	<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	18	Nos.	590	10,620.00
ii)	Two gang - 1 Way Switch	38	Nos.	740	28,120.00
iii)	Three gang - 1 Way Switch	15	Nos.	910	13,650.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
iv)	Four gang - 1 Way Switch	1	Nos.	1,400	1,400.00
v)	One gang - Fan Dimmer	9	Nos.	990	8,910.00
vi)	Two gang - Fan Dimmer	36	Nos.	2,210	79,560.00
07-04E8	<u>SOCKETS</u>				
	i) 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.	30	Nos.	980	29,400.00
	ii) 13A, 3-pin Simplex Switch Socket outlet.	40	Nos.	970	38,800.00
	iii) 13A, 3-pin Duplex Switch Socket outlet.	17	Nos.	1,490	25,330.00
	iv) 15A, 3-pin simplex Switch Socket outlet.	7	Nos.	1,170	8,190.00
	v) Floor Box - Type B	24	Nos.	2,210	53,040.00
07-04E9	LOAD BREAK SWITCHES				
	i) 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.				
	30 Amp SPN LBS	1	Nos.	1,750	1,750.00
	<u>PART-5: EARTHING SYSTEM</u>				
07-04E10	<u>Earth Electrode</u>				
	Supply at site and installation of Stainless Steel copper claded earth electrodes, 10 feet long and 20mm dia including cost of all necessary materials, complete in all respects, as per specification.	0	Nos.		
07-04E11	<u>Copper Conductor</u>				
	a) Supply, installation and connecting up of 1 x 16sqmm 1-Core Cu/PVC cable, in 38mm dia uPVC Class-d conduit directly buried in ground, 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	390	3,900.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
	b) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia uPVC Class-d 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.	40	R.ft	390	15,600.00
	c) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia uPVC Class-d 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.	100	R.ft	355	35,500.00
	d) Supply, installation and connections of bare copper conductor 2x50 mm sq. in 38mm dia uPVC Class-d conduit, from building rebars 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.	250	R.ft	615.00	153,750.00
07-04E12	e) Supply, installation and connections of copper conductor 1x50 mm sq. 1-Core Cu/PVC cable, in 38mm dia uPVC Class-d 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. <u>Earth Connecting Points (ECP)</u>	15	R.ft	615	9,225.00
	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.	90,000	180,000.00
07-04E13	<u>ECP (in inspection Chamber)</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
07-04E14	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.	8,000	16,000.00
	<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.	5,500	11,000.00
07-04E15	<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	15,000	15,000.00
	<u>PART-6: TELEPHONE / VOICE SYSTEM</u>				
07-04E16	<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.	275	R.ft	36	9,900.00
	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.	2150	R.ft	95	204,250.00
	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.	180	R.ft	95	17,100.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
	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	35	Nos.	1,650	57,750.00
	i) Duplex Outlet RJ 45	4	Nos.	2,800	11,200.00
07-04E17	<u>Utility 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.	39,000	39,000.00
07-04E18	<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 ii) 8 Port Patch Panel	1 2	Nos. Nos.	29,000 16,000	29,000.00 32,000.00
07-04E19	<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 38 38	Nos. Nos. Nos.	300 1,450 2,100	1,500.00 55,100.00 79,800.00
07-04E20	<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.	37,680	37,680.00
07-04E21	<u>Telephone Sets</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
	Supply and connection of following type of Telephone sets.				
	a) Telephone with CLI Module	2	Nos.	11,000	22,000.00
	b) Telephone without CLI Module	3	Nos.	6,000	18,000.00
	<u>PART -7 Fire Alarm System</u>				
07-04E22	<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.	16,850	134,800.00
	ii) Heat detector with buzzer	5	Nos.	10,980	54,900.00
	<u>PART -8 LIGHTNING PROTECTION SYSTEM</u>				
07-04E23	<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.	1800	R.ft.	475	855,000.00
07-04E24	<u>Down Conductor</u>				
	a) Supply at site, installation, connections of 2x50mm.sq. stranded bare copper conductor as down conductors to be installed within the columns from air terminal on roof to building rebars, all other required accessories, complete in all respects.	560	R.ft.	570	319,200.00
07-04E25	<u>Air terminal</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
	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.	45,000	270,000.00
07-04E26	<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.	3,500	28,000.00
	PART -9 <u>Public Address System</u>				
07-04E27	<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.	17,500	35,000.00
07-04E28	<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.	13,250	53,000.00
07-04E29	<u>Microphone</u> Cordless Microphone.	2	Nos.	12,000	24,000.00
07-04E30	<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.	250	R.ft.	270	67,500.00
	PART -10 EXTERNAL AREA LIGHTING				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
07-04E31	<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.	25	Nos.	7,300	182,500.00
	b) Britlite or equivalent Bollard Light Fixture in die cast aluminum body powder coated suitable for walkways with 1x18WATT PLC LAMP IP-67.	Rate only	Nos.	17,550	
	c) Philips type or equivalent 50watt SON-T lamp mounted on decorative proposed pole.	0	Nos.		
	d) Philips type or equivalent MMF383 flood light with 250watt SON-T lamp mounted on proposed pole.	0	Nos.		
07-04E32	<u>Light Poles</u>				
	a) Supply and installation and Testing & Commissioning of 2.5 meter high steel decorative pole with already taken 50Watt SON-T Lamp ,complete with deep drawn base plate, pole foundation, excavation and backfilling, self locking inspection door with special key only, black anchor bolts, plastic pipes, final paint base, coaxial cable connectors, internal wiring with 3 core 2.5sqmm , and an automatic transfer switch (10 Amp-1set). galvanized nuts, galvanized washers, brackets, clamps, earth lug inside inspection door compartment and pole inner compartment suitable to hold cable connection box including all accessories etc., as per standards, specification, drawings, complete in all respects and to the approval of the Owner.	0	Nos.		-

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
b)	Supply and installation and Testing & Commissioning of 6 meter high hot-dipped galvanized steel pole with already taken 2 no. of 250watt lamps ,complete with deep drawn base plate, pole foundation, excavation and backfilling, self locking inspection door with special key only, black anchor bolts, plastic pipes, final paint base, coaxial cable connectors, internal wiring with 3 core 2.5sqmm , and an automatic transfer switch (10 Amp-2set). galvanized nuts, galvanized washers, brackets, clamps, earth lug inside inspection door compartment and pole inner compartment suitable to hold cable connection box including all accessories etc., as per standards, specification, drawings, complete in all respects and to the approval of the Owner.	0	Nos.		
07-04E33	<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.	8,500	42,500.00
b)	Same as item (h) but wiring from light point to light point.	18	Nos.	6,300	113,400.00
c)	Circuit Wiring and conduiting from DB to first light point with 1 x 6 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.	0	Nos.		
d)	Same as item (h) but wiring from light point to lig	0	Nos.		
07-04E34	<u>Earthing system</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
	Supply, installation, testing and commissioning of Earthing System for poles including earth electrode set, with 20mm dia 7feet long driven Stainless Steel copper claded earth rod, connected with PVC insulated copper earth conductor 1 x 16 sq.mm in 25 mm dia PVC pipe, upto earth connecting point including concrete inspection chamber, medium-duty C.I. cover, etc.,complete in all respects and to the approval of the Engineer.	0	Nos.		
	PART -11 MISCELLANEOUS WORKS				
07-04E35	<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.	100	Rft.	110	11,000.00
	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.	1	Nos.	7,100	7,100.00
07-04E36	<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.	19,000	38,000.00
07-04E37	<u>Utility / PTCL Connection</u>				
	a) Supply and co-ordination for the utility connection from WAPDA / HESCO 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	50,000.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
	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	25,000	25,000.00
	PART -12 SOLAR ROOM ELECTRIFICATION WORKS				
07-04E38	<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, complete in all respects				
	a. Fluorescent Light TCW098 with 1x36Watt TL-D lamp color 84 & electronic ballast (IP65).	2	Nos.	9,100	18,200.00
	b. Fluorescent Light TCS398 with 2x36Watt TL-D lamp color 84 with M2 Louver & electronic ballast.	2	Nos.	8,500	17,000.00
07-04E39	<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.	1,110	1,110.00
07-04E40	<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.	1,630	1,630.00
07-04E41	<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.				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
i)	Heat detector with buzzer	1	Nos.	13,500	13,500.00
07-04E42	<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.	6,100	6,100.00
b)	Same as item (a) but wiring from switch to power outlet.	1	Nos.	1,450	1,450.00
c)	Wiring from switch to first light 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 and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	4	Nos.	1,290	5,160.00
C/o to Summary for Electrical work Pak Rs					9,504,695

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
	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.				
07-05P1	European style coupled water closet with seat cover, flush tank C.P. (chrome plated) connector, thimble, etc. a. Type - EWC	8	No.	15,500	124,000.00
07-05P2	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.	12,300	270,600.00
07-05P3	Urinal wall hung type with automatic 1/2" size flush valve, CP trap, waste, connector and fixing accessories.		No.		
07-05P4	Wash basin (WB) including C.P P- trap/Bottle Trap, stop cocks, etc. i. Type - WB - V(Vanity)	21	No.	13,000	273,000.00
07-05P5	Wash basin hot and cold water mixer, waste, etc for following. i. Type - WB - V(Vanity)		No.		
07-05P6	Toilet Hand Shower with flexible chain & telephone type shower Including tee stop cock etc. complete in all respect. Type - TS	30	No.	3,900	117,000.00
07-05P7	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.	6	No.	8,150	48,900.00
07-05P8	Sink hot and cold water mixer, etc, for following. a. For SK-1		No.		-
07-05P9	S.S Grease Trap 7.5 Kg. capacity, inlet/outlet 2" Dia connections.		No.		
07-05P10	Toilet accessories complete set, (Imported make)				
	i. Soap dispenser	8	No.	840	6,720.00
	ii. Toilet paper holder	30	No.	955	28,650.00
	iii. Coat Hook	8	No.	115	920.00
	iv. Hand Dryer	8	No.	2,450	19,600.00
	v. Paper Rack	8	No.	1,650	13,200.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
	<u>Plumbing Water Supply</u>				
07-05P11	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)	120	Rft.	120	14,400.00
	ii) ¾" internal dia (32 mm outer dia)	360	Rft.	160	57,600.00
	iii) 1" internal dia (40 mm outer dia)	645	Rft.	235	151,575.00
	iv) 1¼" internal dia (50 mm outer dia)	140	Rft.	375	52,500.00
	v) 1½" internal dia (63 mm outer dia)	180	Rft.	620	111,600.00
	vi) 2" internal dia (75 mm outer dia)		Rft.		
	vii) 2½" internal dia (90 mm outer dia)		Rft.		
07-05P12	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)	8	No	1,755	14,040.00
	ii) 1" internal dia (40 mm outer dia)	2	No	5,750	11,500.00
	iii) 1¼" internal dia (50 mm outer dia)	2	No	8,540	17,080.00
	iv) 1½" internal dia (63 mm outer dia)	1	No	12,800	12,800.00
	v) 2" internal dia (75 mm outer dia)		No		
	vi) 2½" internal dia (90 mm outer dia)		No		
	<u>Plumbing Sewerage</u>				

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
07-05P13	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	255	Rft.	130	33,150.00
	3" dia				
	4" dia	875	Rft.	225	196,875.00
	6" dia				
07-05P14	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.	40	No.	1,690	67,600.00
07-05P15	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.		
07-05P16	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.	5	No.	9,600	48,000.00
07-05P17	Providing and fixing Clean Out complete in all respects	18	No.	1,880	33,840.00
	<u>Water Cooler</u>				
07-05P18	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.	145,000	580,000.00
	EXTERNAL DEVELOPMENT				
	<u>Septic Tank</u>				
07-05P19	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)	10	Rft.	590	5,900.00
	2" dia pipe sleeves 9" long	5	No.s	590	2,950.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
07-05P20	<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.	170	850.00
07-05P21	<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 ii) 2" dia, pipe sleeve 9" long</p>	5 5 2	Rft. Rft. No.s	170 435 650	850.00 2,175.00 1,300.00
07-05P22	<p>Supply and fitting of M.S manhole cover (size 2'x2') with frame, painted black on both sides, etc. complete in all respects, as per drawing and directed by the Engineer.</p> <p><u>Kanchan Arsenic Filter</u> Filter Material.</p>	2	No.	24,500	49,000.00
07-05P23	<p>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	90	1,890.00
07-05P24	<p>Providing & laying coarse sand, including screening and washing as per drawing or directed by the Engineer.</p>	42	Cft	30	1,260.00
07-05P25	<p>Providing & laying fine sand, including screening and washing as per drawing or directed by the Engineer.</p>	42	Sq.ft.	32	1,344.00
07-05P26	<p>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.</p>	37	Sq.ft.	335	12,395.00
07-05P27	<p>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.</p>	9	Cft.	80	720.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
07-05P28	Providing & laying iron nails with out coating (1" thick layer) as per drawing or directed by the Engineer.	125	Kg.	145	18,125.00
07-05P29	Providing & fixing cover over Kanchan Filter of PVC sheet 1/2" thick, as per drawing or directed by the Engineer.	32	Sq.ft.	240	7,680.00
07-05P30	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.	170	3,910.00
07-05P31	Providing and fixing Plastic Shower Heads	9	Nos	240	2,160.00
	<u>Tube Well / Penumatic Pump</u>				
07-05P32	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.	335	33,500.00
07-05P33	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.	355	17,750.00
07-05P34	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.	100	100.00
07-05P35	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)	104	Rft.	53	5,512.00
	ii) 1-1/4" i/d(30mm)	72	Rft.	70	5,040.00
	iii) 2" i/d(50mm)	38	Rft.	135	5,130.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
07-05P36	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.	125	5,000.00
07-05P37	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)	72	Rft.	415	29,880.00
07-05P38	Testing and developing of bore hole, complete in all respect and as directed by the Engineer.	3	Per Hr.	1,800	5,400.00
07-05P39	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.	160	7,200.00
07-05P40	Providing/fixing Injector valve as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	Each.	240	240.00
07-05P41	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.	75	75.00
07-05P42	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.	50,000	50,000.00
07-05P43	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) ii) ¾" internal dia (32 mm outer dia)	103	Rft.	170	17,510.00

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
	iii) 1" internal dia (40 mm outer dia)		Rft.		
	iv) 1¼" internal dia (50 mm outer dia)	154	Rft.	390	60,060.00
	v) 1½" internal dia (63 mm outer dia)	27	Rft.	630	17,010.00
	vi) 2" internal dia (75 mm outer dia)		Rft.		
	vii) 2½" internal dia (90 mm outer dia)		Rft.		
07-05P44	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)	1	No	1,810	1,810.00
	ii) 1" internal dia (40 mm outer dia)		No		
	iii) 1¼" internal dia (50 mm outer dia)	1	No	8,710	8,710.00
	iv) 1½" internal dia (63 mm outer dia)	1	No	12,150	12,150.00
	v) 2" internal dia (75 mm outer dia)		No		
	vi) 2½" internal dia (90 mm outer dia)		No		
	<u>Plumbing Sewerage</u>				
07-05P45	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.	230	7,360.00
	6" dia (Sleeves at P. Beams already provided)	562	Rft.	580	325,960.00
07-05P46	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.		No.		

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
07-05P47	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.		
07-05P48	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.		No.		
07-05P49	Providing and fixing Clean Out complete in all respects		No.		
	<u>Water Supply Pump For GST</u>				
01-05P50	Supply at site, installation, testing and commissioning of water supply reciprocating pump with 2HP motor as per specification complete in all respect.	2	No	26,000	52,000.00
					3,085,056

SINDH BASIC EDUCATION PROGRAM
CONSTRUCTION OF NEW SCHOOLS AND UPGRADATION OF EXISTING SCHOOLS
PACKAGE- 01A: DISTRICT KHAIKUR MIRS
GBHS BOZDAR WADA (P01A-KHR08)
SUMMARY OF TENDERED COST (BALANCE WORKS)

CODE	DESCRIPTION	M/s Kaybee - BS (JV)
	A. GENERAL ITEMS	449,610
	B. CIVIL WORKS	54,827,025
	C. EXTERNAL WORKS	6,754,434
	D. ELECTRICAL WORKS	9,097,925
	E. PLUMBING WORKS	3,150,778
	Sub-Total	74,279,772

BILL OF QUANTITIES

Item	Item Description	QTY	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
<u>Temporary Facilities (Optional Items)</u>					
01- 01 G 1	Ref.Spec. No. G05 Providing and maintaining a rental building of area 1,000 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	not required	
01- 01 G 2	OR Providing and maintaining a tent school of area 1,000 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	not required	
01- 01 G 3	OR Providing and maintaining porta cabins for school of area 1,000 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	not required	
Sub- Total (Rs.)					
<u>Site Clearing and Grubbing</u>					
01- 01 G 4	Ref.Spec. No. C01 Clearing, removing of debris from site and Grubbing complete in all respect as directed by the Engineer.	63,400	Sft	3	190,200
<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.	0	Sft	Already Done	
01- 01 G 6	Dismantling, removing of existing sewerage lines as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	0	Rft.	not required	
01- 01 G 7	Dismantling, removing of existing water supply lines as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	0	Rft.	not required	
01- 01 G 8	Dismantling, removing of existing electrical supply line as directed by the Engineer.	0	Rft.	not required	
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.	245	Rft	18.00	4,410

BILL OF QUANTITIES

Item	Item Description	QTY	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 01 G 10	<u>POWER SUPPLY & TELECOMMUNICATION</u> 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	150000.00	150,000
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	25000.00	25,000
01- 01 G 12	<u>SIGN BOARD / PLAQUE</u> Ref.Spec. No. SP 100 Maintanance of (already fixed) Project sign board for construction duration as directed by the Engineer.	1	Job	10000.00	10,000
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	40000.00	40,000
01- 01 G 14	<u>WATER TESTING</u> Ref.Spec. No. Sampling and testing of Water from bore of well (TDS) including submission of report as per specification.	1	Each	30000.00	30,000
Total General Items (Rs.)					449,610.00
C/o to Summary General Items Pak Rs.					449,610.00

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	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	0	Cft.		
	b) More than 5 ft upto 10 ft.	0	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)	0	Cft.		
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	12730	Cft.	18.00	229,140
	c) Compaction of top layer as per specifications and as directed by the Engineer.	15,300	Sft.	6.00	91,800
	d) Disposal of unsuitable material lying at site to approved location as directed by the Engineer.	40,000	Cft.	7.00	280,000
	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	0	L.S.		
	b) Dewatering	0	Day		
	TERMITE CONTROL TREATMENT				
	Ref.Spec. No. C03				
01- 02 C 4	Termite control treatment to specified surfaces following structures complete in all respect as per drawings and specification: (Under sub floor only)	15300	Sq.ft.	25.00	382,500
	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.	0	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.	140000.00	140,000
	PLAIN AND REINFORCED CONCRETE AND FORMWORKS				
	Ref.Spec. No. C04				

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 02 C 7	Blinding concrete 1250 psi using Type-V cement.	0	Cft.		
01- 02 C 8	Reinforced cement concrete using Type-V cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Raft foundation slab b) Columns upto plinth c) Plinth beams	0 0 580	Cft. Cft. Cft.	385	223,300
<u>BRICK MASONRY</u>					
Ref.Spec. No. C05					
07- 02 C 9	Solid brick masonry under the plinth beam of one and half brick thickness, set in 1:4 cement 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.	0	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.	10880	Sq.ft.	40.00	435,200
<u>P.C.C UNDER FLOORING</u>					
Ref.Spec. No. C07					
01- 02 C 11	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	10880	Sq.ft.	85.00	924,800
<u>PLINTH PROTECTION</u>					
Ref.Spec. No. C04 & C07					
01- 02 C 12	Blinding concrete 1250 psi using Type-V cement.	550	Cft.	185.00	101,750
<u>PROTECTION WORKS</u>					
Ref.Spec. No. C16					
01- 02 C 13	Vapor barrier sheet, under the floor as per drawings and specifications.	10880	Sq.ft.	13.00	141,440
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.	0	Sq.ft.		
<u>SUPER-STRUCTURE WORKS</u>					
<u>Ground Floor (From Plinth level to 1st Slab)</u>					
<u>REINFORCEMENT</u>					
Ref.Spec. No. C04					

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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.	140000.00	4,480,000
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.	1	ton.	140000.00	140,000
<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	2200 2550 5990 355 125 60	Cft. Cft. Cft. Cft. Cft. Cft.	425.00 425.00 425.00 425.00 425.00 425.00	935,000 1,083,750 2,545,750 150,875 53,125 25,500
<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.	30	ton.	140000.00	4,200,000
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.	1	ton.	140000.00	140,000
<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 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	2325 3025 5990 180 150 26	Cft. Cft. Cft. Cft. Cft. Cft.	425.00 425.00 425.00 425.00 425.00 425.00	988,125 1,285,625 2,545,750 76,500 63,750 11,050
<u>Second Floor / Roof (From 2nd slab to 3rd slab & tower)</u>					
<u>REINFORCEMENT</u>					
Ref.Spec. No. C04					

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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.	140,000	560,000
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.	1	ton.	140000.00	140,000
<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	95	Cft.	425	40,375
	b) Beams & lintels	145	Cft.	425	61,625
	c) Slab & projections	255	Cft.	425	108,375
	d) Parapet Wall/ Purdi	465	Cft.	425	197,625
	e) Precast coping for parapet wall at roof and erecting/ fixing including shuttering and all accessories and/or embedded parts.	550	Rft.	425	233,750
	g) Over head water tank, column, walls & slab	400	Cft.	425	170,000
	f) Others Misc Str	20	Cft.	425	8,500
<u>FINISHING WORKS</u>					
<u>For Ground floor</u>					
<u>BRICK MASONRY</u>					
Ref.Spec. No. C05					
01-02 C 24	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	1500	Cft.	265	397,500
	b) 9" thick	6800	Cft.	265	1,802,000
	c) 13-1/2" thick	30	Cft.	265	7,950
<u>DOORS FRAMES</u>					
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 patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	1120	R.ft.	290	324,800
<u>CEMENT PLASTER</u>					
Ref.Spec. No. C06					

