

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. Program Management & implementation Unit, Sindh Basic Education Program, School Education & Literacy Department.
- 2) PROVINCIAL / LOCAL GOVT / OTHER Government of Sindh
- 3) TITLE OF CONTRACT Package No: SBEP-P15-KHI-II
- 4) TENDER NUMBER NIT # SBEP/PD/PROC/3338/2017
- 5) BRIEF DESCRIPTION OF CONTRACT Construction of Four (04) Schools in Karachi.
- 6) FORUM THAT APPROVED THE SCHEME PDWP
- 7) TENDER ESTIMATED VALUE PKR 287,170,657/-
- 8) ENGINEER'S ESTIMATE (For civil works only) PKR 280,567,247/-
- 9) ESTIMATED COMPLETION PERIOD (AS PER CONTRACT) 20 calendar months
- 10) TENDER OPENED ON (DATE & TIME) 13/06/2017 at 11:30 AM
- 11) NUMBER OF TENDER DOCUMENTS SOLD (Attach list of buyers) 07
- 12) NUMBER OF BIDS RECEIVED 03
- 13) NUMBER OF BIDDERS PRESENT AT THE TIME OF OPENING OF BIDS 03
- 14) BID EVALUATION REPORT (Enclose a copy) SPPRA Website, S # 33243 ID # 2147483647
- 15) NAME AND ADDRESS OF THE SUCCESSFUL BIDDER M/s Shoukat Khan & Company Abbottabad.
- 16) CONTRACT AWARD PRICE PKR 266,020,843/-
- 17) RANKING OF SUCCESSFUL BIDDER IN EVALUATION REPORT (i.e. 1st, 2nd, 3rd EVALUATION BID).
M/s Shoukat Khan & Co (1st Lowest)
M/s Echo West International (Pvt) Ltd (2nd Lowest)
M/s Bilal Construction Company (Non Responsive)

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	SPPRA Website, S # 33243 ID # 2147483647
No	

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

Yes	Dawn, Jang (12-05-2017) & Kawish. dated 15/05/2017 (Copies are attached herewith)
No	

22) NATURE OF CONTRACT

Domestic/Local	<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"/>
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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"/>
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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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31) ANY COMPLAINTS RECEIVED
(If yes, result thereof)

Yes	
No	No complaint was received

32) ANY DEVIATION FROM SPECIFICATIONS GIVEN IN THE TENDER NOTICE / DOCUMENTS
(If yes, give details)

Yes	
No	None

33) WAS THE EXTENSION MADE IN RESPONSE TIME?
(If yes, give reasons)

Yes	Copy of Minutes of Meeting & corrigendum are attached herewith.
No	

34) DEVIATION FROM QUALIFICATION CRITERIA
(If yes, give detailed reasons.)

Yes	
No	None

35) WAS IT ASSURED BY THE PROCURING AGENCY THAT THE SELECTED FIRM IS NOT BLACK LISTED?

Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
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36) WAS A VISIT MADE BY ANY OFFICER/OFFICIAL OF THE PROCURING AGENCY TO THE SUPPLIER'S PREMISES IN CONNECTION WITH THE PROCUREMENT? IF SO, DETAILS TO BE ASCERTAINED REGARDING FINANCING OF VISIT, IF ABROAD:
(If yes, enclose a copy)

Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
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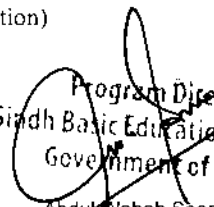
37) WERE PROPER SAFEGUARDS PROVIDED ON MOBILIZATION ADVANCE PAYMENT IN THE CONTRACT (BANK GUARANTEE ETC.)?

Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
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38) SPECIAL CONDITIONS, IF ANY
(If yes, give Brief Description)

Yes	Copies are attached herewith
No	

Signature & Official Stamp of
Authorized Officer


Program Director
Sindh Basic Education Program
Government of Sindh
Abdul Wahab Soomro

FOR OFFICE USE ONLY

SPPRA, Block. No.8, Sindh Secretariat No.4-A, Court Road, Karachi
Tele: 021-9205356; 021-9205369 & Fax: 021-9206291

Tender Documents sold

[Package No: SBEP-P13A-JCD-I

Construction of Six (06) Schools in District Jacobabad (Taluka Garhi Khero)]

- 1) M/s Shoukat Khan & Co
- 2) M/s Sultan Mahmood & Co
- 3) M/s Naseb Khan & Brothers
- 4) M/s Astral Constructors (Pvt) Ltd
- 5) M/s Echo West International (Pvt) Ltd
- 6) M/s Saita (Pakistan) Pte Ltd
- 7) Amcorp Engineering & Construction (Pvt) Ltd

Package No: SBEP-P13B-JCD-II

Construction of Seven (07) Schools in District Jacobabad (Taluka Jacobabad & Thull)

- 1) M/s Astral Constructors (Pvt) Ltd
- 2) M/s Echo West International (Pvt) Ltd
- 3) M/s Bilal Construction Co
- 4) M/s Sultan Mahmood & Co
- 5) M/s Saita (Pakistan) Pte Ltd
- 6) M/s Shoukat Khan & Co

Package No: SBEP-P14-KSH

Construction of Ten (10) Schools in District Kashmore (Taluka Tangwani, Kandhkot & Kashmore)

- 1) M/s Astral Constructors (Pvt) Ltd
- 2) M/s Echo West International (Pvt) Ltd
- 3) M/s Sultan Mahmood & Co
- 4) M/s Saita (Pakistan) Pte Ltd
- 5) M/s Shoukat Khan & Co
- 6) Amcorp Engineering & Construction (Pvt) Ltd

Package No: SBEP-P15-KHI-II

Construction of Four (04) Schools in Karachi (Orangi, Lyari & Kemari Towns)

- 1) M/s Astral Constructors (Pvt) Ltd
- 2) M/s Echo West International (Pvt) Ltd
- 3) M/s Sultan Mahmood & Co
- 4) M/s Shoukat Khan & Co
- 5) M/s Amcorp Engineering & Construction (Pvt) Ltd
- 6) M/s Pakistan Civil & Electric Works
- 7) M/s Haji Syed Ameer & Brothers



No: SBEP/PD/PROC/2017
Program Management and Implementation Unit
SINDH BASIC EDUCATION PROGRAM
SCHOOL EDUCATION & LITERACY DEPARTMENT
Government of Sindh

Date: 07-09-2017

Work Order

M/s Shaukat Khan & Company.

Lalazar Colony, Near Al-Farooqia Mosque,
Opp Askaki Bank (Ltd) Mansehra road
Abbottabad.

Contact: 0092-340058, 0345-3914447

Subject: **Construction of Four (04) Schools in Karachi**

References: NIT # SBEP/PD/PROC/3338/2017, dated 12/05/2017

Bid # SBEP-P15-KHI-2

This is to notify that your Bid opened on June 13th, 2017 for construction of Four (04) Schools in Karachi under Sindh Basic Education Program for the contract amount of **PKR 266,020,843/-** (Two hundred and sixty six million, twenty thousand, eight hundred and fourty three only) as corrected and modified in accordance with the "Instructions to the Bidders" is hereby accepted by our Agency.

You are therefore awarded the contract for the subject Works.

You are requested to furnish the performance security in accordance with the sample form of performance security available in the Bidding Documents and sign the contract agreement.

Syed Khurram Sheheryar
(Sr. Manager Procurement)



USAID
FROM THE AMERICAN PEOPLE



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

SINDH BASIC EDUCATION PROGRAM

Package-15: Construction of Four (04) Schools in Karachi, Sindh
(Orangi, Lyari & Kemari Towns)



PACKAGE NO: SBEP-P15-KHI-2

Tender & Contract Documents

Addendum No. 1

(Minutes of Pre-Bid Meeting)

May 2017

PART – 1: QUERIES AND REPLIES

The following answers to the questions raised by the bidders shall be considered to be additional clarifications/ an addendum to the tender documents of the subject package, and shall become part of the contract documents

SR #	Queries/Requests/Points of Discussion	Relies/Remarks/Notes
A- General		
A.1	It is requested that the Bid Submission Date may please be extended.	<p>Keeping in view the interest of potential Bidders, the Bid Submission date has been extended from 31st May 2017 to 13th June 2017.</p> <p>The Bids will now be received on 13th June 2017 up to 11.00 AM and will be opened on the same day at 11.30 AM in the presence of Procurement Committee Members and Bidder's representatives who wish to attend.</p>
A.2	Optional Items of Temporary School Facility & Engineer's Facility in BOQs	<p>Please be informed that in the category of "General Items" of all BOQs, any one from three optional items for Temporary School facility given in BOQs shall be adopted at the time of execution of works with the consent of School Administration/ SMC & Approval by "The Engineer". In the same manner, an item of "Repair & renovation of existing government building proposed for temporary school" under heading of Provisional Sum may also be adopted at any site instead of said optional items where required. However, Contractor's quoted rates and prices shall remain firm and final as part of his Contract throughout the contract period and will not be subject to any change regardless of any variation in applicability of optional items during execution of works.</p> <p>Further, keeping in view the site conditions, it is also possible that may be none of these optional items be executed. However; the Bidders are required to fill the rates for all the optional items for evaluation purpose.</p> <p>Bidders are also required to fill the rates against Engineer's Facility item in all BOQs but the Contractor may be asked to provide Engineer's Facility for only those schools where it is necessarily be required.</p>
B- Contractual		
B.1	GBSS No.09, Sector 8-L, Orangi Town	The no. of class rooms in the design of this school are reduced from 12 to 08. Hence; the modified/updated Tender Drawings and BoQs of this particular school are attached as Annexure-A & Annexure-B respectively with these minutes.
B.2	May the Insurance Guarantee be accepted instead of Bank Guarantee for Bid Security & Performance Security?	Regretted. This may lead to non-compliance of SPP Rules 2010, Clause: 37 & 39.
B.3	What documents are necessary to be attached with the Bids?	All the required documents are listed out in the Clause: IB-11 of Instruction to Bidders which must include updated Company Profile comprising of all the required category wise information/ data as per Evaluation Criteria (Annexure-A to Bidding Data, Volume-I) dully supported by all relevant attachments as evidence and required Bid Security (in a separate envelope) along with Bid.

SR #	Queries/Requests/Points of Discussion	Relies/Remarks/Notes
B.4	What taxes will be applicable to payments under SBEP?	All the bidders should include all taxes, duties, levies etc. while preparation of their bids. Although, PMIU is not a holding agent for Sales Tax, however, Contractor shall be required to submit original Invoices of Sales Tax to PMIU along with their IPCs. PMIU may get reimbursement from relevant tax department. For further details bidders may seek clarification before quotation of rates/ bids from the concerned Tax Departments of Govt. of Sindh.
B.5	What shall be the minimum amount of running bills / IPCs?	Please refer App-A to Bid (Volume-I) where it is mentioned that minimum amount of first two IPCs is 05 Million and for the rest of IPCs is 15 Million.
B.6	Can the entire amount of Retention Money (i.e. 5%) be released on substantial completion?	As per conditions of contract, half of Retention Money (i.e. 2.5% of total contract value) will be released on substantial completion and remaining half (i.e. remaining 2.5%) will be released upon successful completion of Defect Liability Period.
B.7	Can a bidder get basic rates of some items like porcelain tiles & marble etc.?	Market rates are followed, so its bidder's responsibility to evaluate and submit their working as rate analysis.
B.8	Please brief about fixture/useable items of exiting block to be demolished.	An inventory will be prepared jointly; items will be acquired safely without damaging them before demolition of existing blocks and all the useable items will be handed over to School Education Department's nominated officials.
B.9	What shall be the minimum amount of running bills / IPCs?	Please refer App-A to Bid (Volume-I) where it is mentioned that minimum amount of first two IPCs is 05 Million and for the rest of IPCs is 15 Million.
B.10	Is there interest on mobilization advance?	Yes. An interest at @ 10% of mobilization advance amount is applicable as per SPPRA Procurement Guidelines & Sindh Financial Rules.
B.11	What will be the priority of Tender Documents to be followed?	BOQs, Specifications & Drawings etc. are required to be read in conjunction with each other. For any discrepancy clarification shall be obtained from the Engineer.
C- Technical		
C.1	Can a Bidder propose a vendor other than those listed in the List of Pre-Approved Sources of Materials?	Yes. At the time of execution of particular item, Contractor may submit alternate proposal for new source which will be technically assessed & subsequently may be approved by the Engineer. But the Engineer's approval of samples of any product of pre-approved sources/vendors prior to its use at site is also required.
C.2	Please mention the model nos. for Plumbing Fixtures of approved vendors.	Regretted. As per SPPRA Rules, no specific brand name/model name is supposed to be mentioned. Its bidder's responsibility to prepare rate analysis for all major items and make composite rates.
C.3	Is there any imported material to be used?	No. Only local materials are required to be used in construction.
C.4	Will it be applicable/feasible if we replace Slag cement with Sulphate Resisting Cement?	No. Please follow the tender documents.
C.5	In BOQs, the specified no. of days for dewatering are given for each school separately, but is there any provision to allow dewatering quantity for more than days as mentioned in BOQs?	If needed & justifiable as per site; the dewatering may be allowed for the no. of days more than as mentioned in the relevant BOQ item as per site conditions/requirements.
C.6	How the item of Termite Treatment be paid? Whether only building area will be considered or the area of external development will also be included?	Only foot pint area of the building at required stage of application of Termite Treatment shall be used.

SR #	Queries/Requests/Points of Discussion	Relies/Remarks/Notes
C.7	What will be the thickness of Vapour Barrier sheet to be used under CC Flooring?	It is recommended/advised that the unit weight per square meter should not less than 150gm or 200gm.
C.8	As per contract documents, ties are used in block or brick masonry, will it be paid separately?	No it will not be paid separately and is integral part of block masonry item.
C.9	Will it be applicable/feasible if we add admixture in concrete of storage tanks in addition to Crystalline Coating?	Bidder may propose at execution stage for approval of the Engineer.
C.10	Which type of grass will be used in lawn area?	Please refer Section: C-17 "Landscaping" in Volume-III-B of Tender Documents (Specifications-Technical Provisions).
C.11	Which type of Toilet Accessories are to be used? Plastic or of Stainless Steel?	Please refer Section: P01 "Plumbing Specs" in Volume-III-B of Tender Documents (Specifications-Technical Provisions).
C.12	Please explain the payment provisions of water stopper if proposed by the contractor during execution.	Only BOQ items shall prevail.
C.13	Will surface sealer be required on external face of stone cladding/color create?	Yes it is required but will not be paid separately. Bidder should incorporate its cost in his quotes rates accordingly.
C.14	Please provided details of Project Sign Board.	Details are provided in General Drawing No. 007.

PART-2: BID SUBMISSION

❖ All the bidders are advised to:

- Carefully study the tender documents especially quality assurance requirements, health & safety and environment protection requirements as they have to comply with QA/QC & HSE requirements till the completion of works, so they should incorporate these requirements in their quoted Bid Prices. The list of minimum HSE requirements for one school has already been highlighted on Page No. 22, Volume-III-A Specifications-Special Provisions of Tender Documents.
- Carefully prepare the bids in accordance with Instruction to Bidders clause: IB-11, and submit all the documents (i.e. Letter of Authorization, Form of Bid, RAs, etc.) as well as all the information/data along with documentary evidence as per given Evaluation Criteria (Annexure-A to Bidding Data) so that it would not be required to ask the bidders during evaluation process to submit their missing documents.

❖ Further; all those Bidders which are already awarded one or more packages may be asked at any stage to demonstrate that they possess adequate resources to undertake works of subject tender along with in-hand project/s and may restrict such Bidders not to participate in the bidding of subject work keeping in view his resources or execution capabilities and his previous performance of awarded works/packages.

----- ALL OTHER TERMS & CONDITIONS REMAIN UNCHANGED -----



Program Management and Implementation Unit
SINDH BASIC EDUCATION PROGRAM
SCHOOL EDUCATION DEPARTMENT
GOVERNMENT OF SINDH

No.SBEP/PD/PROC/3383/2017

DATED: 26-05-2017

D-29, Block 2, Clifton, Karachi, Tel: +92-21-35296931-33-40,
Fax: +92-21-35296935, www.sbep.gos.pk

CORRIGENDUM # 04

A. Package 13A (SBEP-P13A-JCD-1)

Construction of Six (06) schools in District Jacobabad
(Taluka Garhi Khairo)

B. Package 13B (SBEP-P13B-JCD-2)

Construction of Seven (07) schools in District Jacobabad
(Taluka Jacobabad & Thull)

C. SBEP Package 14

Construction of Ten (10) schools in District Kashmore
(Taluka Tagwani, Kandhkot & Kashmore)

D. SBEP Package 15 Karachi 2

(Construction of Four (04) Schools in Karachi (Orangi,
Lyari, and Keamari towns).

Reference: SBEP / PD / PROC / 3338 / 2017

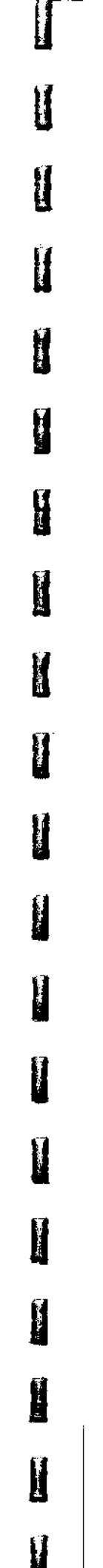
The Procuring Agency hereby extends the date of bid submission of the above packages from May 31st, 2017 to June 13th, 2017. The bids will be received till 11 am, and will be opened at 11:30 am on the same day in the presence of bidders who wish to attend the meeting.

Say No to Corruption

Program Director

INF-KRY: 3012/17

ہم دشگردی کے خلاف متحد ہیں۔



پروگرام مئنيجمينٽ اينڊ امپليمينٽيشن يونٽ

سنڌ بيسڪ ايجوڪيشن پروگرام



اسڪول ايجوڪيشن ڊپارٽمينٽ، حڪومت سنڌ

SBEP/PD/PROC/3383/2017

Dated: 26-05-2017

تصحيح نمبر 4

ي. پيڪيج 13A (SBEP-P13A-JCD-1)

ضلعي جيڪب آباد (تعلقو گڙهي خيرو) ۾ ڇهن (06) اسڪولن جي تعمير

ي. پيڪيج 13B (SBEP-P13B-JCD-2)

ضلعي جيڪب آباد (تعلقو جيڪب آباد ۽ نل) ۾ (07) ستن اسڪولن جي تعمير.

ي. SBEP پيڪيج 14

ضلعي ڪشمور (تعلقو تنگواڻي، ڪنڌڪوٽ ۽ ڪشمور) ۾ (10) ڏهن اسڪولن

جي تعمير.

ي. SBEP پيڪيج 15 ڪراچي 2

ڪراچي (اورنگي، لياري ۽ ڪياماڙي ٽائونز) ۾ (04) چئن اسڪولن جي تعمير.

حوالو: SBEP/PD/PROC/3338/2017

روڪيورنگ ايجنسي هن ذريعي مٿي ڄاڻايل پيڪيجز جي واڪ اماڻڻ جي تاريخ ۾

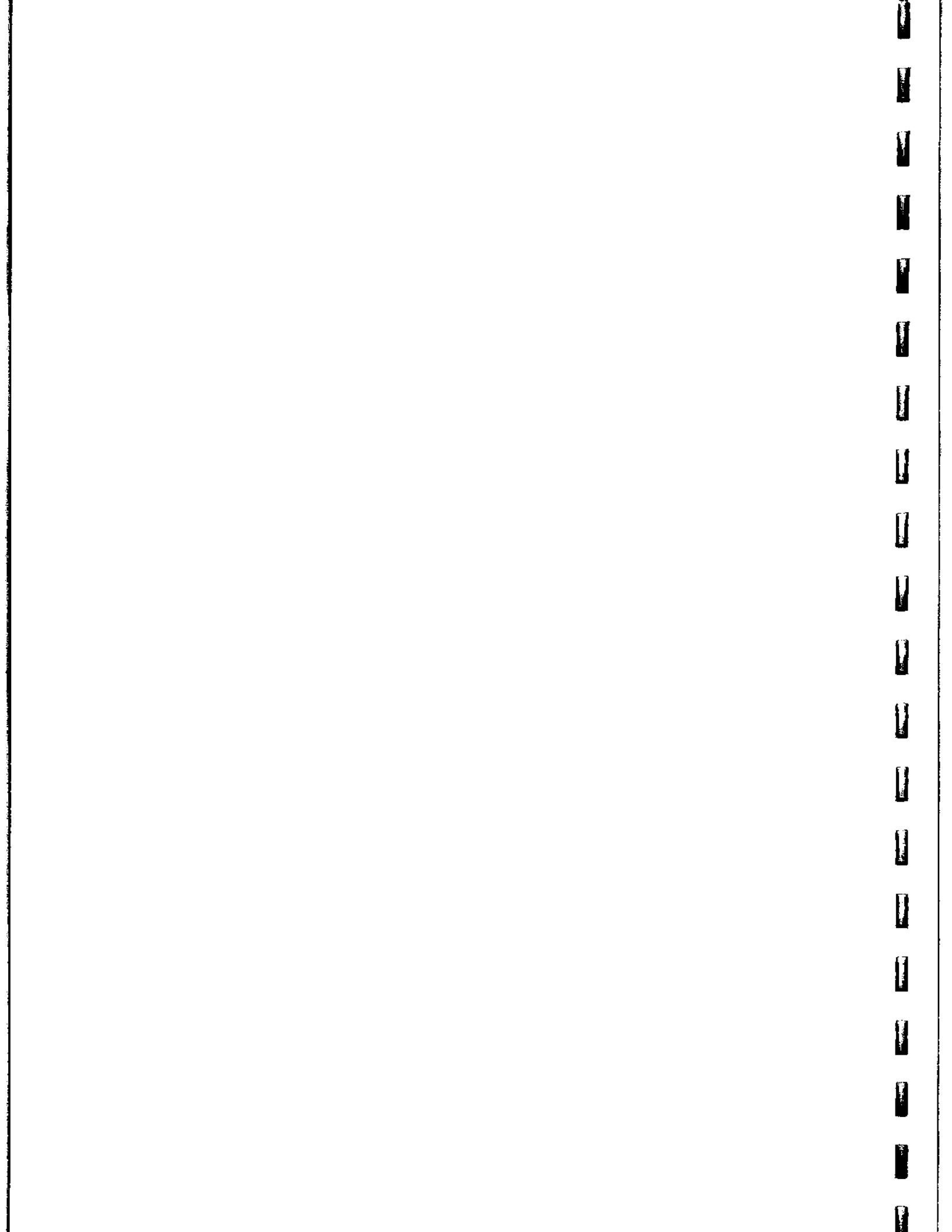
مئي، 2017 کان 13هين جون 2017 تائين وڌائي آهي. واڪ صبح 11:00 وڳي تائين وڌ

ڏيڻا ۽ ساڳئي ڏينهن گڏجاڻي ۾ موجودگي جي خواهشمند واڪ ڏيندڙن جي

موجودگي ۽ ٻي ساڳئي ڏينهن کوليا ويندا.

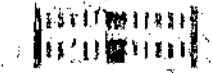
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INF/KRY.No:3012/2017





**Program Management & Implementation Unit
Sindh Basic Education Program
School Education Department
Government of Sindh**



NO: SBEP/PD/PROC/3338/2017

DATED: 27-04-2017

NOTICE INVITING TENDER

Bid References:

- a) **Package 13A (SBEP-P13A-JCD-1)**
[Construction of Six (06) Schools in District Jacobabad (Taluka Garhi Khairo)].
 - b) **Package 13B (SBEP-P13B-JCD-2)**
[Construction of Seven (07) Schools in District Jacobabad (Taluka Jacobabad & Thull)].
 - c) **SBEP-Package-14**
[Construction of Ten (10) Schools in District Kashmore (Taluka Tangwani, Kandhkot & Kashmore)].
 - d) **SBEP-Package-15, Karachi-2**
[Construction of Four (04) Schools in Karachi (Orangi, Lyari & Keamari Towns)]
1. Sindh Basic Education Program (SBEP), Program Management & Implementation Unit (PMIU), School Education Department, Government of Sindh (the "Procuring Agency" "PA") has received 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 funds will be applied to eligible payments under the contract in Districts Jacobabad, Kashmore & Karachi.
 2. Sealed bids are invited under **Single Stage One Envelope** bidding procedure of SPP Rules 2010, from reputed & eligible contracting firms / companies registered with Pakistan Engineering Council (PEC) in Category C-2 & above with experience in building works. The firms / companies must also be registered with relevant government departments / agencies and taxation authorities (FBR & SRB). Contracting companies may participate in either one or more packages. Bid for each package, however, shall be submitted in a separate envelope.
 3. Complete set of Bidding Documents in soft copy (CD) may be obtained from the Procuring Agency's office address during office hours. The Bidding Documents may also be downloaded from SPPRA website: <http://www.pprasindh.gov.pk/activetenders.php> and Procuring Agency's official website: <http://www.sbecp.gos.pk/tenders.php> with effect from the date of publishing of this Tender Notice.
 4. Pre-bid field visits to all the school sites will be held as per the following schedule at 9.00 AM:
 - For Package 13A (May 16th, 2017).
For Package 13B (May 17th, 2017).
(Gathering Point Deputy Commissioner Office Jacobabad).
 - For Package 14 (May 18th, 2017).
(Gathering Point Deputy Commissioner Office Kashmore).
 - For Package 15 (May 22nd, 2017).
(Gathering Point D-29, Block 02 Clifton Karachi).