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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.	48.00	18,000
01-02 C 27	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.	10900	Sq.ft.	40.00	436,000
01-02 C 28	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.	21000	Sq.ft.	48.00	1,008,000
<u>ALUMINIUM WORKS</u>					
Ref.Spec. No. C11					
01-02 C 29	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.	1735	Sq.ft.	1000.00	1,735,000
01-02 C 30	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.	950.00	110,200
<u>STRUCTURAL STEEL</u>					
Ref. Sec.No. C13					
01-02 C 31	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.	2185	Kg	210.00	458,850
01-02 C 32	Providing and fixing railing for stairs/ramps as per drawing and specifications complete in all respect.				
	a) MS railing stairs	55	Rft	500.00	27,500
	b) M.S railing at entrance	50	Rft	500.00	25,000

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01-02 C 33	Providing and fixing MS pipe railing for courtyard with paintings, as per drawing and specifications complete in all respect and approved by the Engineer.	85	Rft	1600.00	136,000
01-02 C 34	Providing and fixing MS folding gate (Emergency Exit) with paintings, complete in all respects as per drawing and specifications.	2	No	65,000	130,000
<u>FLOOR AND WALL FINISHES</u>					
Ref.Spec. No. C07					
01-02 C 35	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.	9600	Sq.ft.	180	1,728,000
01-02 C 36	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.	150	Sq.ft.	180	27,000
01-02 C 37	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.	600	Sq.ft.	185	111,000
01-02 C 38	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.	900	Sq.ft.	215	193,500
01-02 C 39	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.	2100	Sq.ft.	225	472,500
<u>MARBLE WORKS</u>					
Ref.Spec. No. C07 & C08					
01-02 C 40	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)	100	Sq.ft.	300	30,000
	b) Entrance Steps Risers (1/2" thick)	50	Sq.ft.	180	9,000

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01-02 C 41	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.	400	Sq.ft.	300	120,000
01-02 C 42	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.	100	Sq.ft.	180	18,000
01-02 C 43	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.	60	Sq.ft.	180	10,800
01-02 C 44	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.	130	Sq.ft.	280	36,400
<u>PAINTING</u>					
Ref.Spec. No. C10					
01-02 C 45	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.	10900	Sq.ft.	25	272,500
01-02 C 46	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.	21000	Sq.ft.	35	735,000
01-02 C 47	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.	32	12,000
<u>WOODEN DOORS</u>					
Ref.Spec. No. C09					

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01-02 C 48	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.	900	Sq.ft.	950	855,000
01-02 C 49	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.	190	Sq.ft.	415	78,850
	<u>FALSE CEILING</u> Ref.Spec. No.				
01-02 C 50	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.	900	Sq.ft.	105	94,500
	<u>Pre cast C.C Patren jali</u> Ref.Spec. No.				
01-02 C 51	C.C Patren jali as per approved designed and specification	1000	Sq.ft.	110	110,000
	<u>BRICK FACING</u> Ref.Spec. No. C05				
01-02 C 52	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.	9800	Sq.ft.	200	1,960,000
	<u>FINISHING WORKS</u>				
	<u>For First floor</u>				
	<u>BRICK MASONRY</u> Ref.Spec. No. C05				
01-02 C 53	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	800	Cft.	265	212,000
	b) 9" thick	6800	Cft.	265	1,802,000
	c) 13-1/2" thick	20	Cft.	265	5,300
	<u>DOORS FRAMES</u>				

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01-02 C 54	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.	960	R.ft.	280	268,800
<u>CEMENT PLASTER</u>					
01-02 C 55	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.	48	8,400
01-02 C 56	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.	11600	Sq.ft.	40	464,000
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.	22000	Sq.ft.	48	1,056,000
<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.	1885	Sq.ft.	1,000	1,885,000
<u>STRUCTURAL STEEL</u>					
01-02 C 59	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.	2375	Kg	210	498,750
01-02 C 60	Providing and fixing MS stair railing as per drawing and specifications complete in all respect.	30	Rft	500	15,000

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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.	30	Rft	1,600	48,000
	<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.	10600	Sq.ft.	180	1,908,000
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.	610	Sq.ft.	185	112,850
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.	605	Sq.ft.	215	130,075
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.	2000	Sq.ft.	225	450,000
	<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.	200	Sq.ft.	300	60,000
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.	180	9,000
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.	180	9,000

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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.	35	Sq.ft.	180	6,300
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.	95	Sq.ft.	280	26,600
<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.	11600	Sq.ft.	25	290,000
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.	22000	Sq.ft.	35	770,000
<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.	725	Sq.ft.	950	688,750
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.	145	Sq.ft.	415	60,175
<u>FALSE CEILING</u>					
Ref.Spec. No.					
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.	605	Sq.ft.	105	63,525

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01-02 C 76	<p><u>Pre cast C.C Patren jali and Railing</u> Ref.Spec. No. C.C Patren jali as per approved designed and specification</p>	1000	Sq.ft.	110	110,000
01-02 C 77	<p><u>BRICK FACING</u> 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>	7000	Sq.ft.	200	1,400,000
01-02 C 78	<p><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.</p>	12500	Sq.ft.	350	4,375,000
01-02 C 79	<p><u>FINISHING WORKS</u> <u>For Roof floor / Secound floor</u> <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</p> <p>b) 9" thick</p> <p>c)13-1/2" thick</p>	30 490 20	Cft. Cft. Cft.	265 265 265	7,950 129,850 5,300
01-02 C 80	<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>	50	R.ft.	280	14,000
	<p><u>CEMENT PLASTER</u> Ref.Spec. No. C 06</p>				

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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.	1920	Sq.ft.	48	92,160
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.	200	Sq.ft.	48	9,600
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.	850	Sq.ft.	40	34,000
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.	438	Sq.ft.	40	17,520
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 compound Aquafin 1C or approved equivalent.	438	Sq.ft.	115	50,370
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.	25,000	50,000
<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.	200	Sq.ft.	180.00	36,000
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.	20	Sq.ft.	185.00	3,700
<u>MARBLE WORKS</u>					
Ref.Spec. No. C 07, 08					

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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.	300.00	1,800
	<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.	450	Sq.ft.	25.00	11,250
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.	850	Sq.ft.	35.00	29,750
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.	1600	Sq.ft.	32.00	51,200
	<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.	50	Sq.ft.	950.00	47,500
	<u>Pre cast C.C Patren jali and Railing</u> Ref.Spec. No.				
01-02 C 94	C.C Patren jali as per approved designed and specification	50	Sq.ft.	110.00	5,500
01-02 C 95	Precast water spout as per approved designed and specification	22	No.	510.00	11,220
	<u>BRICK FACING</u> Ref.Spec. No. C05				

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01-02 C 96	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.	4000	Sq.ft.	200.00	800,000
Total C/o to Summary for CIVIL WORKS Pak Rs.					54,827,025

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	<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 upto following depths including disposal of surplus / rejected excavated materials to designated places.				
	a) 0 ft to 5 ft	1,000	Cft.	8	8,000.00
01- 03 D 2	Fill and backfill with selected materials obtained from excavation including watering and compaction to every layer as per specification.	200	Cft.	5	1,000.00
01- 03 D3	Fill and backfill with selected materials from borrow area including watering and compaction to every layer as per specification.	900	Cft.	14	12,600.00
	<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% runnung/ working position	1	L.S.	50,000	50,000.00
	b) Dewatering	15	Day	5,000	75,000.00
	<u>TERMITE CONTROL TREATMENT</u>				
	Ref.Spec. No. C03				
01- 03 D5	Termite control treatment to specified surfaces following structures complete in all respect as per drawings and specification:	250	Sq.ft.	25	6,250.00
	<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.	1.3	ton.	140,000	182,000.00
	<u>PLAIN AND REINFORCED CONCRETE</u>				
	Ref.Spec. No. C04				
01- 03 D7	Blinding concrete 1250 psi using Type-V cement.	125	Cft.	185	23,125.00
01- 03 D8	Reinforced cement concrete using Type-V cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification.				
	a) Footings	85	Cft.	385	32,725.00
	b) Columns upto plinth	90	Cft.	385	34,650.00

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D9	c) Plinth beams Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification;	170	Cft.	385	65,450.00
	a) Columns	195	Cft.	385	75,075.00
	<u>BRICK MASONRY</u> Ref.Spec. No. C05				
01- 03 D10	Solid brick masonry wall 9" thick with Type-V cement set in 1:4 cement sand mortar, straight or curve below plinth beam 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	170	Cft.	255	43,350.00
01- 03 D11	Solid brick masonry wall with pointing on external face above plinth beam 4-1/2" 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.				
		1,125	Cft.	265	298,125.00
	<u>CEMENT PLASTER</u> Ref.Spec. No. C06				
01- 03 D12	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces (Columns, wall, beams and projections etc.) including making grooves as per design and elevation complete in all respect as shown on the drawings.	1,750	Sq.ft.	48	84,000.00
	<u>PROTECTION WORKS</u> Ref.Spec. No. C16				
01- 03 D13	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.	700	Sq.ft.	30	21,000.00
	<u>COPING</u> Ref.Spec. No. C04				
01- 03 D14	Providing and fixing 3" thick coping including plaster using OP cement for boundary wall complete as shown on the drawings.	250	Rft.	200	50,000.00
	<u>STRUCTURAL STEEL</u> Ref. Sec.No. C13				

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D15	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	90,000	90,000.00
01- 03 D16	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	25,000	25,000.00
	<u>LANDSCAPING</u>				
01- 03 D 17	Ref. Sec.No. Fill and backfill with selected materials including watering and compaction to every layer as per specification.	7,450	Cft.	5	37,250.00
01- 03 D18	Area Fill with selected materials including watering and compaction to every layer as per specification.	52,200	Cft.	14	730,800.00
01- 03 D19	Relocation and replanting of removed trees as per specifications and and as directed by the Engineer.	3	No.	10,000	30,000.00
01- 03 D20	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.	7,435	Sq.ft.	40	297,400.00
01- 03 D21	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.	7,435	Cft.	14	104,090.00
01- 03 D22	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)	12	No.	200	2,400.00
	b) Babul tree (3 to 4 feet)	12	No.	200	2,400.00
	c) Golmohar (3 to 4 feet)	12	No.	200	2,400.00
	d) Champa (2 to 3 feet)	40	No.	200	8,000.00

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	e) Crape Jasmine (2 to 3 feet)	50	No.	200	10,000.00
	f) Cement Concrete planters.	30	Rft	400	12,000.00
<u>Foothpath Walkway (Precast Paving Blocks / Tiles)</u>					
	Ref. Sec.No.				
01- 03 D23	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.	5,955	Sq.ft.	25	148,875.00
01- 03 D24	Precast cement concrete paving blocks Envicrete or approved equivalent of size 8" x 4" x 1.5" laid in approved pattern including 2" thick sand cushion, levelling and dressing complete in all respect and as directed by the Engineer.	5,955	Sq.ft.	170	1,012,350.00
01- 03 D25	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.	800	Rft	350	280,000.00
<u>EXTERNAL SEWER & MANHOLES</u>					
01- 03 D26	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	7	Nos.	25,000	175,000.00
	ii. 36" x 36" SIZE	6	Nos.	30,000	180,000.00
01- 03 D27	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.	13	No.	30,000	390,000.00
<u>Septic Tank</u>					
01- 03 D28	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	830	Cft.	8	6,640.00
	b) More than 5 ft upto 10 ft.	430	Cft.	10	4,300.00
01- 03 D29	Blinding concrete 1250 psi using Type-V cement.	55	Cft.	180	9,900.00

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D30	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing compound Aquafin 1C or approved equivalent.	630	Sq.ft.	115	72,450.00
01- 03 D31	Reinforced cement concrete using Type-V cement having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) Base Slab.	111	Cft.	385	42,735.00
	b) Walls including chamfer etc.	345	Cft.	385	132,825.00
	c) Top Slab	70	Cft.	385	26,950.00
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	140,000	210,000.00
01- 03 D33	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	3,600.00
01- 03 D34	3/4" 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	25,200.00
01- 03 D35	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.	48	20,640.00
01- 03 D36	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.	300	15,300.00
01- 03 D37	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.	30,000	60,000.00
01- 03 D38	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No.	3,000	48,000.00
	<u>Soakage Pit (Option-1)</u>				

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D39	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	890	Cft.	8	7,120.00
	b) More than 5 ft upto 10 ft.	890	Cft.	10	8,900.00
	c) More than 10 ft upto 17 ft.	980	Cft.	30	29,400.00
01- 03 D40	Blinding concrete 1250 psi using Type-V cement.	25	Cft.	185	4,625.00
01- 03 D41	Solid brick masonry wall of the following thicknesses set in 1:4 cement sand mortar.				
	a) 18" thick	640	Cft	245	156,800.00
	b) 13-1/2" thick	180	Cft	245	44,100.00
	b) 9" thick	90	Cft	245	22,050.00
01- 03 D42	Reinforced cement concrete using Type-V cement 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	500	45,000.00
01- 03 D43	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.25	Ton	130,000	32,500.00
01- 03 D44	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	30,000	30,000.00
01- 03 D45	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No	3,000	48,000.00
	<u>Ground Storage Tank</u>				
01- 03 D46	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	725	Cft.	8	5,800.00
	b) More than 5 ft upto 10 ft.	12	Cft.	10	120.00
01- 03 D47	Blinding concrete 1250 psi using Type-V cement.	48	Cft.	185	8,880.00

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D48	Reinforced cement concrete using Type-V cement 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.	385 385 385 600	38,500.00 98,175.00 23,100.00 6,000.00
01- 03 D49	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	1	Ton	140,000	140,000.00
01- 03 D50	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.	300	16,500.00
01- 03 D51	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) 9" thick	66	Cft.	245	16,170.00
01- 03 D52	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.	30,000	60,000.00
01- 03 D53	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer.	10	No.	3,000	30,000.00
01- 03 D54	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.	48	25,440.00
01- 03 D55	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.	40	4,640.00

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D56	3/4" 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.	675	Sq.ft.	40	27,000.00
01- 03 D57	2" thick, 3000 cement concrete floor smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	141	Sq.ft.	60	8,460.00
01- 03 D58	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.	100	Sq.ft.	30	3,000.00
01- 03 D59	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.	16	Sq.ft.	25	400.00
01- 03 D60	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.	60	Sq.ft.	35	2,100.00
01- 03 D61	MS Door including paint etc complete in all respect as shown in the drawings.	15	Sq.ft.	750	11,250.00
01- 03 D62	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing compound Aquafin 1C or approved equivalent.	585	Sq.ft.	115	67,275.00
	<u>Tube Well / Penumatic Pump</u>				
	<u>Construction works</u>				
01- 03 D63	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	85	Cft.	8	680.00

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 02 C 64	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.	5	100.00
		40	Cft.	14	560.00
01- 03 D65	Blinding concrete 1250 psi using Type-V cement.	50	Cft.	185	9,250.00
01- 03 D66	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	15	Cft.	370	5,550.00
01- 03 D67	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.05	Ton	140,000	7,000.00
01- 03 D68	Solid brick masonry wall with brick coping 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 specification. a) 18" thick b) 13-1/2" thick a) 9" thick	40 30 175	Sft Sft Sft	260 265 265	10,400.00 7,950.00 46,375.00
01- 03 D69	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.	48	13,680.00
01- 03 D70	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.	40	1,000.00
01- 03 D71	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.	40	6,000.00

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D72	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	1,000.00
01- 03 D73	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.	85	2,125.00
01- 03 D74	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.	60	1,500.00
01- 03 D75	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.	60	1,980.00
01- 03 D76	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.	32	9,120.00
01- 03 D77	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.	25	625.00
01- 03 D78	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.	35	5,250.00
01- 03 D79	Vapor barrier sheet, under foundations and floor as per drawings and specifications.	25	Sq.ft.	12	300.00
01- 03 D80	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.	30	7,500.00
	<u>Kanchan Arsenic filter</u>				

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D81	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.	8	600.00
01- 03 D82	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	Cft.	5	250.00
		100	Cft.	14	1,400.00
01- 03 D83	Blinding concrete 1250 psi using Type-V cement.	15	Cft.	185	2,775.00
01- 03 D84	Reinforced cement concrete using SR cement 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.	385 385 385 385	9,625.00 7,700.00 13,475.00 30,800.00
01- 03 D85	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.5	Ton	130,000	65,000.00
01- 03 D86	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	3,360.00
01- 03 D87	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.	85	7,140.00
01- 03 D88	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.	65	5,460.00
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.	48	7,296.00

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
01- 03 D90	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.	40	5,040.00
01- 03 D91	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing compound Aquafin 1C or approved equivalent.	126	Sq.ft.	115	14,490.00
01- 03 D92	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.	30	6,540.00
Sub- Total C/o to Summary for External Development work Pak Rs.					6,619,056.00

BILL OF QUANTITIES (BALANCE WORKS)
(Holding Tank & Soakage Trench 80')

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
	<u>EXTERNAL DEVELOPMENT</u>				
	<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.	8.00 14.00	6,040 7,560
01- 03 D93	Blinding concrete 1250 psi using slag cement conforming to BS-146	50	Cft.	185.00	9,250
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.	30.00	13,980
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.	385.00 385.00 385.00	41,195 128,975 34,265
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	140000.00	161,000
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.	40.00	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.	40.00	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.	48.00	22,368
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.	300.00	13,200

BILL OF QUANTITIES (BALANCE WORKS)
(Holding Tank & Soakage Trench 80')

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
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.	30000.00	60,000
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.	3000.00	48,000
	Sub-Total				563,873
01- 03 D103	Soakage Trench 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.	8.00	41,000
01- 03 D104	Blinding concrete 1250 psi using slag cement conforming to BS-146	151	Cft.	185.00	27,935
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	255.00	132,600
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	250	Cft	320.00	80,000
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	140000.00	79,800
01- 03 D108	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.	6	No.	30000.00	180,000
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	3000.00	54,000
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	50.00	7,500
	Sub-Total				602,835
	Total				1,166,708

BILL OF QUANTITIES (BALANCE WORKS)
(Holding Tank & Soakage Trench 80')

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount
					(Rs)
	Less Cost of Additional Two Options				(1,031,330)
	C/o to Summary for External Development work Pak Rs.				6,754,434

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
04-04E 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> <p>MDBLP-GF</p> <p>i) DBLP-GF1</p> <p>ii) DBLP-GF2</p> <p>iii) DBLP-FF1</p> <p>vi) DBLP-FF2</p> <p>v) MCC-WP</p> <p>vi) DB-EXT (IP 54)</p> <p>vii)</p>				
		1	No.	240,000	240,000
		1	No.	206,000	206,000
		1	No.	165,000	165,000
		1	No.	132,000	132,000
		1	No.	222,000	222,000
		1	No.	290,000	290,000
		1	No.	130,000	130,000
04-04E 2	<p>PART-2: <u>CABLES AND CONDUITS</u> <u>L.V. Power Cables</u></p> <p>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.</p> <p>a) 4 Core Cu/PVC/PVC CABLE</p> <p>i. 4 core 10mm.sq.</p>				
		415	R.ft	580	240,700

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
ii.	4 core 16mm.sq.	430	R.ft	745	320,350
iii.	4 core 95mm.sq.	75	R.ft	3,200	240,000
b)	Circuit Protective Conductor (CPC)				
i.	1 core 10mm sq. PVC insulated colour Green/Yellow.	415	R.ft	135	56,025
ii.	1 core 16mm sq. PVC insulated colour Green/Yellow.	430	R.ft	180	77,400
iii.	1 core 50mm sq. PVC insulated colour Green/Yellow.	75	R.ft	470	35,250
04-04E 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 dia. PVC conduit to pull electric cable.	390	R.ft	140	54,600
b)	38mm dia. PVC conduit to pull electric cable.	410	R.ft	180	73,800
c)	50mm dia. PVC conduit to pull electric cable.	50	R.ft	260	13,000
d)	75mm dia. PVC conduit to pull electric cable.	150	R.ft	550	82,500
	<u>PART-3 Wiring & Conduiting</u>				
04-04E 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.	30	Nos.	6,150	184,500
b)	Same as item (a) but wiring from switch to switch.	76	Nos.	1,430	108,680
c)	Wiring from switch/dimmer to first light/fan point 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 and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	198	Nos.	1,280	253,440

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
d)	Wiring and conduiting of light point to point 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.	130	Nos.	1,085	141,050
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.	25	Nos.	7,900	197,500
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.	25	Nos.	530	13,250
g)	Same as (f) 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.	39	Nos.	1,930	75,270
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.	4,250	17,000
	PART-4: <u>LIGHT FIXTURES, FANS, SWITCHES, OUTLETS & ACCESSORIES</u>				
04-04E 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.				

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	a. Fluorescent Light TMS 015 with 1x36Watt TL-D lamp color 84 w electronic ballast.	73	Nos.	2,430	177,390
	b. Fluorescent Light TMS 015 with 1x18Watt TL-D lamp color 84 w electronic ballast.	7	Nos.	1,490	10,430
	c. Fluorescent Light TCS398 with 2x36Watt TL-D lamp color 84 with M2 Louver & electronic ballast.	31	Nos.	8,800	272,800
	d. Fluorescent Light TCS398 2x36Watt TL-D lamp color 84 with M6 Louver & electronic ballast.	126	Nos.	7,890	994,140
	e. Fluorescent Light TBS 318 with 1x36Watt TL-D lamp color 84 w electronic ballast.	16	Nos.	8,880	142,080
04-04E 6	<u>Ceiling Fans</u> Supply, installation and commissioning of ceiling fans of following sizes steel body, 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.	17	Nos.	7,150	121,550
	b. 48" dia.	55	Nos.	6,300	346,500
	c. 36" dia.	1	Nos.	5,700	5,700
04-04E 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	13	Nos.	590	7,670
	ii) Two gang - 1 Way Switch	44	Nos.	740	32,560
	iii) Three gang - 1 Way Switch	8	Nos.	910	7,280
	vi) One gang - Fan Dimmer	9	Nos.	990	8,910
	v) Two gang - Fan Dimmer	32	Nos.	2,210	70,720
04-04E 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.				