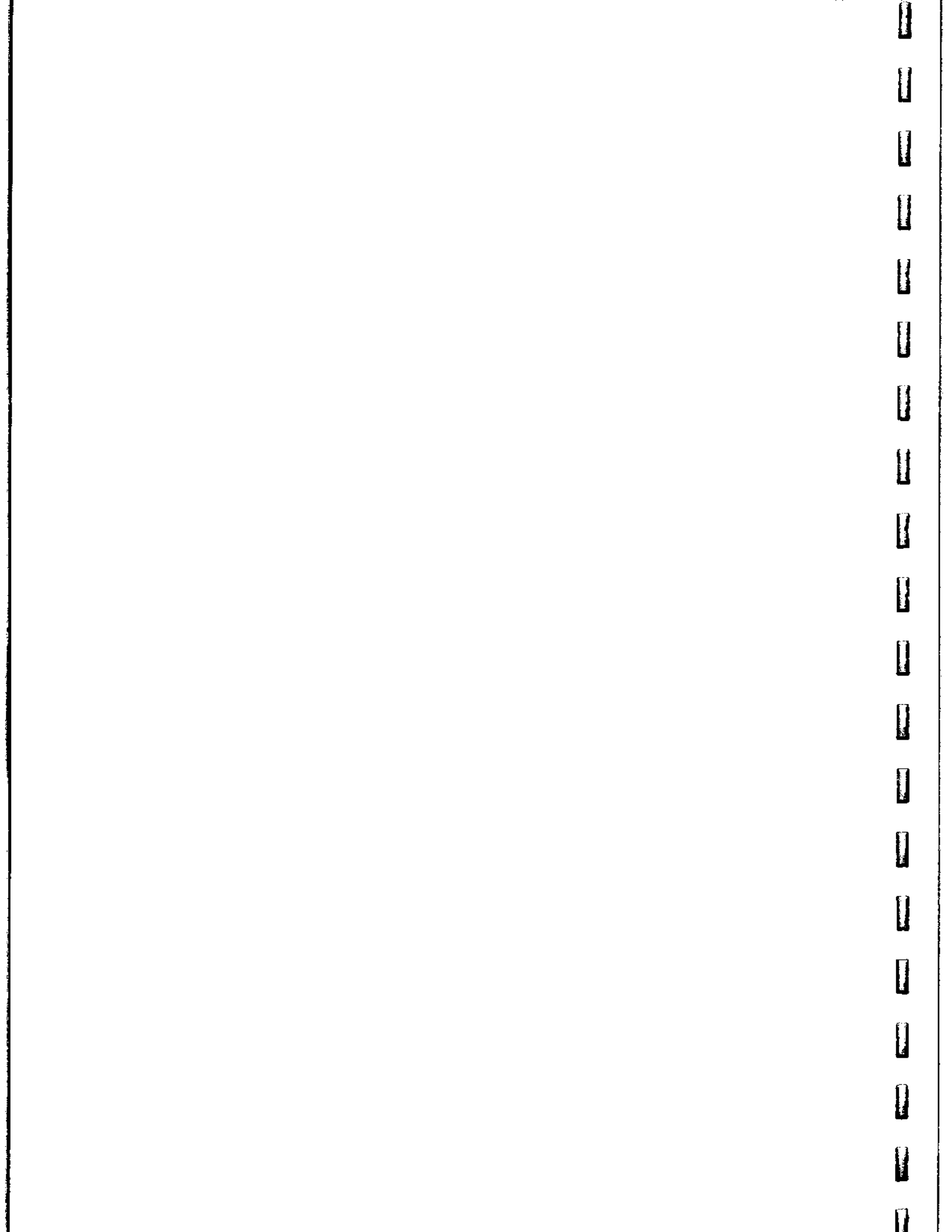
5. All expenses including travelling, lodging etc shall be borne by the participating bidders on their own. Further details about field visits may be obtained from this office. A pre-bid meeting (for all packages) shall be held on **May 23rd, 2017 at 11:00 AM** at Procuring Agency (PA) Office (D-29, Block 02, Clifton Karachi). The bidders may send their queries in accordance with IB-8.1, Instructions to Bidders.
6. Interested bidders are requested to submit "Letter of Intention" for each package separately on company's letterhead along with copy of PEC, NTN & SRB valid certificates and original paid challan / receipt of Tender Fee of PKR 500 / each package (non-refundable) which may be deposited in any branch of Sindh Bank Ltd in favour of "PD PMIU SBEP" A/C No. 0302-165311-1000 till May 29th, 2017.
7. All Bids must be accompanied by a bid security in the amount equivalent to **1.25%** of quoted bid price in Pak Rupees in the form of pay order / demand draft / bank guarantee (verifiable) issued by any scheduled bank of Pakistan in favour of "PD PMIU SBEP". The validity of bid security shall be 118 days from the date of bid opening.
8. The bids completed in all respects are required to be printed, signed, stamped, numbered and submitted in hard copy (one original & one copy) along with required bid security as indicated above to PA Office (addressed as above) on or before **May 31st, 2017 upto 11:00 AM**. All bids sent by hand or by mail / courier service should clearly mark the sealed envelope: "Complete package Name" and must be received to PA office before the mentioned timeline.
9. Bids will be opened at **11:30 AM on May 31st, 2017**, in the presence of bidders representatives who choose to attend at the same address. The bid validity period will be 90 days from the date of opening of Bids. All bids shall be evaluated in accordance with "Annexure-A to Bidding Data: Evaluation Criteria" given in Volume-I of Bidding Documents.
10. Bidders may obtain further information and / or clarification relevant to subject tender from the PA office during office hours in writing. Procuring Agency reserves the right to annul the bidding process and reject any or all bids only as per SPP Rules 2010.
11. 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.

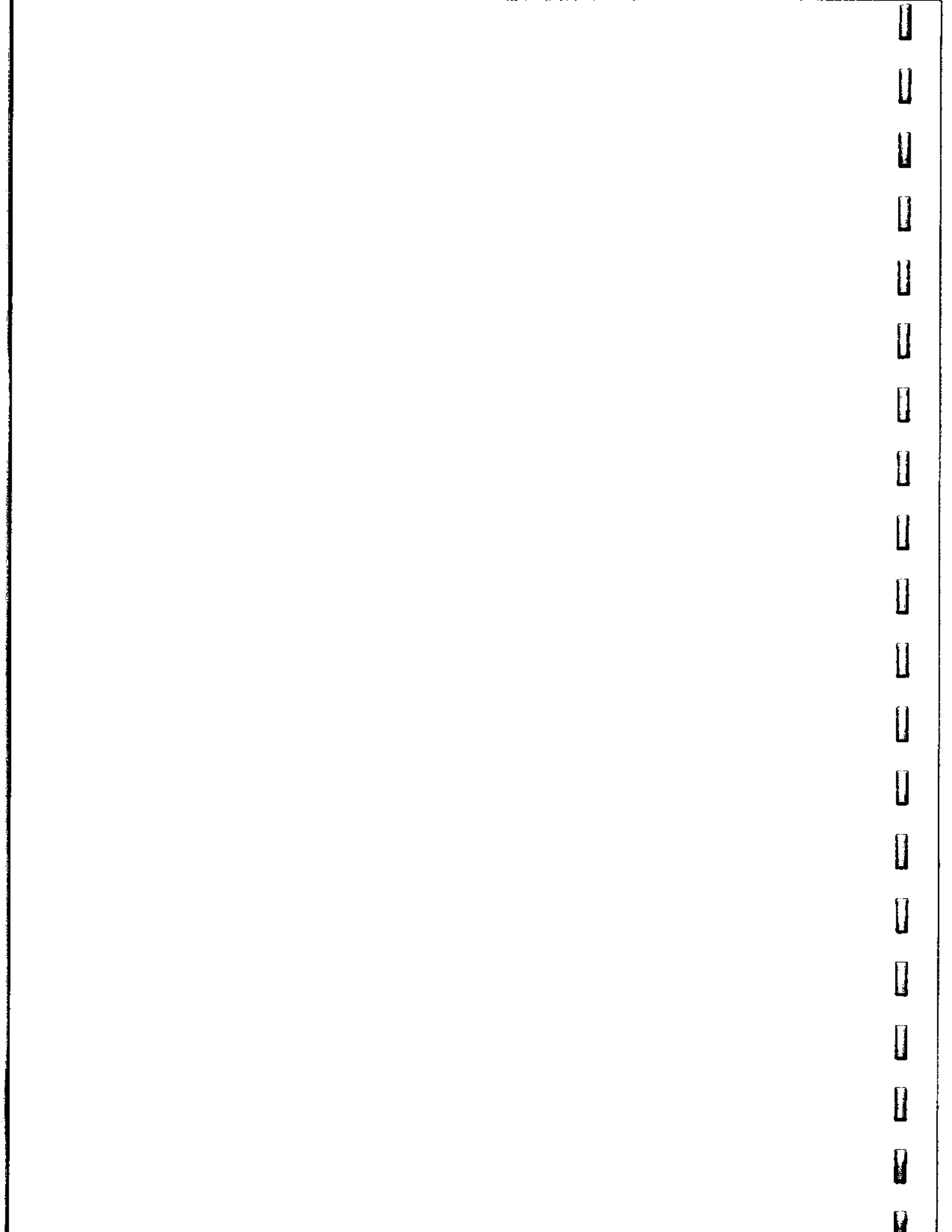
Say No to Corruption

INF-KRY: No. 2553/17

ہم دہشت گردی کے خلاف تہم ہیں۔

Program Director





ٹینڈر گھرانٹ لاء نوٹیس

واڪ ریفرنسز:

- (a) پئڪیج 13A (SBEP-P13A-JCD-1) [ضلعی جیکب آباد (تعلقہ کڑھی خيرو) پر چھن (06) اسکولن جي تعمير]
- (b) پئڪیج 13B (SBEP-P13B-JCD-2) [ضلعی جیکب آباد (تعلقہ جیکب آباد ۽ نل) پر ستن (07) اسکولن جي تعمير]
- (c) SBEP پئڪیج-14 [ضلعی ڪشمور (تعلقہ تنگواڻي، ڪنڌڪوٽ ۽ ڪشمور) پر ڏهن (10) اسکولن جي تعمير]
- (d) SBEP پئڪیج 15، ڪراچي-2 [ضلعی ڪراچي (اورنگي، لياري ۽ ڪياماڙي ٽالوس) پر چئن (04) اسکولن جي تعمير]

1. سندھ بیسک ایجوکیشن پروگرام (SBEP)، پروگرام مئنيجمينٽ اينڊ ايمپلوميٽيشن يونٽ (PMIU)، اسکول ایجوکیشن دیپارٹمنٽ، حکومت سندھ (دي پروڪيورنگ ايجنسي "PA") کي سنڌ جي چونڊ ضلعن ۾ اسکولن جي تعمير ڪرڻ جي لاڳت جي ڏس ۾ يونائيٽيڊ اسٽيٽس ايجنسي فار انٽرنيشنل ڊولپمينٽ (USAID) وٽان فنڊ مليا آهن ۽ اهو ارادو آهي تہ فنڊن جي حصي کي ضلعی جیکب آباد، ڪشمور ۽ ڪراچي ۾ ڪانٽريڪٽ تحت اهل اداڪارن تي صرف ڪيو وڃي.
2. ساک وارين ۽ اهل ڪانٽريڪٽر فرم/ڪمپنين کان جيڪي پاڪستان انجنيئرنگ ڪائونسل (PEC) وٽ ڪنٽريڪٽري C-2 ۽ ان کان مٿي ۾ رجسٽرڊ ٿيل ۽ بلڊنگ جي ڪم ۾ تجربو رکندڙ هجن، تن کان ايس بي بي رول-2010 جي سنگل اسٽيج ون ايفويلڊ واڪ جي طريقن تحت مهربند واڪ گھرائڻ ٿا. اهي فرمون/ڪمپنيون دامطيار سرڪاري ڪانٽ/ايجنسين ۽ ٽيڪسيشن اختيارين (FBR ۽ SRB) وٽ پن رجسٽرڊ ٿيل هجن. ڪانٽريڪٽنگ ڪمپنيون هڪ يا وڌيڪ پئڪيجز ۾ شرڪت ڪري سگھن ٿيون. هر پئڪيج لاءِ واڪ، بهرحال، الڳ لافاني ۾ اماڻيو ويندو.
3. واڪ ڪاغذن جو مڪمل سيٽ سافٽ ڪاپي (CD) ۾ پروڪيورنگ ايجنسي جي آفيس ائڊريس تان آفيس وقت دوران وٺي سگھجي ٿو. واڪ ڪاغذ SPPRA ويب سائٽ: <http://www.pprasindh.gov.pk/activetenders.php> ۽ پروڪيورنگ ايجنسي جي سرڪاري ويب سائٽ: <http://www.sbec.gos.pk/> ۽ <http://www.tenders.php> تان پڻ هن ٽينڊر نوٽيس جي اشاعت جي تاريخ کان ڊائون لوڊ ڪري سگھن ٿا.

4. سڀني اسکول سائٽس جي پري، بڊ بيلڊ ورتس هيلٿين پروگرام مطابق صبح 9.00 وڳي منعقد ڪيون وينديون:
 - پئڪیج 13A لاءِ (16 مئي، 2017)
 - پئڪیج 13B لاءِ (17 مئي، 2017)
 - (ڊپٽي ڪمشنر آفيس جیکب آباد گڏجاڻي جو هنڌ) پئڪیج-14 لاءِ (18 مئي، 2017)
 - (ڊپٽي ڪمشنر آفيس ڪشمور گڏجاڻي جو هنڌ) پئڪیج-15 لاءِ (22 مئي، 2017)
 - (D-29، بلاڪ 02 ڪلفٽن ڪراچي گڏجاڻي جو هنڌ)

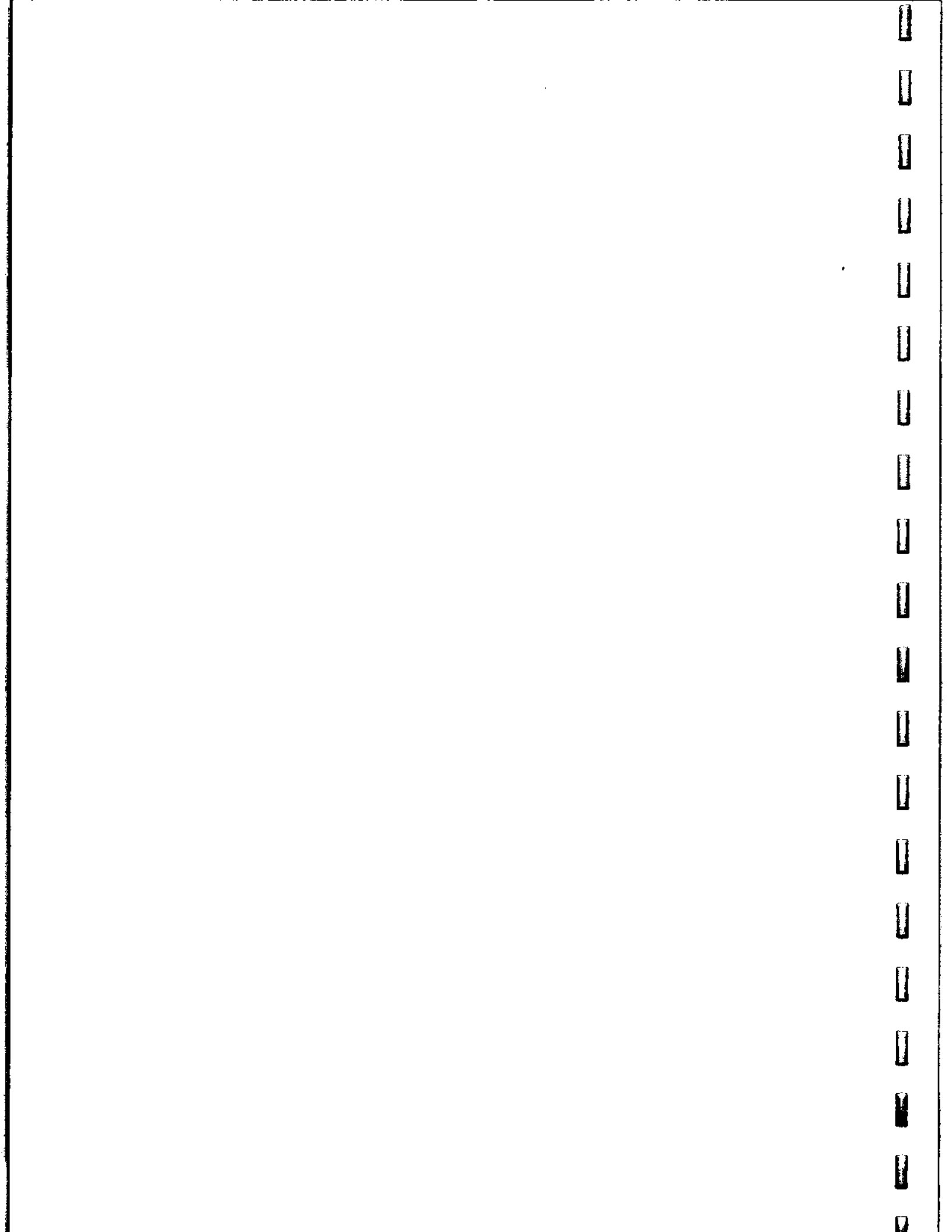
5.
6. خواهشمند واڪ ڏيندڙن کي گذارش ٿي ڪجي تہ هر هڪ پئڪيج لاءِ الڳ ڪمپني جي ليئر هيڊ تي "ليئر آف انٽينشن" سان گڏ NTN، PEC ۽ SRB جي ڪارگر دفتر ڪمپني جي ڪاپي ۽ ٽينڊر في 500 روپيا/هر هڪ پئڪيج (نافائل واپسي) جي ادا ڪيل چالان/رسيد سان گڏ جيڪي سنڌ بينڪ نميٽيڊ جي ڪنهن به برانچ ۾ بحق "PD PMIU SBEP" ڪائونٽ نمبر: 1000-165311-0302 پر 29 مئي 2017 تائين جمع ڪرايل، موڪليا وڃن.
7. سمورن واڪن سان واڪ سيڪيورٽي جانايل وڪ قيمت جي %1.25 جي مساوي رقم پاڪ رين ۾ پري آرڊر/مانڊ ڊرافٽ/بينڪ گارنٽي (تبدیل ٿيڻ جوڳي) جيڪا پاڪستان جي ڪنهن به شيڊيولڊ بينڪ پاران بحق "PD PMIU SBEP" جاري ٿيل لازمي شامل ڪيل هجي. واڪ سيڪيورٽي واڪ کولڻ جي تاريخ کان 118 ڏينهن ڪارگر رهندي.
8. هر لحاظ کان مڪمل ٿيل واڪن تي ڀرنت ٿيل، صحيح ٿيل، نيو ۽ نمبر لڳل هارڊ ڪاپي ۾ (هڪ اصل ۽ هڪ ڪاپي) گهريل واڪ سيڪيورٽي سان گڏ پي اي آفيس (انڊريس مٿي ڏنل) پر 21 اپريل، 2017 تي صبح 11:00 وڳي تائين يا ان کان اڳ اماڻيا وڃن. سمورا واڪ هٿوٿ يا ٽيپال/ڪورير سروس ذريعي اماڻيا وڃن جن تي واضح نموني ۾ مهربند لافاني تي: "مڪمل پئڪيج جو نالو" لکيل هجي ۽ معنيٰ جانايل وقت کان اڳ PA آفيس ۾ لازمي پهچڻ گهرجن.
9. واڪ ساڳي انڊريس تي موجودگي جي خواهشمند واڪ ڏيندڙن جي نمائندن جي روبرو 31 مئي 2017 تي ڪوليا ويندا. واڪ جي ڪارگر هٿن جو مدو واڪن کولڻ جي تاريخ کان 80 ڏينهن هوندو. سمورن واڪن جي چنڊ چان واڪ ڪاغذن جي واليومر-آر ڊبل "ايفڪس-جاري تو ڊبنگ ڊيٽا؛ اوليو هون ڪريٽريا" مطابق SPPRA رولز-2010 تحت "پوسٽ ڪواليفڪيشن" طريقي تي ڪئي ويندي.
10. واڪ ڏيندڙ مضمون واري ٽينڊر سان واسطو رکندڙ معلومات/يا وضاحت لکت ۾ ڏيڻ سان PA آفيس مان آفيس وقتن دوران وٺي سگھن ٿا. پروڪيورنگ ايجنسي ايس پي بي رولز 2010 مطابق واڪ جي طريقن ڪار کي روڪڻ يا ڪوبه ٻي سڀني واڪ رد ڪرڻ جو حق محفوظ رکي ٿي.
11. هن پروگرام خلاف بد عنواني جون شڪايتون جيڪڏهن ڪي هجن. ويب سائٽ: <http://www.antifraudhotline.com>، ٽرل فري نمبر: 0800-84700، اي ميل آيت: complaints@anti-fraudhotline.com تي يا ذاتي طور 5-C، سيڪنڊ فلور، خيaban اتحاد، VII-فيڙو، ڪراچي، پر ڪري يا فيڪس نمبر: 35390410-021 ذريعي موڪلي سگھجن ٿيون.

پروگرام ڊائريڪٽر

INF/KRY.No:2553/2017

D-29، بلاڪ-2، ڪلفٽن، ڪراچي، ٽيليفون: 92-21-35296931-33-40، فیکس: 92-21-35296835

www.sbec.gos.pk، 92-21-35296835





USAID
FROM THE AMERICAN PEOPLE



GOVERNMENT OF SINDH, SCHOOL EDUCATION DEPARTMENT

Project Management Implementation Unit (PMIU)

SINDH BASIC EDUCATION PROGRAM

Construction of Schools in Karachi, Sindh

(Orangi, Lyari & Kemari Towns)



PACKAGE NO. SBEP-P15-KHI-2

Tender & Contract Documents

Volume-I

Instructions to Bidders

Bidding Data

Tender & Contract Forms

Conditions of Contract

March 2017



GOVERNMENT OF SINDH, SCHOOL EDUCATION DEPARTMENT

Project Management Implementation Unit (PMIU)

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Volume Distribution

Volume-I:

Instructions to Bidders

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Conditions of Contract

Volume-II:

Bill of Quantities

Volume-IIIA:

Specifications – Special Provisions

Volume-IIIB:

Specifications – Technical Provisions

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NOTICE INVITING TENDER



USAID-Sindh Basic Education Program
Program Management & Implementation Unit
School Education Department, Government of Sindh
Tel No. 021-35296931, Fax No. 021-35296935
D-29, Block-2, Clifton Karachi
NO: SBEP/USAID/PD/ /2017
Karachi. Dated: / /2017

USAID Grant No: SC-22051 (051)

Bid Reference No: SBEP-P15-KHI-2

NOTICE INVITING TENDER

Construction of Four (04) Schools in Karachi Sindh (Orangi, Lyari & Kemari Towns)

The Program Management & Implementation Unit (PMIU), School Education 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 funds will be applied to eligible payments under the contract for the *Package No: SBEP-P15-KHI-2: Construction of Four (04) Schools in Karachi Sindh (Orangi, Lyari & Kemari Towns)*.

These school shall typically comprise of state of the art two story buildings of covered area up to 11000 Sft with classrooms, verandah, administration & staff rooms, library, computer & science labs, lavatory blocks, clinic, compound wall, ramp for disabled, multipurpose hall, drinking water, water filtration & purification system and external development, all strictly in line international standards.

PA invites sealed bids under *Single Stage One Envelope (Post-Qualification)* Bidding Procedure as per SPP Rules, from reputed & eligible contractor firms / companies registered with Pakistan Engineering Council in *Category C-2 & C-3* and experienced in building works/projects. The firms/companies must also be registered with SRB & SRB. The contractor firms already pre-qualified for Sindh Basic Education Program (SBEP) are also eligible to participate in bidding process as well, however; they will have to provide information regarding their company afresh as prescribed below and fill in the technical criteria provided in the bidding documents. These companies will be re-evaluated for the purpose of this tender.

The Bidding Documents may be downloaded from SPPRA website: <http://www.pprasindh.gov.pk> and also from Procuring Agency's official website: <http://www.sbec.gos.pk> with effect from the date of publishing of this Tender Notice

In case of problem in downloading documents from above referred websites, the complete set of bidding document in soft format (CD) may be obtained from the Procuring Agency's office at D-29, Block-2, Clifton Karachi during office hours.

All the interested bidders are requested to submit a "Letter of Intention" by addressing "*The Program Director, Program Management & Implementation Unit (PMIU), Sindh Basic Education Program, School Education Department, Government of Sindh*" to participate in the bidding for the subject tender on company's letterhead along with copies of valid NTN, SRB & PEC certificate and original paid Challan/receipt of non-refundable tender fee of Rs.2,000/- which is to be deposited in the nearest branch of Sindh Bank Ltd. Bank Account No. 0302-1653-111000" (Account Title: "*PD PMIU SBEP*") on or before _____ (date)

All bids must be accompanied by a Bid Security which must be valid upto 28 days beyond the validity period of bid (90 days) (90+28=118 days) in the amount equivalent to 1.25% of quoted bid amount in Pak Rupees or an equivalent amount in a freely convertible currency either in the form of Pay Order/ Call Deposit/Demand Draft/ Bank Guarantee (verifiable) issued by any scheduled Bank of Pakistan in favour of "PD PMIU SBEP" and must be submitted along with sealed bids.

The Bids completed in all respects in accordance with IB-11 are required be printed, signed, stamped and submitted in hard copy (Complete Set in one Original & One Copy of both Technical & Financial proposals) along with required Bid Security as indicated above to PA office (addressed as above) on or before _____ (Date) up to _____ (Time). The bids sent by mail/courier service should clearly mark the sealed envelope: "BID" and must be received to PA office before the mentioned timeline.

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 from the date of opening of Bids.

Bidders may obtain further information and/or clarification relevant to subject tender from the office of Procuring Agency during office hours in writing

Pre-bid field visits to all the school sites in District Jacobabad will be held on _____ 2017. The gathering point for the field visit will be _____ (Address) at 0900 hours. All expenses including travelling, lodging etc. shall be borne by the participating bidders on their own. Further details about field visits may be obtained from _____.

A pre-bid meeting shall be held _____ 2017 at 1100 hours at PMIU office (address as above). The bidders may send their queries according to sub-clause: *IB-8.1, Instructions to Bidders*

All bids shall be evaluated on "*Post-Qualification*" method as per SPPRA Rules 2010 in accordance with "*Annexure-A to Bidding Data: Evaluation Criteria*" given in Volume-I of Bidding Documents. Hence, all the Bidders are required to provide all the information/data along with documentary evidence as per given Evaluation Criteria and submit as *Technical Proposal* accompanied by required Bid Security in a separate envelope along with their Bids.

Procuring agency reserves right to annul the bidding process and reject any or all bids/proposals only as per SPP Rules 2010.

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 Contractor Firms/ Companies registered with Pakistan Engineering Council (PEC) in relevant category of work and are eligible as stipulated in Bidding Data.

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.

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 (Alternate Proposals by Bidder)) 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 & Bidding Data.
 2. Form of Bid & Appendices to Bid [App A to K except App-D].
 3. Appendix-D to Bid (Bill of Quantities) [as separate Volume-II].
 4. Sample Forms:
 - (i) Bid Security (Bank Guarantee)
 - (ii) Performance Security
 - (iii) Contract Agreement
 - (iv) Mobilization Advance Guarantee/Bond
 - (v) Indenture Bond for Secured Advance
 5. General Conditions of Contract, Part-I (GCC).
 6. Particular Conditions of Contract, Part-II (PCC).
 7. Specifications – Special Provisions [as separate Volume-III A].
 8. Specifications – Technical Provisions [as separate Volume-III B].
 9. Tender Drawings [as separate Volume-IV].

- 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 and no. of days before Pre-Bid meeting as indicated in Bidding Data. 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 bids, 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 All bidders shall:
- (a) submit a written power of attorney authorizing the signatory of the bid to act for and on behalf of the bidder;

- (b) submit the updated information as indicated/ or listed in Bidding Data & previously submitted along with the application for prequalification (if applicable), in order to continue meeting with the minimum criteria set out in the prequalification documents.
- (c) Furnish & submit their updated Company Profile 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 partners 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 Bidders are required to submit, Rate Analysis of all the major items of works described in the Bill of Quantities. All government taxes including GST should also be mentioned & highlighted separately in Rate Analysis.
- 12.4 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. All government taxes including GST should also be mentioned & highlighted separately.

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.

- 12.5 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 Instructions to Bidders , Sub-Para 4(ii) of Section C, 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 three (03) 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 only 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 (Technical & Financial including all attachments)

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 bidding documents 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 documents. 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 Technical Evaluation Criteria (Annexure-A to Bidding Data) 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 and as indicated in Bidding Data
- 26.3 A substantially responsive bid is one which (i) meets the eligibility criteria; (ii) has been properly signed; (iii) is accompanied by the required Bid Security & all required appendices/annexures/attachments; and (iv) conforms to all the terms, conditions and specifications of the Bidding Documents, without material deviation or reservation. A material deviation or reservation is one (a) which affect in any substantial way the scope, quality or performance of the Works; (b) which limits in any substantial way, inconsistent with the Bidding Documents, the Employer's rights or the bidder's obligations under the Contract; or (c) 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/ies 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 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 25)

- 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.

31.7 Redressal of Grievances (SPP Rule 31)

A bidder may being aggrieved by the decision of the procuring agency regarding disqualification may seek relief through the mechanism of grievance redressal as provided under SPP Rule 31 (Refer SPP Rules 2010, Page #19)

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 14 days 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 signatures of both the procuring agency and the successful bidder are affixed to the written Contract Agreement. Such affixing of signatures shall take place within the time specified in the Bidding Data. Provided that the procuring agency may reduce the maximum time limit for signing of contract, as and when required, and shall be notified to successful bidder.
- 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 debaring him from participation in future bidding process.

IB.35 Integrity Pact (SPP Rule 89)

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, Govt. of Sindh, D-29, Block 2, Clifton, Karachi

1.1 Name of the Project & Summary of the Works:

Construction of New Schools for up-gradation of existing schools in seven districts of Sindh and selected towns/areas of Karachi under Sindh Basic Education Program (SBEP)

Package No. SBEP-P15-KHI-2: *Construction of Four (04) Schools in Karachi Sindh (Orangi, Lyari & Kemari Towns)*

- 1) P15- KHI-127 (GBPS Frontier Colony No. 1, Orangi Town)*
- 2) P15- KHI-128 (GBSS No.9 Sector 8/L, Orangi Town)*
- 3) P15- KHI-129 (GBPS Gulistan Colony, Lyari Town)*
- 4) P15- KHI-130 (GBPS Weeharabad, Kemari Town)*

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.

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

3.1 Eligible Bidders

This Invitation for Bids is open to all interested Contractor Firms Companies registered with Pakistan Engineering Council (PEC) in Category C-2 & above and experienced in Building Works/Projects. The firms/companies must also be registered with relevant Government Departments and Taxation Authorities (FBR & SRB).

The Contractor firms already Pre-Qualified for Sindh Basic Education Program (SBEP) are also eligible to participate in bidding process as well, however they will have to provide all information regarding their company afresh and will be re-evaluated for the purpose of this tender.

The Procuring Agency reserves the right to restrict a bidder not to participate in the bidding of subject work who already have been awarded three (03) SBEP construction packages.

8.1 Time limit for clarification:

Bidders may seek clarification regarding Bidding Documents by sending their queries in writing at least three (03) days before Pre-Bid Meeting.

10.1 Bid language:

English

11.1 (b) Prequalification Information to be updated:

The Contractor firms already Pre-Qualified for Sindh Basic Education Program are also eligible to participate in the subject bidding for which they shall be required to submit a fresh & updated Company Profile comprising of all the required information as per Evaluation Criteria (Annexure-A to Bidding Data) and in accordance with Instructions to Bidders, Clause: IB-11 along with their Bids.

11.1 (b) Furnish Company Profile (Technical Proposal):

Company Profile need to be prepared & submitted as Technical Proposal along with Bids in separate envelope containing all the required category wise information/data as indicated in Evaluation Criteria given as Annexure-A to Bidding Data dully supported by all relevant evidences as attachments.

11.2 Bids submitted by a Joint Venture:

Registration with PEC is mandatory for both partners of Joint Venture. The lead partner of JV must be registered in C-2 or above; however, next the partner registered in C-3 may be considered. Both JV Partners are required to meet the minimum requirements to perform the contract. Hence, both JV partners shall be evaluated individually and failure of any one JV partner shall be considered as failure of Joint Venture.

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 1.25% of quoted 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:

Venue: Office of Program Management and Implementation Unit, Sindh Basic Education Program (SBEP), H No D-29, 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 Original plus One (01) Copy of all tender documents. However the drawing set shall be acceptable original only with the bidders sign and stamp.

19.1 Sealing and Marking of Bids

ORIGINAL and ONE (01) COPY of the Bid shall be separately sealed and put in separate envelopes and marked as such.

Each Bid (original + Copy) should be put in single envelope having three separate envelopes inside marked with "Bid Security", "Financial/Priced BoQ" and "Technical Bid/Proposal/ Company Profile" documents including all appendices".

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

*The Program Director,
Program Management and Implementation Unit,
USAID-Sindh Basic Education Program (SBEP),
School Education 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-P15-KIII-2**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 D-29, 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 procedure. However, it is essential that each bidder shall submit their data/information required as per Evaluation Criteria attached as Annexure-A to Bidding Data and Appendices to Bid in order to demonstrate responsiveness.

28. Evaluation and Comparison of Bids

As per Post-Qualification method, following steps may be adopted while evaluating Bids:

- 1) Opening of sealed Bids (Financial Proposals) in presence of representatives of all bidders who wish to attend Bid Opening meeting.*
- 2) Preliminary Evaluation & Determination of Responsiveness as per us per 1B-26*

3) Detailed Evaluation:

- i. *All the Bids found Responsive during Preliminary Evaluation shall be financially evaluated for comparison of Rates & Bid Prices. Non-Responsive Bids shall be rejected without any further step of evaluation.*
- ii. *The 1st lowest evaluated responsive Bidder shall now be technically evaluated for the determination of his Post-Qualification as per Evaluation Criteria (Annexure-A to Bidding Data) and other requirements to perform the Contract set forth in the Bidding Documents.*
- iii. *If the 1st lowest evaluated responsive Bidder is found technically qualified and well capable to perform the contract, the Bidder shall be considered for recommendation of award of works. In this case, the next lowest (i.e. 2nd lowest & onward) bidders shall not be technically evaluated.*
- iv. *If the 1st lowest evaluated responsive Bidder is not found technically qualified and doesn't have the capability to perform the contract, the Bidder shall be considered as Dis-Qualified and his bid shall be rejected.*
- v. *In such event, the Procuring agency shall make a similar determination for the next-lowest (i.e. 2nd lowest) evaluated responsive bidder. In such case, if the 2nd lowest evaluated responsive Bidder is found Technically Qualified and Capable to perform the contract, the Bidder shall be considered for recommendation of award of works.*
- vi. *If 2nd lowest evaluated responsive Bidder is also found incapable to perform the contract & became disqualified, the similar determination shall be made for the next lowest (i.e. 3rd lowest) and onward evaluated responsive bidders till the technically qualified & capable bidder is found from all the financially evaluated responsive bidders.*

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

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 must be valid up to the 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 of Government of Sindh-latest version. The updated schedule can be obtained from the office of Chief Inspector of Stamps, Sindh Board of Revenue, opposite MPA hostel, High Court Road, Karachi.

Annexure-A to Bidding Data

Evaluation Criteria

Annexure-A to Bidding Data**EVALUATION CRITERIA**

Note:	<ul style="list-style-type: none"> ❖ <i>The Evaluation of Bids shall be based on the criteria given below in detail in order to determine Bidder's Technical & Financial Capabilities to perform the contract.</i> ❖ <i>The Procuring Agency reserves the right to waive minor deviations, if these don't materially affect the capability of a Bidder to perform the contract.</i> ❖ <i>Sub-contractor's experience and resources shall not be taken into account in determining the Bidder's compliance with the qualifying criteria. However, Joint Venture experience & resources shall be considered. Consortium or Association of firms will be considered for similar treatment as in case of Joint Venture.</i> ❖ <i>Bidders are required to provide evidence/supporting documents with respect to all information given here under in all sections.</i> ❖ <i>The applicant must secure at least 50% score in each category and 70% score cumulatively (i.e. If a firm acquires score less than 70% cumulatively, it will be considered as "fail in aggregate")</i> ❖ <i>In case of Joint Venture, Registration of all partner companies shall be individually considered in their relevant PEC Category). If any of JV partner doesn't have valid individual registration, the Joint Venture shall be considered as Non-Responsive and shall be rejected without any further evaluation.</i>
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MANDATORY INFORMATION:

All the Bidders are required to provide below mentioned mandatory information/data supported by copies of valid documents as evidence, failing which the Bid shall be considered as Non-Responsive and shall be rejected without further evaluation.

(A) Contact Information:

1.	Name of Company/ Firm/ JV	
2.	Address of registered office	
3.	Phone & Fax Nos.	
4.	Email Address	
5.	Contact detail of focal person for communication on behalf of firm.	

(B) General Information:

1.	Registration with PEC: Copy of valid Registration Certificate with PEC in relevant Category (i.e. C-2 or above)
2.	Registration with relevant Govt. Departments/Authorities: Copy of valid Registration Certificate
3.	Registration with FBR & SRB: (i) Copy of valid NTN issued only on the name of Company or JV); and (ii) Copy of Valid SRTN (Registration with SRB)
4.	Number of years of company establishment: Copies of Partnership Deed, Articles of Associations, Joint Venture deed etc.
5.	Valid Electrical License: Copy of valid Electrical License of Sub-Contractor or JV Partner (Applicable & Valid for entire project area).
6.	Blacklisted/Debarred from any agency: All Details to be submitted OR Affidavit to the effect that the firm/company has not been Blacklisted/Debarred by any Govt. Deptt./Organization or Private Firm/Organization.
7.	Litigation History: All Details to be submitted OR Affidavit to the effect that the firm/company has not been involved in Litigation nor being Black Listed by PEC & any Procuring Agency, Govt. Deptt/NGO or Private firm

Note: ➤ *Affidavits as mentioned in serial No. 6 & 7 above are required to be submitted separately on judicial stamp paper of appropriate value with proper wording duly signed & stamped by Deponent with Two Witnesses and endorsed & attested by Notary Public.*

➤ *Affidavits furnished on company's letter head or furnished on judicial stamp paper with the heading: "UNDERTAKING" are not accepted as affidavit.*

➤ *Providing false statement that the firm is not black listed by any government department/ private client in this regard would lead to disqualify from the process regardless of the fact that firm is qualifying otherwise*

1. FINANCIAL SOUNDNESS (MAX. MARKS = 20)

Sr #	Description	Max Marks	Criteria for Marks Obtained
1.1	Available Bank Credit Line <u>Documents Required:</u> ➤ Current dated Bank certificate indicating the amount of Credit offered by the bank for the specific works of subject Tender. ➤ Any Conditional Bank Certificate of credit shall not be acceptable. ➤ The bank certificate for any other project or general bank certificate shall not be acceptable.	10	➤ 10 marks will be given if the available bank credit line limit is equal to or greater than Rs.150 Million. ➤ For limit less than Rs. 150 Millions, the weightage will be used, $10 \times (A/150)$ where A= Amount in Million for which the firm has submitted verified details of credit line ➤ "A" should not be less than Rs. 100 Millions
1.2	Working Capital in last 03 years <u>Documents Required:</u> ➤ Audited reports of last 03 years are required to be submitted. ➤ No marks will be given if no evidence or invalid evidence is provided. ➤ Negative working capital (i.e. if average working capital calculated is in minus) shall not be considered for marking.	10	➤ 10 marks will be given if the available average working capital for last three years is equal to or above Rs.200 Million. ➤ For the capital less than Rs.200 Million use the weightage, $10 \times (A/200)$, where A= Amount in Million ➤ "A" should not be less than Rs. 100 Millions

2. EXPERIENCE RECORD -- (MAX. MARKS = 30)

Sr #	Description	Max Marks	Criteria for Marks Obtained
A. PROJECTS COMPLETED			
2.1	Projects of Building works completed anywhere in Pakistan in last 10 years. The Building Projects having individual cost of Rs. 200 M or above substantially completed during last 10 years in the capacity of contractor shall only be considered. Multiple building projects of smaller costs with cumulative cost of 200M shall not be considered as single project for marking. Repair/ Rehabilitation works of buildings shall not be considered as "Projects" for marking. <u>Documents Required:</u> ➤ Substantial Completion Certificate or Taking-Over Certificates for each completed project issued by the Consultant/ Client.	14	➤ 10 Marks will be given if the contractor has completed 04 Projects of Building Works having individual cost Rs. 200 M or above for each project in last 10 years. ➤ For less than 04 projects completed, use the weightage, $10 \times (A/4)$, where A= No of projects completed. ➤ No Marks will be given for works/ projects having individual cost less than Rs.200 M
2.2	Projects of Civil works completed anywhere in Pakistan in last 05 years Civil works/ projects substantially completed during last 05 years in the capacity of contractor. The projects having individual cost of Rs. 200 M or above shall only be considered. Multiple projects of smaller cost with cumulative cost of 200 M or above shall not be considered for marking. <u>Documents Required:</u> ➤ Substantial Completion Certificate or Taking Over Certificates for each completed project issued by the Consultant/ Client.	08	➤ 10 Marks will be given if the contractor has completed 03 general civil work projects (like special structure, infrastructure works, bridges, repair & re-habilitation works or any other general civil works) having individual cost Rs.200 M or above for each work/project in last 05 years. ➤ For less than 03 projects completed, the weightage will be used, $10 \times (A/3)$, where A= No of projects completed. ➤ No Marks will be given for works/ projects having individual cost less than Rs.200 M

Construction of Four (04) Schools in Karachi (Orangi, Lyari & Kemari Towns)

Sr #	Description	Max Marks	Criteria for Marks Obtained
B. PROJECTS IN-HAND			
2.3	<p>Projects of Building works in hand having individual cost of Rs. 200 M or above awarded in the capacity of main contractor shall only be considered.</p> <p><u>Documents Required:</u></p> <ul style="list-style-type: none"> ➤ Performance Certificate for each project in-hand issued by Consultant/Client. ➤ Submitting only Letter of Award (LOA) or Work Order without performance certificate shall not be considered for marking. 	05	<ul style="list-style-type: none"> ➤ 05 Marks will be given if the contractor has 03 projects of civil works in-hand having individual cost Rs. 200 M or above. ➤ For less than 3 projects in-hand use the weightage, $5x(A/3)$ where A=No of projects in-hand
C. ELECTRICAL WORKS			
2.4	<p>Electrical works carried out during last five (05) years by the contractor or his Sub-Contractor or JV Partner.</p> <p><u>Documents Required:</u></p> <ul style="list-style-type: none"> ➤ Substantial Completion Certificate or Taking Over Certificates for the completed projects issued by the Consultant/ Client. ➤ Only Letter of Award (LOA) or Work Order without completion or performance certificate (if work is in hand) issued by the Consultant/ Client shall not be considered for marking. 	03	<ul style="list-style-type: none"> ➤ 05 marks will be given if the contractor has completed at least 3 projects of similar nature in last five years. ➤ For less than 3 projects completed use the weightage: $5 \times (A/3)$, where A= No. of Electrical Works completed in last five years.

3. PERSONNEL CAPABILITIES (MAX. Marks = 25)

Sr #	Description	Max Marks	Criteria for Marks Obtained
3.1	<p>Graduate Engineers B.Sc. (Civil and other disciplines)</p> <p>Engineers registered with Pakistan Engineering Council (PEC) as Professional Engineer</p> <p><u>Documents Required:</u></p> <p>(i) Evidence of engagement of individuals with the firm i.e. appointment letters, CVs, & valid PEC Registration Certificates must be provided.</p> <p>(ii) Letter of Commitment from at least two Graduate Engineers (Project Manager & Planning Engineer) must be provided.</p> <p>Note: Documents without appointment letter & Letter of Commitment (i.e. only CVs & PEC certificates) shall not be considered for marking</p>	08	<p><u>EXPERIENCE (08 MARKS):</u></p> <ul style="list-style-type: none"> ➤ 08 marks will be given if the individual experience of at least 04 Nos. of B.E. / B.Sc. Civil Engineers (professional) is equal to 10 years or above. ➤ For less than 4 Nos. of Graduate Engineers having individual experience of 10 years, marks will be given as per formulas $= (A/4) \times 8$ where A = No. of Engineers having individual experience of 10 years or above.
		05	<p><u>STRENGTH OF ENGINEERS (05 MARKS):</u></p> <ul style="list-style-type: none"> ➤ 05 marks will be given if total no. of Engineers registered with PEC as Professional Engineer are 05 Nos. or above including at least four (04) Civil Engineers. ➤ For less than 05 Nos. of no. of Engineers, marks will be given as per formula $= (A/5) \times 5$, where A = No. of Engineers

Sr #	Description	Max Marks	Criteria for Marks Obtained
3.2	<p>Associates Engineers (DAE Civil and other disciplines)</p> <p><u>Documents Required:</u> Evidence of engagement of individuals with the firm i.e. copies of appointment letters / letter of commitments, CVs, & valid Diploma issued by relevant Board of Technical Education must be provided)</p> <p>Note: Documents without appointment letters/letter of commitment (i.e. only CVs & Diploma) shall not be considered for marking</p>	06	<p>EXPERIENCE (03 MARKS):</p> <ul style="list-style-type: none"> ➤ 03 marks will be given if the individual experience of at least 04 no. of Associates Engineers (DAE Civil) is equal to 05 years or above. ➤ For less than 04 Nos. of Associates Engineers (DAE) having experience of 05 years or above will be given as per formulas = (A/4)x3, where A = No. of Associate Engineers. <p>Strength of Associate Engineers (03 Marks):</p> <ul style="list-style-type: none"> ➤ 03 marks will be given if the total no. of Associate Engineers (DAE Civil) are 4 Nos. or above. ➤ For less than 4 Nos. of Associate Engineers marks will be given as per formulas = (A/4) x 3, where A = No. of Associate Engineers.
3.3	<p>QA/QC Specialist (in addition to above: 3.1 & 3.2)</p> <p><u>Documents Required:</u> Evidence of engagement of individual with the firm i.e. copy of appointment letter / letter of commitment, CV & valid PEC Registration certificates must be provided</p>	2	<ul style="list-style-type: none"> ➤ Graduate Civil Engineer with at least 5 years relevant experience. ➤ Associate Engineer Civil with at least 10 years' relevant experience
3.4	<p>HSE Supervisor (in addition to above: 3.1, 3.2 & 3.3)</p> <p><u>Documents Required:</u> Evidence of engagement of individual with the firm i.e. copy of appointment letter / letter of commitment, CV & valid PEC Registration certificates must be provided</p>	2	<ul style="list-style-type: none"> ➤ Graduate Engineer specialized in Construction Health & Safety with 3 years' relevant experience. ➤ Construction Health & Safety Officer with 5 years' relevant experience (Non- Engineer)
3.5	<p>Cost Engineer / Quantity Surveyor (in addition to above: 3.1, 3.2, 3.3 & 3.4)</p> <p><u>Documents Required:</u> Evidence of engagement of individual with the firm i.e. copy of appointment letter / letter of commitment, CV & valid PEC Registration Certificates must be provided)</p>	2	<ul style="list-style-type: none"> ➤ Graduate Civil Engineer with at least 07 years or Associate Engineer (DAE Civil) with at least 10 years relevant experience of building projects

4. EQUIPMENT CAPABILITY (Max. Marks = 10)

Sr #	Description	Minimum units required	Marks Assigned	Explanation for Marks Obtained
1	Concrete Mixer Machines	06	01	<ul style="list-style-type: none"> ➤ The equipment listed out here are minimum requirement for subject work but the Bidders are required to provide details of equipment that company actually own or intended to hire on rent or lease. ➤ If company owned, the evidence of ownership of all the equipment must be provided. ➤ If the Bidder intends to hire required equipment on rent/lease etc after the award of subject package, the Bidder must submit an undertaking/affidavit on judicial stamp paper of appropriate value stating that all the required equipment shown shall be hired on rent/lease and shall be readily available at site as per project specifications, quality delivery and work plan requirements.
2	Vibrators	06	0.5	
3	Plate Compactor	02	0.5	
4	Roller	02	0.5	
5	Excavator	02	0.5	
6	Dumper Trucks/Tractor Trollies	06	0.5	
7	Loader / Backhoe	02	0.5	
8	Concrete Hoist	04	01	
9	Generator	02	0.5	
10	Form Work (Plywood & steel plate)	40000 Sft	01	
11	Scaffolding Pipes	30000 Rft	01	
12	Laboratory Testing Equipment	01(Set)	01	
13	Air Compressor (15 HP Cap.)	02	01	
14	Water Truck / Bowsers	04	0.5	

5. OTHERS (MAX. MARKS = 15)**A. Quality Assurance Requirements (Max. Marks = 05)**

Credit Marks shall be awarded on the basis of the following criteria:

Sr. No.	Description	Maximum Marks
i)	<ul style="list-style-type: none"> ➤ Company's owned Quality Control Policy/Manual/standards to be submitted. OR ➤ Quality Control Policy/Manual/standards submitted by the firm & approved by the current/previous projects consultants/procuring agencies/employers to be submitted. 	05

B. Project Understanding and Execution Strategy (Max. Marks = 05)

Credit Marks shall be awarded on the basis of the following criteria:

Sr. No.	Description	Maximum Marks
i)	General Work Plan specific to this project (if awarded) to execute construction works on at least 04 school sites simultaneously with the available resources showing detailed narrative of strategy of works in this particular area of contract package.	03
ii)	Submit proposed material sources in the area intended to be used for construction works. (Different districts).	02

C. HSE Plan (Max. Marks = 05)

Credit Marks shall be awarded on the basis of the following criteria:

Sr. No.	Description	Maximum Marks
i)	<ul style="list-style-type: none"> ➤ Company's owned HSE policy/manual/standards/Plan showing details of health, safety & environmental measures to be taken along with response and mitigation plans with required resources in accordance with prevailing HSE laws and standards to be submitted. OR ➤ HSE policy/manual/standards/Plan submitted by the firm & approved by the current/previous projects consultants/procuring agencies/employers to be submitted. 	05

JOINT VENTURE (JV)

Joint Venture must comply with the following requirements:-

- a) If any of JV partner doesn't have valid individual registration, JV shall be considered as Non-Responsive.
- b) Lead Partner must be registered in Category C-2 or above; however, 2nd Partner may be registered in Category below than C-2.
- c) Lead Partner shall meet at least 35% marks of all qualifying criteria given in Sections 1 to 5 hereinabove
- d) Each of other partners shall meet at least 15% marks of all qualifying criteria given in Sections 1 to 5 hereinabove
- e) The joint venture must collectively satisfy the criteria upto 70 percent (70%) overall marking of Sections 1 to 5 hereinabove for which purpose the relevant figures for each of the partners shall be added together to arrive at the JV's total capacity subject to the total shall not exceed maximum allocated marks in each sub category
- f) Bid shall be signed by all members in the JV so as to legally bind all partners, jointly and severally, and any bid shall be submitted with a copy of the JV agreement providing the joint and several liability with respect to the contract.

CONFLICT OF INTEREST

The Applicant (including all members of a JV) must not be associated, nor have been associated in the past, with the consultant or any other entity that has prepared the design, specifications, and bidding documents for the project, or was proposed as Engineer for the contract, over the last five years. Any such association may result in disqualification of the Applicant.

Annexure-B to Bidding Data

*Notification issued by Govt. of Sindh regarding
Complaint Redressal Committee (CRC)*



(6)

REFORM SUPPORT UNIT
EDUCATION & LITERACY DEPARTMENT
GOVERNMENT OF SINDH
 NO: SBEP/USAID/PD/2013
 Karachi dated: 11th Jan, 2013

NOTIFICATION

No: SBEP/USAID/PD/2013: With the approval of the Competent Authority, and in light of rule 31 of SPPR 2010 following Complaint Redressal Committee (CRC) notified for a complaint about procurement of Goods and civil Works and consultancy Services of Sindh Basic Education Program (SBEP) with immediate effect.

- | | |
|---|----------|
| 1. Special Secretary E & L Department | Chairman |
| 2. Representative of Accountant General Sindh | Member |
| 3. A nominee of USAID as independent Expert | Member |

SECRETARY

EDUCATION & LITERACY DEPARTMENT

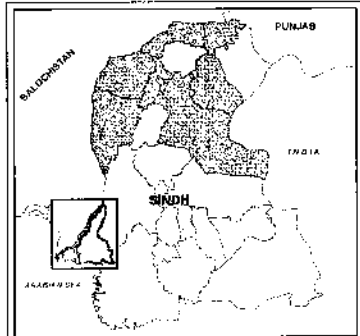
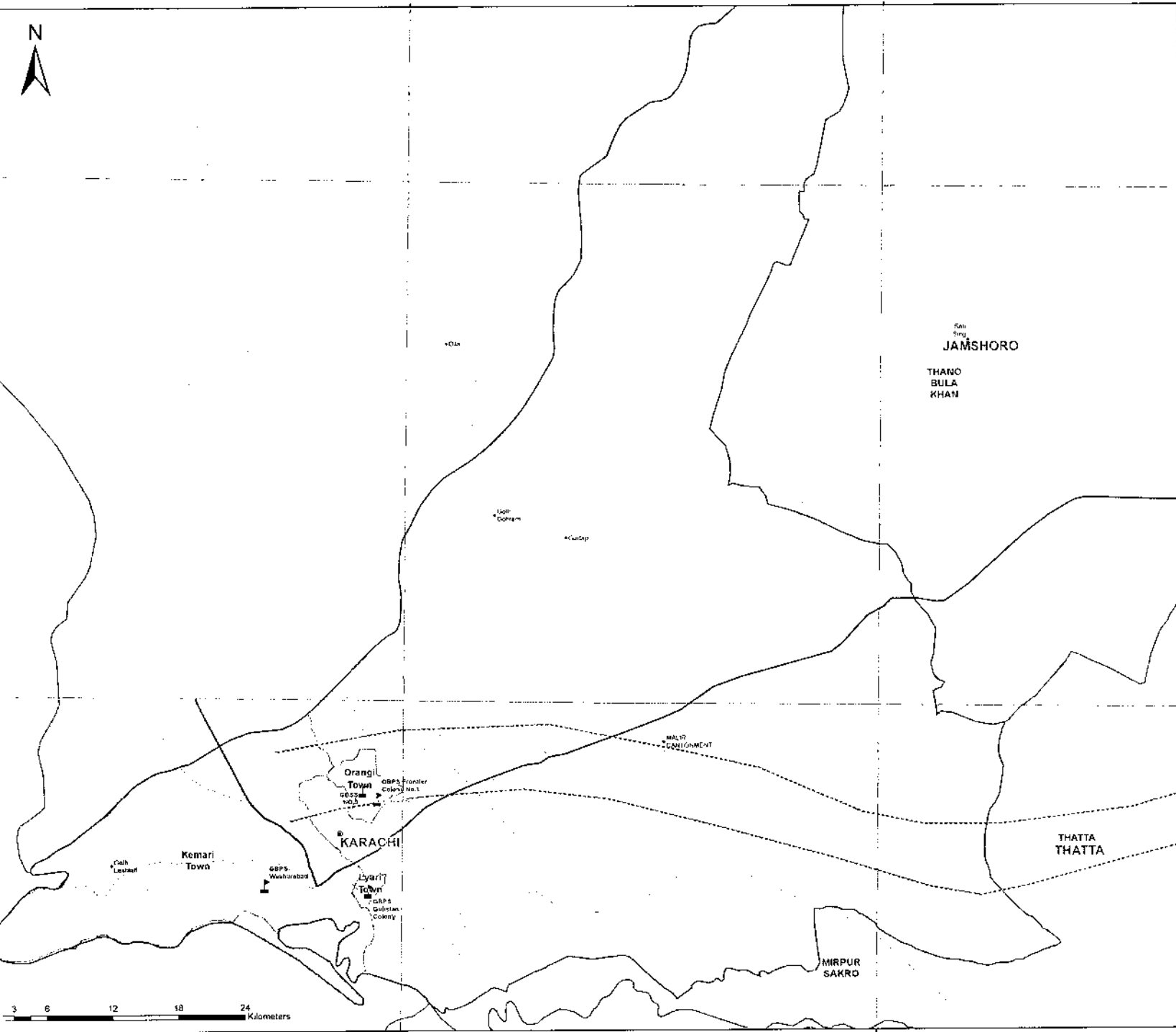
No. SBEP/USAID/PD/2013

Karachi, 11th January, 2013

Copy for information & necessary action to:-

1. Senior Minister, Education and Literacy Department, Government of Sindh, Karachi
2. Additional Chief Secretary (Dev.), P&D Department, Government of Sindh, Karachi
3. Secretary to Governor of Sindh
4. Secretary to Chief Minister Sindh
5. Secretary, Education & Literacy Department, Government of Sindh and Chairperson, Program Steering Committee, Karachi
6. Member, Program Steering Committee, Sindh Basic Education Program
7. Project Director, Sindh Basic Education Program, Education & Literacy Dept, Government of Sindh, Karachi
8. Chief Program Manager, Reform Support Unit, Education & Literacy Department, Govt of Sindh, Karachi
9. Deputy Secretary (Staff) to Chief Secretary Sindh
10. Deputy Chief Secretary Sindh
11. Joint Secretary (Contract), SG&CD, Government of Sindh, Karachi

Schools Location Plan



Legend

- Recommended School
- City / Town
- Major City
- Provincial Boundary
- District Boundary
- Taluka Boundary
- Package-15 (Kemari Lyari & Orangi)
- Railway
- National Highway
- Major Road
- Streams

TENDER ISSUE

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CLIENT
 PROGRAM MANAGEMENT & IMPLEMENTATION
 UNIT: CBEP SCHOOL EDUCATION
 DEPARTMENT: GOVERNMENT OF SINDH

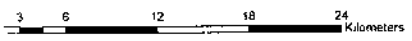
CONSULTANT
 Halcrow Pakistan (Pvt.) Limited
 A-10, Commercial Street, F-7/1, Islamabad
 TEL: 37310000
 FAX: 37310001
 E-MAIL: info@halcrow.com.pk

SCOPE OF WORK
 A & E Services for the Construction of Schools in Sindh Stage II Sindh Basic Education Program

PROJECT
 PAC-40E-15 LOCATION PLAN
 DISTRICT: KARACHI
 (KEMARI LYARI & ORANGI)

Drawn by	A	DA	27/11/2017
Checked by	W	DA	27/11/2017
Reviewed by	S	DA	27/11/2017
ISSUED TO	SBCP/P15		0

Scale: 1:100,000
 Date: 2017/11/27



67°50'E

67°30'E

**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 Liability 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	20 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 calendar 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 each Interim Payment Certificate upto the maximum limit of 5% of Contract Value/Price
10.	Maximum Limit of Retention Money	14.3	5% of Contract Price as stated in the Letter of Acceptance.
11.	Minimum amount of Monthly Interim Payment Certificates (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 the 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

The Bidder may indicate here in below his requirements of foreign currency (if any) with reference to various inputs to the Works.