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	i) 10A, 2-pin universal Switch Socket outlet.	27	Nos.	980	26,460
	ii) 13A, 3-pin Simplex Switch Socket outlet.	40	Nos.	970	38,800
	iii) 13A, 3-pin Duplex Switch Socket outlet.	17	Nos.	1,490	25,330
	iv) 15A, 3-pin simplex Switch Socket outlet.	7	Nos.	1,170	8,190
	v) Floor Box - Type B	24	Nos.	2,980	71,520
04-04E 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.	1,750	1,750
	<u>PART-5: EARTHING SYSTEM</u>				
04-04E 10	<u>Earth Electrode</u> Supply at site and installation of Stainless Steel copper claded earth electrodes, 10 feet long and 20mm dia including cost of all necessary materials, complete in all respects, as per specification.	0	Nos.		
04-04E 11	<u>Copper Conductor</u>				
	a) Supply, installation and connecting up of 1 x 16sqmm 1-Core Cu/PVC cable, in 38mm dia uPVC Class-d conduit directly buried in ground, 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	390	3,900
	b) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia uPVC Class-d 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.	40	R.ft	390	15,600

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	c) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia uPVC Class-d 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.	100	R.ft	355	35,500
	d) Supply, installation and connections of bare copper conductor 2x50 mm sq. in 38mm dia uPVC Class-d conduit, from building rebars 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.	250	R.ft	615.00	153,750
	e) Supply, installation and connections of copper conductor 1x50 mm sq. 1-Core Cu/PVC cable, in 38mm dia uPVC Class-d 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	615	9,225
04-04E 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.	90,000	180,000
04-04E 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.	8,000	16,000
04-04E 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.	5,500	11,000
04-04E 15	<u>Testing</u>				

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	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	15,000	15,000
	PART-6: <u>TELEPHONE / VOICE SYSTEM</u>				
04-04E 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.	275	R.ft	35	9,625
	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.	2160	R.ft	95	205,200
	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.	190	R.ft	95	18,050
	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	35	Nos.	1,650	57,750
	ii) Duplex Outlet RJ 45	4	Nos.	2,800	11,200
04-04E 17	<u>Utility 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.	39,000	39,000
04-04E 18	<u>Patch Panel</u>				

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	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.	29,000	29,000
	ii) 8 Port Patch Panel	2	Nos.	16,000	32,000
04-04E 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.	300	1,500
	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	38	Nos.	1,450	55,100
	ii) 3 meter long	38	Nos.	3,100	117,800
04-04E 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.	37,680	37,680
04-04E 21	<u>Telephone Sets</u>				
	Supply and connection of following type of Telephone sets.				
	a) Telephone with CLI Module	2	Nos.	11,000	22,000
	b) Telephone without CLI Module	3	Nos.	6,000	18,000
04-04E 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.	16,850	134,800
	ii) Heat detector with buzzer	5	Nos.	10,980	54,900

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	<u>PART -8 LIGHTNING PROTECTION SYSTEM</u>				
04-04E 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.	1380	R.ft.	475	655,500
04-04E 24	<u>Down Conductor</u> a) Supply at site, installation, connections of 2x50mm.sq. stranded bare copper conductor as down conductors to be installed within the columns from air terminal on roof to building rebars, all other required accessories, complete in all respects.	700	R.ft.	570	399,000
04-04E 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.	5	Nos.	45,000	225,000
04-04E 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.	10	Nos.	3,500	35,000
	<u>PART -9 Public Address System</u>				
04-04E 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.	17,500	35,000

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
04-04E 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.	13,250	53,000
04-04E 29	<u>Microphone</u> Cordless Microphone.	2	Nos.	12,000	24,000
04-04E 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.	250	R.ft.	270	67,500
PART -10 EXTERNAL AREA LIGHTING					
04-04E31	<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.	7,300	73,000
	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.	17,550	35,100
04-04E32	<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.	3	Nos.	8,500	25,500

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
b)	Same as item (h) but wiring from light point to light point.	8	Nos.	6,300	50,400
	PART -11 MISCELLANEOUS WORKS				
04-04E 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.	100	Rft.	110	11,000
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.	1	Nos.	7,100	7,100
04-04E 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.	19,000	38,000
04-04E 35	<u>Utility / PTCL Connection</u>				
a)	Supply and co-ordination for the utility connection from WAPDA / HESCO 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	25,000	25,000
	PART -12 SOLAR ROOM ELECTRIFICATION WORKS				
04-04E 36	<u>LIGHT FIXTURES</u>				

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	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.	9,100	18,200
	b. Fluorescent Light TCS398 with 2x36Watt TL-D lamp color 84 with M2 Louver & electronic ballast.	2	Nos.	9,500	19,000
04-04E 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.	1,110	1,110
04-04E 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.	1,630	1,630
04-04E 39	<u>Fire Alarm System</u> 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.	13,500	13,500
04-04E 40	<u>Circuit Wiring & Conduiting</u>				

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
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.	6,100	6,100
b)	Same as item (a) but wiring from switch to power outlet.	1	Nos.	1,450	1,450
c)	Wiring from switch to first light 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 and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	4	Nos.	1,290	5,160
CARRIED FORWARD TO SUMMARY - GRAND TOTAL					9,097,925

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	PLUMBING 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.				
04-05P1	European style coupled water closet with seat cover, flush tank C.P. (chrome plated) connector, thimble, etc. a. Type - EWC	8	No.	15,500	124,000
04-05P2	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.	12,300	270,600
04-05P3	Urinal wall hung type with automatic 1/2" size flush valve, CP trap, waste, connector and fixing accessories.		No.		
04-05P4	Wash basin (WB) including C.P P- trap/Bottle Trap, stop cocks, etc. i. Type - WB - V(Vanity)	21	No.	13,300	279,300
04-05P5	Wash basin hot and cold water mixer, waste, etc for following. i. Type - WB - V(Vanity)		No.		
04-05P6	Toilet Hand Shower with flexible chain & telephone type shower Including tee stop cock etc. complete in all respect. Type - TS	30	No.	3,900	117,000
04-05P7	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.	6	No.	8,150	48,900
04-05P8	Sink hot and cold water mixer, etc, for following. a. For SK-1		No.		
04-05P9	S.S Grease Trap 7.5 Kg. capacity, inlet/outlet 2" Dia connections.		No.		
04-05P10	Toilet accessories complete set, (Imported make)				
	i. Soap dispenser	8	No.	840	6,720
	ii. Toilet paper holder	30	No.	955	28,650
	iii. Coat Hook	8	No.	115	920
	iv. Hand Dryer	8	No.	2,450	19,600
	v. Paper Rack	8	No.	1,630	13,040
	<u>Plumbing Water Supply</u>				

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
04-05P11	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)	155	Rft.	120	18,600
	ii) ¾" internal dia (32 mm outer dia)	372	Rft.	160	59,520
	iii) 1" internal dia (40 mm outer dia)	614	Rft.	235	144,290
	iv) 1¼" internal dia (50 mm outer dia)	357	Rft.	375	133,875
	v) 1½" internal dia (63 mm outer dia)	23	Rft.	620	14,260
	vi) 2" internal dia (75 mm outer dia)		Rft.		
	vii) 2½" internal dia (90 mm outer dia)		Rft.		
04-05P12	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)	9	No	1,755	15,795
	ii) 1" internal dia (40 mm outer dia)	3	No	5,750	17,250
	iii) 1¼" internal dia (50 mm outer dia)	3	No	8,540	25,620
	iv) 1½" internal dia (63 mm outer dia)	1	No	12,800	12,800
	v) 2" internal dia (75 mm outer dia)		No		
	vi) 2½" internal dia (90 mm outer dia)		No		
	<u>Plumbing Sewerage</u>				

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
04-05P13	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	354	Rft.	130	46,020
	3" dia		Rft		
	4" dia	865	Rft.	225	194,625
	6" dia		Rft.		
04-05P14	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.	39	No.	1,690	65,910
04-05P15	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.		
04-05P16	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.	5	No.	9,600	48,000
04-05P17	Providing and fixing Clean Out complete in all respects	18	No.	1,880	33,840
	<u>Water Cooler</u>				
04-05P18	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.	145,000	580,000
	EXTERNAL DEVELOPMENT				
	<u>Septic Tank</u>				
04-05P19	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)	10	Rft.	590	5,900
	2" dia pipe sleeves 9" long	5	No.s	590	2,950

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
	<u>Soakage Pit</u>				
04-05P20	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.	170	850
	<u>Ground Water Storage Tank</u>				
04-05P21	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 ii) 2" dia, pipe sleeve 9" long	5 5 2	Rft. Rft. No.s	170 435 650	850 2,175 1,300
04-05P22	Supply and fitting of M.S manhole cover (size 2'x2') with frame, painted black on both sides, etc. complete in all respects, as per drawing and directed by the Engineer. <u>Kanchan Arsenic Filter</u> <u>Filter Material.</u>	2	No.	24,500	49,000
04-05P23	Providing & laying gravel, including screening and washing as per drawing or directed by the Engineer. Gravel size 6 mm to 15 mm.	42	Cft	90	3,780
04-05P24	Providing & laying coarse sand, including screening and washing as per drawing or directed by the Engineer.	63	Cft	30	1,890
04-05P25	Providing & laying fine sand, including screening and washing as per drawing or directed by the Engineer.	63	Sq.ft.	32	2,016
04-05P26	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.	71	Sq.ft.	335	23,785
04-05P27	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.	17	Cft.	80	1,360

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
04-05P28	Providing & laying iron nails with out coating (1" thick layer) as per drawing or directed by the Engineer.	180	Kg.	145	26,100
04-05P29	Providing & fixing cover over Kanchan Filter of PVC sheet 1/2" thick, as per drawing or directed by the Engineer.	70	Sq.ft.	240	16,800
04-05P30	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)	39	Rft.	170	6,630
04-05P31	Providing and fixing Plastic Shower Heads	9	Nos	240	2,160
<u>Tube Well / Penumatic Pump</u>					
04-05P32	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.	335	33,500
04-05P33	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.	355	17,750
04-05P34	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.	100	100
04-05P35	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)	104 72 38	Rft. Rft. Rft.	53 70 135	5,512 5,040 5,130

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
04-05P36	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.	125	5,000
04-05P37	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)	72	Rft.	415	29,880
04-05P38	Testing and developing of bore hole, complete in all respect and as directed by the Engineer.	3	Per Hr.	1,800	5,400
04-05P39	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.	160	7,200
04-05P40	Providing/fixing Injector valve as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	Each.	240	240
04-05P41	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.	75	75
04-05P42	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.	50,000	50,000
04-05P43	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) ii) ¾" internal dia (32 mm outer dia) iii) 1" internal dia (40 mm outer dia) iv) 1¼" internal dia (50 mm outer dia)	77	Rft.	170	13,090
		165	Rft.	390	64,350

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
04-05P44	v) 1½" internal dia (63 mm outer dia)	120	Rft.	630	75,600
	vi) 2" internal dia (75 mm outer dia)		Rft.		
	vii) 2½" internal dia (90 mm outer dia)		Rft.		
	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)	1	No	1,810	1,810
	ii) 1" internal dia (40 mm outer dia)		No		
04-05P45	iii) 1¼" internal dia (50 mm outer dia)	1	No	8,710	8,710
	iv) 1½" internal dia (63 mm outer dia)	1	No	12,150	12,150
	v) 2" internal dia (75 mm outer dia)		No		
	vi) 2½" internal dia (90 mm outer dia)		No		
	<u>Plumbing Sewerage</u>				
	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.	230	7,360
	6" dia (Sleeves at P. Beams already provided)	490	Rft.	580	284,200
04-05P46	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.		No.		
04-05P47	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.		

BILL OF QUANTITIES (BALANCE WORKS)

Item	Item Description	Quantity	Unit	M/s KAYBEE - BS (JV)	
				Rate	Amount (Rs)
04-05P48	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.		No.		
04-05P49	Providing and fixing Clean Out complete in all respects		No.		
	<u>Water Supply Pump For GST</u>				
01-05P50	Supply at site, installation, testing and commissioning of water supply reciprocating pump with 2HP motor as per specification complete in all respect.	2	No	26,000	52,000
CARRIED FORWARD TO SUMMARY					3,150,778.00

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-P01A-KHR (Balance Works)
3. Tender Description/ Name of Work/Item:	Construction of Six (06) Schools in District Khairpur, Package-01A
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/909/2014 dated 9 th July 2014.
6. Total Bid documents issued:	15
7. Total Bids Received:	02
8. Technical Bid Opening date (if applicable):	N/A
9. No of Bid technically qualified (if applicable):	N/A
10. Bid(s) Rejected:	Nil
11. Financial Bid Opening date:	18 th August 2014 @ 1130 Hours

12. Bid Evaluation Report:

S #	Name of Firm or Bidder	Cost Offered by Bidder (PKR)	Ranking in terms of cost	Comparison with Estimated Cost	Reasons for acceptance/rejection	Remarks
1	M/s. Banu Mukhtar Contracting (Pvt.) Ltd	577,836,081/-	2 nd	26.08% above	Higher Rates	---
2	M/s. Kaybee Constructors, Engineers & Contractors + BS Traders & Engineering Services (Joint venture)	494,692,354/-	1 st Lowest	7.94% above	1 st Lowest evaluated responsive bidder with acceptable market rates	Recommended for award of work


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

CONTRACT AGREEMENT

Contract Amount: 494,692,354/-

Bid Reference: SBEP-P01A-KHR

THIS CONTRACT AGREEMENT (hereinafter called the “Agreement”) made on the 1st day of October 2014 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 KAYBEE Constructors + BS Traders & Engineers, as KAYBEE-BS (Joint Venture) having their respective registered offices at Sharif Town, station road, Shahdadpur and Plot # 39, Rehman town Jamna das colony mirpurkhas and JV office at 351/3 Street No. 20 Sharafabad Karachi** (hereafter called the “Contractor”) of the other part.

WHEREAS the Employer is desirous that certain Works, viz **Construction of Package 01A: Construction of Balance Works of Six Schools in Khairpur District (Taluka Khairpur, Thari Mirwah), including following schools:**

1. **P01A-KHR02 GBLSS KORO GOTH**
2. **P01A-KHR03 GBHS TANDO NAZAR ALI**
3. **P01A-KHR04 GBLSS GHAGRI**
4. **P01A-KHR05 -GBHSS SETHARJA**
5. **P01A-KHR07 -GBHS TANDO MIR ALI**
6. **P01A-KHR08 -GBHS BOZDAR WADA**

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) Joint Venture Agreement
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:

Witness:

Name: _____

Name: _____

Title: _____

Title: _____

Address: _____

Address: _____



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/ /2014/1030
Karachi. dated: 11/09/2014

LETTER OF ACCEPTANCE / AWARD

**Kaybee Constructors and
BS Traders & Engineering Services. (Joint venture)**

351/3, Street # 20, Sharfabad,
Karachi

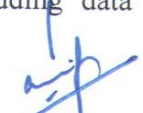
T: 021-34123535, F: 021-34937304

Subject: Construction of Six (06) Schools in District Khairpur, Package 1a

Notification of Award of Contract of Package No. SBEP-01A-KHR

This is to notify you that your bid dated 18th August, 2014 for the construction of six (06) schools in district Khairpur, (Package 1a) under USAID Sindh Basic Education Program for the accepted contract amount of PKR. 494,692,354/- (Four hundred and ninety four million, six hundred and ninety two thousands, three hundred and 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
Program Director

Cc: The Managing Director SPPRA



USAID
FROM THE AMERICAN PEOPLE



GOVERNMENT OF SINDH, EDUCATION & LITERACY DEPARTMENT

Project Management Implementation Unit (PMIU)

SINDH BASIC EDUCATION PROGRAM

Construction of Schools in District Khairpur, Sindh

(Taluka Khairpur & Thari Mirwah)



PACKAGE NO. SBEP-P01A-KHR (Balance Work)

Tender & Contract Documents

Volume-I

Instructions to Bidders

Bidding Data

Tender & Contract Forms

Conditions of Contract

July, 2014

GOVERNMENT OF SINDH, EDUCATION & LITERACY DEPARTMENT

Project Management Implementation Unit (PMIU)

SINDH BASIC EDUCATION PROGRAM

Construction of Schools in District Khairpur, Sindh

Tender & Contract Documents

Volume Distribution

Volume-I:

Instructions to Bidders

Bidding Data

Tender & Contract Forms

Conditions of Contract

Volume-II:

Bill of Quantities

Volume-IIIA:

Specifications – Special Provisions

Volume-IIIB:

Specifications – Technical Provisions

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**INVITATION
FOR BIDS**

USAID-Sindh Basic Education Program
(Program Management and Implementation Unit)
Education & Literacy Department, Govt. of Sindh
Tel. 021-35296931, Fax No. 021-35296935
D-29, Block2, Clifton Karachi

SBEP/USAID/PD/___/2014
Karachi, Dated:___/___/2014

Notice Inviting Tender

Provincial Government Funds/Grant No: ADP 194 / 2013-14, USAID Grant No: SC- 22051(051)
Bid Reference No: SBEP-01A-KHR-1A

1. The Program Management & Implementation Unit (PMIU), Education & Literacy Department, Government of Sindh (the "Procuring Agency" "PA") has received /grant /funds from the United States Agency for International Development (USAID) towards the cost of construction of schools in selected districts of Sindh and it is intended that part of the proceeds of the loan/grant/funds will be applied to eligible payments under the contract for the Package-01A (Balance Work): Construction of Six Schools in District Khairpur .
2. The construction contract for the said schools was previously awarded in October 2013, and almost 15% work has been completed at school sites. However due to unavoidable circumstances the previously awarded contract has been cancelled, and is being paid off separately. This tender notice covers the remaining works of the contract, which are roughly averaged at 85% of the original scope of works, and will be managed as a separate and independent procurement with no interface to previous contract
3. Procuring agency invites sealed bids for the above mentioned works from the interested firms already prequalified for Sind Basic Education Program (SBEP). Bidders may obtain information by acquiring the bidding documents (BD) from the Office of the procuring agency, PMIU (address as above) free of cost. A complete set of bidding documents in soft format (CD) is being dispatched to all pre-qualified firms at their postal addresses.
4. All bids must be accompanied by a bid security in the amount of equal to 2% of their quoted bid price in Pak Rupees or an equivalent amount in a freely convertible currency in the form of Pay Order / Call Deposit/Demand Draft/Bank Guarantee from any schedule Bank of Pakistan, and must be delivered to SBEP PMIU Office (address as above) at or before 1400 hours, on _____ (Date). Bids will be opened at 1500 hours on the same day, in the presence of bidders' representatives who choose to attend at the same address. The bid validity period will be 90 days
5. Visit to the school sites will be held on _____ (Date). Gathering point for the field visit will be the office of Resident Engineer, Package-1, Staff House, Halcrow Pakistan (Pvt.) Ltd, old NHA House, near "Gambat Filling Drive" petrol pump, Opposite hotel Royal Inn at Bypass Road, Gambat Sindh
6. A pre-bid meeting shall be held on _____ (Date) at 1100 hours at PMIU office (address as above). The bidders may send their queries according to the ITB 8.1 of Tender Conditions.
7. Procuring agency reserves right to annul the bidding process and reject all bids or proposals, only as per SPP Rules 2010
8. Please acknowledge the receipt and intent to participate in bidding.
9. Corruption complaints if any, against this program may be reported at: <http://www.anti-fraudhotline.com>, Toll free # 0800-84700, email at complaints@anti-fraudhotline.com or in person at 5-C, 2nd Floor, Khayaban-e-Ittehad, DHA Phase-VII, Karachi or by fax 021-35390410

(Program Director)

**INSTRUCTIONS
TO
BIDDERS**

INSTRUCTIONS TO BIDDERS

(Note: These Instructions to Bidders along with Bidding Data will not be part of the Contract and will cease to have effect once the contract is signed.)

A. GENERAL

IB.1 Scope of Bid

- 1.1 The Procuring Agency as defined in the Bidding Data hereinafter called “the Procuring Agency” wishes to receive bids for the construction and completion of works as described in these Bidding Documents, and summarized in the Bidding Data hereinafter referred to as the “Works”.
- 1.2 The successful bidder will be expected to complete the Works within the time specified in [Appendix-A](#) to Bid.

IB.2 Source of Funds

- 2.1 The Procuring Agency has received a grant from the source(s) indicated in the bidding data towards the cost of the project /scheme specified in the bidding data, and it is intended that part of the proceeds of this grant/funds will be applied to eligible payments under the Contract for which these Bidding Documents are issued.

IB.3 Eligible Bidders

- 3.1 This Invitation for Bids is open to all interested bidders who are prequalified and eligible under provisions of Sindh Public Procurement Rules as mentioned below and the criteria given in the Notice Inviting Tender (NIT)/ Bidding Document.

Firms and individuals, national or international, may be allowed to bid for any project where international competitive bidding is feasible. Any conditions for participation shall be limited to those that are essential to ensure the bidder’s capability to fulfill the contract in question

- a) Bidders may be excluded if;
 - (i) as a matter of law or official regulations, commercial relations are prohibited with the bidder’s country by the federal government in case of ICB, or
 - (ii) a firm is blacklisted/ debarred by the procuring agency and the matter has been reported to the Authority, subject to Rule 30 of Sindh Public Procurement Rules 2010.
- b) Government-owned enterprises or institutions may participate only if they can establish that they are;
 - (i) legally and financially autonomous, and
 - (ii) operate under commercial law.

Provided that where government-owned universities or research centers in the country are of a unique and exceptional nature, and their participation is critical to project implementation, they may be allowed to participate; and;

Bidders shall include all those contractors who are registered or incorporated in Pakistan, irrespective of the nationality of their owners and professional staff, or

- c) Bidders are:-
- (i) pre-qualified with procuring agency for particular project/scheme;
 - (ii) registered with Pakistan Engineering Council in particular category and discipline,
 - (iii) registered with relevant tax authorities (income/sales tax, wherever applicable)

IB.4 One Bid per Bidder

- 4.1 Each bidder shall submit only one bid either by himself, or as a partner in a joint venture. A bidder who submits or participates in more than one bid (other than alternatives pursuant to Clause IB.16) will be disqualified.

IB.5 Cost of Bidding

- 5.1 The bidders shall bear all costs associated with the preparation and submission of their respective bids and the Procuring Agency will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

IB.6 Site Visit

- 6.1 The bidders are advised to visit and examine the Site of Works and its surroundings and obtain for themselves on their own responsibility all information that may be necessary for preparing the bid and entering into a contract for construction of the Works. All cost in this respect shall be at the bidder's own expense.
- 6.2 The bidders and any of their personnel or agents will be granted permission by the Procuring Agency to enter upon his premises and lands for the purpose of such inspection, but only upon the express condition that the bidders, their personnel and agents, will release and indemnify the Procuring Agency, his personnel and agents from and against all liability in respect thereof and will be responsible for death or personal injury, loss of or damage to property and any other loss, damage, costs and expenses incurred as a result of such inspection.

B. BIDDING DOCUMENTS

IB.7 Contents of Bidding Documents (SSP RULE 21)

- 7.1 The Bidding Documents, in addition to invitation for bids, are those stated below and should be read in conjunction with any Addenda issued in accordance with Clause IB.9.
- 1. Instructions to Bidders.
 - 2. Bidding Data.
 - 3. General Conditions of Contract, Part-I (GCC).
 - 4. Special Conditions of Contract, Part-II (PCC).
 - 5. Specifications – Special Provisions.
 - 6. Specifications - Technical Provisions.
 - 7. Form of Bid & Appendices to Bid.
 - 8. Bill of Quantities (Appendix-D to Bid).
 - 9. Form of Bid Security.

10. Form of Contract Agreement.
 11. Forms of Performance Security and Mobilization Advance Guarantee, Integrity Pact and Indenture bond for secured advance.
 12. Drawings.
- 7.2 The bidders are expected to examine carefully the contents of all the above documents. Failure to comply with the requirements of bid submission will be at the Bidder's own risk. Pursuant to Clause IB.26, bids which are not substantially responsive to the requirements of the Bidding Documents will be rejected.

IB.8 Clarification of Bidding Documents (SSP RULE 23(1)):

- 8.1 Any interested bidder requiring any clarification (s) in respect of the Bidding Documents may notify the Procuring Agency in writing at the Procuring Agency's address indicated in the Invitation for Bids/NIT. The Procuring Agency will respond to any request for clarification provided they are received at least five calendar days prior to the date of opening of bid, provided that any clarification in response to query by any bidder; shall be communicated to all parties who have obtained bidding documents, but without identifying its source.

IB.9 Amendment of Bidding Documents

- 9.1 At any time prior to the deadline for submission of bids, the Procuring Agency may, for any reason, whether at his own initiative or in response to a clarification requested by a interested bidder, modify the Bidding Documents by issuing addendum.
- 9.2 Any addendum thus issued shall be part of the Bidding Documents pursuant to Sub-Clause 7.1 hereof and shall be communicated in writing to all the bidders. Interested bidders shall acknowledge receipt of each addendum in writing to the Procuring Agency.
- 9.3 To afford bidders reasonable time in which to take an addendum into account in preparing their bids, the Procuring Agency may extend the deadline for submission of bids in accordance with Clause IB.20

C. PREPARATION OF BIDS

IB.10 Language of Bid

- 10.1 The bid and all correspondence and documents related to the bid exchanged by a bidder and the Procuring Agency shall be in the language stipulated in the Bidding Data and Special Conditions of Contract. Supporting documents and printed literature furnished by the bidders may be in any other language provided the same are accompanied by an accurate translation of the relevant parts in the bid language, in which case, for purposes of evaluation of the bid, the translation in bid language shall prevail.

IB.11 Documents Accompanying the Bid

- 11.1 Each bidder shall:
- (a) submit a written authorization on the letterhead of the bidding firm authorizing the signatory of the bid to act for and on behalf of the bidder;

- (b) update the information indicated and listed in the Bidding Data and previously submitted with the application for prequalification, and continue to meet the minimum criteria set out in the prequalification documents which as a minimum, would include the following :
- (i) Evidence of access to financial resources alongwith average annual construction turnover;
 - (ii) Financial predictions for the current year and the two following years including the effect of known commitments;
 - (iii) Work commitments since prequalification;
 - (iv) Current litigation information; and
 - (v) Availability of critical equipment.
- and
- (c) furnish a technical proposal taking into account the various Appendices to Bid specially the following:
- | | |
|-------------------|--|
| Appendix-E to Bid | Proposed Construction Schedule |
| Appendix-F to Bid | Method of Performing the Work |
| Appendix-G to Bid | List of Major Equipment |
| Appendix-K to Bid | Organization Chart for Supervisory Staff |
- and other pertinent information such as mobilization program etc;

11.2 Bids submitted by a joint venture of two (2) or more firms shall comply with the following requirements:

- (a) one of the joint venture partners shall be nominated as being in charge; and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the joint venture partners;
- (b) the bid and in case of a successful bid, the Form of Contract Agreement shall be signed so as to be legally binding on all partners;
- (c) the partner-in-charge shall always be duly authorized to deal with the Procuring Agency regarding all matters related with and/or incidental to the execution of Works as per the terms and Conditions of Contract and in this regard to incur any and all liabilities, receive instructions, give binding undertakings and receive payments on behalf of the joint venture;
- (d) all partners of the joint venture shall at all times and under all circumstances be liable jointly and severally for the execution of the Contract in accordance with the Contract terms and a statement to this effect shall be included in the authorization mentioned under Sub-Para(a) above as well as in the Form of Bid and in the Form of Contract Agreement (in case of a successful bid); and

- (e) a copy of the agreement entered into by the joint venture partners shall be submitted with the bid stating the conditions under which it will function, its period of duration, the persons authorized to represent and obligate it and which persons will be directly responsible for due performance of the Contract and can give valid receipts on behalf of the joint venture, the proportionate participation of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning. No amendments / modifications whatsoever in the joint venture agreement shall be agreed to between the joint venture partner without prior written consent of the Procuring Agency.

- 11.3 Bidders shall also submit proposals of work methods and schedule, in sufficient detail to demonstrate the adequacy of the Bidders' proposals to meet the technical specifications and the completion time referred to in Sub-Clause 1.2 hereof.

IB.12 Bid Prices

- 12.1 Unless stated otherwise in the Bidding Documents, the Contract shall be for the whole of the Works as described in Sub-Clause 1.1 hereof, based on the unit rates and / or prices submitted by the bidder or percentage quoted above or below on the rates of Composite Schedule of Rates (CSR), as the case may be.
- 12.2 The bidders shall fill in rates and prices for all items of the works described in the Bill of Quantities. Items against which no rate or price is entered by a bidder will not be paid for by the Procuring Agency when executed and shall be deemed covered by rates and prices for other items in the Bill of Quantities. In case of Composite Schedule of Rates, if the bidder fails to mention the percentage above or below, it shall be deemed to be at par with the rates of Composite Schedule of Rates.
- 12.3 The bid price submitted by the contractor shall include all rates and prices including taxes. All duties, taxes and other levies payable by the contractor under the contract, or for any other cause during the currency of the execution of the work or otherwise specified in the contract as on the date seven days prior to the deadline for submission of bids.

Additional/reduced duties, taxes and levies due to subsequent additions or changes in legislation shall be reimbursed / deducted as per Sub-Clause 13.7 of the General Conditions of Contract Part-I.

- 12.4 The rates and prices quoted by the bidders are subject to adjustment during the performance of the Contract in accordance with the provisions of Clause 13.7 of the Conditions of Contract. The bidders shall furnish the prescribed information for the price adjustment formulae in Appendix-C to Bid, and shall submit with their bids such other supporting information as required under the said Clause. Adjustment in prices quoted by bidders shall be allowed as per Sub-Para 4(ii) of Section C of Instructions to bidders and bidding data.

IB.13 Currencies of Bid and Payment

- 13.1 The unit rates and the prices shall be quoted by the bidder entirely in Pak rupees. A bidder expecting to incur expenditures in other currencies for inputs to the Works supplied from outside the Procuring Agency's country (referred to as the "Foreign Currency Requirements") shall indicate the same in Appendix-B to Bid. The proportion of the Bid Price (excluding Provisional Sums) needed by him for the payment of such Foreign Currency Requirements either (i) entirely in the currency of the Bidder's home country or, (ii) at the bidder's option, entirely in Pak rupees provided always that a bidder expecting to incur expenditures in a currency or currencies other than those stated in (i) and (ii) above for a portion of the foreign currency requirements, and wishing to be paid accordingly, shall indicate the respective portions in his bid.
- 13.2 The rates of exchange to be used by the bidder for currency conversion shall be the selling rates published and authorized by the State Bank of Pakistan prevailing on the date, 07 (seven) days prior to the deadline for submission of bids. For the purpose of payments, the exchange rates used in bid preparation shall apply for the duration of the contract.

IB.14 Bid Validity

- 14.1 Bids shall remain valid for the period stipulated in the Bidding Data after the Date of Bid Opening specified in Clause IB.23.
- 14.2 In exceptional circumstances, prior to expiry of the original bid validity period, the Procuring Agency may request that the bidders extend the period of validity for a specified additional period which shall in no case be more than the original bid validity period. The request and the responses thereto shall be made in writing. A bidder may refuse the request without forfeiting his Bid Security. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his Bid Security for the period of the extension, and in compliance with Clause IB.15 in all respects.

IB.15 Bid Security

- 15.1 Each bidder shall furnish, as part of his bid, a Bid Security in the amount stipulated in the Bidding Data in Pak Rupees or an equivalent amount in a freely convertible currency.
- 15.2 The Bid Security shall be, at the option of the bidder, in the form of Pay Order, Demand Draft, Deposit at Call or a Bank Guarantee issued by a Scheduled Bank in Pakistan or from a foreign bank duly counter guaranteed by a Scheduled Bank in Pakistan in favour of the Procuring Agency which should commensurate with the bid validity period. The bank guarantee for bid security shall be acceptable in the manner as provided at Annexure BS-1.
- 15.3 Any bid not accompanied by an acceptable Bid Security shall be rejected by the Procuring Agency as non-responsive.
- 15.4 Bid security shall be released to the unsuccessful bidders once the contract has been signed with the successful bidder or the validity period has expired.

- 15.5 The Bid Security of the successful bidder will be returned when the bidder has furnished the required Performance Security and signed the Contract Agreement.
- 15.6 The Bid Security may be forfeited:
- (a) if the bidder withdraws his bid except as provided in Sub-Clause 22.1;
 - (b) if the bidder does not accept the correction of his Bid Price pursuant to Sub-Clause 27.2 hereof; or
 - (c) In the case of successful bidder, if he fails within the specified time limit to:
 - (i) furnish the required Performance Security; or
 - (ii) sign the Contract Agreement.

IB.16 Alternate Proposals by Bidder

- 16.1 Each bidder shall submit only one bid either by himself, or as a member of a joint venture, until and unless they have been requested or permitted for alternative bid, then he has to purchase separate bidding documents and alternate bid shall be treated as separate bid.
- 16.2 Alternate proposals are allowed only for procurement of works where technical complexity is involved and more than one designs or technical solutions are being offered. Two stage two envelope bidding procedure will be appropriate when alternate proposal is required.
- 16.3 Alternate bid(s) shall contain (a) relevant design calculations; (b) technical specifications; (c) proposed construction methodology; and (d) any other relevant details / conditions, provided that the total sum entered on the Form of Bid shall be that which represents complete compliance with the bidding documents.

IB.17 Pre-Bid Meeting

- 17.1 The Procuring Agency may, on his own motion or at the request of any bidder(s), hold a pre-bid meeting to clarify issues and to answer any questions on matters related to the Bidding Documents. The date, time and venue of pre-bid meeting, if convened, shall be communicated to all bidders. All bidders or their authorized representatives shall be invited to attend such a pre-bid meeting at their own expense.
- 17.2 The bidders are requested to submit questions, if any, in writing so as to reach the Procuring Agency not later than seven (7) days before the date of proposed pre-bid meeting.
- 17.3 Minutes of the pre-bid meeting, including the text of the questions raised and the replies given, will be transmitted without delay to all purchasers of the Bidding Documents. Any modification of the Bidding Documents listed in Sub-Clause 7.1 hereof which may become necessary as a result of the pre-bid meeting shall be made by the Procuring Agency exclusively through the issue of an Addendum pursuant to Clause IB.9 and not through the minutes of the pre-bid meeting.
- 17.4 Absence at the pre-bid meeting will not be a cause for disqualification of a bidder.

IB.18 Format and Signing of Bid

- 18.1 Bidders are particularly directed that the amount entered on the Form of Bid shall be for performing the Contract strictly in accordance with the Bidding Documents.
- 18.2 All appendices to Bid are to be properly completed and signed.
- 18.3 Alteration is not to be made in the Form of Bid nor in the Appendices thereto except in filling up the blanks as directed. If any such alterations be made or if these instructions be not fully complied with, the bid may be rejected.
- 18.4 Each bidder shall prepare by filling out the forms completely and without alterations and shall provide an original copy along with photocopies as per the requirement of the procuring agency specified in the bidding data. The original as well as copies of the document shall be clearly marked as "ORIGINAL" and „COPY", as the case may be. If there is any discrepancy between original and copy/copies then the original shall prevail.
- 18.5 The original and all copies of the bid shall be typed or written in indelible ink (in the case of copies, Photostats are also acceptable) and shall be signed by a person or persons duly authorized to sign on behalf of the bidder pursuant to Sub- Clause 11.1(a) hereof. All pages of the bid shall be initialed and stamped by the person or persons signing the bid.
- 18.6 The bid shall contain no alterations, omissions or additions, except to comply with instructions issued by the Procuring Agency, or as are necessary to correct errors made by the bidder. Such corrections shall be initialed by the person (s) signing the bid.
- 18.7 Bidders shall indicate in the space provided in the Form of Bid their full and proper addresses at which notices may be legally served on them and to which all correspondence in connection with their bids and the Contract is to be sent.
- 18.8 Bidders should retain a copy of the Bidding Documents as their file copy.

D. SUBMISSION OF BIDS**IB.19 Sealing and Marking of Bids**

- 19.1 Each bidder shall submit his bid as under:
- (a) ORIGINAL and _____ *copies of the Bid shall be separately sealed and put in separate envelopes and marked as such.
 - (b) The envelopes containing the ORIGINAL and COPIES shall be put in one sealed envelope and addressed as given in Sub- Clause 19.2 hereof.
- 19.2 The inner and outer envelopes shall:
- (a) be addressed to the Procuring Agency at the address provided in the Bidding Data;

 * Note: See Bidding Data

- (b) bear the name and identification number of the contract as defined in the Bidding Data; and
 - (c) provide a warning not to open before the time and date for bid opening, as specified in the Bidding Data.
- 19.3 In addition to the identification required in Sub- Clause 19.2 hereof, the inner envelope shall indicate the name and address of the bidder to enable the bid to be returned unopened in case it is declared "late" pursuant to Clause IB.21
- 19.4 If the outer envelope is not sealed and marked as above, the Procuring Agency will assume no responsibility for the misplacement or premature opening of the Bid.

IB.20 Deadline for Submission of Bids

- 20.1 (a) Bids must be received by the Procuring Agency at the address specified no later than the time and date stipulated in the Bidding Data.
- (b) Bids with charges payable will not be accepted, nor will arrangements be undertaken to collect the bids from any delivery point other than that specified above. Bidders shall bear all expenses incurred in the preparation and delivery of bids. No claims will be entertained for refund of such expenses.
- (c) Where delivery of a bid is by mail and the bidder wishes to receive an acknowledgment of receipt of such bid, he shall make a request for such acknowledgment in a separate letter attached to but not included in the sealed bid package.
- (d) Upon request, acknowledgment of receipt of bids will be provided to those making delivery in person or by messenger.
- 20.2 The Procuring Agency may, at his discretion, extend the deadline for submission of bids by issuing an amendment in accordance with Clause IB.9, in which case all rights and obligations of the Procuring Agency and the bidders previously subject to the original deadline will thereafter be subject to the deadline as extended.

IB.21 Late Bids

- 21.1 (a) Any bid received by the Procuring Agency after the deadline for submission of bids prescribed in Clause IB.20 will be returned unopened to such bidder.
- (b) Delays in the mail, delays of person in transit, or delivery of a bid to the wrong office shall not be accepted as an excuse for failure to deliver a bid at the proper place and time. It shall be the bidder's responsibility to submit the bid in time.

IB.22 Modification, Substitution and Withdrawal of Bids

- 22.1 Any bidder may modify, substitute or withdraw his bid after bid submission provided that the modification, substitution or written notice of withdrawal is received by the Procuring Agency prior to the deadline for submission of bids.

- 22.2 The modification, substitution, or notice for withdrawal of any bid shall be prepared, sealed, marked and delivered in accordance with the provisions of Clause IB.19 with the outer and inner envelopes additionally marked “MODIFICATION”, “SUBSTITUTION” or “WITHDRAWAL” as appropriate.
- 22.3 No bid may be modified by a bidder after the deadline for submission of bids except in accordance with Sub-Clauses 22.1 and 27.2.
- 22.4 Withdrawal of a bid during the interval between the deadline for submission of bids and the expiration of the period of bid validity specified in the Form of Bid may result in forfeiture of the Bid Security in pursuance to Clause IB.15.

E. BID OPENING AND EVALUATION

IB.23 Bid Opening

- 23.1 The Procuring Agency will open the bids, including withdrawals, substitution and modifications made pursuant to Clause IB.22, in the presence of bidders’ representatives who choose to attend, at the time, date and location stipulated in the Bidding Data. The bidders or their representatives who are present shall sign an attendance sheet.
- 23.2 Envelopes marked “MODIFICATION”, “SUBSTITUTION” or “WITHDRAWAL” shall be opened and read out first. Bids for which an acceptable notice of withdrawal has been submitted pursuant to Clause IB.22 shall not be opened.
- 23.3 Procuring agency shall read aloud the name of the bidder, total bid price and price of any alternate proposal(s), if any, discounts, bid modifications, substitution and withdrawals, the presence or absence of bid security, and such other details as the procuring agency may consider appropriate, and total amount of each bid, and of any alternative bids if they have been requested or permitted, shall be read aloud and recorded when opened.
- 23.4 Procuring Agency shall prepare minutes of the bid opening, including the information disclosed to those present in accordance with the Sub-Clause 23.3.

IB.24 Process to be Confidential (SPP Rule 53)

- 24.1 Information relating to the examination, clarification, evaluation and comparison of bid and recommendations for the award of a contract shall not be disclosed to bidders or any other person not officially concerned with such process before the announcement of bid evaluation report in accordance with the requirements of Rule 45, which states that Procuring Agencies shall announce the results of bid evaluation in the form of a report giving reasons for acceptance or rejection of bids. The report shall be hoisted on website of authority and that of procuring agency if it website exists and intimated to all bidders at least seven (7) days prior to the award of contract. The announcement to all bidders will include table(s) comprising read out prices, discounted prices, price adjustments made, final evaluated prices and recommendations against all the bids evaluated. Any effort by a bidder to influence the procuring agency’s processing of bids or award decisions may result in the rejection of such bidder’s bid. Whereas, any bidder feeling aggrieved, may lodge a written complaint as per Rule 31; however mere fact of lodging a complaint shall not warrant suspension of the procurement process.

IB.25 Clarification of Bids (SPP Rule 43)

- 25.1 To assist in the examination, evaluation and comparison of bids, the Procuring Agency may, at its discretion, ask any bidder for clarification of the bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing but no change in the price or substance of the bid shall be sought, offered or permitted except as required to confirm the correction of arithmetic errors discovered by the Procuring Agency in the evaluation of the bids in accordance with Clause IB.28.

IB.26 Examination of Bids and Determination of Responsiveness

- 26.1 Prior to the detailed evaluation of bids, the procuring agency will determine whether the bidder fulfills all codal requirements of eligibility criteria given in the tender notice such as registration with tax authorities, registration with PEC (where applicable), turnover statement, experience statement, and any other condition mentioned in the NIT and bidding document. If the bidder does not fulfill any of these conditions, it shall not be evaluated further.
- 26.2 Once found to be fulfilling the eligibility criteria, as mentioned in sub- clause 26.1, the bids of eligible bidders will be evaluated for technical responsiveness as per specification and criteria given in the bidding documents. Technical and financial evaluations may be carried out in accordance with single stage-one envelope, single stage-two envelopes, or two stage-two envelopes bidding procedures, depending on the selection procedure adopted by the procuring agency.
- 26.3 A bid will be considered technically responsive if it (i) has been properly signed; (ii) is accompanied by the required bid security; and (iii) conforms to all the terms, conditions and specifications of the bidding documents, without material deviation or reservation. A material deviation or reservation is one (i) which affect in any substantial way the scope, quality or performance of the works; (ii) which limits in any substantial way, inconsistent with the bidding documents, the procuring agency's rights or the bidder's obligations under the contract; or (iii) adoption/rectification whereof would affect unfairly the competitive position of other bidders presenting substantially responsive bids.
- 26.4 If a bid has major deviations to the commercial requirements and technical specifications will be considered technically non responsive. As a general rule, major deviations are those that if accepted, would not fulfill the purposes for which the bid is requested, or would prevent a fair comparison or affect the ranking of the bids that are compliant with the bidding documents.

(A). Major (material) Deviations include:-

- (i) has not been properly signed;
- (ii) is not accompanied by the bid security of required amount and manner;
- (iii) stipulating price adjustment when fixed price bids were called for;
- (iv) failing to respond to specifications;
- (v) failing to comply with Mile-stones/Critical dates provided in Bidding Documents;
- (v) sub-contracting contrary to the Conditions of Contract specified in Bidding Documents;

- (vii) refusing to bear important responsibilities and liabilities allocated in the Bidding Documents, such as performance guarantees and insurance coverage;
- (viii) taking exception to critical provisions such as applicable law, taxes and duties and dispute resolution procedures;
- (ix) a material deviation or reservation is one :
 - (a) which affect in any substantial way the scope, quality or performance of the works;
 - (b) adoption/rectification whereof would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

(B) Minor Deviations

- (i) Bids that offer deviations acceptable to the Procuring Agency and which can be assigned a monetary value may be considered substantially responsive at least as to the issue of fairness. This value would however be added as an adjustment for evaluation purposes only during the detailed evaluation process.

26.5 If a bid is not substantially responsive, it will be rejected by the procuring agency, and may not subsequently be made responsive by correction or withdrawal of the non-conforming deviation or reservation.

IB.27 Correction of Errors

27.1 Bids determined to be substantially responsive will be checked by the Procuring Agency for any arithmetic errors. Errors will be corrected by the Procuring Agency as follows:

- (a) where there is a discrepancy between the amounts in figures and in words, the amount in words will govern; and
- (b) where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern, unless in the opinion of the Procuring Agency there is an obviously gross misplacement of the decimal point in the unit rate, in which case the line item total as quoted will govern and the unit rate will be corrected.

27.2 The amount stated in the Form of Bid will be adjusted by the Procuring Agency in accordance with the above procedure for the correction of errors and with the concurrence of the bidders, the amount thus corrected shall be considered as binding upon the bidder. If the bidder does not accept the corrected bid price, his bid will be rejected, and the bid security shall be forfeited in accordance with sub- clause IB 15.6(b) hereof.