Foreign Currency Requirement as percentage of the Bid Price of Provisional Sums _____ %.

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	0.80	
(ii)	Cement – in bags	0.07	Government of Pakistan (GP) Federal Bureau of Statistics (FBS) Monthly Statistical Bulletin (Inter-City Consumer Prices).
(iii)	Reinforcing Steel	0.10	“ “ “
(iv)	Bricks	0.03	“ “ “
	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 of ½” dia bar shall be referred as representative to all diameters. For Cement, prices of Ordinary Portland Cement (OPC) shall be referred as representative to all types of cements used in the project 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 Procuring Agency'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	20 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 Procuring Agency.

- | | |
|------|--|
| MS-1 | Temporary School facility, demolition and foundation footings <ul style="list-style-type: none"> • Temporary school facilities • Demolition of existing blocks and site clearance • Excavation, Dewatering and Engineered fill • Foundation - footing with 1:4:8 PCC and RCC works |
| MS-2 | 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

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.

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	10%	
2 nd Quarter	15%	
3 rd Quarter	20%	
4 th Quarter	20%	
5 th Quarter	15%	
6 th Quarter	15%	
7 th Quarter	5%	
Bid Price	100%	

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 all 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 not be more than 45 years old. 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:

Signature:

[Scal]

[Seal]

SAMPLE FORMS

BID SECURITY (BANK GUARANTEE)

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 Procuring Agency]

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 Procuring Agency) in the penal sum of the amount stated above for the payment of which sum well and truly to be made to the said Procuring Agency, 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 Procuring Agency'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 Procuring Agency, 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 Procuring Agency without delay upon the Procuring Agency's first written demand without cavil or arguments and without requiring the Procuring Agency to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the Procuring Agency'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 Procuring Agency's designated Bank & Account Number.

PROVIDED ALSO THAT the Procuring Agency 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 Procuring Agency 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 "Procuring Agency") of the one part and _____ (hereafter called the "Contractor") of the other part.

WHEREAS the Procuring Agency 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 Procuring Agency to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Procuring Agency to execute and complete the Works and remedy defects therein in conformity and in all respects with the provisions of the Contract.
4. The Procuring Agency 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

Signature of Procuring Agency

(Seal)

(Seal)

Signed, Sealed and Delivered in the presence of:

Witness:

Witness:

(Name, Title and Address)

(Name, Title and Address)

MOBILIZATION ADVANCE GUARANTEE

Guarantee No. _____ Date _____

WHEREAS _____ (hereinafter called the 'Procuring Agency') has entered into a Contract for _____
 _____ (Particulars of Contract)
 with _____ (hereinafter called the "Contractor").

AND WHEREAS, the Procuring Agency 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 Procuring Agency 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 or Insurance Company acceptable to the Procuring Agency)
 (hereinafter called the "Guarantor") at the request of the Contractor and in consideration of the Procuring Agency 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 Procuring Agency for payment not exceeding the aforementioned amount.

Notice in writing of any default, of which the Procuring Agency shall be the sole and final judge, on the part of the Contractor, shall be given by the Procuring Agency 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.

GUARANTOR

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

WITNESS

1. _____

Corporate Secretary (Seal)

2. _____
(Name Title & Address)

Corporate Guarantor (Seal)

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 qualify 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 respect 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 or 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 (he 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 PROCURING AGENCY

Multilateral Development Bank Harmonized Edition
March 2006
General Conditions

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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 Procuring Agency, 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.

1.1.2.2 "Procuring Agency" 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 Procuring Agency 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 Procuring Agency.)

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 first paragraph.

The contractor's authorized representative or Project Manager must be a graduate civil engineer i.e. BE or B.Sc. (Civil) registered with the Pakistan Engineering Council as Professional Engineer having at least 10 years' experience in the relevant field and should not be more than 50 years old. The Project Manager should be authorized to take instruction from the Engineer and direct contractor's team to complete the works in accordance with the specifications.

In case the Contractor fails to appoint his representative / PM and other staff, as stated above & as indicated 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 Procuring Agency.

(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 Procuring Agency within 7 days after the date on which any such termination has become effective and on the Procuring Agency 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 Procuring Agency 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 Procuring Agency entering into any agreement for hire of essential hired plant pursuant to the contract provisions, all sums properly paid by the Procuring Agency 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 Procuring Agency

The Procuring Agency 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 Procuring Agency and may be deducted by the Procuring Agency from any moneys due or that may become due to the Contractor under the Contract or may be recovered by the Procuring Agency 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 Procuring Agency 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 Procuring Agency 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 Procuring Agency, 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 Procuring Agency 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 Procuring Agency and shall be deductible or recoverable by the Procuring Agency accordingly as aforesaid.

(j) Liability for loss or injury to plant

The Procuring Agency 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 Procuring Agency, 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 Procuring Agency 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 Program

The following paragraphs are added:

The program/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 as De-Escalation 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 Procuring Agency, 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) & (e) are 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 Rs 2.5 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) This Advance including interest shall be recovered in equal installments (maximum up to five (05) installments); recovery shall start from first installment at the expiry of second month after the date of payment of first part of Advance and complete recovery 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 (Secured Advance)

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 :-

- (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 fully recovered (per site per respectively for each material);
- (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
 - c) Aluminum Windows
 - d) Terrazzo Tiles
 - e) Electrical Wires/Cables (sealed packing only)

(II) 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, 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 Procuring Agency

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 Procuring Agency'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 Procuring Agency/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 Procuring Agency. The insurance policies shall be in the joint names of the Procuring Agency, 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 Procuring Agency 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/Procuring Agency.

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 Procuring Agency'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 Procuring Agency proof that the sub-contractor(s) are covered by insurances specified herein for the Contractor.

All policies shall state that:

- i) The Procuring Agency 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 Procuring Agency 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 Procuring Agency 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 Procuring Agency, the Engineer and the Contractor shall be indemnified against all losses.

Procuring Agency use or occupancy: If the Procuring Agency 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 Procuring Agency shall pay any resulting extra cost of insurance.

Loss Procedure: If a loss occurs the Contractor shall, on behalf of the Procuring Agency 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 Procuring Agency shall pay him in accordance with the Engineer's Certificates for that part of the repairs which is the Procuring Agency'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.

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 Procuring Agency's risk.

19.6 **Optional Termination, Payment and release by the Procuring Agency**

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

20.6 **Arbitration**

Text is 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 Sub-Clause 21.1 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 Procuring Agency 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.

2.2 Notice to Procuring Agency and Engineer

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

- a) The Procuring Agency:
**Program Management and Implementation Unit,
Sindh Basic Education Program,
Government of Sindh
H No 29-D, Block 2, Clifton, Karachi Pakistan**
- a) 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,
P.E.C.H.S, Karachi -75400, Pakistan
Tel: +9221 3453 9240
Fax: +9221 3453 5564 |
|--|---|

The following Sub-Clauses 23.1 is added:

23.1 Payment of Taxes including GST

The Contractor, Subcontractors and their employees shall be responsible for payment of all their Income Tax, GST 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 i.e. Procuring Agency.

The Contractor firm is required to provide details & all relevant documentation/evidence of its registration with relevant registration authorities like FBR &/or Sindh Revenue Board and they should submit breakup of Rates and GST paid by them separately for all items given in Price Schedule/BOQ. Also, all paid receipts of GST and/or import duties/taxes shall be made available to the Procuring Agency

Annex PROCEDURAL RULES

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

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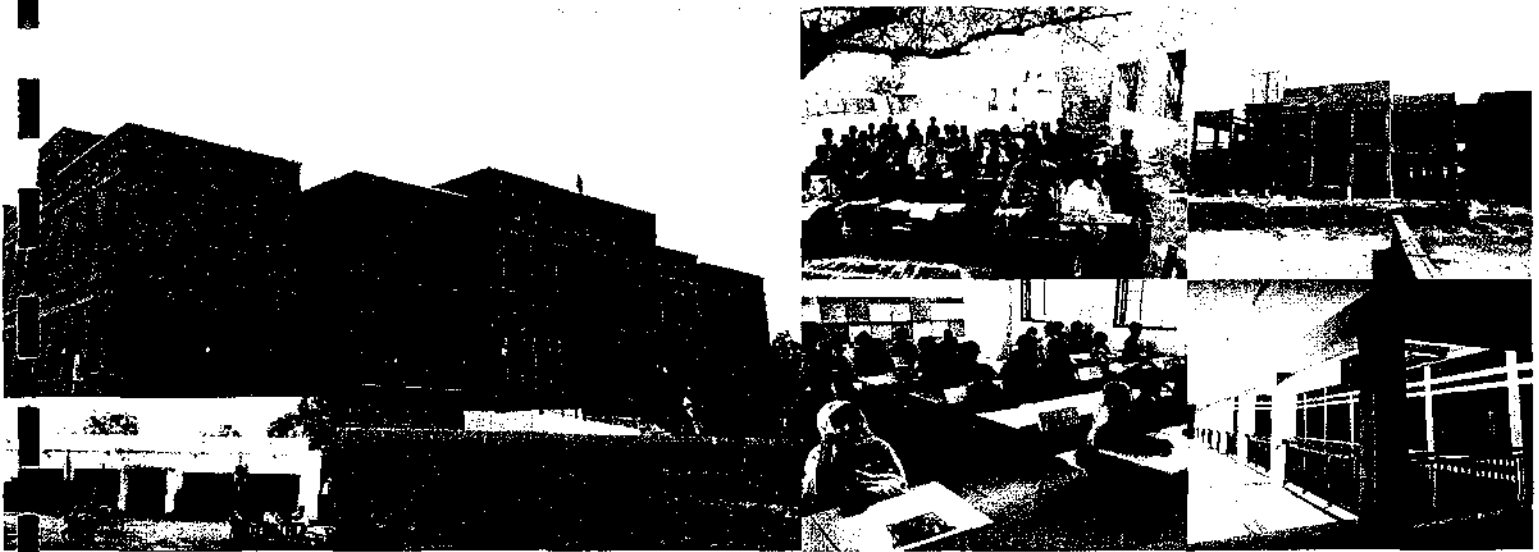
GOVERNMENT OF SINDH, SCHOOL EDUCATION DEPARTMENT

Project Management Implementation Unit (PMIU)

SINDH BASIC EDUCATION PROGRAM

Construction of Schools in Karachi, Sindh

(Orangi, Lyari & Kemari Towns)



PACKAGE NO. SBEP-P15-KHI-2

Tender & Contract Documents

Volume-II

Bill of Quantities

March 2017



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Construction of Schools in Karachi, Sindh

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SINDH BASIC EDUCATION PROGRAM

PACKAGE NO. SBEP-P15-KHI-2

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1 – PREAMBLE TO BOQs

PREAMBLE TO BILL OF QUANTITIES

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

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

2 - SUMMARY OF COST

SINDH BASIC EDUCATION PROGRAM
CONSTRUCTION OF NEW SCHOOLS FOR UPGRADATION OF EXISTING SCHOOLS

Package No: SBEP-P15-KHI-2
 Construction of Four (04) Schools in Karachi Sindh (Orangi, Lyari & Kemari Towns)

SUMMARY OF TENDERED COST

S. No.	Categories of Works →	General	Civil	External Development	Electrical	Plumbing	Grand Total
	Name of School Site ↓	Amount (PKR)	Amount (PKR)	Amount (PKR)	Amount (PKR)	Amount (PKR)	(PKR)
1	GBPS Frontier Colony No. 1, Orangi Town						
2	GBSS No.9 Sector 8/L, Orangi Town						
3	GBPS Gulistan Colony, Liyari Town						
4	GBPS Weeharabad, Kemari Town						
DAYWORK COST (ALL SCHOOLS)							
Total Cost of School Buildings Rs.							
Rebate offered (if any)					Rebate Amount Rs.		
					Rebate %		
Final Readout Bid Price Rs.							

3 – SCHOOL WORKS BOOKS

GBPS Frontier Colony No. 1
(Orangi Town)
(P15- KHI-127)

SINDH BASIC EDUCATION PROGRAM

CONSTRUCTION OF NEW SCHOOLS AND UPGRADATION OF EXISTING SCHOOLS

Package- 15: Karachi (Orangi, Lyari & Kemari Towns)

GBPS Frontier Colony No.1 (Orangi Town)

SUMMARY OF TENDERED COST

CODE	DESCRIPTION	AMOUNT (PKR)
A.	GENERAL ITEMS	
B.	CIVIL WORKS	
C.	EXTERNAL WORKS	
D.	ELECTRICAL WORKS	
E.	PLUMBING WORKS	
TOTAL COST OF SCHOOL BUILDING (PKR):		