IB.28 Evaluation and Comparison of Bids

28.1 The Procuring Agency will evaluate and compare only the Bids determined to be substantially responsive in accordance with Clause IB.26.

- 28.2 In evaluating the Bids, the Procuring Agency will determine for each Bid the evaluated Bid Price by adjusting the Bid Price as follows:
- (a) making any correction for errors pursuant to Clause IB.27;
 - (b) excluding Provisional Sums and the provision, if any, for contingencies in the Summary Bill of Quantities, but including competitively priced Daywork; and
 - (c) making an appropriate adjustment for any other acceptable variation or deviation.
- 28.3 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in Bid evaluation.
- 28.4 If the bid of the successful bidder is seriously unbalanced in relation to the procuring agency's estimate of the cost of work to be performed under the contract, the procuring agency may require the bidder to produce detailed price analyses for any or all items of the Bill of Quantities to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the procuring agency may require that the amount of the Performance Security set forth in clause IB.32 be increased at the expense of the successful bidder to a level sufficient to protect the procuring agency against financial loss in the event of default of the successful bidder under the contract.
- 28.5 **“Corrupt and Fraudulent Practices”**: Bidders may be excluded if involved in means either one or any combination of the practices given below SPP Rule2(q);
- (i) **“ Coercive Practice ”** means any impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence the actions of a party to achieve a wrongful gain or to cause a wrongful loss to another party;
 - (ii) **“ Collusive Practice ”** means any arrangement between two or more parties to the procurement process or contract execution, designed to achieve with or without the knowledge of the procuring agency to establish prices at artificial, noncompetitive levels for any wrongful gain;
 - (ii) **“Corrupt Practice”** means the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence the acts of another party for wrongful gain;
 - (iv) **“ Fraudulent Practice”** means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
 - (v) **“Obstructive Practice”** means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process, or affect the execution of a contract or deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements

before investigators in order to materially impede an investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or acts intended to materially impede the exercise of inspection and audit rights provided for under the Rules.

28.6 Evaluation Report (SPP Rule 45)

After the completion of evaluation process, as described in clauses IB 27 and IB 28, the procuring agency shall announce the results of bid evaluation in the form of report (available on the website of the authority) giving reasons for acceptance and rejection of bid. The report shall be hoisted on website of the authority and that of procuring agencies if its website exists and intimated to all bidders at least seven (7) days prior to the award of contract.

F. AWARD OF CONTRACT

IB.29 Award (SPP Rule 49)

- 29.1 Subject to Clauses IB.30 and IB.34, the Procuring Agency shall award the Contract to the bidder whose bid has been determined to be substantially responsive to the Bidding Documents and who has offered the lowest evaluated Bid Price, but not necessarily the lowest submitted price, within the original or extended period of bid validity. Provided that such bidder has been determined to be eligible in accordance with the provisions of clause IB 03 and qualify pursuant to sub-clause IB 29.2.
- 29.2 The Procuring Agency, at any stage of the bid evaluation, having credible reasons for or *prima facie* evidence of any deficiency/ lies in supplier's or contractor's capacities, may require the suppliers or contractors to provide information concerning their professional, technical, financial, legal or managerial competence whether already pre-qualified or not Provided that such qualification shall only be laid down after recording reasons therefore in writing. They shall form part of the records of that bid evaluation report.

IB.30 Procuring Agency's Right to reject any or all Bids or Annul / Cancel the Bidding Process (SPP Rule 25)

- 30.1 Notwithstanding Clause IB.29, and provision of the rule: (1) A procuring agency reserves the right to cancel the bidding process at any time prior to the acceptance of a bid or proposal; (2) The procuring agency shall incur no liability towards bidders solely by virtue of its invoking sub-rule (1);
- (3) Intimation of the cancellation of bidding process shall be given promptly to all bidders and bid security shall be returned along with such intimation; (4) The procuring agency shall, upon request by any of the bidders, communicate to such bidder, grounds for cancellation of the bidding process, but is not required to justify such grounds.

IB.31 Notification of Award (SPP Rule 48)

- 31.1 Prior to expiry of the period of bid validity, including extension, prescribed by the procuring agency, the procuring agency shall notify the successful bidder in writing (“Letter of Acceptance”) that his bid has been accepted. This letter shall mention the sum which the procuring agency will pay to the contractor in consideration of the execution and completion of the works by the contractor as prescribed by the contract (hereinafter and in the conditions of contract called the “Contract Price”).
- 31.2 No negotiation with the bidder having evaluated as lowest responsive or any other bidder shall be permitted, however, procuring agency may hold meetings to clarify any item in the bid evaluation report.
- 31.3 The notification of award and its acceptance by the bidder will constitute the formation of the contract, binding the procuring agency and the bidder till signing of the formal Contract Agreement.
- 31.4 Upon furnishing by the successful bidder of a Performance Security and signing of the contract, the procuring agency will promptly notify the name of the successful bidder to all bidders and return their bid securities accordingly.
- 31.5 Within seven days of the award of contract, procuring agency shall publish on the website of the Authority and on its own website, if such a website exists, the results of the bidding process, identify the bid through procurement identifying numbers, and the following information:
- (1) Evaluation Report;
 - (2) Form of Contract and letter of Award;
 - (3) Bill of Quantities or Schedule of Requirement.

31.6 Debriefing (SPP Rule 51).

(a) A bidder may ask the procuring agency for reasons for non-acceptance of his bid and may request for a debriefing meeting and procuring agency shall give him the reasons for such non acceptance, either in writing or by holding a debriefing meeting with such a bidder.

(b) The requesting bidder shall bear all the costs of attending such a debriefing.

IB.32 Performance Security (SPP Rule 39)

- 32.1 The successful bidder shall furnish to the Procuring Agency a Performance Security in the form pay order or demand draft or bank guarantee, and the amount stipulated in the Bidding Data and the Conditions of Contract within a period of 14days after the receipt of Letter of Acceptance.
- 32.2 Failure of the successful bidder to comply with the requirements of Sub-Clause IB.32.1 or Clauses IB.33 or IB.35 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security.
- 32.3 Validity of performance security shall extend at least ninety days beyond the date of completion of contract, or as mentioned in the bidding data to cover defects liability period or maintenance period subject to final acceptance by the procuring agency.

IB.33 Signing of Contract Agreement (SPP Rule 55)

- 33.1 Within 14 days from the date of furnishing of acceptable Performance Security under the Conditions of Contract, the Procuring Agency will send the successful bidder the Contract Agreement in the form provided in the Bidding Documents, incorporating all agreements between the parties.
- 33.2 The formal Agreement between the Procuring Agency and the successful bidder shall be executed within 14 days of the receipt of the Contract Agreement by the successful bidder from the Procuring Agency.
- 33.3 A procurement contract shall come into force when the procuring agency requires signs contract, the date on which the signatures of both the procuring agency and the successful bidder are affixed to the written contract. Such affixing of signatures shall take place within the time prescribed in the bidding documents. Provided that the procuring agency may reduce the maximum time limit for signing of contract, as and when required, and shall be mentioned in the bidding documents.

33.4 Stamp Duty.

The formal Agreement between the Procuring Agency and the successful bidder shall be duly stamped at rate of ----% *of bid price (updated from time to time) stated in Letter of Acceptance

IB.34 General Performance of the Bidders

Procuring agency may in case of consistent poor performance of the contractor and his failure to remedy the underperforming contract may take such action as may be deemed appropriate under the circumstances of the case including the rescinding the contract and/or black listing of such contractor and debarring him from participation in future bidding process.

IB.35 Integrity Pact

The Bidder shall sign and stamp the Integrity Pact provided at Appendix-L to Bid in the Bidding Documents for all Provincial/Local Government procurement contracts exceeding Rupees ten million. Failure to provide such Integrity Pact shall make the bidder non-responsive.

IB.36 Instructions not Part of Contract

Bids shall be prepared and submitted in accordance with these Instructions which are provided to assist bidders in preparing their bids, and do not constitute part of the Bid or the Contract Documents.

IB.37 Arbitration (SPP Rule 34)

Any dispute that is not amicably resolved shall be finally settled, unless otherwise specified in the Contract, under the Arbitration Act 1940 updated from time to time and would be held anywhere in the Province of Sindh at the discretion of procuring agency

* Note: See Bidding Data

**BIDDING
DATA**

Bidding Data

1.1 Name and Address of the Procuring Agency:

*Program Management and Implementation Unit (PMIU), Sindh Basic Education Program (SBEP), Education & Literacy Department, Government of Sindh.
H. No 29-D, Block 2, Clifton, Karachi Pakistan*

1.1 Name of the Project & Summary of the Works:

Construction of New School buildings for up-gradation of existing schools in seven districts of Sind and Karachi under Sindh Basic Education Program (SBEP)

Package No. SBEP-01A-KHR (Balance Work): Construction of Six (06) Schools in District Khairpur (Taluka Khairpur & Thari Mirwah)

- i. P01A-KHR-02 GBLSS Koro Goth (Taluka Khairpur)*
- ii. P01A-KHR-03 GBHS Tando Nazar Ali (Taluka Khairpur)*
- iii. P01A-KHR-04 GBLSS Ghagri (Taluka Khairpur)*
- iv. P01A-KHR-05 GBHSS Setharja (Taluka Thari Mir Wah)*
- v. P01A-KHR-07 GBHS Tando Mir Ali (Taluka Thari Mir Wah)*
- vi. P01A-KHR-08 GBHS Bozdar Wada (Taluka Thari Mir Wah)*

Construction of double storey building with complete civil works including structural, architectural, plumbing, water supply, sewerage networks and related electrical & mechanical works along with landscaping works, boundary wall as described in the drawings and Bill of Quantities in detail.

Foundations including backfilling, portions of Plinth beam and few super structure columns are already constructed as shown in the drawings/sketches.

2.1 Name of the Borrower/Source of Financing/Funding Agency:

The project is financed by United States Agency for International Development (USAID).

2.1 Amount and type of financing: Not Applicable

8.1 Time limit for clarification:

Bidders may seek clarification in writing at least three (03) days before Pre bid meeting.

10.1 Bid language:

English

11.1 (a) Prequalification Information to be updated:

Updated information shall be submitted in accordance with the Appendices to the Tender along with current contractual and financial commitments.

13.1 Bidders to quote entirely in Pak. Rupees only.

14.1 Period of Bid Validity:

90 days after the date of Bid opening

15.1 Amount of Bid Security:

Bid Security for the amount of 2% of bid price in Pak Rupees or an equivalent amount in a freely convertible currency in the form of Pay Order/Demand Draft/Deposit at Call or a Bank Guarantee issued by a Scheduled Bank in Pakistan or from a foreign bank duly counter guaranteed by a Scheduled Bank in Pakistan in favour of the Procuring Agency.

17.1 Venue, time, and date of the pre-Bid meeting (if called):

Venue: *Office of Program Management and Implementation Unit, Sindh Basic Education Program (SBEP), H No 29-D, Block 2, Clifton, Karachi Pakistan.*

Time and date: *As notified in Notice Inviting Tenders (NIT)*

18.4 Number of copies of the Bid to be completed and returned:

One (01) Original plus one (01) copy of all tender documents. However the drawing set shall be acceptable original only with the bidders sign and stamp.

19.2(a) Employer's address for the purpose of Bid submission:

*The Program Director,
Program Management and Implementation Unit,
Sindh Basic Education Program (SBEP),
Education & Literacy Department, Govt. of Sindh
H No 29-D, Block 2, Clifton, Karachi Pakistan
Tel: +92 21 35296931-40
Fax: +92 21 35296935*

19.2(b) Name and Number of the Contract: *Package No: SBEP-P01A-KHR (Balance Work)*

20.1(a) Deadline for submission of bids:

As notified in Notice Inviting Tenders NIT

23.1 Venue, time, and date of Bid opening:

Venue: *Office of Program Management and Implementation Unit, Sindh Basic Education Program (SBEP), H No 29-D, Block 2, Clifton, Karachi Pakistan.*

Date: *As notified in NIT*

Time for opening of bids: *As notified in NIT*

26. Examination of Bids and Determination of Responsiveness:

The bids shall be prepared and submitted as per “Single Stage One Envelope” bidding process. However, it is essential that each bidder shall submit all required data / information as per Appendices to demonstrate responsiveness.

32.1 Standard form and amount of Performance Security acceptable to the Employer:

Performance Security shall be equal to 5% of Contract Amount stated in the Letter of Acceptance. Such Security shall be in the form of unconditional on-demand Bank Guarantee from a Scheduled Bank in Pakistan.

32.3 Validity of Performance Security:

Performance Security shall be valid up to completion of Defects Liability Period.

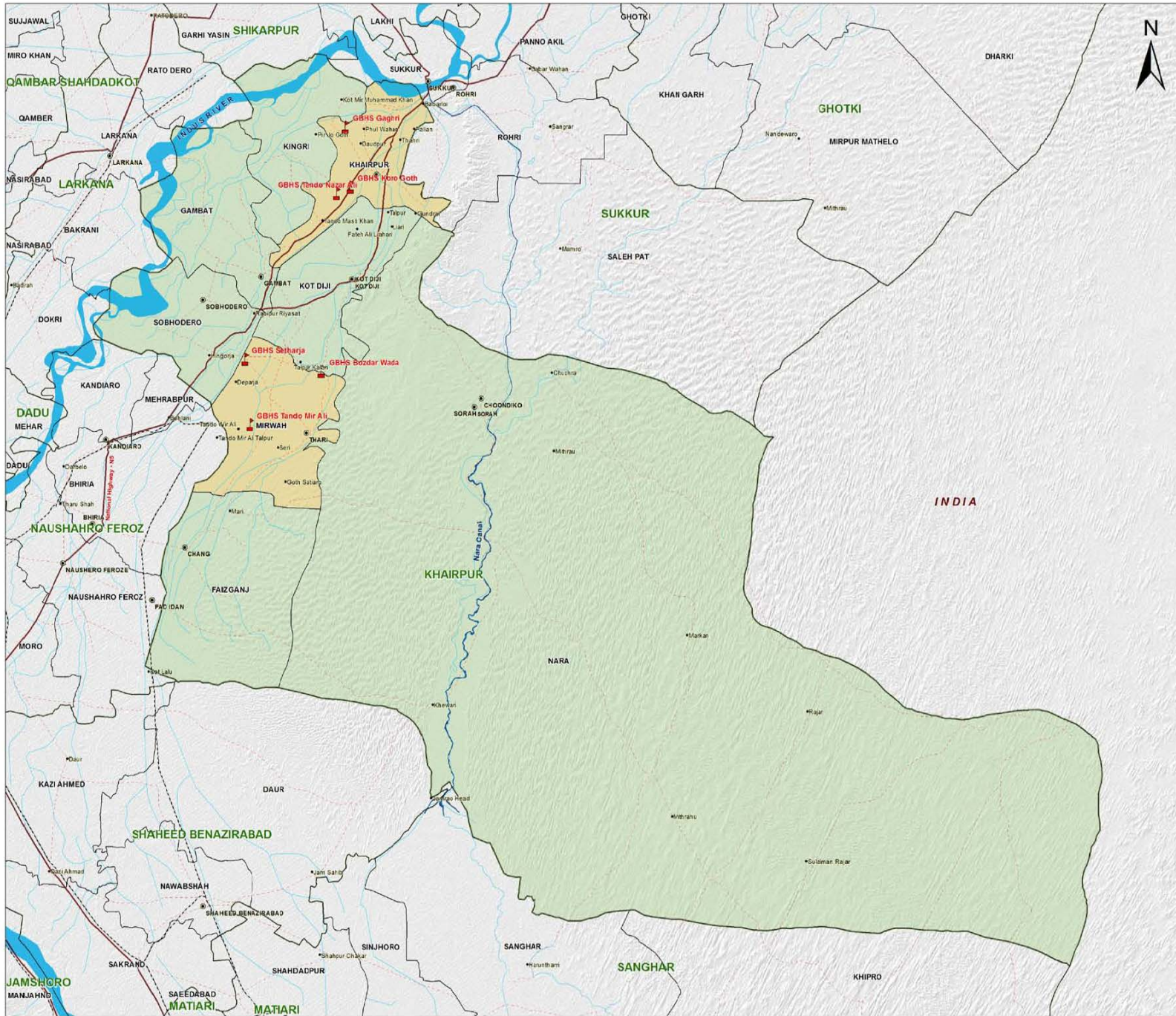
33.3 Signing of Contract Agreement:

Within fourteen (14) days from the date of furnishing acceptable Performance Security, the successful bidder shall bring Contract Agreement (as per format given in Tender Documents) on stamp paper of the value as per Stamp Duty Act- latest version, signed and stamped by him for PMIU’s signature and stamp.

33.4 Stamp duty

Stamp duty on contract agreement or other papers shall be paid by the successful bidder/contractor as per percentage given in Stamp Duty Act- latest version.

SCHOOL'S LOCATION PLAN



- Legend**
- Khairpur/Mirwah Taluka School
 - City / Town
 - Major City
 - District Boundary
 - Khairpur District
 - Taluka Boundary
 - Indus River
 - Nara Canal
 - Railway
 - National Highway
 - Major Road
 - Streams

TENDER ISSUE

0	AMC	BN	SS	RTV	ISSUED FOR TENDER
Number	By	Checked	Approved	Date	Signature



CLIENT
PROJECT MANAGEMENT & IMPLEMENTATION UNIT (PMIU)
GOVT. OF SINDH

Halcrow
 Halcrow Pakistan (Pvt.) Limited
 3rd Floor, Room 4 - West House, Nazim Avenue
 Sector 5-7/1, Durrani Roundabout, Islamabad
 Tel: +92 51 2203461-56 & Fax: +92 51 2203462
 E-mail: halcrow@halcrow.com
 www.halcrow.com

PROJECT
A&E SERVICES FOR SINDH
BASIC EDUCATION PROGRAM

DRAWING
PACKAGE-01 LOCATION PLAN
DISTRICT KHAIRPUR
(TALUKA KHAIRPUR & MIRWAH)

Drawn by	AZA	Date:	FEB, 2013
Checked by	WU	Date:	FEB, 2013
Authorized by	SSB	Date:	FEB, 2013
DRAWING No.	SK-P01-KHR	Revision	0
Drawing Scale: AS SHOWN @ A1			
CDD filename: SK-P01-KHR Plot scale: 1:1 @ A1			

**FORM OF BID
AND
APPENDICES TO BID**

FORM OF BID

Bid Reference No. _____
 (Name of Contract/Works)

To:

1. Having examined the Bidding Documents including Instructions to Bidders, Bidding Data, Conditions of Contract. Specifications, Drawings and Bill of Quantities and Addenda Nos. _____ 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. _____ (Rupees _____) 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. _____), Rupees _____ drawn in your favour or made payable to you and valid for a period of ____ 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 _____ 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.
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.
- 10. We confirm, if our bid is accepted, that all partners of the joint venture shall be liable jointly and severally for the execution of the Contract and the composition or the constitution of the joint venture shall not be altered without the prior consent of the procuring agency.

(Please delete this in case of Bid form a single bidder)

in the capacity of _____duly authorized to sign Bids for and on behalf of

Dated this _____day of _____20_____

Signature: _____

in the capacity of _____duly authorized to sign Bids for and on behalf of

(Name of Bidder in Block Capitals)
(Seal)

Address: _____

Witness:

Signature: _____

Name: _____

Address. _____

Occupation _____

SPECIAL STIPULATIONS
Clause in Conditions of Contract

S.No	Description	*Ref	Summary
1.	Engineer's Authority to issue Variation in emergency	3.1	2% of the Contract Price stated in the Letter of Acceptance.
2.	Amount of Performance Security	4.2	Up to 5% of contract price stated in the Letter of Acceptance. Performance Security shall be in the form of Bank Guarantee from a Schedule bank in Pakistan.
3.	Time for Furnishing Program	8.3	Within 14 days from the date of receipt of Letter of Acceptance.
4.	Minimum amount of Third Party Insurance	18.3	Rs.500,000/- for property damage and Rs.500,000/- for personnel injury / death per occurrence with number of occurrences unlimited.
5.	Time for Commencement	8.1	Within 07 days from the date of receipt of Engineer's Notice to Commence which shall be issued within fourteen (14) days after signing of Contract Agreement or issuance of LOA.
6.	Time for Completion	8.2	12 (Twelve) Calendar Months from the date of receipt of Engineer's Notice to Commence.
7.	a) Amount of Liquidated Damages / Delay Damages/Penalties	8.7	0.08% of Contract Amount for each day of delay in completion of the Works subject to a maximum of 10% of Contract Price stated in the Letter of Acceptance.
	b) Amount of Bonus		Not Applicable
8.	Defects Liability Period	11.1	365 days from the effective date of Taking Over Certificate.
9.	Percentage of Retention Money to be deducted from IPCs	14.2	10 % of the amount of Interim Payment Certificate.
10.	Maximum Limit of Retention Money	14.3	5 % of Contract Price stated in the Letter of Acceptance.
11.	Minimum amount of Monthly Interim Payment Certificates of work done (Running Bills)	14.6	First two IPCs = PKR 05Million, Balance IPCs = 15 Million
12	Time of Payment from delivery of Engineer's Interim Payment Certificate to Procuring Agency.	14.7	28 working days from the Issuance date of Interim Payment Certificate by the Engineer.
13	Interim Payment Certificate for advance payments (Mobilization Advance or Secured Advance etc)	14.2 & 14.5	Intermediate IPCs for Secured Advance or Mobilization Advance may be accepted for minimum amount of 05 million.
14	Mobilization Advance	*14.2	10% of Contract Price stated in the Letter of Acceptance.

*Note: For complete text please Refer related clause in Conditions of Contract

FOREIGN CURRENCY REQUIREMENTS

1. The Bidder may indicate here in below his requirements of foreign currency (any), with reference to various inputs to the Works.
2. Foreign Currency Requirement as percentage of the Bid Price (including Provisional Sums) _____%.
3. Table of Exchange Rates

Unit of Currency	Equivalent in Pak. Rupees
Australian Dollar	-----
Euro	-----
Japanese Yen	-----
U.K. Pound	-----
U.S. Dollar	-----
-----	-----
-----	-----

Not Applicable

**PRICE ADJUSTMENT UNDER CLAUSE 70/13.80
OF CONDITIONS OF CONTRACT**

The source of indices and the weightages or coefficients for use in the adjustment formula under Clause 13.80 shall be as follows:

Cost Element	Description	Weightages	Applicable index
(1)	(2)	(3)	(4)
(i)	Fixed Portion	0.75	
(ii)	Local Labour	0.10	Government of Pakistan (GP) Federal Bureau of Statistics (FBS) Monthly Statistical Bulletin.
(iii)	Cement – in bags	0.05	“ “ “
(iv)	Reinforcing Steel	0.10	“ “ “
	Total	1.00	

Notes:

- 1) Indices for “(ii)”, “(iii)” & “(iv)” are taken from the Government of Pakistan Federal Bureau of Statistics, Monthly Statistical Bulletin. For steel reinforcement the prices for 1/2” dia bar and rates of “unskilled labour” shall be referred for escalation purpose. The base cost indices or prices shall be those applying 28 days prior to the latest day for submission of bids. Current indices or prices shall be those applying 28 days prior to the last day of the monthly billing period.
- 2) Any fluctuation in the indices or prices of materials other than those given above shall not be subject to adjustment of the Contract Price.

BD-1

Appendix-D to Bid

BILL OF QUANTITIES

Please Refer Separate Volume-II for Bill of Quantities

PROPOSED CONSTRUCTION SCHEDULE

Pursuant to Sub-Clause 8.2 of the General Conditions of Contract, the Works shall be completed on or before the date stated in Appendix-A to Bid. The Bidder shall provide as Appendix-E to Bid, the Construction Schedule in the bar chart (CPM, PERT or any other to be specified herein) at least in form of latest MS Project or approved, showing the sequence of work items and the period of time during which he proposes to complete each work item in such a manner that his proposed programme for completion of the whole of the Works and parts of the Works may meet Employer's overall completion targets in days noted below and counted from the date of receipt of Engineer's Notice to Commence. The bidders shall propose completion time for major milestones of the project to ensure effective monitoring:

The contractor shall submit work plan for each school and a comprehensive plan for complete project containing all school units.

<u>Description</u>	<u>Time for Completion</u>
a) Whole Works	12 Calendar Months

The Contractor may propose different completion times for each school building.

Within every school the ideal milestones/cluster of activities for construction of a typical school may be as under for contractor's guidance and monitoring by the Employer:

- | | |
|------|---|
| MS1 | Temporary School facility, demolition and foundation footings <ul style="list-style-type: none"> • Temporary school facilities • Demolition of existing blocks and site clearance • Excavation and Dewatering • Foundation - footing with 1:4:8 PCC and RCC works |
| MS2 | RCC columns upto plinth, plinth beams, protection work and backfill <ul style="list-style-type: none"> • RCC Columns upto plinth level • Plinth beams • Protection (termite, water proofing, coating etc) • Earth filling & backfilling |
| MS 3 | Level 1 Sub-floor and RCC Structural frame <ul style="list-style-type: none"> • PCC sub-floor • Level 1 RCC Columns • Level 1 RCC beams • Level 1 RCC slab |

- MS 4 Level 2 and Roof top RCC Structural frame
- Level 2 RCC Columns
 - Level 2 RCC beams
 - Level 2 RCC slab
 - Level 2 roof top RCC Columns
 - Level 2 roof top RCC beams
 - Level 2 roof top RCC slabs
- MS 5 Level 1 Brick masonry and finishes
- Level 1 Brick masonry
 - Level 1 Electrical and plumbing concealed piping
 - Level 1 Internal plaster, floor and finishes
- MS 6 External Brick facing
- Level 1 Brick facing
 - Level 2 Brick facing
 - Level 2 roof top Brick facing
- MS 7 Level 2 and roof top Brick masonry and finishes
- Level 2 Brick masonry
 - Level 2 Electrical and plumbing concealed piping
 - Level 2 Internal plaster, floor and finishes
 - Level 2 roof top Brick masonry
 - Level 2 roof top Elect and plumb concealed piping
 - Level 2 roof top plaster, roof treatment and finishes
- MS 8 Paint works & Utility Fixtures (electrical & plumbing)
- Level 1 Paint work upto First Floor
 - Level 2 Paint work upto Roof
 - Level 2 Paint work from Roof to Top Roof
 - Level 1 Utility fixtures (Elect and plumbing)
 - Level 2 Utility fixtures (Elect and plumbing)
 - Level 2 roof top Utility fixtures (Elect and plumb)
- MS 9 Infrastructure and external development
- Boundary wall and gate
 - Water supply facilities
 - Sewerage facilities
 - Electrical facilities
 - Walkways and Landscaping
 - Final inspection/testing and commissioning

In all schools, activities listed under Mile Stone MS-1 & 2 have already been completed and some activities are partially completed as mentioned below:

Two Schools (GBLSS Koro Goth & GBHS Tando Mir Ali)

- MS-1 Already completed
- MS-2 Partially completed

Two Schools (GBHS Tando Nazar Ali & GBHS Bozdar Wada)

- MS-1 Already completed
- MS-2 RCC columns upto plinth, plinth beams, protection work and backfill
 - RCC Columns upto plinth level (**already completed**)
 - Plinth beams (**Partially completed**)
 - Protection (termite, water proofing, coating etc.) (**Partially completed**)
 - Earth filling& backfilling (**Partially completed**)

Two Schools (GBHSS Setharja & GBELS Ghagri)

- MS-1 Already completed
- MS-2 RCC columns upto plinth, plinth beams, protection work and backfill
 - RCC Columns upto plinth level (**already completed**)
 - Plinth beams (**Not yet started**)
 - Protection (termite, water proofing, coating etc.) (**Partially completed**)
 - Earth filling& backfilling (**already completed**)

METHOD OF PERFORMING THE WORK

The Bidder is required to submit a narrative outlining the method of performing the Work. The narrative should indicate in detail and include but not be limited to:

1. Organization Chart indicating head office and field office personnel involved in management and supervision, engineering, equipment maintenance and purchasing.
2. Mobilization, the type of facilities including personnel accommodation, office accommodation, provision for maintenance and for storage, communications, security and other services to be used.
3. The method of executing the Works, the procedures for installation of equipment and machinery and transportation of equipment and materials to the site of each school and complete project containing all school units.
4. Arrangements for temporary school academic facilities.
5. Continuity of existing work Joint visit to assess executed work, Define defect liability period for already executed work,

LIST OF MAJOR EQUIPMENT – RELATED ITEMS

The Bidder will provide on Sheet 2 of this Appendix a list of all major equipment and related items, under separate heading for items owned, to be purchased or to be arranged on lease by him to carry out the Works. The information shall include make, type, capacity, and anticipated period of utilization for all equipment which shall be in sufficient detail to demonstrate fully that the equipment will meet all requirements of the Specifications.

LIST OF MAJOR EQUIPMENT

Owned Purchased or Leased	Description of Unit (Make, Model, Year)	Capacity HP Rating	Condition	Present Location or Source	Date of Delivery at Site	Period of Work on Project
(1)	(2)	(3)	(4)	(5)	(6)	(7)
a. Owned						
b. To be Purchased						
c. To be arranged on Lease						

CONSTRUCTION CAMP AND HOUSING FACILITIES

The Contractor in accordance with the Conditions of Contract shall provide description of his construction camp's facilities and staff housing requirements for each school site and for complete project containing all school units.

The Contractor shall be responsible for pumps, electrical power, water and electrical distribution systems, and sewerage system including all fittings, pipes and other items necessary for servicing the Contractor's construction camp.

The Bidder shall list or explain his plans for providing these facilities for the service of the Contract as follows:

1. Site Preparation (clearing, land preparation, etc.).
2. Provision of Services.
 - a) Power (expected power load, etc.).
 - b) Water (required amount and system proposed).
 - c) Sanitation (sewage disposal system, etc.).
3. Construction of Facilities
 - a) Contractor's Office, Workshop and Work Areas (areas required and proposed layout, type of construction of buildings, etc.).
 - b) Warehouses and Storage Areas (area required, type of construction and layout).
 - c) Housing and Staff Facilities (Plans for housing for proposed staff, layout, type of construction, etc.).
4. Construction Equipment Assembly and Preparation (detailed plans for carrying out this activity).
5. Other Items Proposed (Security services, etc.).

LIST OF SUBCONTRACTORS

I/We intend to subcontract the following parts of the Work to subcontractors. In my/our opinion, the subcontractors named hereunder are reliable and competent to perform that part of the work for which each is listed.

Enclosed are documentation outlining experience of subcontractors, the curriculum vitae and experience of their key personnel who will be assigned to the Contract, equipment to be supplied by them, size, location and type of contracts carried out in the past.

Part of Works (Give Details)	Subcontractor (With Complete Address)
(1)	(2)

ESTIMATED PROGRESS PAYMENTS

Bidder's estimate of the value of work which would be executed by him during each of the periods stated below, based on his Programme of the Works and the Rates in the Bill of Quantities, expressed in thousands of Pakistani Rupees:

Quarter/ Year/ Period	Max. upto %age	Amounts (1,000 Rs.)
1 st Quarter	25%	
2 nd Quarter	15%	
3 rd Quarter	10%	
4 th Quarter	25%	
5 th Quarter	*0-15%	
6 th Quarter	*0-15%	
Bid Price		

The Contractor shall submit to 'Project Manager / The Engineer's Cash Flow in 'S-Curve' and update regularly according to the progress payments.

*As per contractors program totaling to both upto 25%

**ORGANIZATION CHART
FOR THE
SUPERVISORY STAFF AND LABOUR**

(To be filled in by the bidder)

The Contractor should have team of reasonably skilled persons in the field of building construction led by a Project Manager (BE Civil) registered in PEC as Professional Engineer, having at least 10 years' experience in the relevant field. The Project Manager should be authorized to take instruction from the Engineer and direct contractor's crew to complete the works in accordance with the specifications.

The Contractor shall depute BE civil site engineers in appropriate number as per law and at least one experienced supervisor (DAE) at each school site to be directly responsible for the execution of works at site. The contractor must employ experienced lab technician in his laboratory to conduct required QA/QC testing at site / lab and to keep record of all tests.

The Contractor shall propose staff for school site and for complete project containing all school units.

(INTEGRITY PACT)

**DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC.
PAYABLE BY THE SUPPLIERS OF GOODS, SERVICES & WORKS CONTRACT**

Contract No. _____ Dated _____
Contract Value: _____
Contract Title: _____

..... [name of Contractor] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Sindh (GoS) or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoS) through any corrupt business practice.

Without limiting the generality of the foregoing, [name of Contractor] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder s fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from, from Procuring Agency (PA) except that which has been expressly declared pursuant hereto.

[name of Contractor] accepts full responsibility and strict liability that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with PA and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[name of Contractor] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to PA under any law, contract or other instrument, be voidable at the option of PA.

Notwithstanding any rights and remedies exercised by PA in this regard, [name of Supplier/Contractor/Consultant] agrees to indemnify PA for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to PA in an amount equivalent to ten time the sum of any commission, gratification, bribe, finder s fee or kickback given by [name of Contractor] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from PA.

Name of Buyer:

Name of Seller/Supplier:

Signature:
[Seal]

Signature:
[Seal]

FORMS

**PERFORMANCE SECURITY
CONTRACT AGREEMENT
MOBILIZATION ADVANCE GUARANTEE/BOND
INDENTURE BOND FOR SECURED ADVANCE**

BID SECURITY
(Bank Guarantee)

Security Executed on _____ (Date)

Name of Surety (Bank) with Address: _____

(Scheduled Bank in Pakistan)

Name of Principal (Bidder) with Address _____

Penal Sum of Security Rupees. _____ (Rs. _____)

Bid Reference No. _____ KNOW ALL

MEN BY THESE PRESENTS, that in pursuance of the terms of the bid and at the request of the said Principal (Bidder) we, the Surety above named, are held and firmly bound unto

_____ (hereinafter called the 'Procuring Agency') in the sum stated above for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Bidder has submitted the accompanying bid dated _____ for Bid No. _____ for _____ (Particulars of Bid) to the said Procuring Agency; and

WHEREAS, the Procuring Agency has required as a condition for considering said bid that the **bidder** furnishes a bid security in the above said sum from a Scheduled Bank in Pakistan or from a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan, to the procuring agency, conditioned as under:

- (1) that the bid security shall remain in force up to and including the date 28 days after the deadline for validity of bids as stated in the Instructions to bidders or as it may be extended by the procuring agency, notice of which extension(s) to the Surety is hereby waived;
- (2) that the bid security of unsuccessful bidders will be returned by the procuring agency after expiry of its validity or upon signing of the Contract Agreement; and
- (3) that in the event of failure of the successful bidder to execute the proposed Contract Agreement for such work and furnish the required Performance Security, the entire said sum be paid immediately to the said procuring agency pursuant to Clause 15.6 of the Instruction to bidders for the successful bidder's failure to perform.

NOW THEREFORE, if the successful bidder shall, within the period specified therefore, on the prescribed form presented to him for signature enter into a formal Contract with the said procuring agency in accordance with his bid as accepted and furnish within twenty eight (28) days of his being requested to do so, a Performance Security with good and sufficient surety, as may be required, upon the form prescribed by the said procuring agency for the faithful performance and proper fulfillment of the said Contract or in the event of non-withdrawal of the said bid within the time specified for its validity then this obligation shall be void and of no effect, but otherwise to remain in full force and effect.

PROVIDED THAT the Surety shall forthwith pay the procuring agency, the said sum upon first written demand of the procuring agency (without cavil or argument) and without requiring the procuring agency to prove or to show grounds or reasons for such demand, notice of which shall be sent by the procuring agency by registered post duly addressed to the Surety at its address given above.

PROVIDED ALSO THAT the procuring agency shall be the sole and final judge for deciding whether the Principal (Bidder) has duly performed his obligations to sign the Contract Agreement and to furnish the requisite Performance Security within the time stated above, or has defaulted in fulfilling said requirements and the Surety shall pay without objection the said sum upon demand from the procuring agency forthwith and without any reference to the Principal (Bidder) or any other person.

IN WITNESS WHEREOF, the above bounden Surety has executed the instrument under its seal on the date indicated above, the name and seal of the Surety being hereto affixed and these presents duly signed by its undersigned representative pursuant to authority of its governing body.

SURETY (Bank)

WITNESS:

Signature

1.

Name

Title

Corporate Secretary (Seal)

Corporate Guarantor (Seal)

2.

Name, Title & Address

**FORM OF PERFORMANCE SECURITY
(Bank Guarantee)**

Guarantee No. _____
 Executed on _____
 Expiry date _____

[Letter by the Guarantor to the Employer]

Name of Guarantor (Bank) with address: _____
 (Scheduled Bank in Pakistan)

Name of Principal (Contractor) with address: _____

Penal Sum of Security (express in words and figures) _____

Letter of Acceptance No. _____ Dated _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bidding Documents and above said Letter of Acceptance (hereinafter called the Documents) and at the request of the said Principal we, the Guarantor above named, are held and firmly bound unto the _____ (hereinafter called the Employer) in the penal sum of the amount stated above for the payment of which sum well and truly to be made to the said Employer, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal has accepted the Employer's above said Letter of Acceptance for _____ (Name of Contract) for the _____ (Name of Project).

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the Employer, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue till all requirements of Clause 11, Defects Liability, of Conditions of Contract are fulfilled.

Our total liability under this Guarantee is limited to the sum stated above and it is a condition of any liability attaching to us under this Guarantee that the claim for payment in writing shall be received by us within the validity period of this Guarantee, failing which we shall be discharged of our liability, if any, under this Guarantee.

We, _____ (the Guarantor), waiving all objections and defences under the Contract, do hereby irrevocably and independently guarantee to pay to the Employer without delay upon the Employer's first written demand without cavil or arguments and without requiring the Employer to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the Employer's written declaration that the Principal has refused or failed to perform the obligations under the Contract which payment will be effected by the Guarantor to Employer's designated Bank & Account Number.

PROVIDED ALSO THAT the Employer shall be the sole and final judge for deciding whether the Principal (Contractor) has duly performed his obligations under the Contract or has defaulted in fulfilling said obligations and the Guarantor shall pay without objection any sum or sums up to the amount stated above upon first written demand from the Employer forthwith and without any reference to the Principal or any other person.

IN WITNESS WHEREOF, the above-bounden Guarantor has executed this Instrument under its seal on the date indicated above, the name and corporate seal of the Guarantor being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Guarantor (Bank)

Witness:

1. _____

Signature _____

Corporate Secretary (Seal)

Name _____

Title _____

2. _____

Name, Title & Address

Corporate Guarantor (Seal)

FORM OF CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT (hereinafter called the “Agreement”) made on the _____ day of _____(month) 2014 between _____ (hereafter called the “Employer”) of the one part and _____ (hereafter called the “Contractor”) of the other part.

WHEREAS the Employer is desirous that certain Works, viz _____ 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;
 - (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) _____ (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.

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

(Seal)

Signature of Employer

(Seal)

Signed, Sealed and Delivered in the presence of:

Witness:

(Name, Title and Address)

Witness:

(Name, Title and Address)

MOBILIZATION ADVANCE GUARANTEE

Guarantee No. _____ Date _____

WHEREAS _____ (hereinafter called the 'Employer') has entered into a Contract for

_____ (Particulars of Contract)

with _____ (hereinafter called the "Contractor").

AND WHEREAS, the Employer has agreed to advance to the Contractor, at the Contractor's request, an amount of Rupees _____ (Rs _____) which amount shall be advanced to the Contractor as per provisions of the Contract.

AND WHEREAS, the Employer has asked the Contractor to furnish Guarantee to secure the mobilization advance for the performance of his obligations under the said Contract.

AND WHEREAS, _____

(Scheduled Bank in Pakistan)

(hereinafter called the "Guarantor") at the request of the Contractor and in consideration of the Employer agreeing to make the above advance to the Contractor, has agreed to furnish the said Guarantee.

NOW, THEREFORE, the Guarantor hereby guarantees that the Contractor shall use the advance for the purpose of above mentioned Contract and if he fails and commits default in fulfilment of any of his obligations for which the advance payment is made, the Guarantor shall be liable to the Employer for payment not exceeding the aforementioned amount.

Notice in writing of any default, of which the Employer shall be the sole and final judge, on the part of the Contractor, shall be given by the Employer to the Guarantor, and on such first written demand, payment shall be made by the Guarantor of all sums then due under this Guarantee without any reference to the Contractor and without any objection.

This Guarantee shall remain in force until the advance is fully adjusted against payments from the Interim Payment Certificates of the Contractor or until _____ whichever is earlier.

(Date)

The Guarantor's liability under this Guarantee shall not in any case exceed the sum of Rupees _____ (Rs _____).

This Guarantee shall remain valid up to the aforesaid date and shall be null and void after the aforesaid date or earlier if the advance made to the Contractor is fully adjusted against payments from Interim Payment Certificates of the Contractor provided that the Guarantor agrees that the aforesaid period of validity shall be deemed to be extended if on the above mentioned date the advance payment is not fully adjusted.

INDENTURE FOR SECURED ADVANCES

(For use in cases in which is contract is for finished work and the contractor has entered into an agreement for the execution of a certain specified quantity of work in a given time).

This INDENTURE made the day of
..... 20..... BETWEEN (hereinafter called "the Contractor"
which expression shall where the context so admits or implied be deemed to include his
heirs, executors, administrators and assigns) of the one part and THE GOVERNOR OF
SINDH (hereinafter called "the Government" of the other part).

WHEREAS by an agreement, dated (hereinafter called the said agreement, the
contractor has agreed to perform the under-mentioned works (hereinafter referred to as the said
work):- (Here enter (the description of the works). 1

AND WHEREAS the contractor has applied to the
.....for an advance to him of Rupees
(Rs.) on the security of materials absolutely belonging to him and brought by
him to the site of the said works the subject of the said agreement for use in the
construction of such of the said works as he has under taken to execute at rates fixed for the
finished work (inclusive of the cost of materials and labour and other charge) AND

WHEREAS the Government has agreed to advance to the Contractor the sum of Rupees, (Rs.
.....) on the security of materials the quantities and other particulars of which are
detailed in Part II of Running Account Bill (B). the said works signed by the contractor Fin
R.Form.17.A On and on such covenants and conditions as
are hereinafter contained and the Government has reserved to itself the option of
marking any further advance or advances on the security of other materials brought by the
Contractor to the site of the said works.

NOW THIS INDENTURE WTTNESSETH that in pursuance of the said
agreement and in consideration of the sum of Rupees..... (Rs.
.....) on or before the execution of these presents paid to the Contractor by the
Government (the receipt whereof the Contractor doth hereby acknowledge) and of such further
advances (if any) as may be made to him as aforesaid (all of which advances are
hereinafter collectively referred to as the said amount) the Contractor doth her eby assign
unto the Government the said materials by way of security for the said amount And doth
hereby covenant and agree with the Government and declare ay follow :-

- (1) That the said sum of Rupees.
Rs.....) so advanced by the Government to the Contractor as aforesaid and all or any further sum or sums which may be advanced as aforesaid shall be employed by the contractor in or towards expending the execution of the said works and for no other purpose whatsoever.
- (2) That the materials detailed in the said Running Account Bill (B) which have been offered to and accepted by (he Government as security for the said amount are absolutely by the Contractors own property free from encumbrances of any kind and the Contractor will not make any application for or receive a further advance on the security of materials which are not absolutely his own property and free from encumbrances of any kind and the contractor hereby agrees, at all times, to indemnify and save harmless the Government against all claims whatsoever to any materials in respect of which an advance has been made to him as aforesaid.
- (3) That the said materials detailed in the said Running Account Bill (B) and all other materials on the security of which any further advance or advances may hereafter be made as aforesaid (hereinafter called the said materials) shall be used by the Contractor solely in *the* execution of the said works in accordance with the directions of the Divisional Officer (hereinafter called the Divisional Officer) and in the terms of the said agreement.
- (4) That the Contractor shall make at his own cost all necessary and adequate arrangement for the proper watch, safe custody and protection against all risks of the said material and that until used in construction as aforesaid the said materials shall remain at the site of the said works in the Contractor's custody and at his own risk and on his own responsibility and shall at all times be open to inspection by (he Divisional Officer or any officer authorized by him. In the event of the said materials of any part (hereof being stolen, destroyed or damaged or becoming deteriorated in a greater degree than is due to reasonable use and wear thereof Contractor will forthwith replace the same with other materials of like quality or repair and make good the same as required by the Divisional Officer and the materials so brought to replace the said materials so repaired and made good shall also be considered as security for the said amount.
- (5) 'Hurt the said materials shall not on any account be removed from the site of the said works except with the written permission of the Divisional officer or an officer authorized by him in that behalf
- (6) That the said amount shall be payable in full when or before the Contractor receives payment, from the Government of the price payable to him for the said works under the terms and provisions of the said agreement PROVIDED THAT if any intermediate payments are made to the contractor on account of work done then on the occasion of each such payment the Government will be at liberty to make a recovery from the Contractors Bill for such payment by deducting there from in the value of the said materials (hen actually used in the construction and in respect of which recovery has not been made previously the value for this purpose being determined in r espect of each description of material at (he rates at which the amount of the advances made under these presents were calculated.