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (PK Rs.)		Amount (Rs)
				Figures	Words	
<u>Temporary Facilities (Optional Items)</u>						
01- 01 G 1	Ref.Spec. No. G05 Providing and maintaining a rental building of area 3200 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, water supply and sanitation complete in all respect as directed by the Engineer	12	Month			
OR						
01- 01 G 2	Providing and maintaining a tent school of area 3200 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 3200 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			
01- 01 G 4	Shifting of furnitures and equipemnts and reinstall etc from existing school to rental building and reinstall as per specification and directed by the engineer	1	L.S			
<u>Site Clearing and Grubbing</u>						
01- 01 G 5	Ref.Spec. No. C01 Clearing and Grubbing complete in all respect as directed by the Engineer.	30,000	Sft			
<u>DISMANTLING WORK</u>						
01- 01 G 6	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			
01- 01 G 7	Dismantling, removing of existing sewerage lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft			
01- 01 G 8	Dismantling, removing of existing water supply lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.			
01- 01 G 9	Dismantling, removing of existing electrical supply line as directed by the Engineer.	150	Rft.			
01- 01 G 10	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.	0	Rft			
01- 01 G 11	Dismatling, removing of existing walkways/plateform and flooring as shown in the drawing/ as per site including disposal of surplus material and as directed by the Engineer. Dismantled material shall be contractor's	500	Sft			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
POWER SUPPLY & TELECOMMUNICATION						
01- 01 G 12	Providing, installing, testing and commissioning of electrical supply line for re-routing as per new plan including cables, all fixtures, connections and all related civil works as directed by the Engineer.	1	Job			
01- 01 G 13	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			
SIGN BOARD / PLAQUE						
Ref.Spec. No. SP 100						
01- 01 G 16	Providing and installation of Project sign board as per drawing complete including all civil related works, foundations, earthwork concrete, protection works complete as directed by the Engineer.	1	Job			
01- 01 G 17	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			
01- 01 G 18	Providing and maintenance of the Engineer's facilities at individual school site as per clause SP 44. All items/materials/equipment shall become contractor's property at the completion of works.	24	Month			
WATER TESTING						
Ref.Spec. No.						
01- 01 G 19	Sampling and testing of Water from bore of well (TDS) including submission of report as per specification.	1	Each			
Sub- Total (Rs.)						
PROVISIONAL SUMS						
01- 01 G 20	Repair & renovation of existing Governmet building proposed for temporary school during the construction. (The payable amount shall be assessed as per actual rehabilitation work on selected building and as per recommendation by the Engineer on BOQ rates of similar items quoted in the bid).		P.S			500,000
01- 01 G 21	New Utility connection or shifting & relocation of existing Electric HT lines passing through the school plan including all approvals from concerned department/agency and providing, installing/fixing of poles, PMT etc along with all associated civil work like concrete foundation, mounting base, arial conductors, grounding etc. complete in all respects & as directed by the Engineer		P.S			300,000
Sub- Total (Rs.)						
Total Cost for General Items Pak Rs.						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	CONSTRUCTION OF SCHOOL BUILDING					
	SUB-STRUCTURE					
	EARTHWORKS					
	Ref.Spec. No. C02					
01- 02 C 1	Excavation in all kinds of sub-surface materials, timbering upto following depths including disposal of surplus / rejected excavated materials to designated places.					
	a) 0 ft to 5 ft	18,477	Cft.			
	b) More than 5 ft upto 10 ft.	4,000	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)	18,477	Cft.			
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	50,000	Cft.			
	DEWATERING					
	Ref.Spec. No. G03					
01- 02 C 3	Designing, providing and installation of complete dewatering system including boring, strainer, filter & other all materials, pumping and disposal of water upto Engineer's satisfaction and to keep the construction surface dry all the time.					
	a) Completion of installation works at site, up 100% running/ working position	1	L.S.			
	b) Dewatering, days not allow more then/ maximum payable	10	Day			
	TERMITE CONTROL TREATMENT					
	Ref.Spec. No. C03					
01- 02 C 4	Termite control treatment to surfaces following structures complete in all respect as per specification: (Only plan area will be measured)	7,650	Sq ft.			
	REINFORCEMENT					
	Ref.Spec. No. C04					
01- 02 C 5	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	32	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.	Rate only	ton.			
	PLAIN AND REINFORCED CONCRETE AND FORMWORKS					
	Ref.Spec. No. C04					
01- 02 C 7	Blinding concrete 1250 psi using slag cement conforming to BS-146.	2,800	Cft.			
01- 02 C 8	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in:					
	a) Footing / Raft foundation	10,335	Cft.			
	b) Columns upto plinth	1,293	Cft.			
	c) Plinth beams	2,400	Cft.			
	d) SOG & Ramps Slabs	95	Cft.			
	e) Walls	35	Cft.			
	SITU CONCRETE 1:3:6					
	Ref.Spec. No. C04					
07- 02 C 9	Situ concrete 1:3:6, with formwork under the plinth beam thickness as per drawings, using slag cement conforming to BS-146, straight or curve at any level including all anchors required to be built in Rcc columns pedestals, complete in all respect as per drawings and specifications.	724	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 10	HARDCORE/ STONE SOLING 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.	6,800	Sq.ft.			
01- 02 C 11	P.C.C UNDER FLOORING Ref.Spec. No. C07 PCC 4" thick plain cement concrete (using slag cement conforming to BS-146) sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	6,800	Sq.ft.			
01- 02 C 12	PLINTH PROTECTION Ref.Spec. No. C04 & C07 Blinding concrete 1250 psi using slag cement conforming to BS-146	415	Cft.			
01- 02 C 13	PROTECTION WORKS Ref.Spec. No. C16 Vapor barrier sheet, under the floor as per drawings and specifications.	6,800	Sq.ft.			
01- 02 C 14	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	13,300	Sq.ft.			
	SUPER-STRUCTURE WORKS Ground Floor (From Plinth level to 1st Slab)					
	REINFORCEMENT Ref.Spec. No. C04					
01- 02 C 15	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	27.25	ton.			
01- 02 C 16	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate Only	ton.			
	PLAIN AND REINFORCED CONCRETE AND FORMWORKS Ref.Spec. No. C04					
01- 02 C 17	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification;					
	a) Columns	880	Cft.			
	b) Beams & lintels	1,850	Cft.			
	c) Slab & projections	3,600	Cft.			
	d) Stair cases	373	Cft.			
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts.	90	Cft.			
	f) Parapet wall for stair cases	50	Cft.			
	First Floor (From 1st Slab to 2nd slab)					
	REINFORCEMENT Ref.Spec. No. C04					
01- 02 C 18	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	27	ton.			
01- 02 C 19	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate Only	ton.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	<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	900	Cft.			
	b) Beams & lintels	2,300	Cft.			
	c) Slab & projections	3,850	Cft.			
	d) Stair cases	176	Cft.			
	e) Precast window sill as per design and erecting/ fixing including shuttering, all accessories or embedded parts.	100	Cft.			
	f) Parapet wall for stair cases	30	Cft.			
	<u>Second Floor / Roof (From 2nd slab to 3rd slab & tower)</u>					
	<u>REINFORCEMENT</u> Ref.Spec. No. C04					
01- 02 C 21	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	3.50	ton			
01- 02 C 22	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate only	ton.			
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u> Ref.Spec. No. C04					
01- 02 C 23	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures components complete in all respect as per drawings and specification;					
	a) Columns	110	Cft.			
	b) Beams & lintels	129	Cft.			
	c) Slab & projections	252	Cft.			
	d) Parapet Wall/ Purdi	625	Cft.			
	e) Precast coping for parapet wall at roof and erecting/ fixing including shuttering and all accessories and/or embedded parts.	650	Rft.			
	g) Over head water tank, column, walls & slab	280	Cft.			
	f) Others Misc Str	20	Cft.			
	<u>FINISHING WORKS</u>					
	<u>For Ground floor</u>					
	<u>BLOCK MASONRY</u> Ref.Spec. No.C18					
01- 02 C 24	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 4" thick	300	Cft.			
	b) 6" thick	250	Cft.			
	c) 8" thick	3,700	Cft.			
	d) 4" thick, external cavity; wall with all accessories arrangements for stone tile facing or Color Crete finishig including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	1,296	Cft.			
	<u>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.	475	R.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>CEMENT PLASTER</u> Ref.Spec. No C06					
01- 02 C 26	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	325	Sq.ft.			
01- 02 C 28	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	6,900	Sq.ft.			
01- 02 C 29	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	16,560	Sq.ft.			
	<u>ALUMINIUM WORKS</u> Ref.Spec. No. C11					
01- 02 C 30	Supply and fix in position as specified and approved anodized aluminum openable/sliding widows and ventilators having outside frame profile thickness not less than 2mm and glass frame thickness not less than 1.6mm , approved manufacturer, sliding with netted shutter and openable without netted shutter and 6mm float glass with safety coating of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications	1,350	Sq.ft.			
01- 02 C 31	Supply and fix in position as specified anodized aluminum doors with fixed panel both side and top of approved 2"x4" section, manufacturer having minimum wall thickness not less than 1.6 mm with 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	Rate only	Sq.ft.			
	<u>STRUCTURAL STEEL</u> Ref. Sec.No. C13					
01- 02 C 32	Mild steel grills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings and specification.	1,200	Kg			
01- 02 C 33	Providing and fixing railing for stairs/ramps as per drawing and specifications complete in all respect. a) MS railing stairs b) M.S railing at entrance	51 50	Rft Rft			
01- 02 C 34	Providing and fixing MS pipe railing with paintings, as per drawings and specifications complete in all respects and approved by the Engineer. a) Courtyard Railing (4' Height) b) Railing at staircase landing (4' Height) c) Railing for protection of cc jali (3' Height)	178 10 40	Rft Rft Rft			
01- 02 C 35	Providing and fixing MS folding gate (Emergency Exit) with paintings, complete in all respects as per drawing and specifications.	2	No			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 35A	Providing and fixing MS folding Main entrance gate with paintings, complete in all respects as per drawing and specifications.	1	No			
	<u>FLOOR AND WALL FINISHES</u> Ref.Spec. No. C07					
01- 02 C 36	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical/approved polishing complete in all respect as per drawing, specification and as directed by the Engineer.	6.120	Sq.ft.			
01- 02 C 37	Providing and laying terrazzo tile for entrance ramp (3/4" thick) with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	75	Sq.ft.			
01- 02 C 38	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	315	Sq.ft.			
01- 02 C 39	Porcelain tile floor (type) using tile of size 8"x8" or as approved (full body), approved quality, colour and shade laid in approved pattern set in specified mortar including cement concrete base, complete in all respect as shown on the drawings and specifications.	730	Sq.ft.			
01- 02 C 40	Porcelain tile in Dado using tile of size 8"x8" or as approved, quality, colour and shade laid in approved pattern including rough plaster base complete in all respect as shown on drawings and specifications.	2,750	Sq.ft.			
	<u>MARBLE WORKS</u> Ref.Spec. No. C07 & C08					
01- 02 C 41	Pre-polished marble on entrance steps, stairs, ramp & floor etc using approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.					
	a) Entrance Steps & Platform (3/4" thick)	320	Sq.ft.			
	b) Entrance Steps Risers (1/2" thick)	70	Sq.ft.			
01- 02 C 42	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	382	Sq.ft.			
01- 02 C 43	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	102	Sq.ft.			
01- 02 C 44	Pre-polished Marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish including complete in all respect as shown on the drawings.	56	Sq.ft.			
01- 02 C 45	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	40	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>PAINTING</u> Ref.Spec. No. C10					
01- 02 C 46	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	6,900	Sq.ft.			
01- 02 C 47	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	13,650	Sq.ft.			
01- 02 C 48	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	325	Sq.ft.			
	<u>WOODEN DOORS</u> Ref.Spec. No. C09					
01- 02 C 49	Wooden flush door leaves of the approved types and sizes Burma teak veneer on hardwood ply minimum thickness 3.5mm or as approved finished shutter fixed comprising 1-1/2" thick solid core partial wood 100% infill edging, polish, color/ laquer, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with laquer polish complete in all respect as shown on the drawings and specifications.	530	Sq.ft.			
01- 02 C 49A	Providing & Fixing Wooden Doors for Service Ducts having Shutter of Lasani or other approved material of size 4'x4'x3/4" and frame of partial or equivalent wood of size 7'-6"x4 1/2"x1 1/2" including all fittings & fixtures, accessories, 1/2" thick lipping & painting etc complete in all respect & as directed by the Engineer	16	Sq.ft.			
01- 02 C 50	Fixed 6mm plain safety laminated glass panel part at above door panel with solid wood batten including teak polish/ lacker at both sides around the glass of approved type. quality complete in all respect as shown on the drawings and specifications.	110	Sq.ft.			
	<u>FALSE CEILING</u> Ref.Spec. No.					
01- 02 C 51	Gypsum board ceiling minimum thickness 7.5mm waterproof including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on the drawings and specifications.	730	Sq.ft.			
	<u>Pre cast C.C Patren jali</u> Ref.Spec. No.					
01- 02 C 52	C.C Patren jali as per approved designed and specification	600	Sq.ft.			
	<u>CLADDING/ EXTERNAL FACING</u> Ref.Spec. No.C19 & C20					
01- 02 C 53	Providing and laying stone clading/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing & cleaning complete in all respect. as per drawings, specifications & as directed by Engineer	8,250	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 53 A	Providing and laying Color-Crete with 3/4" Cement sand plaster on external facing as per approved sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4. as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer. FINISHING WORKS For First floor BLOCK MASONRY Ref.Spec. No.C18	2,934	Sq.ft.			
01- 02 C 54	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 4" thick b) 6" thick c) 8" thick d) 4" thick, external cavity, wall with all accessories arrangements for stone tile facing or Color Crete finishing including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole at any height & level.	770 320 3,570	Cft. Cft. Cft.			
01- 02 C 55	DOORS FRAMES 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.	1,702	Cft.			
01- 02 C 56	CEMENT PLASTER 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.	395	R.ft.			
01- 02 C 57a	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.	Rate only	Sq.ft.			
01- 02 C 57b	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.	9,704	Sq.ft.			
01- 02 C 58	ALUMINIUM WORKS Ref.Spec. No. C 11 Supply and fix in position as specified and approved anodized aluminum openable/sliding widows and ventilators having outside frame profile thickness not less than 2mm and glass frame thickness not less than 1.6mm , approved manufacturer, sliding with netted shutter and openable without netted shutter and 6mm float glass with safety coating 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.	13,000	Sq.ft.			
		1,400	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
<u>STRUCTURAL STEEL</u>						
Ref. Sec.No. C 13						
01- 02 C 59	Mild steel grills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings.	1,280	Kg			
01- 02 C 60	Providing and fixing MS stair railing as per drawing and specifications complete in all respect.	30	Rft			
01- 02 C 61	Providing and fixing MS pipe railing with paintings, as per drawings and specifications complete in all respects and approved by the Engineer.					
	a) Courtyard Railing (4' Height)	178	Rft			
	b) Railing at staircase landing (4' Height)	20	Rft			
	c) Railing for protection of ocjali (3' Height)	48	Rft			
<u>FLOOR AND WALL FINISHES</u>						
Ref.Spec. No. C 07, 08						
01- 02 C 62	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	6,500	Sq.ft.			
01- 02 C 63	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	70	Sq.ft.			
01- 02 C 64	Porcelain tile floor (type) using tile of size 8"x8"or as approved (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.	500	Sq.ft.			
01- 02 C 65	Porcelain tile in Dado using tile of size 8"x8" or as approved, quality, colour and shade laid in approved pattern including rough plaster base complete in all respect as shown on drawings and specifications.	1,750	Sq.ft.			
<u>MARBLE WORKS</u>						
Ref.Spec. No. C 07, 08						
01- 02 C 66	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	176	Sq.ft.			
01- 02 C 67	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding & polish complete in all respect.	50	Sq.ft.			
01- 02 C 68	Pre-polished marble tile for counter tops & other area 3/4" thick using of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including complete in all respect as shown on the drawings.	50	Sq.ft.			
01- 02 C 69	Pre-polished Marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	34	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
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. <u>PAINTING</u> Ref.Spec. No. C 10	52	Sq.ft.			
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 & level with scaffolding etc complete in all respect and as directed by the Engineer.	9,704	Sq.ft.			
01- 02 C 72	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer. <u>WOODEN DOORS</u> Ref.Spec. No. C 09, 12	13,000	Sq.ft.			
01- 02 C 73	Wooden flush door leaves of the approved types and sizes Burma teak veneer on hardwood ply minimum thickness 3.5mm or as approved finished shutter fixed comprising 1-1/2" thick solid core partial wood 100% infill edging, polish, color/ laquer, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with laquer polish complete in all respect as shown on the drawings and specifications.	560	Sq.ft.			
01- 02 C 73A	Providing & Fixing Wooden Doors for Service Ducts having Shutter of Lasani or other approved material of size 4'x4'x3/4" and Frame of Partal or equivalent wood of size 7'-6"x4'1/2"x1'1/2" including all fittings & fixtures, accessories, 1/2" thick lipping & paiting etc complete in all respect & as directed by the Engineer	16	Sq.ft.			
01- 02 C 74	Fixed 6mm plain safety laminated glass panel part at above door panel with solid wood batten including teak polish/ lacker at both sides around the glass of approved type, quality complete in all respect as shown on the drawings and specifications.	124	Sq.ft.			
01- 02 C 75	<u>FALSE CEILING</u> Ref.Spec. No. Gypsum board ceiling minimum thickness 7.5mm waterproof including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on drawings and specifications.	500	Sq.ft.			
01- 02 C 76	<u>Pre cast C.C Patren jali and Railing</u> Ref.Spec. No. C.C Patren jali as per approved designed and specification	680	Sq.ft.			
01- 02 C 77	<u>STONE CLADDING/ COLOR-CRETE/ EXTERNAL FACING</u> Ref.Spec. No. C19 & C20 Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding. set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	5,600	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 77 A	Providing and laying Color-Crete with 3/4" Cement sand plaster on external facing as per approved sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	2,980	Sq ft			
	<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.	7,500	Sq.ft.			
	<u>FINISHING WORKS</u> <u>For Roof floor / Secound floor</u> <u>BLOCK MASONRY</u> Ref.Spec. No. C18					
01- 02 C 79	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 4" thick	30	Cft.			
	b) 6" thick	50	Cft.			
	c) 8" thick	500	Cft.			
	d) 4" thick, external cavity, wall with all accessories arrangements for stone tile facing or Color Crete finishig including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole at any height & level.	789	Cft.			
	<u>DOORS FRAMES</u> Ref.Spec. No. C09 & C11					
01- 02 C 80	G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	35	R.ft.			
	<u>CEMENT PLASTER</u> Ref.Spec. No. C 06					
01- 02 C 81	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection, parapet or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and as per elevation complete in all respect as shown on drawings.	2,504	Sq.ft.			
01- 02 C 82	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	388	Sq.ft.			
01- 02 C 83	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height, with all scaffoldings etc.	902	Sq.ft.			
01- 02 C 84	3/4" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls to O.H.W Tank etc with making of chamfer corner in plaster as per drawings and specifications.	360	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Rs.		
				Figures	Words	
01- 02 C 85	Water proofing coating treatment to all vertical surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating.	230	Sq.ft.			
01- 02 C 86	Water proofing coating treatment to all horizontal surfaces in contact with water shall be treated with 1 coat of crystalline water proofing coating	130	Sq.ft.			
01- 02 C 87	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, including fixing of frame and embedded parts in concrete and painting, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 02C 88	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer. (For O.H.W tank)	4	No.			
	FLOOR AND WALL FINISHES					
	Ref.Spec. No. C 07, 08					
01- 02 C 89	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	180	Sq.ft.			
01- 02 C 90	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	16	Sq.ft.			
	MARBLE WORKS					
	Ref.Spec. No. C 07, 08					
01- 02 C 91	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc. colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	6	Sq.ft.			
	PAINTING					
	Ref.Spec. No. C 10					
01- 02 C 92	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 and as directed by the Engineer.	388	Sq.ft.			
01- 02 C 93	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	902	Sq.ft.			
01- 02 C 94	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	2,504	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	WOODEN DOORS Ref.Spec. No. C 09, C12					
01- 02 C 95	Wooden flush door leaves of the approved types and sizes Burma teak veneer on hardwood ply minimum thickness 3.5mm or as approved finished shutter fixed comprising 1-1/2" thick solid core partial wood 100% infill edging, polish, color/ laquer, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with laquer polish complete in all respect as shown on the drawings and specifications.	49	Sq.ft.			
	Pre cast C.C Patren jali and Railing Ref.Spec. No.					
01- 02 C 96	C.C Patren jali as per approved designed and specification	100	Sq.ft.			
01- 02 C 97	Precast water spout as per approved designed and specification	15	No.			
	CLADDING/ EXTERNAL FACING Ref.Spec. No. C19 & C20					
01- 02 C 98	Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	2,900	Sq.ft.			
01- 02 C 98A	Providing and laying Color-Crete with 3/4" Cement sand plaster on extrenal facing as per approverd sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	530	Sq.ft.			
01- 02 C 99	Providing & Fixing of Alphabetical Letters made of MS silver Material or any other approved material as name of school on external wall/face at entrance of the newly constructed school building of approved design, colour & fontface etc complete in all respects and as directed by the Engineer.	1	Job			
Total Cost for Civil Works Pak Rs.						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	EXTERNAL DEVELOPEMENT					
	CONSTRUCTION OF BOUNDARY WALL					
	Ref Spec No. C02					
	EARTHWORKS					
	Ref.Spec. No.					
01- 03 D 1	Excavation in all kinds of sub-surface materials, timbering upto following depths including disposal of surplus / rejected excavated materials to designated places. a) 0 ft to 5 ft	0	Cft.			
01- 03 D 2	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	0 0	Cft. Cft.			
01- 03 D3	Area Fill with selected materials from outside source including watering and compaction to every layer as per specification for Play ground.	70,000	Cft.			
01- 03 D3A	Providing & fixing/embading of School Name Plate/ Sign board, made of Marble in Boundary wall near main entrance gate of school building complete in all respects & as directed by the Engineer	1	Job			
	DEWATERING (applicable on Section 3)					
	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	1 10	L.S. Day			
	TERMITE CONTROL TREATMENT					
	Ref.Spec. No. C03					
01- 03 D5	Termite control treatment to surfaces following structures complete in all respect as per specification: (Only plan area will be measured)	0	Sq.ft.			
	REINFORCEMENT					
	Ref.Spec. No. C04					
01- 03 D6	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	0	ton.			
	PLAIN AND REINFORCED CONCRETE					
	Ref.Spec. No. C04					
01- 03 D7	Blinding concrete 1250 psi using slag cement conforming to BS-146.	0	Cft.			
01- 03 D8	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Footings b) Columns upto plinth c) Plinth beams	0 0 0	Cft. Cft. Cft.			
01- 03 D9	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification; a) Columns	0	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>BLOCK MASONRY</u>					
01- 03 D10	Ref.Spec. No. Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 8" thick / 4" thick	0	Cft.			
01- 03 D10a	Solid brick masonry wall with pointing on both faces above plinth beam 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	0	Cft.			
	<u>CEMENT PLASTER</u>					
01- 03 D11	Ref.Spec. No. C06 3/4" thick. 1:4 cement sand plaster to specified exterior surfaces (Columns, wall, beams and project etc.) including making grooves as per design and elevation complete in all respect as shown on the drawings.	0	Sq.ft.			
	<u>PROTECTION WORKS</u>					
01- 03 D12	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.	0	Sq. ft.			
	<u>COPING</u>					
01- 03 D13	Ref.Spec. No. C04 Providing and fixing 3" thick coping including plaster using OP cement for boundary wall complete as shown on the drawings.	0	Rft.			
	<u>STRUCTURAL STEEL</u>					
01- 03 D14	Ref. Sec.No. C13 Mild steel main gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 14'x7')	1	no			
01- 03 D15	Mild steel wicket gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 3'x7')	1	no			
	<u>CLADDING/ EXTERNAL FACING</u>					
03 D15a	Ref.Spec. No. C19 & C20 Providing and laying stone cladding/ stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	6,000	sft			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	LANDSCAPING					
	Ref Sec.No					
01- 03 D 16	Fill and backfill with selected materials including watering and compaction to every layer as per specification.	4,000	Cft.			
01- 03 D17	Area Fill with selected maternals including watering and compaction to every layer as per specification.	11,912	Cft.			
01- 03 D18	Relocation and replanting of removed trees as per specifications and and as directed by the Engineer.	Rate Only	No.			
01- 03 D19	Development of lawn (grass) including fertilizer mixed with earth including spreading and watering etc. and cutting etc. till guarantee period (12 months) complete in all respect as shown on the drawings; and as per specifications.	8,000	Sq.ft.			
01- 03 D20	12" thick approved selected sweet earth including spreading, levelling, dressing and watering etc. complete in all respect as per specifications and as directed by the Engineer.	8,000	Sq.ft.			
01- 03 D21	Trees/plants of the following types and size/height including excavation, backfilling, manure/ fertilizer, supports and water etc. complete in all respect as shown on the drawings, specifications and as directed by the Engineer					
	a) Neem (3 to 4 feet)	8	No.			
	b) Babul (3 to 4 feet)	7	No.			
	c) Golmohar (3 to 4 feet)	14	No.			
	d) Champa (2 to 3 feet)	12	No.			
	e) Crape Jasmine (2 to 3 feet)	13	No.			
	f) Cement Concrete planters.	100	Rft			
	Footpath Walkway (Precast Paving Blocks / Tiles)					
01- 03 D22	4" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	4,000	Sq.ft.			
01- 03 D23	Precast cement concrete paving blocks/Tile approved strength shape and pattern of minimum 2 inches thickness including 2" thick sand cushion, levelling and dressing complete in all respect and as directed	4,000	Sq.ft.			
01- 03 D24	PCC concrete kerb block of approved quality and strength 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.	70	Rft			
01- 03 D24A	Plain cement concrete panel flooring including subfloor, bed preparation etc, 1/2" Groove @ 8' c/c, joints etc complete as shown in the drawings.	650	Sq.ft.			
	EXTERNAL SEWER & MANHOLES					
01- 03 D25	Construction of manholes with material including, excavation, base top RCC slab, GI steps, CC benching water proof internal plaster, external bitumen coating etc inlet/out connections etc.					
	i. 18" x 18" SIZE	19	Nos.			
	ii. 24" x 24" SIZE	5	Nos.			
	ii. 36" x 36" SIZE	Rate only	Nos.			
01- 03 D26	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	7	No.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D27	Septic Tank 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.	747	Cft.			
		387	Cft.			
01- 03 D28	Blinding concrete 1250 psi using slag cement conforming to BS-146	50	Cft.			
01- 03 D29	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of Crystalline water proofing coating on vertical surfaces.	465	Sq.ft.			
01- 03 D30	Water proofing coating treatment to all surfaces in contact with water shall be treated with 1 coat of Crystalline water proofing coating on horizontal surface.	102	Sq.ft.			
01- 03 D31	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) Base Slab. b) Walls including chamfer etc. c) Top Slab	100	Cft.			
		311	Cft.			
		63	Cft.			
01- 03 D32	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60, as mentioned in drawings and directed by the Engineer.	2.3	Ton			
01- 03 D32	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	0	Sq.ft.			
01- 03 D33	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	0	Sq.ft.			
01- 03 D34	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings complete in all respect as shown on the drawings and specifications.	0	Sq.ft.			
01- 03 D35	Providing embedding 10" wide PVC water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	46	Rft.			
01- 03 D36	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivalant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 03 D37	Supply and fitting of hot dip galvanised iron rung or as approved, etc. complete in all respects, as per drawing and directed by the Engineer.	14	No.			
01- 03 D38	Soakage Pit Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft. c) More than 10 ft upto 17 ft.	712	Cft.			
		712	Cft.			
		784	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D39	Blinding concrete 1250 psi using slag cement conforming to BS-146	20	Cft.			
01- 03 D40	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 20" thick	680	Cft			
	b) 16" thick	550	Cft			
	b) 12" thick	210	Cft			
01- 03 D41	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. Pre-cast / Cast in Situ R.C.C Slab	72	Cft			
01- 03 D42	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.25	Ton			
01- 03 D43	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty) including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	1	No			
01- 03 D44	Supply and fitting of hot dip galvanised iron rung or as approved, etc. complete in all respects. as per drawing and directed by the Engineer.	14	No			
01- 03 D45	<u>Ground Storage Tank / Pump Room</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	508	Cft.			
	b) More than 5 ft upto 10 ft.	8	Cft.			
01- 03 D46	Blinding concrete 1250 psi using slag cement conforming to BS-146	34	Cft.			
01- 03 D47	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer.					
	a) Base Slab.	70	Cft.			
	b) Walls including chamfer etc.	179	Cft.			
	c) Top slabs	24	Cft.			
	d) Precast Slab	7	Cft.			
01- 03 D48	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	1	Ton			
01- 03 D49	Providing embedding 10" (250 mm) wide PVC water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	39	Rft.			
01- 03 D50	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 12" thick	75	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D51	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivalant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 03 D52	Supply and fitting of hot dip galvanised iron rung or as approved, complete in all respects, as per drawing & directed by the Engineer	8	No.			
01- 03 D53	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	63	Sq.ft.			
01- 03 D54	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	8	Sq.ft.			
01- 03 D55	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	28	Sq.ft.			
01- 03 D56	2" thick, 3000 cement concrete floor and screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	130	Sq.ft.			
01- 03 D57	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc.complete in all respect as per specifications.	90	Sq.ft.			
01- 03 D58	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding including complete in all respect as shown on the drawings.	12	Sq.ft.			
01- 03 D59	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	40	Sq.ft.			
01- 03 D60	MS Door including paint etc complete in all respect as shown in the drawings.	15	Sq.ft.			
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 2 coats of crystalline water proofing coating on vertical surfaces.	404	Sq.ft.			
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 1 coat of crystalline water proofing coating on horizontal surfaces.	58	Sq.ft.			
	<u>Tube Well / Penumatic Pump</u>					
	<u>Construction works</u>					
01- 03 D62	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft	85	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 02 C 63	Fill and backfill with selected materials including watering and compaction to every layer as per specification a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	20 40	Cft. Cft.			
01- 03 D64	Blinding concrete 1250 psi using slag cement conforming to BS-146	50	Cft.			
01- 03 D65	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification, Pre-cast R.C.C Slab	15	Cft.			
01- 03 D66	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 as mentioned in drawings and directed by the Engineer.	0.05	Ton			
01- 03 D67	Cement concrete solid block masonry walls of the following (thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 20" thick, for foundation b) 16" thick, for foundation c) 12" thick, for foundation d) 12" thick, for above G.L e) 4" thick, for parapet wall	50 40 45 180 10	Cft. Cft. Cft. Cft. Cft			
01- 03 D68	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves, as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	285	Sq.ft.			
01- 03 D69	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	25	Sq.ft.			
01- 03 D70	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	150	Sq.ft.			
01- 03 D71	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	25	Sq.ft.			
01- 03 D72	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	25	Sq.ft.			
01- 03 D73	Plain cement concrete 2" thick floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	25	Sq.ft.			
01- 03 D74	Plain cement concrete 2" thick screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	33	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D75	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc.complete in all respect as per specifications.	285	Sq.ft.			
01- 03 D76	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	25	Sq.ft.			
01- 03 D77	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	150	Sq.ft.			
01- 03 D78	Vapor barrier sheet, under foundations and floor as per drawings and specifications.	25	Sq.ft.			
01- 03 D79	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	250	Sq.ft.			
01- 03 D80	Kanchan Arsenic filter 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	64	Cft.			
01- 03 D81	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material / scorce to be approved by the Engineer) upto free haulage limit.	43 85	Cft. Cft.			
01- 03 D82	Blinding concrete 1250 psi using slag cement conforming to BS-146	12	Cft.			
01- 03 D83	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) footing b) Columns up bottom first slab c) Slabs & projection e) Walls including chamfer etc.	20 18 28 72	Cft. Cft. Cft. Cft.			
01- 03 D84	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.5	Ton			
01- 03 D85	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	71	Sq.ft.			
01- 03 D86	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	71	Sq.ft.			
01- 03 D87	2" thick, 3000 cement concrete floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	71	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D88	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	129	Sq. ft.			
01- 03 D89	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	107	Sq. ft.			
01- 03 D90	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating.	107	Sq. ft.			
01- 03 D91	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	185	Sq. ft.			
<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.			
01- 03 D93	Blinding concrete 1250 psi using slag cement conforming to BS-146	50	Cft.			
01- 03 D94	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of Crystalline water proofing coating.	466	Sq. ft.			
01- 03 D95	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) Base Slab. b) Walls including chamfer etc. c) Top Slab	107 335 89	Cft. Cft. Cft.			
01- 03 D96	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	1.150	Ton			
01- 03 D97	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	102	Sq. ft.			
01- 03 D98	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	349	Sq. ft.			
01- 03 D99	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings complete in all respect as shown on the drawings and specifications.	466	Sq. ft.			
01- 03 D100	Providing embedding 10" wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	44	Rft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
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.			
01- 03 D102	Supply and fitting of hot dip galvanised iron rung or as approved, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No.			
	<u>Soakage Trench</u>					
01- 03 D103	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft.	5,125 -	Cft. Cft.			
01- 03 D104	Blinding concrete 1250 psi using slag cement conforming to BS-146	151	Cft.			
01- 03 D105	Solid brick/block masonry wall from 13-1/2" to 31-1/2" thicknesses set in 1:4 cement sand mortar	520	Cft			
01- 03 D106	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. Pre-cast R.C.C Slab	250	Cft			
01- 03 D107	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 as mentioned in drawings and directed by the Engineer.	0.57	Ton			
01- 03 D108	Supply and fix water tight (Round Type, 24") Pre-cast 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.			
01- 03 D109	Supply and fitting of hot dip galvanised iron rung or as approved, etc. complete in all respects, as per drawing and directed by the Engineer.	18	No			
01- 03 D110	Supply and fill 1/2" to 2" size gravel in trench complete in all respects, as per drawing and directed by the Engineer.	150	Cft			
Total Cost for External Development works PKR						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
95-04E 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 14 SWG with hinged door, handle, catcher, earthing bar, neutral strip, internal wiring from MCBs terminating on cable terminal blocks, 2 coats of antirust and powder coated paint of approved colour, including cost of all necessary materials complete in all respects, DBs shall be manufactured as per specification. single line diagram complete in all respect up to the satisfaction of Engineer</p>					
	i) MDBLP-GF	1	No			
	ii) DBLP-GF1	1	No.			
	iii) DBLP-GF2	1	No.			
	vi) DBLP-FF1	1	No.			
	v) DBLP-FF2	1	No.			
	vi) MCC-WP	1	No.			
	vii) DB-EXT (IP 65)	1	No.			
	Sub- Total (Rs.)					
95-04E 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.	545	R ft			
	ii. 4 core 16mm.sq.	330	R.ft			
	iii. 4 core 50mm.sq.	100	R.ft			
	b) Circuit Protective Conductor (CPC)					
	i. 1 core 10mm sq. PVC insulated colour Green/Yellow.	545	R.ft			
	ii. 1 core 16mm sq. PVC insulated colour Green/Yellow.	330	R.ft			
	iii. 1 core 25mm sq. PVC insulated colour Green/Yellow.	100	R.ft			
95-04E 3	<p><u>P.V.C. Conduit and Accessories</u></p> <p>Supply at site of PVC/UPVC 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>					
	a) 32mm (1.25") dia. PVC conduit to pull electric cable.	60	R.ft			
	b) 38mm (1.5") dia. PVC conduit to pull electric cable.	100	R.ft			
	c) 50mm (2") dia. UPVC Class C conduit to pull electric cable.	360	R.ft			
	d) 75mm (3") dia. UPVC Class C conduit to pull electric cable.	200	R.ft			
	Sub- Total (Rs.)					

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART-3 <u>Wiring & Conduiting</u>					
95-04E 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 25 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.	25	Nos.			
	b) Same as item (a) but wiring from switch to switch.	48	Nos.			
	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 25 mm dia PVC conduit, complete with cables and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	151	Nos.			
	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 25 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.	79	Nos.			
	e) Circuit Wiring and conduiting from DB to power socket outlet with 2 x 4 sq.mm 1 core Cu/PVC insulated cable + CPC 4 sq.mm 1 core Cu/PVC insulated cable in 25 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.	23	Nos.			
	f) Same as item (e) but wiring between adjacent socket outlets with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC.	18	Nos.			
	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.	31	Nos.			
	h) Wiring and conduiting from DB to water pump/LBS with 2 x 6 sq.mm 1 core Cu/PVC insulated cable + CPC 6 sq.mm 1 core Cu/PVC insulated cable in 25 mm dia PVC conduit complete with cables, conduits and all necessary accessories such as bends, junction boxes, sockets etc., as per the specifications and drawings and approval by the Engineer.	4	Nos.			
	Sub- Total (Rs.)					
	PART-4: <u>LIGHT FIXTURES, FANS, SWITCHES, OUTLETS & ACCESSORIES</u>					
95-04E 6	<u>LIGHT FIXTURES</u>					
	Supply, Installation, testing and commissioning of following light fittings, ceiling /wall mounted or hanging arrangement with SS rod as per detail shown in drawing . 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.	44	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	b. Fluorescent Light TMS 015 with 1x18Watt TL-D lamp color 84 w electronic ballast.	4	Nos.			
	c. Fluorescent Light TCS398 with 2x36Watt TL-D lamp color 84 with M2 Louver & electronic ballast.	24	Nos.			
	d. Fluorescent Light TCS398 2x36Watt TL-D lamp color 84 with M6 Louver & electronic ballast.	86	Nos.			
	e. Fluorescent Light TBS 300 with 2x36 Watt TL-D lamp color 84 with M2 Louver electronic ballast.	16	Nos.			
	f. Philips Type or Equivalent 41055 suspension light with 18 watt LED bulb	2	Nos.			
95-04E 6	Ceiling Fans Supply, installation and commissioning of 3-blade ceiling fans of following sizes, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respects, fittings shall be duly approved by Engineer					
	a. 56" dia.	52	Nos.			
	b. 48" dia.	0	Nos.			
	c. 36" dia.	1	Nos.			
95-04E 7	Switches & Fan Dimmers Supply and installation of following approved manufacture 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	8	Nos.			
	ii) Two gang - 1 Way Switch	20	Nos.			
	iii) Three gang - 1 Way Switch	3	Nos.			
	iv) Four gang - 1 Way Switch	9	Nos.			
	v) One gang - Fan Dimmer	8	Nos.			
	vi) Two gang - Fan Dimmer	25	Nos.			
95-04E 8	SOCKETS Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and drawings, as per approved manufacturer list and approval by the Engineer.					
	i) 13A, 3-pin universal Switch Socket outlet.	25	Nos.			
	ii) 13A, 3-pin Simplex Switch Socket outlet.	30	Nos.			
	iii) 13A, 3-pin Duplex Switch Socket outlet.	11	Nos.			
	iv) 15A, 3-pin round Switch Socket outlet.	8	Nos.			
	v) Floor Box - Type B	16	Nos.			
95-04E 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.			
Sub- Total (Rs.)						
95-04E 10	PART-5: <u>EARTHING SYSTEM</u> Earth Electrode Supply at site and installation of copper bonded steel earth electrodes, 10 feet long and 19.07 mm nominal dia including cost of all necessary materials, complete in all respects, as per specification.	3	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
95-04E 11	Copper Conductor					
a)	Supply, installation and connection of bare copper conductor 16 mm sq. in 38 mm dia PVC pipe where required from earth pit to earth connecting point for communication system & MCC. Work includes boring, soil, excavation, backfilling of earth, cad-welding at one end and provision of fixing of cable at ECP/ other end as shown in detail and as per specification and entire satisfaction with approval of Engineer.	20	R.ft			
b)	Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable in 38mm dia PVC conduit, 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, cadweld (where required), brass nuts, bolts, washers, all necessary accessories, complete in all respects.	40	R.ft			
c)	Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from ECP to U-link box and from U-Link box to data patch panel. as per drawing or as per the instructions of the engineer. including cost of cadweld (where required) , brass nuts, bolts, washers, all necessary accessories, complete in all respects.	20	R.ft			
d)	Supply, installation and connection of bare copper conductor 2x50sqmm from building rerbars to earth connecting point at column for power supply system. Work includes boring , soil, excavation, backfilling of earth, cad-welding at one end and provision of fixing of cable at ECP/other end as shown in detail and as per specification and entire satisfaction with approval of Engineer.	15	R.ft			
e)	Supply, installation and connections of copper conductor 1x50 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from earth connecting point to distribution board, as per drawing or as per the instructions of the engineer. including cost of cadweld (where required), brass nuts, bolts, washers, all necessary accessories, complete in all respects.	15	R.ft			
95-04E 12	Earth Connecting Points (ECP) 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.			
95-04E 13	ECP (in inspection Chamber) 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.			
95-04E 14	Earth pit / Inspection Chamber Construction of Earth pit/ inspection chamber 375mm x 375mm x 450mm deep with 150mm thick wall and 330mm x 330mm heavy duty C.C Cover, complete in all respects, as per specification.	2	Nos.			
95-04E 15	Testing 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			
	Sub- Total (Rs.)					

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART-6: TELEPHONE / VOICE SYSTEM					
95-04E 16	Telephone / Data Network					
	a) Wiring for each telephone point from Utility box to telephone point with Cat 6 UTP in 25mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects, as per drawing and specification.	230	R.ft			
	b) Wiring for each data point from Utility box with Cat 6A UTP, to data point, including cost of 25mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects as per drawing and specification	1200	R.ft			
	c) Wiring from Utility box with Four pair Cat 6A UTP, to data patch panel, including cost of 25mm 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.	150	R.ft			
	d) Supply, Installation of following telephone / data Outlet plate including RJ-45 IOs and 16 SWG sheet steel back box recessed in wall or wall surface, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.					
	i) Simplex Outlet RJ 45	23	Nos.			
	ii) Duplex Outlet RJ 45	3	Nos.			
95-04E 17	Utility Link Box Supply, Installation, testing and commissioning of Utility box, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer	1	Nos.			
95-04E 18	Patch Panel					
	a) Supply and installation of following Patch Panels complete in all respects as per the specifications and drawings and to the approval of the Engineer.					
	i) 24 Port Patch Panel	1	Nos.			
95-04E 19	Telephone / Data Patch Cords					
	a) Supply and connecting of telephone 2 Pair drop cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer.	5	Nos.			
	b) Supply and connecting of data CAT 6A patch cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer.					
	i) 1 meter long	24	Nos.			
	ii) 3 meter long	24	Nos.			
95-04E 20	Communication Rack Supply installation of 6U 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.			
95-04E 21	Telephone Sets Supply and connection of following type of Telephone sets.					
	a) Telephone with CLI Module	2	Nos.			
	b) Telephone without CLI Module	3	Nos.			
	Sub- Total (Rs.)					

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART -7 Fire Alarm System					
95-04E 22	Fire Alarm System a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect. i) Smoke detector with buzzer ii) Heat detector with buzzer	12 0	Nos. Nos.			
	Sub- Total (Rs.)					
	PART -8 LIGHTNING PROTECTION SYSTEM					
95-04E 23	Roof Conductor 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.	700	R.ft.			
95-04E 24	Air terminal Supply, installation and connecting up of 1 x 15mm DIA SOUND ROUND COPPER 500mm 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.			
95-04E 25	Earth Electrode Supply at site and installation of Copper bonded steel earth electrodes, 19mm nominal dia including cost of all necessary materials, complete in all respects, as per specification. a. 3 meter long in single rod b. 1 meter long in single rod (For rocky areas only)	6 18	Nos. Nos.			
95-04E 26	Copper Conductor a Connection of 50 sqmm. bare copper conductor cad welded with column steel rebars at one end with test link box as shown in drawings. b Connection of 50 sqmm. bare copper conductor with test link box at one end and welded with copper earth electrode at other end as shown in drawings.	5 50	Nos. Nos.			
95-04E 27	Copper Test Link 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 includes disconnecting link furse model LK205 to be installed on the wall of columns, brass nuts bolts, washers, including cost of all necessary materials, complete in all respects as per drawing and specifications.	4	Nos.			
95-04E 28	CAD Welding Cad welding of column / foundation / roof rebars to form a continous electrical path upto roof steel rebar including coating of anti rusting compound after cad welding to avoid corrosion and all accessories etc. complete in all respects (Note: Electrical continuity of re-bars shall be witnessed by site engineer/ client representative.)	12	Jobs			
	Sub- Total (Rs.)					

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART -9 Public Address System					
95-04E 29	Amplifier a) Supply, installation, testing & commissioning of following type amplifier with three outputs, three microphone inputs and one music input, complete in all respect with wooden box and all installation accessories.	2	Nos.			
	i) 60W					
95-04E 30	Speakers a) Supply, installation & commissioning of 10W wall mounted speaker with all accessories complete in all respects. as per approved manufacturer list.	2	Nos.			
	b) Supply, installation & commissioning of 10W wall mounted speaker (IP rated 65) with all accessories complete in all respects. as per approved manufacturer list.	2	Nos.			
95-04E 31	Microphone Cordless Microphone with SS Stand	2	Nos.			
95-04E 32	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 25mm dia PVC conduit complete in all respects upto maximum as shown in riser diagram.	200	R.ft.			
	Sub- Total (Rs.)					
	PART -10 EXTERNAL AREA LIGHTING					
95-04E33	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 1x12Watt LED lamp.	12	Nos.			
	b) Pierlite or equivalent Bollard Light Fixture in die cast aluminum body powder coated suitable for walkways with 12 WATT LED LAMP IP-65 including concrete foundation for mounting the fixture.	2	Nos.			
	c) Pierlite or equivalent P. 7362 - 200 fixture with 1 x12 WATT LED lamp IP-44	2	Nos.			
95-04E34	Wiring & Conduiting a) Circuit Wiring and conduiting from DB to first light point with 1 x 2.5 sq.mm 3 core Cu/PVC insulated cable in 32 mm. dia UPVC Class D conduit, complete with cables for external lighting, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	5	Nos.			
	b) Same as item (h) but wiring from light point to light point.	11	Nos.			
	Sub- Total (Rs.)					

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART -11 MISCELLANEOUS WORKS					
95-04E 35	<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 in 25mm dia PVC conduit, complete in all respects, as per the specifications and drawings and approval by the Engineer.	45	Rft.			
	b) <u>Outlets</u> Supply, installation testing and commissioning of cable TV outlet along with 16 SWG back box having earth terminals and 2 coats of antirust paint, complete in all respects, as per the specifications and drawings and approval by the Engineer.	1	Nos.			
95-04E 36	<u>Handholes</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	5	Nos.			
95-04E 37	<u>Utility / PTCL Connection</u> a) Supply and co-ordination for the utility connection from WAPDA/HESCO/SEPCO 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/other Telecom company as per required demand. The telephone connection charges shall be paid separately as per actual on submission of receipt.	1	Job			
		1	Job			
	Sub- Total (Rs.)					
	PART -12 SOLAR ROOM ELECTRIFICATION WORKS					
95-04E 38	<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 TCW097 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.			
		2	Nos.			
95-04E 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.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
95-04E 40	SOCKETS Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and drawings i) 13A, 3-pin Duplex Switch Socket outlet.	1	Nos.			
95-04E 41	Fire Alarm System a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect. i) Smoke detector with buzzer	1	Nos.			
95-04E 42	Circuit Wiring & Conduiting a) Circuit Wiring and conduiting from DB to switch with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 25 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. 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 25 mm dia PVC conduit, complete with cables and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	1 1 4	Nos. Nos. Nos.			
	Sub- Total (Rs.)					
	Total Cost for Electrical Works Pak Rs.					

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	PILUMBING WORKS (BUILDING)					
	PLUMBING FIXTURES					
	Supply and Installation of plumbing fixtures & faucets complete in all respects including all accessories, support, hangers, etc. ready to use as per specifications, drawings and instructions of Consultant.					
01-05P1	European style coupled water closet with seat cover, flush tank, tee cock C.P. (chrome plated) connector, thimble, etc. a. Type - EWC	5	No.			
01-05P2	Asian style water closet Orissa type with flush tank tee cock C.P. (chrome plated) connector, uPVC Class "E" flush pipe or as approved, thimble, P-Trap, etc.	16	No.			
01-05P3a	double bib cock brass, chromium plated	20	No.			
01-05P3b	single bib cock brass, chromium plated	4	No.			
01-05P4	Wash basin (WB) including CP P-trap/Bottle Trap, stop cock etc i. With half or full pedestal	11	No.			
01-05P5	Wash basin hot and cold water mixer, waste, etc for WB	20	Nos			
01-05P6	Toilet Hand Shower with flexible chain & telephone type shower Including tee stop cock etc. complete in all respect. Type - TS	13	No.			
01-05P7	Stainless steel lab. sink including stop cocks, P-trap, Bottle trap, waste pipe etc complete in all respects. SK - 1, 15" x 21" single bowl and single drainer.	4	No.			
01-05P8	Sink cold water tap swan neck, etc, for following. a. For SK-1	4	No.			
01-05P9	S.S Grease Trap 7.5 Kg. capacity, inlet/outlet 2" Dia connections.	Rate Only	No.			
01-05P10	Toilet accessories complete set, (Imported make) i. Soap dispenser ii. Toilet paper holder iii. Coat Hook iv. Mirror 5mm (Belgium) v. Paper Rack vi. Towel Rail vii. Stainless Steel Handrail for handicap toilet	6 13 6 120 6 6 6	No. No. No. Sft No. No. No.			
Sub- Total (Rs.)						
01-05P11	Plumbing Water Supply 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) 1½" internal dia (50 mm outer dia) v) 1½" internal dia (63 mm outer dia) vi) 2" internal dia (75 mm outer dia)	50 350 520 135 205 Rate Only	Rft. Rft. Rft. Rft. Rft. Rft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P12	vii) 2½" internal dia (90 mm outer dia)	Rate Only	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 dia.					
	i) ¾" internal dia (32 mm outer dia)	2	No			
	ii) 1" internal dia (40 mm outer dia)	4	No			
	iii) 1¼" internal dia (50 mm outer dia)	3	No			
	iv) 1½" internal dia (63 mm outer dia)	2	No			
	v) 2" internal dia (75 mm outer dia)	4	No			
	vi) 2½" internal dia (90 mm outer dia)	Rate Only	No			
Sub- Total (Rs.)						
01-05P13	Plumbing Sewerage 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	105 Rate Only 440 110	Rft. Rft. Rft. Rft.			
01-05P14	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.	49	No.			
01-05P15	Construction of rectangular brick masonry manhole of 2'-0"x2'-0" or specified sizes for sewer complete with plastering from internal and external side, PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, rungs, complete as per drawings.	5	Nos			
01-05P16	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.	4	No			
01-05P17	Providing and fixing Clean Out complete in all respects	8	No.			
01-05P18	Water Cooler 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.			
Sub- Total (Rs.)						
EXTERNAL DEVELOPMENT						
01-05P19	Septic Tank Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with 'B' Class working pressure pipe. in trenches, complete in all respects as per drawing or directed by the Engineer. 6" i/d (150 mm) 4" dia, pipe selevs in walls 6" dia, pipe selevs in walls	15 5 2	Rft. Nos Nos			
01-05P19A	Vent Pipe 4" dia as per drawing and specifications for Septic Tank complete in all respects. puddle flange, wiremesh at pipe face, specials as per drawing or directed by the Engineer.	2	Nos			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P20	Soakage Pit Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with 'B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer. 6" i/d (150 mm)	5	Rft.			
01-05P21	Ground Water Storage Tank Providing, laying, cutting, jointing, testing and disinfecting G.I. pipe (Heavy Quality) of B.S.S. 1387-1967 complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer. i) ¾" dia ii) 1½" dia iii) 2" dia, pipe selevs. 9" long	5 5 8	Rft. Rft. Nos			
01-05P22A	Overhead Water Storage Tank Vent Pipe 4" dia as per drawing and specifications for U.G.W.Tank, O.H.W.Tank complete in all respects, puddle flange, specials as per drawing or directed by the Engineer.	2	Nos			
01-05P22B	Providing, laying, cutting, jointing, testing and disinfecting brass pipe selevs/ connection pie with puddle including coupler (Heavy Quality) of approved as per B.S.S coads complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer. i) 1" dia, pipe selevs, 10" long ii) 1¼" dia, pipe selevs. 10" long iii) 2½" dia, pipe selevs, 10" long	3 2 3	Nos Nos Nos			
01-05P23	Kanchan Arsenic Filter Filter Material. Providing & laying gravel, including screening and washing as per drawing or directed by the Engineer. Gravel size 6 mm to 15 mm.	21	Cft			
01-05P24	Providing & laying coarse sand, including screening and washing as per drawing or directed by the Engineer.	42	Cft			
01-05P25	Providing & laying fine sand, including screening and washing as per drawing or directed by the Engineer.	42	Sq.ft.			
01-05P26	Providing & fixing M.S sheet 1/4" thick, 1/8" Dia hole 2 inch c/c (Diffuser Plate), as per drawing or directed by the Engineer.	37	Sq.ft.			
01-05P27	Providing & laying Dry rammed brick ballast 1-1/2" to 2" (40mm to 50mm) guage, including screening and washing as per drawing or directed by the Engineer.	9	Cft.			
01-05P28	Providing & laying iron nails with out coating (1" thick layer) as per drawing or directed by the Engineer.	125	Kg.			
01-05P29	Providing & fixing cover over Kanchan Filter of PVC sheet 1/2" thick, as per drawing or directed by the Engineer.	32	Sq.ft.			
01-05P30	Providing, laying, cutting, jointing, testing and disinfecting PPRC pipe including plastic shower heads with all fittings complete in all respects as per drawing or directed by the Engineer. i) ¾" internal dia (32 mm outer dia)	23	Rft.			
01-05P31	Providing and fixing Plastic Shower Heads	9	Nos			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P32	Tube Well / Penumatic Pump Boring for tubewell in all types of soil except shingle and rock, from ground level to 100 ft (30m) Depth, including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. i) 8" i/d (200mm)	100	Rft.			
01-05P33	Boring for tubewell in all types of soil except shingle and rock, from a depth of 100.1 to 200ft (30 to 60 m) below ground level, including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. i) 8" i/d (200mm)	50	Rft.			
01-05P34	Providing and installing P.V.C. bail/End plug B.S.S. class 'D', in tubewell bore hole, complete in all respect and as directed by the Engineer. i) 2" i/d (100mm)	1	Each.			
01-05P35	Providing and installing P.V.C. blind pipe B.S.S Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer, etc, complete in all respect and as directed by the Engineer. i) 1" i/d(25mm) ii) 1-1/4" i/d(30mm) iii) 2" i/d(50mm)	55 150 40	Rft. Rft. Rft.			
01-05P36	Providing and installing P.V.C. strainer B.S.S Class 'D' in tubewell bore hole, including sockets and solvents; etc, complete in all respect and as directed by the Engineer. i) 2" i/d(50mm)	40	Rft.			
01-05P36	Providing and installing P.V.C. blind pipe B.S.S Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer, complete in all respect and as directed by the Engineer. i) 4" i/d (100mm)	60	Rft.			
01-05P37	Testing and developing of bore hole, complete in all respect and as directed by the Engineer.	3	Per Hr.			
01-05P38	Shrouding with graded pea gravel 3/8" to 1/8" around tubewell in bore hole, complete in all respect and as directed by the Engineer	45	Cft.			
01-05P39	Providing/fixing Injector valve as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	Each.			
01-05P40	Providing/fixing P.V.C. Cup/Cover as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	No.			
01-05P41	Providing/fixing Pneumatic Pump (having 4 impellers capable to carry a discharge of 400 gals/hr against 90 ft head and 3 HP Motor), complete in all respect and as directed by the Engineer.	1	Set.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	EXTERNAL PIPING					
	<u>Plumbing Water Supply</u>					
01-05P42	Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for water supply as per DIN 8077-8078 for pipes and DIN 16962,PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.					
	i) ½" internal dia (20 mm outer dia)	Rate Only	Rft.			
	ii) ¾" internal dia (32 mm outer dia)	30	Rft.			
	iii) 1" internal dia (40 mm outer dia)	150	Rft.			
	iv) 1½" internal dia (50 mm outer dia)	130	Rft.			
	v) 1½" internal dia (63 mm outer dia)	13	Rft.			
	vi) 2" internal dia (75 mm outer dia)	Rate Only	Rft.			
	vii) 2½" internal dia (90 mm outer dia)	Rate Only	Rft.			
01-05P43	Providing and installing gate/ball valves, Kitz or approved equivalent make, including jointing ,fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters.					
	i) ¾" internal dia (32 mm outer dia)	2	No			
	ii) 1" internal dia (40 mm outer dia)	4	No			
	iii) 1½" internal dia (50 mm outer dia)	3	No			
	iv) 1½" internal dia (63 mm outer dia)	0	No			
	v) 2" internal dia (75 mm outer dia)	Rate Only	No			
	vi) 2½" internal dia (90 mm outer dia)	Rate Only	No			
	<u>Plumbing Sewerage</u>					
01-05P44	Providing, fixing , cutting, jointing and testing uPVC piping conforming to BS-4514 and BS 5255 including uPVC fittings with solvent cement jointing, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter:					
	2" dia	Rate Only	Rft.			
	3" dia	Rate Only	Rft.			
	4" dia	32	Rft.			
	6" dia	430	Rft.			
01-05P45	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.	Rate Only	No.			
01-05P46	Construction of rectangular brick masonry manhole of 2'x2' for sewer complete with plastering from internal and external side, PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, rungs, complete as per drawings.	Rate Only	No.			
01-05P47	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.	Rate Only	No.			
01-05P48	Providing and fixing Clean Out complete in all respects	Rate Only	No.			
	<u>Water Supply Pump For GST</u>					
01-05P49	Supply at site, installation, testing and commissioning of water supply reciprocating pump with 2HP motor as per spacification complete in all respect.	2	No			
	Sub- Total (Rs.)					
	Total Cost for Plumbing Works Pak Rs.					

**GBSS No.9 Sector 8/L
(Orangi Town)
(P15- KHI-128)**

SINDH BASIC EDUCATION PROGRAM

CONSTRUCTION OF NEW SCHOOLS AND UPGRADATION OF EXISTING SCHOOLS

Package- 15: Karachi (Orangi, Liyari & Kemari Towns)

GBSS No.9 Sector 8L Orangi Town

SUMMARY OF TENDERED COST

CODE	DESCRIPTION	AMOUNT (PKR)
A.	GENERAL ITEMS	
B.	CIVIL WORKS	
C.	EXTERNAL WORKS	
D.	ELECTRICAL WORKS	
E.	PLUMBING WORKS	
TOTAL COST OF SCHOOL BUILDING (PKR):		