- (7) at if the Contractor shall at any time make any default in the performance or observation in any respect of any of the terms and provisions of the said agreement or of these presents the total amount of the advance or advances that may still be owing to the Government shall immediately on the happening of such default be repayable by the Contractor to the Government together with interest thereon at twelve percent per annum from the date or respective dates of such advance or advances to the date of repayment and with all costs, charges, damages and expenses incurred by the Government in or for the recovery thereof or the enforcement of this security or otherwise by reason of the default of the Contractor and any moneys so becoming due and payable shall constitute a debt due from the Contractor to the Government and the Contractor hereby covenants and agrees with the Government to repay and the same respectively to it accordingly.
- (8) That the Contractor hereby charges all the said materials with the repayment to the Government of the said sum of Rupees(Rs.....) and any further sum or sums which may be advanced as aforesaid and all costs charges damages and expenses payable under these present PROVIDED ALWAYS and it is hereby agreed and declared that not, withstanding anything in the said agreement and without prejudice to the powers contained therein if and whether the covenant for payment and repayment hereinbefore contained shall become enforceable and the money owing shall not be paid to accordingly. Once there with the Government may at any time thereafter adopt all or any of following courses as it may deem best :-
- (a) Seize and utilize the said materials or any part thereof in the completion of the said works on behalf of the Contractor in accordance with the provisions in that behalf contained in the said agreement debiting the Contractor with the actual cost of effecting such completion the amount due in respect of advances under these presents and crediting the Contractor with the value of work done as he had carried it out in accordance with the said agreement and at the rates thereby provided. If the balance is against the Contractor he is to pay the same to the Government on demand.
- (b) Remove and sell by public auction the seized materials or any part thereof and out of the moneys arising from the sale retain all the sums aforesaid repayable to the Government under these presents and pay over the surplus (if any) to the Contractor.
- (c) Deduct all or any part of the moneys owing out of the security deposit or any sum due to the Contractor under the said agreement.
- (9) That except as is expressly provided by the presents interest on the said advance shall not be payable.
- (10) That in the event of any conflict between the provisions of these presents and the said agreement the provisions of these presents shall prevail and in the event of any dispute or difference arising over the construction or effect of these presents the settlement of which has not been hereinbefore expressly provided for the same shall be referred to the Superintending Engineer/Executive District Officer/Officer one grade higher to officer signed the agreement Circle whose decision shall be final and the provisions of the Arbitration Act 1940 for the time being in force so far as they are applicable shall apply to any such reference.

- 1. Signature _____
- 2. Name _____
- 3. Title _____

WITNESS

1. _____
(Name Title & Address)

Corporate Secretary (Seal)

2. _____
(Name Title & Address)

Corporate Guarantor(Seal)

(GENERAL CONDITIONS OF CONTRACT PART-I)

Conditions of Contract
CONSTRUCTION for

FOR BUILDING AND ENGINEERING
WORKS DESIGNED BY THE EMPLOYER

Multilateral Development Bank Harmonized Edition
March 2006
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FEDERATION INTERNATIONALE DES INGENIEURS-CONSEILS
INTERNATIONAL FEDERATION OF CONSULTING ENGINEERS
INTERNATIONALE VEREINIGUNG BERATENDER INGENIEURE
FEDERACION INTERNACIONAL DE INGENIEROS CONSULTORES

(It is presumed that all the bidders possess original copy of FIDIC for their reference while preparation of Bid and copy of the same is also required to submit at the time of signing of Contract Agreement)

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PART II - SPECIAL /PARTICULAR CONDITIONS OF CONTRACT

1.1 Definitions

1.1.1.4 “Form of Bid” is synonymous with “Letter of Tender”.

1.1.1.8 “Bid” is synonymous with “Tender”.

1.1.1.10 “Bidding” is synonymous with “contract”.

The following paragraph is added:

1.1.1.11 “Programme” means the programme to be submitted by the contractor in accordance with Sub-Clause 8.3 and any approved revisions thereto.

1.1.2.4 The Engineer is Halcrow Pakistan, 4th Floor Nawa e waqt Building, zero point Islamabad, or any other competent person appointed by the Employer, and notified to the Contractor, to act in replacement of the Engineer. Provided always that except in cases of professional misconduct, the outgoing Engineers is to formulate his certifications/recommendations in relation to all outstanding matters, disputes and claims relating to the execution of the Works during his tenure. “Project Manager” shall be considered as synonymous to “The Engineer” or vice versa where used in the Bidding Documents.

1.12.2 “Employer” is synonymous with “Procuring Agency”

1.1.2.9 “DAB” is synonymous with “Committee”.

1.1.3.7 “Defects notification Period” is synonymous with “Defects liability Period”.

1.4 Law and Language(s)

- (a) The Contract Documents shall be drawn up in the English language.
- (b) The Contract shall be subject to the Laws of Islamic Republic of Pakistan.

1.5 Priority of Contract Documents

Add following paragraph at the end of Sub-clause:

In case of discrepancies between drawings, those of larger scale shall govern unless they are superseded by a drawing of later date regardless of scale. All Drawings and Specifications shall be interpreted in conformity with the Contract and these Conditions. Addendum, if any, shall be deemed to have been incorporated at the appropriate places in the documents forming the Contract.

1.15 Inspections and Audit by the Procuring Agency

The Contractor shall give access to Procuring Agency or its representative to its record and audit to verify the funds of the project has been used for the purposes intended in the Tender documents.

3.1 Engineer's Duties and Authority.

The following paragraph is added after duties:

Procuring agency shall ensure that the Engineer's Representative/Staff is a professional Engineer as defined in the Pakistan Engineering Council Act 1975 (V of 1976)

The Engineer shall obtain the specific approval of the Employer before carrying out his duties in accordance with the following Clauses:

- (i) Consenting to the sub-letting of any part of the Works under Sub-Clause 4.4 "Subcontracting".
- (ii) Certifying additional cost determined under Sub-Clause 4.12 "Not Foreseeable Physical Obstructions or Conditions".
- (iii) Any action under Sub-Clause 4.2 "Performance Security" and Clause 18 "Insurance" of sorts.
- (iv) Any action under Clause 16 "Suspension".
- (v) Any action under Clause 8.4 "Extension of Time for Completion".
- (vi) Any action under Clause 8.7 "Delay Damages" or Payment of Bonus for Early Completion of Works.
- (vii) Issuance of "Taking-Over Certificate" under Clause 10.
- (viii) Issuing a Variation Order under Clause 13, except:
 - a) in an emergency* situation, as stated here below, and
 - b) if such variation would increase the Contract Price by less than the amount stated in the Appendix-A to Bid.
- (ix) Fixing rates or prices under Clause 13.3.
- (x) Extra payment as a result of Contractor's claims under Clause 20.
- (xi) Release of Retention Money to the Contractor under Sub-Clause 14.9 "Payment of Retention Money".
- (xii) Issuance of "Final Payment Certificate" under Sub-Clause 14.11 & 14.13.
- (xiii) Issuance of "Defect Liability Certificate" under Sub-Clause 11.

* (The Contractor shall notify the Engineer at the earliest opportunity of specific likely future events or circumstances that may adversely affect the work, and if in the opinion of the Engineer an emergency occurs (whether notified by the Contractor or not) affecting the safety of life or of the Works or of adjoining property, the Engineer may, without relieving the Contractor of any of his duties and responsibilities under the Contract, instruct the Contractor to execute all such work or to do all such things as may, in the opinion of the Engineer, be necessary to abate or reduce the risk. The Contractor shall forthwith comply with any such instruction of the Engineer. The Engineer shall determine an addition to the Contract Price, in respect of such instruction, in accordance with Clause 13 and shall notify the Contractor accordingly, with a copy to the Employer.)

The following sub-clause 3.6 is added in (GCC):

3.6 Engineer Not Liable

Approval, reviews and inspection by the Engineer of any part of the Works does not relieve the Contractor from his sole responsibility and liability for the supply of materials, plant and equipment for construction of the Works and their parts in accordance with the Contract and neither the Engineer's authority to act nor any decision made by him in good faith as provided for under the Contract whether to exercise or not to exercise such authority shall give rise to any duty or responsibility of the Engineer to the Contractor, any Subcontractor, any of their representatives or employees or any other person performing any portion of the Works.

4.2 Performance Security

Delete and replace '28' days with '14' days wherever found in the sub-clause.

Add the following text at the end;

The Performance Security shall be binding irrespective of changes in the quantities or variations in the Works or extensions in Time for Completion of the Works which are granted or agreed upon under the provisions of the Contract.

4.3 Contractor's Representative

The following text is to be added after last line:

The contractor's authorized representative and his other professional engineers working at site shall be registered with the Pakistan Engineering Council.

In case the Contractor fails to appoint his representative / PM and other staff, minimum stated in Appendix-K to bid, the Engineer may order to stop complete or appropriate portion of work at site until Contractor fulfills the requirement of staff employment.

Following are added after sub clause 4.24;

4.25 Vesting of Contractor's Plant, Equipment Temporary Works and Materials:

(a) Definitions

For the purpose of Sub-Clause 4.17.

- i) The expression "Construction Plant" shall be deemed to exclude vehicles engaged in transporting any labour equipment or materials to or from the site.
- ii) The expression "Essential Hired Plant" shall mean all Constructional Plant, Equipment Temporary Works and materials of Temporary Work the withdrawal of which in the event of termination under Sub-Clause 15.2 hereof might (having regard to the methods of construction employed prior to the termination) endanger the safety or stability of or result in serious disturbance to the execution of any part of the Works and which are held by the Contractor under any agreement for hire thereof.
- iii) The expression "Hired Plant" shall mean any Constructional Plant, Equipment, Temporary Works (other than essential hired plant) held by the Contractor under any agreement for hire thereof.

- iv) The expression "Agreement for Hire" shall be deemed not to include an agreement for hire purchase with an option to purchase or for conditional sale either of which is herein referred to as an "agreement for the purchase".
- v) The expression "Hire Purchase Plant" shall mean any Constructional Plant, Equipment, Temporary Works held by the Contractor under an agreement for hire purchase thereof.
- vi) The expression "owner" means the owner of the plant and equipment of any Hire Purchase Plant.

(b) Vesting of Certain Plant

All Constructional Plant, Equipment, Temporary Works and material owned by the Contractor or by any company in which the Contractor has a controlling interest shall when brought on to the site (or in the case of hire purchase plant upon becoming the property of the Contractor) and shall be deemed to become the property of the Employer.

(c) Conditions of Hire of Certain Plant

With a view to securing in the event of termination Sub-Clause 15.2 hereof the continued availability for the purpose of executing the Works of any essential hired plant and equipment the Contractor shall not bring on to the Site any essential hired plant unless the agreement for hire thereof contains a provision that the owner will on request in writing made by the Employer within 7 days after the date on which any such termination has become effective and on the Employer undertaking to pay all hire charges in respect thereof on the same terms in all respects as the same was hired to the contractor save that the Employer shall be entitled to permit the use thereof by any other contractor employed by it for the purposes of completing the works under the terms of Sub-Clause 15.2 hereof.

(d) Costs for purpose of Approval of Materials not implied

In the event of the Employer entering into any agreement for hire of essential hired plant pursuant to the contract provisions, all sums properly paid by the Employer under the provisions of any such agreement and all expenses incurred by it (including stamp duties) in entering into such agreement shall be deemed for the purpose of Sub-Clause 15.2 hereof to be part of the cost of completing the Works.

(e) Contractor's Certificate as to Hiring Provisions

The Contractor shall upon request made by the Engineer at any time in relation to any item of essential hired plant forthwith notify to the Engineer in writing the name and address of the owner and shall certify that the agreement for the hire thereof contains a provision in accordance with the requirements of Approval of Materials not Implied. The Contractor shall also upon request as aforesaid give a like notification (but without certificate) in regard to any hire purchase plant.

(f) Hire Purchase Payment by the Employer

The Employer shall in order to avoid seizure by the owner of any hire purchase plant be entitled to pay to such owner the amount of any overdue installment or other sum payable optionally or otherwise under any Agreement of hire purchase and in the event of his doing so any amount so paid by him shall be debt due from the Contractor to the Employer and may be deducted by the Employer from any moneys

due or that may become due to the Contractor under the Contract or may be recovered by the Employer from the Contractor at law.

(g) Irrevocability of Certain Plant etc.

No Constructional Plant, Equipment Temporary Works or materials or any part thereof shall be removed from the site without the written consent of the Engineer which consent shall not be unreasonably withheld where the same is no longer immediately required for the purposes of completion of the Works but the Employer will permit the Contractor the exclusive use of all such Constructional Plant, Equipment, Temporary Works and materials in and for the completion of the Works until the occurrence of any event which gives the Employer the right to expel the Contractor from the site and proceed with the completion of the Works.

(h) Re-vesting and Removal of Plant

Upon the removal with the consent of the Engineer of any such Constructional Plant Equipment, Temporary Works or materials as have been deemed to have become the property of the Employer, the property therein shall be deemed to re-vest in the Contractor and, upon completion of the Works the property in the remainder of such Constructional Plant, Equipment, Temporary Works and materials as aforesaid shall subject to the provisions of Sub-Clause 15.2 be deemed to re-vest in the Contractor who shall remove the same together with any essential hired plant or hire purchase plant. If the Contractor shall fail to remove any Constructional Plant, Equipment, Temporary Works or materials as aforesaid or any essential hire plant or hire purchase plant within such reasonable time after completion of the Works as may be allowed by the Engineer then the Employer may:

- i) Sell any such Constructional Plant, Equipment, Temporary Works and materials as aforesaid, and
- ii) return at the Contractor's expenses to the person firm or company from whom any Essential Hired Plant or any Hire Purchase Plant was held by the Contractor such essential hired plant or hire purchase plant, and after deducting from any proceeds of sale, the costs, charges and expenses of and in connection with such sale and return as aforesaid shall pay the balance (if any) to the Contractor but to the extent that the proceeds of any sale are insufficient to meet all such cost, charges and expenses the excess shall be a debt due from the Contractor to the Employer and shall be deductible or recoverable by the Employer accordingly as aforesaid.

(j) Liability for loss or injury to plant

The Employer shall not at any time be liable for the loss of or injury to any of the Constructional plant, Temporary Works or materials which have been deemed to become the property of the Employer, hereof save as mentioned in Sub-Clause 20 hereof.

(k) Incorporation of Sub-Clause in Sub-Contracts

The Contractor shall when entering into any sub-contract for the execution of any part of the Works incorporate in such sub-contract (by reference or otherwise) the provisions of this Sub-Clause in relation to Constructional Plant, Temporary Works and materials. Essential Hired Plant and Hire Purchase Plant to be brought on the Site by the sub-contractor.

- (l) Approval of Materials etc., not implied

The contractor's operation shall not be deemed to imply any approval by the Engineer of the materials or other matters referred to therein nor shall it prevent the rejection of any materials at any time by the Engineer.

6.9 Engineer at Liberty to Object

The following is added at the end of sub clause in General Conditions of Contract:

If the Employer asks the Engineer to direct Contractor to remove a person who is a member of his staff or workforce stating the reasons the Contractor shall ensure that the person leaves the site immediately and has no further connection with the work in the Contract.

6.10 Records of Contractor's Personnel and Equipment

The following paragraph is added:

The Contractor shall, upon request by the Engineer at any time in relation to any item of hired Contractor's Equipment, forthwith notify the Engineer in writing the name and address of the Owner of the equipment and shall certify that the agreement for the hire thereof contains a provision in accordance with the requirements set forth above.

Add the following sub-clause at the end of 6.22 in (GCC)

6.23 Compliance by Subcontractors

The Contractor shall be responsible for compliance by his Subcontractors of the provisions of this Clause.

The following sub-clause 7.9 is added in (GCC)

7.9 Use of Pakistani Materials and Services

The contractor shall, so far as may be consistent with the contract, make the maximum use of materials, supplies, plant and equipment indigenous to or produced or fabricated in Pakistan and services, available in Pakistan provided such materials, supplies, plant, equipment and services shall be of required standard.

8.1 Commencement of Works

The last Para is deleted and substituted with the following:

The contractor shall commence the works on site within the period named in Appendix-A to Bid from the date of receipt by him from the Engineer of a written Notice to Commence. Thereafter, the contractor shall proceed with the works with due expedition and without delay.

8.3 Programme

The following paragraphs are added:

The programme/schedule shall be submitted in the form of Critical Path Method (CPM) identifying the critical path/activities, in hard form as well as in soft form in latest version of MS Project or as agreed with the Engineer.

- a) The Contractor shall submit to the Engineer detailed programme for the following:
- (1) Execution of Works;
 - (2) Key Deliverables and submittals
 - (3) Labour Resources;
 - (4) Local Material Procurement;
 - (5) Material Imports, if any; and
 - (6) Other details as required by the Engineer.
- b) If Contractor fails to submit updated work schedule within the time instructed by the Engineer/Project Manager, the Engineer/Project Manager may withhold an amount at his discretion from next due amount and continue to withhold this amount until the next payment after the date on which the overdue program has been submitted.
- (c) During the period of the Contract, the Contractor shall submit to the Engineer no later than the 8th day of the following month, 04 copies each of Monthly Progress Reports covering:
- (1) Progress update of the project program/schedule indicating the monthly progress in percentages with actual start and finish dates;
 - (2) Description of all work carried out since the last report;
 - (3) Description of the work planned for the next 56 days sufficiently detailed to enable the Engineer to determine his programme of inspection and testing;
 - (4) Monthly summary of daily job record; and
 - (5) Information about problems and difficulties encountered, if any, and proposals to overcome the same.
- (d) During the period of the Contract, the Contractor shall keep a daily record of the work progress, which shall be made available to the Engineer as and when requested. The daily record shall include particulars of weather conditions, number of men working, deliveries of materials, quantity, location and assignment of Contractor's equipment.
- (e) The detailed Cash Flow Estimate shall be submitted within 21 days from the date of receipt of Letter of Acceptance

8.11 Prolonged Suspension

Replace 84 days by 120 days.

13.1 Right to vary

In the last line of last Para, after the word "Variation", the word "in writing" is added.

13.3 Variation procedure

In the 2nd line, after the words "as soon as practicable" following is added: "and within a period not exceeding one-eighth of the completion time"

13.8 Adjustment for changes in cost

The following provision is added for Bidding Contracts:

The amounts payable to the Contractor, pursuant to Sub-Clause 14.6, shall be adjusted in respect of the rise or fall in the cost of materials only, and will be paid to the contractor on those items mentioned in the **Appendix –C (BC-1)**.

Similarly reduction in the cost of these materials will also be recovered from the contractor accordingly.

To the extent that full compensation for any rise or fall in costs to the Contractor is not covered by the provisions of this or other Clauses in the Contract, the unit rates and prices included in the Contract shall be deemed to include amounts to cover the contingency of such other rise or fall of costs.

Add the following sub clauses at the end of 13.80;

(a) Base, Current, and Provisional Indices

The base cost indices or prices shall be those prevailing on the day 28 days prior to the latest date for submission of bids. Current indices or prices shall be those prevailing on the day 28 days prior to the last day of the period to which a particular monthly statement is related. If at any time the current indices are not available, provisional indices as determined by the Engineer will be used, subject to subsequent correction of the amounts paid to the Contractor when the current indices become available.

If any adjustable item(s) as stated in Appendix-C is not used in a particular billing period then the ratio of current date price and base date price for that particular adjustable item(s) shall be considered as one.

(b) Adjustment during extension period after stipulated Completion date

If the Contractor fails to complete the Works within the Time for Completion prescribed under Clause 8.2, adjustment of prices thereafter until the date of completion of the Works shall be made using either the indices or prices relating to the prescribed time for completion, or the current indices or prices, whichever is more favorable to the Employer, provided that if an extension of time is granted pursuant to Clause 8.4, the above provision shall apply only to adjustments made after the expiry of such extension of time.

(f) Weightages

The weightages for each of the factors of cost given in Appendix-C to Bid shall be adjusted if, in the opinion of the Engineer, they have been rendered unreasonable, unbalanced, or inapplicable as a result of varied or additional work executed or instructed under Clause 13. Such adjustment(s) shall have to be agreed in the variation order.

14.1 The Contract Price

Sub-para (d) is deleted.

14.2 Advance Payment

The Text is deleted and replaced with following:

Advance Payment/Mobilization Advance shall be made available to the Contractor by the procuring agency on following conditions:

Mobilization Advance/Advance Payment

- (i) Mobilization advance up to 10 % of the Contract Price may be paid by the procuring agency to the Contractor on the works costing Rs2.5 million or above on following conditions:
 - a. on submission by the Contractor of a mobilization advance guarantee for the full amount of the advance in the form of Bank Guarantee, from a Scheduled Bank in Pakistan, acceptable to the procuring agency;
 - b. The contractor shall pay interest on the mobilization advance at the rate of 10% per annum on the advance;

- c. First half (50%) within 14 days after signing of the Contract Agreement or date of receipt of Engineer's Notice to Commence, whichever is earlier; and
 - d. Second half (50%) to the state of mobilization of the Contractor achieved up to the satisfaction of the Engineer.
- (ii) The payment for Mobilization Advance will be recommended by the Engineer as per conditions (i)a to (i)d stated above in 03 working days of receipt of application submitted by the Contractor along with all required documents/enclosures as acceptable by the Engineer. The Procuring Agency will take minimum of 7 working days for processing such payments against Mobilization Advance or Secured Advance upon receiving of IPC issued by the Engineer.
 - (v) This Advance including interest shall be recovered in equal installments; recovery shall start from first installment at the expiry of second month after the date of payment of first part of Advance and the last installment one month before the date of completion of the Works as per Contract. However, the contractor has option to pay back more amount than the installment for early recovery.

14.3 Application for Interim Payment Certificate

The Text is added at the end of sub clause 14.3 as follows:

The Contractor shall submit a certificate signed and stamped by the contractor, certifying that the Contractor has paid all dues of the materials, suppliers, workmen and subcontractors for the works whose payment is claimed in this Application of Interim Payment.