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
	<u>Temporaray Facilities (Optional Items)</u>					
	Ref.Spec. No. G05					
01- 01 G 1	Providing and maintaining a rental building of area 3200 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, water supply and sanitation complete in all respect as directed by the Engineer.	12	Month			
	OR					
01- 01 G 2	Providing and maintaining a tent school of area 3200 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 3200 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			
01- 01 G 4	Shifting of furnitures and equipemnts and reinstall etc from existing school to rental building and reinstall as per specification and directed by the engineer.	1	L.S			
	<u>Site Clearing and Grubbing</u>					
	Ref.Spec. No. C01					
01- 01 G 5	Clearing and Grubbing complete in all respect as directed by the Engineer.	59,262	Sft			
	<u>DISMANTLING WORK</u>					
	Ref.Spec. No. G04					
01- 01 G 6	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 7	Dismantling, removing of existing sewerage lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.			
01- 01 G 8	Dismantling, removing of existing water supply lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.			
01- 01 G 9	Dismantling, removing of existing electrical supply line as directed by the Engineer.	150	Rft.			
01- 01 G 10	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.	0	Rft			
01- 01 G 11	Dismatling, removing of existing walkways/plateform and flooring as shown in the drawing/ as per site including disposal of surplus material and as directed by the Engineer. Dismantled material shall be contractor's	500	Sft			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
POWER SUPPLY & TELECOMMUNICATION						
01- 01 G 12	Providing, installing, testing and commissioning of electrical supply line for re-routing as per new plan including cables, all fixtures, connections and all related civil works as directed by the Engineer.	1	Job			
01- 01 G 13	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			
SIGN BOARD / PLAQUE						
Ref.Spec. No. SP 100						
01- 01 G 16	Providing and installation of Project sign board as per drawing complete including all civil related works, foundations, earthwork concrete, protection works complete as directed by the Engineer.	1	Job			
01- 01 G 17	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			
01- 01 G 18	Providing and maintenance of the Engineer's facilities at individual school site as per clause SP 44. All items/materials/equipment shall become contractor's property at the completion of works.	30	Month			
WATER TESTING						
Ref.Spec. No.						
01- 01 G 19	Sampling and testing of Water from bore of well (TDS) including submission of report as per specification.	1	Each			
Sub- Total (Rs.)						
PROVISIONAL SUMS						
01- 01 G 20	Repair & renovation of existing Governmet building proposed for temporary school during the construction. (The payable amount shall be assessed as per actual rehabilitation work on selected building and as per recommendation by the Engineer on BOQ rates of similar items quoted in the bid).		P S			500,000
01- 01 G 21	New Utility connection or shifting & relocation of existing Electric HT lines passing through the school plan including all approvals from concerned department/agency and providing, installing/fixing of poles, PMT etc along with all associated civil work like concrete foundation, mounting base, arial conductors, grounding etc. complete in all respects & as directed by the Engineer		P S			300,000
Sub- Total (Rs.)						
Total Cost for General Items Pak Rs.						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
CONSTRUCTION OF SCHOOL BUILDING						
SUB-STRUCTURE						
EARTHWORKS						
Ref.Spec. No. C02						
01- 02 C 1	Excavation in all kinds of sub-surface materials, timbering upto following depths including disposal of surplus / rejected excavated materials to designated places.					
	a) 0 ft to 5 ft	38515	Cft.			
	b) More than 5 ft upto 10 ft.	11344	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)	38515	Cft.			
	b) Obtained from outside sources (material/source to be approved by the Engineer) upto free haulage limit.	43002	Cft.			
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	1	L. S.			
	b) Dewatering, days not allow more then/ maximum payable	10	Day			
TERMITE CONTROL TREATMENT						
Ref.Spec. No. C03						
01- 02 C 4	Termite control treatment to surfaces following structures complete in all respect as per specification: (Only plan area will be measured)	11.550	Sq.ft.			
REINFORCEMENT						
Ref.Spec. No. C04						
01- 02 C 5	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	43	ton.			
01- 02 C 6	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate only	ton.			
PLAIN AND REINFORCED CONCRETE AND FORMWORKS						
Ref.Spec. No. C04						
01- 02 C 7	Blinding concrete 1250 psi using slag cement conforming to BS-146.	2930	Cft.			
01- 02 C 8	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in:					
	a) Footing / Raft foundation	10,252	Cft.			
	b) Columns upto plinth	2,124	Cft.			
	c) Plinth beams	2,769	Cft.			
	d) SOG & Ramps Slabs	158	Cft.			
	e) Walls	50	Cft.			
SITU CONCRETE 1:3:6						
Ref.Spec. No. C04						
07- 02 C 9	Situ concrete 1:3:6, with formwork under the plinth beam thickness as per drawings, using slag cement conforming to BS-146, straight or curve at any level including all anchors required to be built in Rcc columns pedestals, complete in all respect as per drawings and specifications	3,474	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 10	<u>HARDCORE/ STONE SOLING</u> Ref.Spec. No. C07 6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	8,563	Sq.ft.			
01- 02 C 11	<u>P.C.C UNDER FLOORING</u> Ref.Spec. No. C07 PCC 4" thick plain cement concrete (using slag cement conforming to BS-146) sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	8,563	Sq.ft.			
01- 02 C 12	<u>PLINTH PROTECTION</u> Ref.Spec. No. C04 & C07 Blinding concrete 1250 psi using slag cement conforming to BS-146	690	Cft.			
01- 02 C 13	<u>PROTECTION WORKS</u> Ref.Spec. No. C16 Vapor barrier sheet, under the floor as per drawings and specifications.	8,563	Sq.ft.			
01- 02 C 14	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	24,796	Sq.ft.			
	<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.	33	ton.			
01- 02 C 16	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate Only	ton.			
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u> 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 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	1,526 2,171 5,582 373 259 83	Cft. Cft. Cft. Cft. Cft. Cft.			
	<u>First Floor (From 1st Slab to 2nd slab)</u>					
	<u>REINFORCEMENT</u> Ref.Spec. No. C04					
01- 02 C 18	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	34	ton.			
01- 02 C 19	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate Only	ton.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u> 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	1,690 2,204 5,765 175 206 32	Cft. Cft. Cft. Cft. Cft. Cft.			
	<u>Second Floor / Roof (From 2nd slab to 3rd slab & tower)</u> <u>REINFORCEMENT</u> Ref.Spec No. C04					
01- 02 C 21	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	4	ton.			
01- 02 C 22	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate only	ton.			
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u> Ref.Spec. No. C04					
01- 02 C 23	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures components complete in all respect as per drawings and specification; a) Columns b) Beams & lintels c) Slab & projections d) Parapet Wall/ Purdi e) Precast coping for parapet wall at roof and erecting/ fixing including shuttering and all accessories and/or embedded parts. g) Over head water tank, column, walls & slab f) Others Misc Str	108 137 230 815 1,000 396 20	Cft. Cft. Cft. Cft. Rft. Cft. Cft.			
	<u>FINISHING WORKS</u> <u>For Ground floor</u> <u>BLOCK MASONRY</u> Ref.Spec. No.C18					
01- 02 C 24	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 4" thick b) 6" thick c) 8" thick d) 4" thick, external cavity; wall with all accessories arrangements for stone tile facing or Color Crete finishig including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height &level.	3,708 556 5,430 1,296	Cft. Cft. Cft. Cft.			
	<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.	752	R.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>CEMENT PLASTER</u> Ref.Spec. No. C06					
01- 02 C 26	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	375	Sq.ft			
01- 02 C 28	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	8,780	Sq.ft.			
01- 02 C 29	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	20,773	Sq.ft.			
	<u>ALUMINIUM WORKS</u> Ref.Spec. No. C11					
01- 02 C 30	Supply and fix in position as specified and approved anodized aluminum openable/sliding widows and ventilators having outside frame profile thickness not less than 2mm and glass frame thickness not less than 1.6mm , approved manufacturer, sliding with netted shutter and openable without netted shutter and 6mm float glass with safety coating of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	1,733	Sq.ft.			
01- 02 C 31	Supply and fix in position as specified anodized aluminum doors with fixed panel both side and top of approved 2"x4" section, manufacturer having minimum wall thickness not less than 1.6 mm with 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	Rate only	Sq.ft.			
	<u>STRUCTURAL STEEL</u> Ref. Sec.No. C13					
01- 02 C 32	Mild steel grills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings and specification.	2,166	Kg			
01- 02 C 33	Providing and fixing railing for stairs/ramps as per drawing and specifications complete in all respect. a) MS railing stairs b) M.S railing at entrance	54 60	Rft Rft			
01- 02 C 34	Providing and fixing MS pipe railing with paintings, as per drawings and specifications complete in all respects and approved by the Engineer. a) Courtyard Railing (4' Height) b) Railing at staircase landing (4' Height) c) Railing for protection of cc jali (3' Height)	178 10 40	Rft Rft Rft			
01- 02 C 35	Providing and fixing MS folding gate (Emergency Exit) with paintings, complete in all respects as per drawing and specifications.	2	No			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 35A	Providing and fixing MS folding Main entrance gate with paintings, complete in all respects as per drawing and specifications.	1	No			
	FLOOR AND WALL FINISHES Ref.Spec. No. C07					
01- 02 C 36	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical/approved polishing complete in all respect as per drawing, specification and as directed by the Engineer.	7,841	Sq.ft.			
01- 02 C 37	Providing and laying terrazzo tile for entrance ramp (3/4" thick) with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	75	Sq.ft.			
01- 02 C 38	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	494	Sq.ft.			
01- 02 C 39	Porcelain tile floor (type) using tile of size 8"x8"or as approved (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 drawings and specifications.	730	Sq.ft.			
01- 02 C 40	Porcelain tile in Dado using tile of size 8"x8" or as approved, quality, colour and shade laid in approved pattern including rough plaster base complete in all respect as shown on drawings and specifications.	3,664	Sq.ft.			
	MARBLE WORKS Ref.Spec. No. C07 & C08					
01- 02 C 41	Pre-polished marble on entrance steps, stairs, ramp & floor etc using approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.					
	a) Entrance Steps & Platform (3/4" thick)	325	Sq.ft.			
	b) Entrance Steps Risers (1/2" thick)	60	Sq.ft.			
01- 02 C 42	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	382	Sq.ft.			
01- 02 C 43	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	106	Sq.ft.			
01- 02 C 44	Pre-polished Marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish including complete in all respect as shown on the drawings.	53	Sq.ft.			
01- 02 C 45	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	83	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>PAINTING</u>					
	Ref.Spec. No. C10					
01- 02 C 46	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	8,780	Sq.ft.			
01- 02 C 47	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	20,773	Sq.ft.			
01- 02 C 48	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	375	Sq.ft.			
	<u>WOODEN DOORS</u>					
	Ref.Spec. No. C09					
01- 02 C 49	Wooden flush door leaves of the approved types and sizes Burma teak veneer on hardwood ply minimum thickness 3.5mm or as approved finished shutter fixed comprising 1-1/2" thick solid core partal wood 100% infill edging, polish, color/ laquer, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with laquer polish complete in all respect as shown on the drawings and specifications.	1,093	Sq.ft.			
01- 02 C 49A	Providing & Fixing Wooden Doors for Service Ducts having Shutter of Lasani or other approved material of size 4'x4'x3/4" and Frame of Partal or equivalent wood of size 7'-6"x4 1/2"x1 1/2" including all fittings & fixtures, accessories, 1/2" thick lipping & paiting etc complete in all respects & as directed by the Engineer	16	Sq.ft.			
01- 02 C 50	Fixed 6mm plain safety laminated glass panel part at above door panel with solid wood batten including teak polish/ lacker at both sides around the glass of approved type, quality complete in all respect as shown on the drawings and specifications.	146	Sq.ft.			
	<u>FALSE CEILING</u>					
	Ref.Spec. No.					
01- 02 C 51	Gypsum board ceiling minimum thickness 7.5mm waterproof including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on the drawings and specifications.	730	Sq.ft.			
	<u>Pre cast C.C Patren jali</u>					
	Ref.Spec. No.					
01- 02 C 52	C.C Patren jali as per approved designed and specification	360	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 53	CLADDING/ EXTERNAL FACING Ref.Spec. No.C19 & C20 Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer	5,344	Sq.ft.			
01- 02 C 53 A	Providing and laying Color-Crete with 3/4" Cement sand plaster on extrenal facing as per approved sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	4,801	Sq.ft.			
	FINISHING WORKS For First floor BLOCK MASONRY Ref.Spec. No.C18					
01- 02 C 54	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 4" thick b) 6" thick c) 8" thick d) 4" thick, external cavity, wall with all accessories arrangements for stone tile facing or Color Crete finishig including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height & level.	2,396 359 6,198	Cft. Cft. Cft.			
01- 02 C 55	DOORS FRAMES 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.	725	R.ft.			
01- 02 C 56	CEMENT PLASTER 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.	Rate only	Sq.ft.			
01- 02 C 57a	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	8,713	Sq.ft.			
01- 02 C 57b	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.	20,562	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>ALUMINIUM WORKS</u> Ref.Spec. No. C 11					
01- 02 C 58	Supply and fix in position as specified and approved anodized aluminum openable/sliding widows and ventilators having outside frame profile thickness not less than 2mm and glass frame thickness not less than 1.6mm , approved manufacturer. sliding with netted shutter and openable without netted shutter and 6mm float glass with safety coating of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	1,414	Sq.ft.			
	<u>STRUCTURAL STEEL</u> Ref. Sec.No. C 13					
01- 02 C 59	Mild steel grills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings.	1,739	Kg			
01- 02 C 60	Providing and fixing MS stair railing as per drawing and specifications complete in all respect.	30	Rft			
01- 02 C 61	Providing and fixing MS pipe railing with paintings, as per drawings and specifications complete in all respects and approved by the Engineer.					
	a) Courtyard Railing (4' Height)	178	Rft			
	b) Railing at staircase landing (4' Height)	20	Rft			
	c) Railing for protection of cc jali (3' Height)	48	Rft			
	<u>FLOOR AND WALL FINISHES</u> Ref.Spec. No. C 07, 08					
01- 02 C 62	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	9,213	Sq.ft.			
01- 02 C 63	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	576	Sq.ft.			
01- 02 C 64	Porcelain tile floor (type) using tile of size 8"x8" or as approved (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.	500	Sq.ft.			
01- 02 C 65	Porcelain tile in Dado using tile of size 8"x8" or as approved, quality, colour and shade laid in approved pattern including rough plaster base complete in all respect as shown on drawings and specifications.	2,364	Sq.ft.			
	<u>MARBLE WORKS</u> Ref.Spec. No. C 07, 08					
01- 02 C 66	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	176	Sq.ft.			
01- 02 C 67	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	50	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 68	Pre-polished marble tile for counter tops & other area 3/4" thick using of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including complete in all respect as shown on the drawings.	50	Sq. ft.			
01- 02 C 69	Pre-polished Marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	34	Sq. ft.			
01- 02 C 70	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	45	Sq. ft.			
	<u>PAINTING</u> Ref.Spec. No. C 10					
01- 02 C 71	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc at any height and level with scaffolding, complete in all respect as directed by the Engineer.	8,713	Sq. ft.			
01- 02 C 72	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	20,562	Sq. ft.			
	<u>WOODEN DOORS</u> Ref.Spec. No. C 09, 12					
01- 02 C 73	Wooden flush door leaves of the approved types and sizes Burma teak veneer on hardwood ply minimum thickness 3.5mm or as approved finished shutter fixed comprising 1-1/2" thick solid core partal wood 100% infill edging, polish, color/ laquer, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with laquer polish complete in all respect as shown on the drawings and specifications.	1,071	Sq. ft.			
01- 02 C 73A	Providing & Fixing Wooden Doors for Service Ducts having Shutter of Lasani or other approved material of size 4'x4'x3/4" and Frame of Partal or equivalent wood of size 7'-6"x4 1/2"x1 1/2" including all fittings & fixtures, accessories, 1/2" thick lipping & paiting etc complete in all respects & as directed by the Engineer	16	Sq. ft.			
01- 02 C 74	Fixed 6mm plain safety laminated glass panel part at above door panel with solid wood batten including teak polish/ lacker at both sides around the glass of approved type, quality complete in all respect as shown on the drawings and specifications.	93	Sq. ft.			
	<u>FALSE CEILING</u> Ref.Spec. No.					
01- 02 C 75	Gypsum board ceiling minimum thickness 7.5mm waterproof including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on drawings and specifications.	635	Sq. ft.			
	<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	731	Sq. ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>STONE CLADDING/ COLOR-CRETE/ EXTERNAL FACING</u> Ref.Spec. No. C19 & C20					
01- 02 C 77	Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using mortar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	5,501	Sq.ft.			
01- 02 C 77 A	Providing and laying Color-Crete with 3/4" Cement sand plaster on external facing as per approved sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using mortar 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	4,848	sq.ft			
	<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.	11,693	Sq.ft.			
	<u>FINISHING WORKS</u> <u>For Roof floor / Second floor</u> <u>BLOCK MASONRY</u> Ref.Spec. No. C18					
01- 02 C 79	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 4" thick b) 6" thick c) 8" thick d) 4" thick, external cavity; wall with all accessories arrangements for stone tile facing or Color Crete finishig including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height & level.	30 50 430 789	Cft. Cft. Cft. Cft.			
	<u>DOORS FRAMES</u> Ref.Spec. No. C09 & C11					
01- 02 C 80	G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	35	R.ft.			
	<u>CEMENT PLASTER</u> Ref.Spec. No. C 06					
01- 02 C 81	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection, parapet or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and as per elevation complete in all respect as shown on drawings.	2,504	Sq.ft.			
01- 02 C 82	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	388	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 83	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	928	Sq.ft.			
01- 02 C 84	3/4" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls to O.H.W Tank etc with making of chamfer corner in plaster as per drawings and specifications.	305	Sq.ft.			
01- 02 C 85	Water proofing coating treatment to all vertical surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating.	150	Sq.ft.			
01- 02 C 86	Water proofing coating treatment to all horizontal surfaces in contact with water shall be treated with 1 coat of crystalline water proofing coating.	210	Sq.ft.			
01- 02 C 87	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivalant, including fixing of frame and embedded parts in concrete and painting, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 02 C 88	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer. (For O.H.W tank)	4	No.			
FLOOR AND WALL FINISHES						
Ref.Spec. No. C 07, 08						
01- 02 C 89	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	180	Sq.ft.			
01- 02 C 90	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	16	Sq.ft.			
MARBLE WORKS						
Ref.Spec. No. C 07, 08						
01- 02 C 91	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	6	Sq.ft.			
PAINTING						
Ref.Spec. No. C 10						
01- 02 C 92	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	388	Sq.ft.			
01- 02 C 93	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	928	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 94	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc.complete in all respect as directed by the Engineer.	2,504	Sq.ft.			
	<u>WOODEN DOORS</u> Ref.Spec. No. C 09, C12					
01- 02 C 95	Wooden flush door leaves of the approved types and sizes Burma teak veneer on hardwood ply minimum thickness 3.5mm or as approved finished shutter fixed comprising 1-1/2" thick solid core partal wood 100% infill edging, polish, color/ laquer, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with laquer polish complete in all respect as shown on the drawings and specifications.	45	Sq.ft.			
	<u>Pre cast C.C Patren jali and Railing</u> Ref.Spec. No.					
01- 02 C 96	C.C Patren jali as per approved designed and specification	100	Sq.ft.			
01- 02 C 97	Precast water spout as per approved designed and specification	15	No.			
	<u>CLADDING/ EXTERNAL FACING</u> Ref.Spec. No. C19 & C20					
01- 02 C 98	Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	4,083	Sq.ft.			
01- 02 C 98A	Providing and laying Color-Crete with 3/4" Cement sand plaster on extrenal facing as per approved sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	530	Sq.ft.			
01- 02 C 99	Providing & Fixing of Alphabetical Letters made of MS silver Material or any other approved material as name of school on external wall/face at entrance of the newly constructed school building of approved design, colour & fontface etc complete in all respects and as directed by the Engineer.	1	Job			
Total Cost for Civil Works Pak Rs.						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>EXTERNAL DEVELOPEMENT</u>					
	<u>CONSTRUCTION OF BOUNDARY WALL</u>					
	Ref.Spec. No. C02					
	<u>EARTHWORKS</u>					
	Ref.Spec. No.					
01- 03 D 1	Excavation in all kinds of sub-surface materials, timbering upto following depths including disposal of surplus / rejected excavated materials to designated places. a) 0 ft to 5 ft	0	Cft.			
01- 03 D 2	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	0 0	Cft. Cft.			
01- 03 D3	Area Fill with selected materials from outside source including watering and compaction to every layer as per specification for Play ground.	60,000	Cft.			
01- 03 D3A	Providing & fixing/embading of School Name Plate/ Sign board, made of Marble in Boundary wall near main entrance gate of school building complete in all respects & as directed by the Engineer	1	Job			
	<u>DEWATERING (applicable on Section 3)</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	1 10	L.S. Day			
	<u>TERMITE CONTROL TREATMENT</u>					
	Ref.Spec. No. C03					
01- 03 D5	Termite control treatment to surfaces following structures complete in all respect as per specification. (Only plan area will be measured)	0	Sq.ft.			
	<u>REINFORCEMENT</u>					
	Ref.Spec. No. C04					
01- 03 D6	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	0	ton			
	<u>PLAIN AND REINFORCED CONCRETE</u>					
	Ref.Spec. No. C04					
01- 03 D7	Blinding concrete 1250 psi using slag cement conforming to BS-146.	0	Cft.			
01- 03 D8	Reinforced cement concrete using slag cement conforming to BS-146. 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Footings b) Columns upto plinth c) Plinth beams	0 0 0	Cft. Cft. Cft.			
01- 03 D9	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification: a) Columns	0	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>BLOCK MASONRY</u> Ref.Spec. No.					
01- 03 D10	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 8" thick / 4" thick	0	Cft.			
01- 03 D10a	Solid brick masonry wall with pointing on both faces above plinth beam 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	0	Cft.			
	<u>CEMENT PLASTER</u> Ref.Spec. No. C06					
01- 03 D11	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces (Columns, wall, beams and project etc.) including making grooves as per design and elevation complete in all respect as shown on the drawings.	0	Sq.ft.			
	<u>PROTECTION WORKS</u> Ref.Spec. No. C16					
01- 03 D12	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	0	Sq.ft.			
	<u>COPING</u> Ref.Spec. No. C04					
01- 03 D13	Providing and fixing 3" thick coping including plaster using OP cement for boundary wall complete as shown on the drawings.	0	Rft.			
	<u>STRUCTURAL STEEL</u> Ref. Sec.No. C13					
01- 03 D14	Mild steel main gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 14'x7')	1	no			
01- 03 D15	Mild steel wicket gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 3'x7')	1	no			
	<u>CLADDING/ EXTERNAL FACING</u> Ref.Spec. No. C19 & C20					
03 D15a	Providing and laying stone cladding/ stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	6,000	sft			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
LANDSCAPING						
Ref. Sec.No.						
01- 03 D 16	Fill and backfill with selected materials including watering and compaction to every layer as per specification.	1,539	Cft.			
01- 03 D17	Area Fill with selected materials including watering and compaction to every layer as per specification.	48,750	Cft.			
01- 03 D18	Relocation and replanting of removed trees as per specifications and as directed by the Engineer.	Rate Only	No.			
01- 03 D19	Development of lawn (grass) including fertilizer mixed with earth including spreading and watering etc. and cutting etc. till guarantee period (12 months) complete in all respect as shown on the drawings and as per specifications.	10,215	Sq.ft.			
01- 03 D20	12" thick approved selected sweet earth including spreading, levelling, dressing and watering etc. complete in all respect as per specifications and as directed by the Engineer.	10,215	Cft.			
01- 03 D21	Trees/plants of the following types and size/height including excavation, backfilling, manure/ fertilizer, supports and water etc. complete in all respect as shown on the drawings, specifications and as directed by the Engineer.					
	a) Neem (3 to 4 feet)	16	No.			
	b) Babul (3 to 4 feet)	5	No.			
	c) Golmohar (3 to 4 feet)	12	No.			
	d) Champa (2 to 3 feet)	30	No.			
	e) Grape Jasmine (2 to 3 feet)	27	No.			
	f) Cement Concrete planters.	168	Rft			
Foothpath Walkway (Precast Paving Blocks / Tiles)						
Ref. Sec.No.						
01- 03 D22	4" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	2,098	Sq.ft.			
01- 03 D23	Precast cement concrete paving blocks/Tile approved strength shape and pattern of minimum 2 inches thickness including 2" thick sand cushion, levelling and dressing complete in all respect and as directed by the Engineer.	2,098	Sq.ft.			
01- 03 D24	PCC concrete kerb block of approved quality and strength including lean, hauching concrete etc complete as per drawing and specifications with earth cutting/ filling, levelling, dressing etc complete in all respect as per specifications and as directed by the Engineer.	455	Rft			
01- 03 D24A	Plain cement concrete panel flooring including subfloor, bed preparation etc, 1/2" Groove @ 8' c/c, joints etc complete as shown in the drawings.	788	Sq.ft.			
EXTERNAL SEWER & MANHOLES						
01- 03 D25	Construction of manholes with material including, excavation, base top RCC slab, GI steps, CC benching water proof internal plaster, external bitumen coating etc inlet/out connections etc.					
	i. 18" x 18" SIZE	19	Nos.			
	ii. 24" x 24" SIZE	5	Nos.			
	ii. 36" x 36" SIZE	Rate only	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D26	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	10	No.			
01- 03 D27	<u>Septic Tank</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	830	Cft.			
	b) More than 5 ft upto 10 ft.	430	Cft.			
01- 03 D28	Blinding concrete 1250 psi using slag cement conforming to BS-146	55	Cft.			
01- 03 D29	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of Crystalline water proofing coating on vertical surfaces.	490	Sq.ft.			
01- 03 D30	Water proofing coating treatment to all surfaces in contact with water shall be treated with 1 coat of Crystalline water proofing coating on horizontal surface.	140	Sq.ft.			
01- 03 D31	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer.					
	a) Base Slab.	111	Cft.			
	b) Walls including chamfer etc.	345	Cft.			
	c) Top Slab	70	Cft.			
01- 03 D32	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60, as mentioned in drawings and directed by the Engineer.	1.5	Ton			
01- 03 D32	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	90	Sq.ft.			
01- 03 D33	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	630	Sq.ft.			
01- 03 D34	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings complete in all respect as shown on the drawings and specifications.	430	Sq.ft.			
01- 03 D35	Providing embedding 10" wide PVC water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	51	Rft.			
01- 03 D36	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 03 D37	Supply and fitting of hot dip galvanised iron rung or as approved, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D38	Soakage Pit Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer.					
	a) 0 to 5 ft	900	Cft.			
	b) More than 5 ft upto 10 ft.	900	Cft.			
	c) More than 10 ft upto 17 ft.	1,800	Cft.			
01- 03 D39	Blinding concrete 1250 psi using slag cement conforming to BS-146.	25	Cft.			
01- 03 D40	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 20" thick	680	Cft			
	b) 16" thick	550	Cft			
	b) 12" thick	210	Cft			
01- 03 D41	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. Pre-cast / Cast in Situ R.C.C Slab	90	Cft			
01- 03 D42	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 as mentioned in drawings and directed by the Engineer.	0.35	Ton			
01- 03 D43	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	1	No			
01- 03 D44	Supply and fitting of hot dip galvanised iron rung or as approved, etc. complete in all respects, as per drawing and directed by the Engineer.	24	No			
01- 03 D45	Ground Storage Tank / Pump Room 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.			
	b) More than 5 ft upto 10 ft.	12	Cft.			
01- 03 D46	Blinding concrete 1250 psi using slag cement conforming to BS-146	48	Cft.			
01- 03 D47	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer.					
	a) Base Slab.	100	Cft.			
	b) Walls including chamfer etc.	255	Cft.			
	c) Top slabs	60	Cft.			
	d) Precast Slab	10	Cft.			
01- 03 D48	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	1	Ton			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D49	Providing embedding 10" (250 mm) wide PVC water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	55	Rft.			
01- 03 D50	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 12" thick	75	Cft.			
01- 03 D51	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 03 D52	Supply and fitting of hot dip galvanised iron rung or as approved, etc. complete in all respects, as per drawing and directed by the Engineer.	10	No.			
01- 03 D53	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	530	Sq. ft.			
01- 03 D54	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	116	Sq. ft.			
01- 03 D55	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	435	Sq. ft.			
01- 03 D56	2" thick, 3000 cement concrete floor and screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	185	Sq. ft.			
01- 03 D57	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. complete in all respect as per specifications.	90	Sq. ft.			
01- 03 D58	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	12	Sq. ft.			
01- 03 D59	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	40	Sq. ft.			
01- 03 D60	MS Door including paint etc complete in all respect as shown in the drawings.	15	Sq. ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 2 coats of crystalline water proofing coating on vertical surfaces.	577	Sq.ft.			
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 1 coat of crystalline water proofing coating on horizontal surfaces.	83	Sq.ft.			
	<u>Tube Well / Penumatic Pump</u> <u>Construction works</u>					
01- 03 D62	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer.					
	a) 0 to 5 ft	150	Cft.			
01- 02 C 63	Fill and backfill with selected materials including watering and compaction to every layer as per specification.					
	a) From suitable excavated material (from stockpile of excavated materials)	20	Cft.			
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	40	Cft.			
01- 03 D64	Blinding concrete 1250 psi using slag cement conforming to BS-146	60	Cft.			
01- 03 D65	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification; Pre-cast R.C.C Slab including Beam	35	Cft.			
01- 03 D66	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer	0.05	Ton			
01- 03 D67	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 20" thick, for foundation	50	Cft			
	b) 16" thick, for foundation	40	Cft			
	c) 12" thick, for foundation	45	Cft			
	d) 12" thick, for above G.L	180	Cft			
	e) 4" thick, for parapet wall	10	Cft			
01- 03 D68	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	285	Sq.ft.			
01- 03 D69	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	25	Sq.ft.			
01- 03 D70	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	150	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D71	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	25	Sq. ft.			
01- 03 D72	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	25	Sq. ft.			
01- 03 D73	Plain cement concrete 2" thick floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	25	Sq. ft.			
01- 03 D74	Plain cement concrete 2" thick screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	33	Sq. ft.			
01- 03 D75	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. complete in all respect as per specifications.	285	Sq. ft.			
01- 03 D76	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	25	Sq. ft.			
01- 03 D77	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	150	Sq. ft.			
01- 03 D78	Vapor barrier sheet, under foundations and floor as per drawings and specifications.	25	Sq. ft.			
01- 03 D79	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	250	Sq. ft.			
01- 03 D80	Kanchan Arsenic filter Excavation and backfilling in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places. a) 0 ft to 5 ft	75	Cft.			
01- 03 D81	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	50 100	Cft. Cft.			
01- 03 D82	Blinding concrete 1250 psi using slag cement conforming to BS-146	15	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D83	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer.					
	a) footing	25	Cft			
	b) Columns up bottom first slab	20	Cft			
	c) Slabs & projection	35	Cft.			
	e) Walls including chamfer etc.	80	Cft.			
01- 03 D84	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.5	Ton			
01- 03 D85	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	84	Sq.ft.			
01- 03 D86	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	84	Sq.ft.			
01- 03 D87	2" thick, 3000 cement concrete floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	84	Sq.ft.			
01- 03 D88	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	152	Sq.ft.			
01- 03 D89	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	126	Sq.ft.			
01- 03 D90	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating.	126	Sq.ft.			
01- 03 D91	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	218	Sq.ft.			
	<u>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.			
	b) More than 5 ft upto 10 ft.	540	Cft.			
01- 03 D93	Blinding concrete 1250 psi using slag cement conforming to BS-146	50	Cft.			
01- 03 D94	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of Crystalline water proofing coating.	466	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
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.			
	b) Walls including chamfer etc.	335	Cft.			
	c) Top Slab	89	Cft.			
01- 03 D96	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 as mentioned in drawings and directed by the Engineer.	1.150	Ton			
01- 03 D97	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	102	Sq.ft.			
01- 03 D98	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	349	Sq.ft.			
01- 03 D99	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings complete in all respect as shown on the drawings and specifications.	466	Sq.ft.			
01- 03 D100	Providing embedding 10" wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	44	Rft.			
01- 03 D101	Supply and fix water tight (Round Type, 24") Pre-cast heavy duty cover with M.S frame work, including lifring handle, making good, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 03 D102	Supply and fitting of hot dip galvanised iron rung or as approved, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No.			
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	5,125	Cft.			
	b) More than 5 ft upto 10 ft.	-	Cft.			
01- 03 D104	Blinding concrete 1250 psi using slag cement conforming to BS-146	151	Cft.			
01- 03 D105	Solid brick/block masonry wall from 13-1/2" to 31-1/2" thicknesses set in 1:4 cement sand mortar.	520	Cft			
01- 03 D106	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer.					
	Pre-cast R.C.C Slab	250	Cft			
01- 03 D107	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.57	Ton			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
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.			
01- 03 D109	Supply and fitting of hot dip galvanised iron rung or as approved, etc. complete in all respects, as per drawing and directed by the Engineer.	18	No			
01- 03 D110	Supply and fill 1/2" to 2" size gravel in trench complete in all respects, as per drawing and directed by the Engineer.	150	Cft			
01- 03 D111	Plain cement concrete panel flooring: Plain cement concrete panel flooring including sub flooring and base preparation, joints etc complete as shown in the drawings.	3.491	Sq.ft.			
Total Cost for External Development Works Pak Rs.						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
95-04E 1	<p>PART-1 Distribution Board Distribution Board Fabrication, Supply, installation, Testing and commissioning at site of following Distribution board, made of MS Sheet 14 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 ii) DBLP-GF1 iii) DBLP-GF2 vi) DBLP-FF1 v) DBLP-FF2 vi) MCC-WP vii) DB-EXT (IP 65)</p>	1 1 1 1 1 1 1	No. No. No. No. No. No. No.			
Sub- Total (Rs.)						
95-04E 2	<p>PART-2: CABLES AND CONDUITS L.V. Power Cables Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 600 / 1000 Volt grade manufactured by any one of the manufacturers as mentioned in approved manufacturer list in prelaid 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 i. 4 core 10mm sq. ii. 4 core 16mm sq. iii. 4 core 50mm sq.</p> <p>b) Circuit Protective Conductor (CPC) i. 1 core 10mm sq. PVC insulated colour Green/Yellow. ii. 1 core 16mm sq. PVC insulated colour Green/Yellow. iii. 1 core 25mm sq. PVC insulated colour Green/Yellow.</p>	545 330 100	R.ft R.ft R.ft			
95-04E 3	<p>P.V.C. Conduit and Accessories Supply at site of PVC/UPVC 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 (1.25") dia. PVC conduit to pull electric cable. b) 38mm (1.5") dia. PVC conduit to pull electric cable. c) 50mm (2") dia. UPVC Class C conduit to pull electric cable. d) 75mm (3") dia. UPVC Class C conduit to pull electric cable.</p>	415 360 135 200	R.ft R.ft R.ft R.ft			
Sub- Total (Rs.)						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART-3 Wiring & Conduiting					
95-04E 4	Circuit Wiring & Conduiting					
	a) Circuit Wiring and conduiting from DB to switch / Fan dimmer with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 25 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	32	Nos.			
	b) Same as item (a) but wiring from switch to switch.	57	Nos.			
	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 25 mm dia PVC conduit, complete with cables and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	181	Nos.			
	d) Wiring and conduiting of light point to point with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 25 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	105	Nos.			
	e) Circuit Wiring and conduiting from DB to power socket outlet with 2 x 4 sq.mm 1 core Cu/PVC insulated cable + CPC 4 sq.mm 1 core Cu/PVC insulated cable in 25 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 specifications and drawings and approval by the Engineer.	21	Nos.			
	f) Same as item (e) but wiring between adjacent socket outlets with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC.	17	Nos.			
	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.	37	Nos.			
	h) Wiring and conduiting from DB to water pump/LBS with 2 x 6 sq.mm 1 core Cu/PVC insulated cable + CPC 6 sq.mm 1 core Cu/PVC insulated cable in 25 mm dia PVC conduit complete with cables, conduits and all necessary accessories such as bends, junction boxes, sockets etc. as per the specifications and drawings and approval by the Engineer.	4	Nos.			
	Sub- Total (Rs.)					
	PART-4: LIGHT FIXTURES, FANS, SWITCHES, OUTLETS & ACCESSORIES					
95-04E 5	LIGHT FIXTURES					
	Supply, Installation, testing and commissioning of following light fittings. ceiling /wall mounted or hanging arrangement with SS rod as per detail shown in drawing . 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.	73	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
b.	Fluorescent Light TMS 015 with 1x18Watt TL-D lamp color 84 w electronic ballast.	6	Nos.			
c.	Fluorescent Light TCS398 with 2x36Watt TL-D lamp color 84 with M2 Louver & electronic ballast.	22	Nos.			
d.	Fluorescent Light TCS398 2x36Watt TL-D lamp color 84 with M6 Louver & electronic ballast.	94	Nos.			
e.	Fluorescent Light TBS 300 with 2x36 Watt TL-D lamp color 84 with M2 Louver electronic ballast.	16	Nos.			
f.	Philips Type or Equivalent 41055 suspension light with 18 watt LED bulb	2	Nos.			
95-04E 6	Ceiling Fans Supply, installation and commissioning of 3-blade ceiling fans of following sizes, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respects, fittings shall be duly approved by Engineer.					
a.	56" dia.	52	Nos.			
b.	48" dia.	0	Nos.			
c.	36" dia.	1	Nos.			
95-04E 7	Switches & Fan Dimmers Supply and installation of following approved manufacture 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	8	Nos.			
ii)	Two gang - 1 Way Switch	20	Nos.			
iii)	Three gang - 1 Way Switch	3	Nos.			
iv)	Four gang - 1 Way Switch	9	Nos.			
v)	One gang - Fan Dimmer	8	Nos.			
vi)	Two gang - Fan Dimmer	25	Nos.			
95-04E 8	SOCKETS Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and drawings, as per approved manufacturer list and approval by the Engineer.					
i)	13A, 3-pin universal Switch Socket outlet.	25	Nos.			
ii)	13A, 3-pin Simplex Switch Socket outlet.	30	Nos.			
iii)	13A, 3-pin Duplex Switch Socket outlet	11	Nos.			
iv)	15A, 3-pin round Switch Socket outlet.	8	Nos.			
v)	Floor Box - Type B	16	Nos.			
95-04E 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.			
Sub- Total (Rs.)						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART-5: <u>EARTHING SYSTEM</u>					
95-04E 10	<u>Earth Electrode</u> Supply at site and installation of copper bonded steel earth electrodes. 10 feet long and 19.07 mm nominal dia including cost of all necessary materials, complete in all respects, as per specification.	3	Nos			
95-04E 11	<u>Copper Conductor</u> a) Supply, installation and connection of bare copper conductor 16 mm sq. in 38 mm dia PVC pipe where required from earth pit to earth connecting point for communication system & MCC. Work includes boring, soil, excavation, backfilling of earth, cad-welding at one end and provision of fixing of cable at ECP/ other end as shown in detail and as per specification & entire satisfaction with approval of Engineer.	20	R.ft			
	b) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable in 38mm dia PVC conduit, 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, cadweld (where required), brass nuts, bolts, washers, all necessary accessories, complete in all respects.	40	R.ft			
	c) Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from ECP to U-link box and from U-Link box to data patch panel, as per drawing or as per the instructions of the engineer. including cost of cadweld (where required) , brass nuts, bolts, washers, all necessary accessories, complete in all respects.	20	R.ft			
	d) Supply, installation and connection of bare copper conductor 2x50sqmm, from building rebars to earth connecting point at column for power supply system. Work includes boring , soil, excavation, backfilling of earth, cad-welding at one end and provision of fixing of cable at ECP/other end as shown in detail and as per specification and entire satisfaction with approval of Engineer.	15	R.ft			
	e) Supply, installation and connections of copper conductor 1x50 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from earth connecting point to distribution board, as per drawing or as per the instructions of the engineer. including cost of cadweld (where required), brass nuts, bolts, washers, all necessary accessories, complete in all respects.	15	R.ft			
95-04E 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.			
95-04E 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.			
95-04E 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 C.C Cover, complete in all respects, as per specification.	2	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
95-04E 15	Testing 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			
Sub- Total (Rs.)						
PART-6: TELEPHONE / VOICE SYSTEM						
95-04E 16	Telephone / Data Network					
	a) Wiring for each telephone point from Utility box to telephone point with Cat 6 UTP in 25mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects, as per drawing and specification.	230	R.ft			
	b) Wiring for each data point from Utility box with Cat 6A UTP, to data point, including cost of 25mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects as per drawing and specification.	1200	R.ft			
	c) Wiring from Utility box with Four pair Cat 6A UTP, to data patch panel, including cost of 25mm 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.	150	R.ft			
	d) Supply, Installation of following telephone / data Outlet plate including RJ 45 IOs and 16 SWG sheet steel back box recessed in wall or wall surface, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.					
	i) Simplex Outlet RJ 45	23	Nos.			
	ii) Duplex Outlet RJ 45	3	Nos.			
95-04E 17	Utility Link Box Supply, Installation, testing and commissioning of Utility box, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.	1	Nos.			
95-04E 18	Patch Panel					
	a) Supply and installation of following Patch Panels complete in all respects as per the specifications and drawings and to the approval of the Engineer.					
	i) 24 Port Patch Panel	1	Nos.			
95-04E 19	Telephone / Data Patch Cords					
	a) Supply and connecting of telephone 2 Pair drop cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer.	5	Nos.			
	b) Supply and connecting of data CAT 6A patch cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer.					
	i) 1 meter long	24	Nos.			
	ii) 3 meter long	24	Nos.			
95-04E 20	Communication Rack Supply installation of 6U 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.			
95-04E 21	Telephone Sets Supply and connection of following type of Telephone sets.					
	a) Telephone with CLI Module	2	Nos.			
	b) Telephone without CLI Module	3	Nos.			
Sub- Total (Rs.)						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART -7 Fire Alarm System					
95-04E 22	Fire Alarm System a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect i) Smoke detector with buzzer ii) Heat detector with buzzer	12 0	Nos. Nos.			
Sub- Total (Rs.)						
	PART -8 LIGHTNING PROTECTION SYSTEM					
95-04E 23	Roof Conductor 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.	700	R.ft.			
95-04E 24	Air terminal Supply, installation and connecting up of 1 x 15mm DIA SOUND ROUND COPPER 500mm 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.			
95-04E 25	Earth Electrode Supply at site and installation of Copper bonded steel earth electrodes .19mm nominal dia including cost of all necessary materials, complete in all respects. as per specification. a. 3 meter long in single rod b. 1 meter long in single rod (For rocky areas only)	6 18	Nos. Nos.			
95-04E 26	Copper Conductor a Connection of 50 sqmm bare copper conductor cad welded with column steel rebars at one end with test link box as shown in drawings. b Connection of 50 sqmm. bare copper conductor with test link box at one end and welded with copper earth electrode at other end as shown in drawings.	5 50	Nos. Nos.			
95-04E 27	Copper Test Link 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 includes disconnecting link fuse model LK205 to be installed on the wall of columns, brass nuts bolts, washers, including cost of all necessary materials, complete in all respects as per drawing and specifications.	4	Nos.			
95-04E 28	CAD Welding Cad welding of column / foundation / roof rebars to form a continuous electrical path upto roof steel rebar including coating of anti rusting compound after cad welding to avoid corrosion and all accessories etc. complete in all respects (Note: Electrical continuity of re-bars shall be witnessed by site engineer/ client representative.)	12	Jobs			
Sub- Total (Rs.)						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART -9 Public Address System					
95-04E 29	Amplifier a) Supply, installation, testing & commissioning of following type amplifier with three outputs, three microphone inputs and one music input, complete in all respect with wooden box and all installation accessories. i) 60W	2	Nos.			
95-04E 30	Speakers a) Supply, installation & commissioning of 10W wall mounted speaker with all accessories complete in all respects, as per approved manufacturer list. b) Supply, installation & commissioning of 10W wall mounted speaker (IP rated 65) with all accessories complete in all respects, as per approved manufacturer list.	2 2	Nos. Nos.			
95-04E 31	Microphone Cordless Microphone with SS Stand	2	Nos.			
95-04E 32	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 25mm dia PVC conduit complete in all respects upto maximum as shown in riser diagram.	200	R.ft.			
	Sub- Total (Rs.)					
	PART -10 EXTERNAL AREA LIGHTING					
95-04E33	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 1x12Watt LED lamp. b) Pierlite or equivalent Bollard Light Fixture in die cast aluminum body powder coated suitable for walkways with 12 WATT LED LAMP IP-65 including concrete foundation for mounting the fixture. c) Pierlite or equivalent P. 7362 - 200 fixture with 1 x12 WATT LED lamp IP 44	12 5 5	Nos. Nos. Nos.			
95-04E34	Wiring & Conduiting a) Circuit Wiring and conduiting from DB to first light point with 1 x 2.5 sq.mm 3 core Cu/PVC insulated cable in 32 mm. dia UPVC Class D 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. b) Same as item (h) but wiring from light point to light point	5 12	Nos. Nos.			
	Sub- Total (Rs.)					