14.5 Plants and Materials intended for Works

Add the following paragraph as sub-clause 14.5 (d) for Secured Advance on non – perishable materials and sub-clauses (a), (b) and (c) will be applicable for plants and materials :-

- 14.5 (d)** (I) The Contractor shall be entitled to receive from the procuring agency Secured Advance against an INDENTURE BOND in Public Works Account Form No.31 (Fin. R. Form No.2) acceptable to the procuring agency of such sum as the Engineer may consider proper in respect of non-perishable materials brought at the site but not yet incorporated in the Permanent Works
Provided that:
- (i) The materials are in accordance with the specifications for the permanent works;
 - (ii) Such materials have been delivered to the site and are properly stored and protected against loss or damage or deterioration to the satisfaction and verification of the Engineer/ Engineer's Representative but at the risk and cost of the Contractor;
 - (iii) The Contractor's records of the requirements, orders, receipts and use of materials are kept in a form approved by the Engineer, and such records shall be available for inspection by the Engineer;
 - (iv) The Contractor shall submit with his monthly statement the estimated value of the materials on site together with such documents as may be required by the Engineer for the purpose of valuation of materials and providing evidence of ownership and payment therefore;

- (v) Ownership of such materials shall be deemed to vest in the procuring agency and these materials shall not be removed from the site or otherwise disposed of without written permission of the procuring agency;
- (vi) The sum payable for such materials on site shall not exceed 75 % of the (i) landed cost of imported materials, or (ii) ex-factory / ex-warehouse price of locally manufactured or produced materials, or (iii) market price of stands other materials;
- (vii) Secured Advance shall not be allowed unless and until the previous advance, if any, is substantially recovered;
- (viii) Detailed account of advances must be kept in part II of running account bill or a separate statement; and
- (ix) Secured Advance may be permitted only against materials/quantities anticipated to be consumed / utilized on the work within a period of 3 months from the date of issue of secured advance and in no case for full quantities of materials for the entire work/contract.
- (x) The words “non-perishable materials” occurring in this Clause is limited to the following materials only.
 - a) Steel reinforcement
 - b) Cement

(II) The recommendation for Payment of Secured Advance will be made by the Engineer as Interim Payment Certificate within 03 days of receipt of application from Contractor along with all required documents/ enclosures at the end of month or before that separately in the same month.

(III) Recovery of Secured Advance:

Secured Advance paid on non-perishable materials to the Contractor under the above provisions shall be recovered from the monthly payments on actual consumption basis, but not later than period specified in the rules not more than three months (even if unutilized).

14.7 Payment

For Payment of Interim Payment Certificates for work done, delete and replace 56 days with 42 days, out of which 14days shall be maximum time for Engineer’s review and verification from the date it is submitted in complete with all supporting documents as per agreed format and 28 days’ time for the payment to contractor by Procuring agency.

14.8 Delayed Payment

Second Para is replaced with following text:

In the event of the failure of the Procuring Agency to make the payment within the time stated, the procuring agency shall pay to the contractor, the compensation at rate of KIBOR+2% per annum in local currency and Libour+1% for foreign currency, upon all sums to be paid from the date of which the same would have been paid.

15.2 Termination by Employer

The following Para is added at the end of the sub-clause:

Provided further, that in addition to the action taken by the procuring agency against the Contractor under this Clause, the procuring agency may also refer the case of default of the Contractor to Pakistan Engineering Council for punitive action under the Construction and Operation of Engineering Works Bye- Laws 1987, as amended from time to time.

15.6 Corrupt and fraudulent Practices.

The following text is to be added as 3rd paragraph:

Successful Contractor has to provide Integrity Pact (for contracts worth Rs.10.0 million and above).

If the Contractor or any of his Subcontractors, agents or servants is found to have violated or involved in violation of the Integrity Pact signed by the Contractor as Appendix-L to his Bid, then the procuring agency shall be entitled to:

- (a) recover from the Contractor an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by the Contractor or any of his Subcontractors, agents or servants;
- (b) terminate the Contract; and
- (c) recover from the Contractor any loss or damage to the procuring agency as a result of such termination or of any other corrupt business practices of the Contractor or any of his Subcontractors, agents or servants.

The termination under sub-para (b) of this Sub-Clause shall proceed in the manner prescribed under sub-clauses 15.2 & 15.5 and the payment under Sub-Clause 15.4 shall be made after having deducted the amounts due to the procuring agency under Sub-Para (a) and (c) of this Sub-Clause.

16.4 Payment on Termination

Sub-paragraph (c) is deleted.

17.3 Employer's/ Procuring Agency's Risks

Sub-Clause 17.3 (h) is deleted.

The following text is added in Clause 18.1 (GCC):

18.1 General Requirements for Insurance

The contractor shall be obliged to place all insurances relating to the contract (including, but not limited to, the insurances referred to in Clauses 18.1,18.2,18.3,18.4) with Insurance Company having at least AA rating from PACRA/JCR in favour of the Employer/Procuring Agency valid for a period 28 days after the Bid Validity date. Costs of such insurances shall be borne by the contractor.

The Contractor shall insure with any one of the insurance companies approved for this purpose by the Employer. The insurance policies shall be in the joint names of the Employer, and the Contractor against all losses or damages as stated in the General Conditions of Contract Part I and as stated herein. Notwithstanding the responsibilities of the Contractor for indemnities and insurances as described in General Conditions of Contract Part I, the

Contractor before commencing work on Site, must discuss fully with the Engineer and the Employer the insurance coverage provided under any general policies which are to be applied to this Contract to ensure that there are no contingencies left uncovered and to reduce, as far as practicable, duplication of coverage. Should any areas of omission be discovered that are not covered by definition of responsibilities set out in these conditions, the addition or reduction in premiums required to give such insurance coverage will be paid by the Contractor. Such policies shall be obtained by the Contractor with consent of the Engineer/Employer.

The Contractor shall be responsible for deductibles and losses/damages not covered by insurances other than the excepted risks.

The insurance losses shall not affect the Employer's or the Contractor's rights and obligations under the Contract.

The Contractor shall be responsible for compliance by his sub-contractors of insurances specified in these Sub-Clauses. Before each sub-contractor starts work, the Contractor shall provide the Employer proof that the sub-contractor(s) are covered by insurances specified herein for the Contractor.

All policies shall state that:

- i) The Employer shall receive at least 30 days written notice of intended Cancellation or change affecting coverage.
- ii) The Contractor is fully protected so as to provide full indemnity to Employer in respect of liability against losses or damages assumed by the Contractor under the Contract.
- iii) The inclusion of more than one insured shall not affect the rights of any other insured.
- iv) If a loss occurs the Contractor and the Employer shall be paid in relation of their share of the loss.
- v) The Insurer has no subrogation rights against any person, corporation, or organization including directors, officers, employees, servants' agents thereof which:
 - is an insured under the policy or
 - is Controlled by, Owned by, or associated with an insured,
or
 - is a sub-contractor on the works, or has, before or a loss occurs, been released from liability by an insured.

Hold harmless provisions: The Employer, the Engineer and the Contractor shall be indemnified against all losses.

Employer use or occupancy: If the Employer uses or occupies all or part of the works during the life of the insurance policy, the Contractor shall ensure that the policy continues in full force and the Employer shall pay any resulting extra cost of insurance.

Loss Procedure: If a loss occurs the Contractor shall, on behalf of the Employer and himself negotiate the value of the loss with the insurer. Unless directed otherwise by the Engineer, when agreement is reached the Contractor shall repair all damages and the Employer shall pay him in accordance with the Engineer's Certificates for that part of the repairs which is the Employer's responsibility.

If directed by the Engineer, instead of carrying out repairs, the Contractor shall pay to the party suffering the loss that part of the agreed value of the loss which is the Contractor's responsibility.

The provisions of this Sub-Clause shall be applicable to other insurance covered by Clauses 18 of General Conditions of Contract Part-I.

(e) **Automobile Liability Insurance:**

The Contractor shall also provide automobile liability insurance of all licensed vehicles owned, hired and operated by the Contractor at the Site and the risk insured shall be bodily injury, death of person and property damage or loss.

There shall be no obligation for the insurances to include loss or damage caused by the risks listed under Employer's risk.

19.6 Optional Termination, Payment and release by the Employer

Sub-clauses (c), (d) and (e) are deleted.

20.6 Arbitration

Text will be replaced as under;

Any dispute in respect of which:

(a) the decision, of the Dispute Board has not become final and binding pursuant to sub-clause 20.2, and

(b) amicable settlement has not been reached within the period stated in sub-clause 20.5, shall be finally settled, under the provisions of the Arbitration Act, 1940 as amended or any statutory modification/Rules of Conciliation And Arbitration PEC Islamabad or re-enactment thereof for the time being in force.

The place of arbitration shall be Karachi, in Sindh Province.

Following is added;

21.1 Customs Clearance

Customs clearance shall be Contractor's responsibility.

22.1 Notice to Contractor

The following paragraph is added:

For the purposes of this Sub-Clause, the Contractor shall, immediately after receipt of Letter of Acceptance, intimate in writing to the Employer and the Engineer by registered post, the address of his principal place of business or any change in such address during the period of the Contract.

22.2 Notice to Employer and Engineer

For the purposes of this Sub-Clause, the respective addresses are:

- a) The Employer:
**Program Management and Implementation Unit,
Sindh Basic Education Program,
Government of Sindh
H No 29-D, Block 2, Clifton, Karachi Pakistan**

- b) The Engineer:
 - 1. **Halcrow Pakistan (Pvt.) Ltd,
3rd Floor Nawa e waqt building,
Mauve Area, Sector G-71,
Zero Point, Islamabad**

 - 2. **Halcrow Pakistan (Pvt.) Ltd,
43-4-G, Block 6,
PECHS, Karachi -75400,
Pakistan
Tel: +9221 3453 9240
Fax: +9221 3453 5564**

The following Sub-Clause 23.1 are added:

23.1 Payment of Income Tax

The Contractor, Subcontractors and their employees shall be responsible for payment of all their income tax, super tax and other taxes on income arising out of the Contract and the rates and prices stated in the Contract shall be deemed to cover all such taxes. As per Government of Pakistan (GoP) regulations, the income tax of the contractor will be deducted at source that is Procuring Agency.

Annex PROCEDURAL RULES

Procuring Agency retains SPPRA rules without changes, in case of contracts under Project, Bank and donor's programme.

PART II –SPECIAL/PARTICULAR CONDITIONS OF CONTRACT

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**SPECIFICATIONS-
SPECIAL PROVISIONS
(Separate Volume)**

**SPECIFICATIONS-
TECHNICAL PROVISIONS
(Separate Volume)**

DRAWINGS
(Separate Volume)

SINDH BASIC EDUCATION PROGRAM
CONSTRUCTION OF NEW SCHOOLS FOR UPGRADATION OF EXISTING SCHOOLS
Package No: SBEP P-01A-KHR (Balance Work) District Khairpur

SUMMARY OF COST

S. No.	Items	General	Civil	Electrical	Plumbing	External Develop.	Grand Total
		Amount (PKR)	Amount (PKR)	Amount (PKR)	Amount (PKR)	Amount (PKR)	(PKR)
1	GBLSS KORO GOTH, TALUKA KHAIRPUR	988,970	60,635,665	9,526,300	3,069,036	6,695,417	80,915,388
2	GBHS TANDO NAZAR ALI, TALUKA KHAIRPUR	962,900	63,768,110	9,842,450	3,099,186	9,178,677	86,851,323
3	GBLSS GHAGRI, TALUKA KHAIRPUR	301,680	61,038,135	8,862,705	3,150,778	7,053,449	80,406,747
4	GBHSS SETHARJA, TALUKA THARI MIRWAH	451,230	65,394,950	9,302,050	2,954,736	7,313,799	85,416,765
5	GBHS TANDO MIR ALI, TALUKA THARI MIRWAH	327,750	59,041,940	9,504,695	3,085,056	9,535,418	81,494,859
6	GBHS BOZDAR WADA, THARI MIRWAH	449,610	54,827,025	9,097,925	3,150,778	6,754,434	74,279,772
Sub Total of School Buildings (Rs.)							489,364,854
DAY WORK COST							5,327,500
Total Bid Price (Rs.)							494,692,354
Rebate (If any)							0
Net Bid Price after Rebate (Rs.)							494,692,354



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/ 989 /2014
Karachi, Dated: 18/ 08 /2014

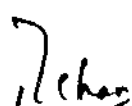
Minutes of 27th Procurement Committee Meeting of SBEP PMIU

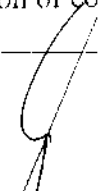
Subject: 1. Opening of Bids for the Construction of 06 Schools in Dist. Khairpur (balance works)
2. Evaluation Report on the 3rd round of Prequalification of Contractors 2014

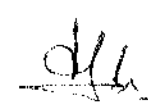
Bid Reference No: SBEP-01A-KHR-1

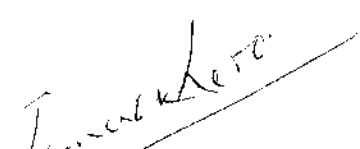
- 1. Attendance sheet:**
 - a. Attendance sheet attached. Annex A.
- 2. Proceedings & Decisions:**

Item	Proceedings	Decisions
1.	Bids were opened and the offered bids along with the bid security were documented in the attached sheet, Annex B.	The committee deputed the co-opted member, (Halerow Pakistan) for the evaluation of bids and scrutiny of bid documents.
2.	The Consultant (Halerow Pakistan) informed that the evaluation of 3 rd round of pre-qualification of contractors is still on going.	The evaluation may be completed and presented in the next Procurement committee meeting.


(Rehan Iqbal Baloch)
Member
Add. Secretary (GA/C)
Education & Literacy Dept.


(Chanchary M. Ali)
Member
Superintending Engineer
(C&W) Department


(Sohail S. Siddiqui)
Co-opted Member
Chief of Party
Halerow Pakistan


(Tameezuddin Khero)

Chairman, Procurement Committee



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/012/2014
Karachi, Dated: 26/08/2014

Minutes of 28th Procurement Committee Meeting of SBEP PMIU

Subject:

- Evaluation of Bids for the Package 01A (Balance Work, District Khairpur)

Bid Reference No: SBEP-01A-KIIR-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 27th Procurement Committee Meeting and recommended M/S Kabee Constructors and BS Traders & Engineering Services (Joint Venture) for the award of work being 1st lowest evaluated responsive Bidder.

(Rehan 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



USAID-Sindh Basic Education Program
Program Management & Implementation Unit
Education and Literacy Department
Government of Sindh
Tel No. 021-35296936, Fax No. 021-35296935
D-29, Block-2, Clifton Karachi

NO: SBEP/USAID/PD/ 1010 /2014
Karachi, Dated: 02/09/2014

The Managing Director,
Sindh Public Procurement Regulatory Authority (SPPRA),
Government of Sindh,
Karachi.



Bid Reference # SBEP-01A-KHR-1

Subject: Request for Hoisting of Bid Evaluation Report on SPPRA Website

Please find the Bid Evaluation Report and Comparative Statement for construction of six schools in district Khairpur under Package # (SBEP-P01A-KHR, balance work) along with the Original Minutes of Meeting and the Attendance Sheet of the Procurement Committee.

You are therefore requested to hoist the enclosed Bid Evaluation Report on SPPRA website as per Rule 45 of SPPRA Rules 2010, at the earliest.

[Handwritten signature]
11/8/14

[Handwritten signature]
Tameezuddin Khero
Program Director

P/copy



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/ /2014/1830
Karachi. dated: 11/09/2014

LETTER OF ACCEPTANCE / AWARD

**Kaybee Constructors and
BS Traders & Engineering Services. (Joint venture)**

351/3, Street # 20, Sharfabad,
Karachi
T: 021-34123535, F: 021-34937304

**Subject: Construction of Six (06) Schools in District Khairpur, Package 1a
Notification of Award of Contract of Package No. SBEP-01A-KHR**

P.P.U.
Q.L.
23/9/14
M(E-B)
This is to notify you that your bid dated 18th August, 2014 for the construction of six (06) schools in district Khairpur, (Package 1a) under USAID Sindh Basic Education Program for the accepted contract amount of PKR. 494,692,354/- (Four hundred and ninety four million, six hundred and ninety two thousands, three hundred and 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.

f
Tameezuddin Khero
Program Director

Cc: The Managing Director SPPRA

SPPRA INWARD DIARY

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-P01A-KHR (Balance Works)
3. Tender Description/ Name of Work/Item:	Construction of Six (06) Schools in District Khairpur, Package-01 A
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/909/2014 dated 9 th July 2014.
6. Total Bid documents issued:	15
7. Total Bids Received:	02
8. Technical Bid Opening date (if applicable):	N/A
9. No of Bid technically qualified (if applicable):	N/A
10. Bid(s) Rejected:	Nil
11. Financial Bid Opening date:	18 th August 2014 @ 1130 Hours

12. Bid Evaluation Report:

S #	Name of Firm or Bidder	Cost Offered by Bidder (PKR)	Ranking in terms of cost	Comparison with Estimated Cost	Reasons for acceptance/rejection	Remarks
1	M/s. Banu Mukhtar Contracting (Pvt.) Ltd	577,836,081/-	2 nd	26.08% above	Higher Rates	---
2	M/s. Kaybee Constructors, Engineers & Contractors + BS Traders & Engineering Services (Joint venture)	494,692,354/-	1 st Lowest	7.94% above	1 st Lowest evaluated responsive bidder with acceptable market rates	Recommended for award of work

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

Superintendent Engineer (W&S)

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

Chairman/Convener of Committee
Program Director, SBEP

SINDH BASIC EDUCATION PROGRAM
CONSTRUCTION OF NEW SCHOOLS AND UPGRADATION OF EXISTING SCHOOLS
 Package No: SBEP P-01A-KHR (Balance Work)
 Construction of Six (06) Schools in District Khairpur
SUMMARY OF TENDERED COST

S. No	SCHOOL NAME	Engineer's Estimate	M/s Banu Mukhtar Contracting (Pvt.) Ltd	%age Diff.	M/s Kaybee Constructors + BS Traders (JV)	%age Diff.
1	GBLSS KORO GOTH, TALUKA KHAIRPUR	73,834,129	96,186,794	30.27%	80,915,388	9.59%
2	GBHS TANDO NAZAR ALI, TALUKA KHAIRPUR	79,425,934	102,267,471	28.75%	86,851,323	9.35%
3	GBLSS GHAGRI, TALUKA KHAIRPUR	72,034,662	91,910,888	27.59%	80,406,747	11.62%
4	GBHSS SETHARJA, TALUKA THARI MIRWAH	79,582,495	102,181,224	28.40%	85,416,765	7.33%
5	GBHS TANDO MIR ALI, TALUKA THARI MIRWAH	75,056,658	96,246,702	28.23%	81,494,859	8.58%
6	GBHS BOZDAR WADA, TALUKA THARI MIRWAH	68,602,279	93,498,275	36.29%	74,279,772	8.28%
Sub Total of School Buildings (Rs.)		448,536,157	582,281,354	29.82%	489,364,854	9.10%
Adding DayWork cost (Rs.)		9,763,900	7,347,300		5,327,500	
Total Bid Price (Rs.)		458,300,057	589,628,654		494,692,354	
Rebate if any			11,792,573			
			2%			
Final Bid Price after Rebate (Rs.) for Balance Work of Six Schools		458,300,057	577,836,081	26.08%	494,692,354	7.94%

Zehra

[Signature]

T. MUKHTAR KHAN

[Signature]



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/1012/2014
Karachi, Dated: 26/08/2014

Minutes of 28th Procurement Committee Meeting of SBEP PMIU

Subject:

- Evaluation of Bids for the Package 01A (Balance Work, District Khairpur)

Bid Reference No: SBEP-O1A-KHR-1.

Attendance sheet:

- a. Attendance sheet attached, Annex A.

1. Proceedings & Decision:

M/S. Halerow, the Architect & Engineer for Sindh Basic Education Program presented before the Procurement Committee the Bid Evaluation Report for the bids opened in the 27th Procurement Committee Meeting and recommended M/S Kabee Constructors and BS Traders & Engineering Services (Joint Venture) for the award of work being 1st lowest evaluated responsive Bidder.

(Rehan Iqbal Baloch)
Member
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Education & Literacy Dept.

(Chaughary M. Ali)
Member
Superintending Engineer
Defunct CDGK W&S Department
Government of Sindh

(Sohail S. Siddiqui)
Co-opted Member
Chief of Party
Halerow Pakistan

(Tameezuddin Khoro)
Chairman Procurement Committee/
Program Director, PMIU, SBEP
Education & Literacy Department



USAID-SINDH BASIC EDUCATION PROGRAM
 (PROGRAM MANAGEMENT & IMPLEMENTATION UNIT)
 EDUCATION AND LITERARY DEPARTMENT
 GOVERNMENT OF SINDH

Attendance Sheet
28th Procurement Committee Meeting for the Evaluation of Bids of balance work of six schools in package-1A (Khairpur)
Held on 26-08-2014 at 3.00 PM at PMIU-SBEP, D-29 Clifton, Karachi

No	Name	Designation	Department	Contact # & e-mail Address	Signature
1.	Tamrazuddin	PD PMIU SBEP	PMIU		Tamrazuddin
2.	Sohail Seddajui	PM	Halerao		[Signature]
3.	Ali Muhammad Memon	Contracts Engineer	Halerao		[Signature]
4.	A K Mustafa	FI (DPS)	PMIU		[Signature]
5.	Jawaf Khawaja	SEA	PMIU		[Signature]
6.	S. Khurram Shehryar	Procurement Officer	PMIU		[Signature]
7.	Chowdhry Mohammad Ali	Wdg Dept. S.E	Wes Dept. Cos.	0341-2047649	[Signature]



USAID-SINDH BASIC EDUCATION PROGRAM
 (PROGRAM MANAGEMENT & IMPLEMENTATION UNIT)
 EDUCATION AND LITERARY DEPARTMENT
 GOVERNMENT OF SINDH

Attendance Sheet

28th Procurement Committee Meeting for the Evaluation of Bids of balance work of six schools in package-1A (Khairpur)
 Held on 26-08-2014 at 3.00 PM at PMIU-SBEP, D-29 Clifton, Karachi

No	Name	Designation	Department	Contact # & e-mail Address	Signature
0.	Neelum (Sahib Baloch)	As (GM)	EAL DEPT	-	Neelum
1.					
2.					
3.					
4.					
5.					