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
PART -11 MISCELLANEOUS WORKS						
95-04E 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 in 25mm dia PVC conduit, complete in all respects, as per the specifications and drawings and approval by the Engineer.	45	Rft.			
	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.			
95-04E 36	Handholes 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 & specification. Sizes of Manhole are as under: i) 1'-6" x 1'-6" x 2'-6" deep	5	Nos.			
95-04E 37	Utility / PTCL Connection a) Supply and co-ordination for the utility connection from WAPDA/HESCO/SEPCO 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/other Telecom company as per required demand. The telephone connection charges shall be paid separately as per actual on submission of receipt.	1	Job			
		1	Job			
Sub- Total (Rs.)						
PART -12 SOLAR ROOM ELECTRIFICATION WORKS						
95-04E 38	LIGHT FIXTURES Supply, Installation, testing and commissioning of following light fittings, ceiling /wall mounted / with hanging arrangement made of fiber / plastic body. Complete with electronic 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 TCW097 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.			
		2	Nos.			
95-04E 39	Switches & Fan Dimmers Supply and installation of following type gang switches of 10 Amp rating, including 16 SWG sheet steel back box recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respect, as per specifications and drawings and approval i) Four gang - 1 Way Switch	1	Nos.			

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Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
95-04E 40	SOCKETS Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and drawings i) 13A, 3-pin Duplex Switch Socket outlet.	1	Nos.			
95-04E 41	Fire Alarm System a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect. i) Smoke detector with buzzer	1	Nos.			
95-04E 42	Circuit Wiring & Conduiting a) Circuit Wiring and conduiting from DB to switch with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 25 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. 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 25 mm dia PVC conduit, complete with cables and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	1 1 4	Nos. Nos. Nos.			
Sub- Total (Rs.)						
Total Cost for Eleltrical Works Pak Rs.						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	PLUMBING WORKS (BUILDING)					
	PLUMBING FIXTURES					
	Supply and Installation of plumbing fixtures & faucets complete in all respects including all accessories, support, hangers, etc. ready to use as per specifications, drawings & instructions of Consultant.					
01-05P1	European style coupled water closet with seat cover, flush tank, tee cock C.P. (chrome plated) connector, thimble, etc. a. Type - EWC	5	No			
01-05P2	Asian style water closet Orissa type with flush tank tee cock C P (chrome plated) connector, uPVC Class "E" flush pipe or as approved, thimble, P-Trap, etc.	16	No.			
01-05P3a	double bib cock brass, chromium plated	20	No.			
01-05P3b	single bib cock brass, chromium plated	4	No.			
01-05P4	Wash basin (WB) including CP P-trap/Bottle Trap, stop cock, etc i. With half or full pedestal	11	No.			
01-05P5	Wash basin hot and cold water mixer, waste, etc for WB	20	Nos			
01-05P6	Toilet Hand Shower with flexible chain & telephone type shower Including tee stop cock etc. complete in all respect. Type - TS	13	No.			
01-05P7	Stainless steel lab. sink including stop cocks, P-trap, Bottle trap, waste pipe etc complete in all respects. SK - 1, 15' x 21" single bowl and single drainer.	4	No.			
01-05P8	Sink cold water tap swan neck, etc, for following. a. For SK-1	4	No			
01-05P9	S.S Grease Trap 7.5 Kg. capacity, inlet/outlet 2" Dia connections.	Rate Only	No.			
01-05P10	Toilet accessories complete set, (Imported make) i. Soap dispenser ii. Toilet paper holder iii. Coat Hook iv. Mirror 5mm (Belgium) v. Paper Rack vi. Towel Rail vii. Stainless Steel Handrail for handicap toilet	6 13 6 120 6 6 6	No No No Sft No No No.			
	Sub- Total (Rs.)					
01-05P11	Plumbing Water Supply 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) v) 1½" internal dia (63 mm outer dia) vi) 2" internal dia (75 mm outer dia) vii) 2½" internal dia (90 mm outer dia)	50 400 600 170 300 Rate Only Rate Only	Rft. Rft. Rft. Rft. Rft. Rft. Rft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P12	Providing and installing gate/ball valves, Kitz or approved equivalent make, including jointing, fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters. i) ¾" internal dia (32 mm outer dia) ii) 1" internal dia (40 mm outer dia) iii) 1¼" internal dia (50 mm outer dia) iv) 1½" internal dia (63 mm outer dia) v) 2" internal dia (75 mm outer dia) vi) 2½" internal dia (90 mm outer dia)	2 6 4 2 Rate Only Rate Only	No No No No No No			
Sub- Total (Rs.)						
01-05P13	Plumbing Sewerage 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	105 Rate Only 440 110	Rft. Rft. Rft. Rft.			
01-05P14	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.	49	No.			
01-05P15	Construction of rectangular brick masonry manhole of 2'-0"x2'-0" or specified sizes for sewer complete with plastering from internal and external side, PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, rungs, complete as per drawings.	5	Nos			
01-05P16	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.	4	No.			
01-05P17	Providing and fixing Clean Out complete in all respects	8	No.			
01-05P18	Water Cooler 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.			
Sub- Total (Rs.)						
EXTERNAL DEVELOPMENT						
01-05P19	Septic Tank Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with 'B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer. i) 6" i/d (150 mm) ii) 4" dia, pipe sleeves in walls iii) 6" dia, pipe sleeves in walls	15 5 2	Rft. Nos Nos			
01-05P19A	Vent Pipe 4" dia as per drawing and specifications for Septic Tank complete in all respects, puddle flange, wiremesh at pipe face, specials as per drawing or directed by the Engineer.	2	Nos			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P20	Soakage Pit Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with 'B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer. 6" ϕ d (150 mm)	5	Rft.			
01-05P21	Ground Water Storage Tank Providing, laying, cutting, jointing, testing and disinfecting G.I pipe (Heavy Quality) of B.S.S. 1387-1967 complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer. i) $\frac{3}{4}$ " dia ii) $1\frac{1}{2}$ " dia iii) 2" dia, pipe selevs, 9" long	5 5 2	Rft. Rft. Nos			
01-05P22A	Overhead Water Storage Tank Vent Pipe 4" dia as per drawing and specifications for U.G.W.Tank, O.H.W.Tank complete in all respects, puddle flange, specials as per drawing or directed by the Engineer.	4	Nos			
01-05P22B	Providing, laying, cutting, jointing, testing and disinfecting brass pipe selevs/ connection pie with puddle including coupler (Heavy Quality) of approved as per B.S.S coads complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer. i) 1" dia, pipe selevs, 10" long ii) $1\frac{1}{4}$ " dia, pipe selevs, 10" long iii) $2\frac{1}{2}$ " dia, pipe selevs, 10" long	3 2 3	Nos Nos Nos			
01-05P23	Kanchan Arsenic Filter Filter Material. Providing & laying gravel, including screening and washing as per drawing or directed by the Engineer. Gravel size 6 mm to 15 mm.	21	Cft			
01-05P24	Providing & laying coarse sand, including screening and washing as per drawing or directed by the Engineer.	42	Cft			
01-05P25	Providing & laying fine sand, including screening and washing as per drawing or directed by the Engineer.	42	Sq. ft.			
01-05P26	Providing & fixing M.S sheet $\frac{1}{4}$ " thick, $\frac{1}{8}$ " Dia hole 2 inch c/c (Diffuser Plate), as per drawing or directed by the Engineer.	37	Sq. ft.			
01-05P27	Providing & laying Dry rammed brick ballast 1- $\frac{1}{2}$ " to 2" (40mm to 50mm) gauge, including screening and washing as per drawing or directed by the Engineer.	9	Cft.			
01-05P28	Providing & laying iron nails with out coating (1" thick layer) as per drawing or directed by the Engineer.	125	Kg.			
01-05P29	Providing & fixing cover over Kanchan Filter of PVC sheet $\frac{1}{2}$ " thick, as per drawing or directed by the Engineer.	32	Sq. ft.			
01-05P30	Providing, laying, cutting, jointing, testing and disinfecting PPRC pipe including plastic shower heads with all fittings complete in all respects as per drawing or directed by the Engineer. i) $\frac{3}{4}$ " internal dia (32 mm outer dia)	23	Rft.			
01-05P31	Providing and fixing Plastic Shower Heads	9	Nos			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	Tube Well / Perumatic Pump					
01-05P32	Boring for tubewell in all types of soil except shingle and rock, from ground level to 100 ft (30m) Depth, including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. i) 8" i/d (200mm)	100	Rft.			
01-05P33	Boring for tubewell in all types of soil except shingle and rock, from a depth of 100.1 to 200ft (30 to 60 m) below ground level, including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. i) 8" i/d (200mm)	50	Rft.			
01-05P34	Providing and installing P.V.C. bail/End plug B.S.S. class 'D', in tubewell bore hole, complete in all respect and as directed by the Engineer. i) 2" i/d (100mm)	1	Each			
01-05P35	Providing and installing P.V.C. blind pipe B.S.S Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer, etc, complete in all respect and as directed by the Engineer. i) 1" i/d(25mm) ii) 1-1/4" i/d(30mm) iii) 2" i/d(50mm)	55 150 40	Rft. Rft. Rft.			
01-05P36	Providing and installing P.V.C. strainer B.S.S Class 'D' in tubewell bore hole, including sockets and solvents; etc, complete in all respect and as directed by the Engineer. i) 2" i/d(50mm)	40	Rft.			
01-05P36	Providing and installing P.V.C. blind pipe B.S.S Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer, complete in all respect and as directed by the Engineer. i) 4" i/d (100mm)	60	Rft.			
01-05P37	Testing and developing of bore hole, complete in all respect and as directed by the Engineer.	3	Per Hr.			
01-05P38	Shrouding with graded pea gravel 3/8" to 1/8" around tubewell in bore hole, complete in all respect and as directed by the Engineer.	45	Cft.			
01-05P39	Providing/fixing Injector valve as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	Each.			
01-05P40	Providing/fixing P.V.C. Cup/Cover as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	No.			
01-05P41	Providing/fixing Pneumatic Pump (having 4 impellers capable to carry a discharge of 400 gals/hr against 90 ft head and 3 HP Motor), complete in all respect and as directed by the Engineer.	1	Set.			
	EXTERNAL PIPING					
	Plumbing Water Supply					
01-05P42	Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for water supply as per DIN 8077-8078 for pipes and DIN 16962, PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects. i) 1/2" internal dia (20 mm outer dia) ii) 3/4" internal dia (32 mm outer dia)	Rate Only 30	Rft. Rft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs.)
				Figures	Words	
	iii) 1" internal dia (40 mm outer dia)	150	Rft.			
	iv) 1½" internal dia (50 mm outer dia)	130	Rft.			
	v) 1½" internal dia (63 mm outer dia)	13	Rft.			
	vi) 2" internal dia (75 mm outer dia)	Rate Only	Rft.			
	vii) 2½" internal dia (90 mm outer dia)	Rate Only	Rft.			
01-05P43	Providing and installing gate/ball valves, Kitz or approved equivalent make, including jointing, fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters.					
	i) ¾" internal dia (32 mm outer dia)	2	No			
	ii) 1" internal dia (40 mm outer dia)	4	No			
	iii) 1½" internal dia (50 mm outer dia)	3	No			
	iv) 1½" internal dia (63 mm outer dia)	0	No			
	v) 2" internal dia (75 mm outer dia)	Rate Only	No			
	vi) 2½" internal dia (90 mm outer dia)	Rate Only	No			
	Plumbing Sewerage					
01-05P44	Providing, fixing, cutting, jointing and testing uPVC piping conforming to BS-4514 and BS 5255 including uPVC fittings with solvent cement jointing, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter:					
	2" dia	Rate Only	Rft.			
	3" dia	Rate Only	Rft.			
	4" dia	32	Rft.			
	6" dia	430	Rft.			
01-05P45	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.	Rate Only	No.			
01-05P46	Construction of rectangular brick masonry manhole of 2'x2' for sewer complete with plastering from internal and external side, PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame. rungs, complete as per drawings.	Rate Only	No.			
01-05P47	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.	Rate Only	No.			
01-05P48	Providing and fixing Clean Out complete in all respects	Rate Only	No.			
	Water Supply Pump For GST					
01-05P49	Supply at site, installation, testing and commissioning of water supply reciprocating pump with 2HP motor as per specification complete in all respect.	2	No			
	Sub- Total (Rs.)					
	Total Cost for Plumbing Works Pak Rs.					

GBPS Gulistan Colony
(Liyari Town)
(P15- KHI-129)

SINDH BASIC EDUCATION PROGRAM

CONSTRUCTION OF NEW SCHOOLS AND UPGRADATION OF EXISTING SCHOOLS

Package- 15: Karachi (Orangi, Lyari & Kemari Towns)

GBPS Gulistan Colony (Lyari Town)

SUMMARY OF TENDERED COST

CODE	DESCREPTION	AMOUNT (PKR)
A.	GENERAL ITEMS	
B.	CIVIL WORKS	
C.	EXTERNAL WORKS	
D.	ELECTRICAL WORKS	
E.	PLUMBING WORKS	
TOTAL COST OF SCHOOL BUILDING (PKR):		

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
	<u>Temporary Facilities (Optional Items)</u>					
	Ref.Spec. No. G05					
01- 01 G 1	Providing and maintaining a rental building of area 3200 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, water supply and sanitation complete in all respect as directed by the Engineer.	12	Month			
	OR					
01- 01 G 2	Providing and maintaining a tent school of area 3200 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 3200 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			
01- 01 G 4	Shifting of furnitures and equipemnts and reinstall etc from existing school to rental building and reinstall as per specification and directed by the engineer.	1	L.S			
	<u>Site Clearing and Grubbing</u>					
	Ref.Spec. No. C01					
01- 01 G 5	Clearing and Grubbing complete in all respect as directed by the Engineer.	21,600	Sft			
	<u>DISMANTLING WORK</u>					
	Ref.Spec. No. G04					
01- 01 G 6	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 7	Dismantling, removing of existing sewerage lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.			
01- 01 G 8	Dismantling, removing of existing water supply lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.			
01- 01 G 9	Dismantling, removing of existing electrical supply line as directed by the Engineer.	150	Rft.			
01- 01 G 10	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.	0	Rft			
01- 01 G 11	Dismatling, removing of existing walkways/plateform and flooring as shown in the drawing/ as per site including disposal of surplus material and as directed by the Engineer. Dismantled material shall be contractor's	500	Sft			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
<u>POWER SUPPLY & TELECOMMUNICATION</u>						
01- 01 G 12	Providing, installing, testing and commissioning of electrical supply line for re-routing as per new plan including cables, all fixtures, connections and all related civil works as directed by the Engineer.	1	Job			
01- 01 G 13	Providing, installing, testing and commissioning of telephone line for re-routing as per new plan including cables, all fixtures, connections and all related civil works as directed by the Engineer.	1	Job			
<u>SIGN BOARD / PLAQUE</u>						
Ref.Spec. No. SP 100						
01- 01 G 16	Providing and installation of Project sign board as per drawing complete including all civil related works, foundations, earthwork concrete, protection works complete as directed by the Engineer.	1	Job			
01- 01 G 17	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			
01- 01 G 18	Providing and maintenance of the Engineer's facilities at individual school site as per clause SP 44 All items/materials/equipment shall become contractor's property at the completion of works.	24	Month			
<u>WATER TESTING</u>						
Ref.Spec. No.						
01- 01 G 19	Sampling and testing of Water from bore of well (TDS) including submission of report as per specification.	1	Each			
Sub- Total (Rs.)						
<u>PROVISIONAL SUMS</u>						
01- 01 G 20	Repair & renovation of existing Governmet building proposed for temporary school during the construction. (The payable amount shall be assessed as per actual rehabilitation work on selected building and as per recommendation by the Engineer on BOQ rates of similar items quoted in the bid).		P.S			500,000
01- 01 G 21	New Utility connection or shifting & relocation of existing Electric HT lines passing through the school plan including all approvals from concerned department/agency and providing, installing/fixing of poles, PMT etc along with all associated civil work like concrete foundation, mounting base, anal conductors, grounding etc complete in all respects & as directed by the Engineer		P.S			300,000
Sub- Total (Rs.)						
Total Cost for General Items Pak Rs.						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
CONSTRUCTION OF SCHOOL BUILDING						
SUB-STRUCTURE						
EARTHWORKS						
Ref.Spec. No. C02						
01- 02 C 1	Excavation in all kinds of sub-surface materials, timbering upto following depths including disposal of surplus / rejected excavated materials to designated places.					
	a) 0 ft to 5 ft	36,118	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)	36,118	Cft.			
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	12,637	Cft.			
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	1	L.S.			
	b) Dewatering, days not allow more then/ maximum payable	10	Day			
TERMITE CONTROL TREATMENT						
Ref.Spec. No. C03						
01- 02 C 4	Termite control treatment to surfaces following structures complete in all respect as per specification: (Only plan area will be measured)	7,650	Sq.ft.			
REINFORCEMENT						
Ref.Spec. No. C04						
01- 02 C 5	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	32	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.		Rate only			
PLAIN AND REINFORCED CONCRETE AND FORMWORKS						
Ref.Spec. No. C04						
01- 02 C 7	Blinding concrete 1250 psi using slag cement conforming to BS-146.	2,800	Cft			
01- 02 C 8	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in:					
	a) Footing / Raft foundation	10,335	Cft.			
	b) Columns upto plinth	1,293	Cft.			
	c) Plinth beams	2,400	Cft.			
	d) SOG & Ramps Slabs	95	Cft.			
	e) Walls	35	Cft.			
SITU CONCRETE 1:3:6						
Ref.Spec. No. C04						
07- 02 C 9	Situ concrete 1:3:6, with formwork under the plinth beam thickness as per drawings, using slag cement conforming to BS-146, straight or curve at any level including all anchors required to be built in Rcc columns pedestals, complete in all respect as per drawings and specifications.	724	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
01- 02 C 10	<u>HARDCORE/ STONE SOLING</u> 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.	6,800	Sq.ft.			
01- 02 C 11	<u>P.C.C UNDER FLOORING</u> Ref.Spec. No C07 PCC 4" thick plain cement concrete (using slag cement conforming to BS-146) sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	6,800	Sq.ft.			
01- 02 C 12	<u>PLINTH PROTECTION</u> Ref.Spec. No. C04 & C07 Blinding concrete 1250 psi using slag cement conforming to BS-146	415	Cft.			
01- 02 C 13	<u>PROTECTION WORKS</u> Ref.Spec. No. C16 Vapor barrier sheet, under the floor as per drawings and specifications.	6,800	Sq.ft.			
01- 02 C 14	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer. complete in all respect as per drawings and specifications.	13,300	Sq.ft.			
	<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.	27.25	ton.			
01- 02 C 16	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate Only	ton.			
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u> 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 b) Beams & Intels 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	880 1,850 3,600 373 90 50	Cft. Cft. Cft. Cft. Cft. Cft.			
	<u>First Floor (From 1st Slab to 2nd slab)</u>					
	<u>REINFORCEMENT</u> Ref.Spec. No. C04					
01- 02 C 18	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	27	ton.			
01- 02 C 19	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate Only	ton.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	PLAIN AND REINFORCED CONCRETE AND FORMWORKS Ref.Spec. No. C04					
01- 02 C 20	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification; a) Columns 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	900 2,300 3,850 176 100 30	Cft. Cft. Cft. Cft. Cft. Cft.			
	Second Floor / Roof (From 2nd slab to 3rd slab & tower) REINFORCEMENT Ref.Spec. No. C04					
01- 02 C 21	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	4	ton.			
01- 02 C 22	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate only	ton.			
	PLAIN AND REINFORCED CONCRETE AND FORMWORKS Ref.Spec. No. C04					
01- 02 C 23	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures components complete in all respect as per drawings and specification; a) Columns 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	110 129 252 625 650 280 20	Cft. Cft. Cft. Cft. Rft. Cft. Cft.			
	FINISHING WORKS For Ground floor BLOCK MASONRY Ref.Spec. No.C18					
01- 02 C 24	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 4" thick b) 6" thick c) 8" thick d) 4" thick, external cavity; wall with all accessories arrangements for stone tile facing or Color Crete finishig including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	300 250 3,700 1,296	Cft. Cft. Cft. Cft.			
	DOORS FRAMES Ref.Spec. No. C09 & C11					
01- 02 C 25	G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	475	R.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	CEMENT PLASTER Ref.Spec. No. C06					
01- 02 C 26	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	325	Sq.ft.			
01- 02 C 28	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	6,900	Sq.ft.			
01- 02 C 29	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc	16,560	Sq.ft.			
	ALUMINIUM WORKS Ref Spec. No. C11					
01- 02 C 30	Supply and fix in position as specified and approved anodized aluminum openable/sliding widows and ventilators having outside frame profile thickness not less than 2mm and glass frame thickness not less than 1.6mm . approved manufacturer, sliding with netted shutter and openable without netted shutter and 6mm float glass with safety coating of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	1,350	Sq.ft.			
01- 02 C 31	Supply and fix in position as specified anodized aluminum doors with fixed panel both side and top of approved 2"x4" section, manufacturer having minimum wall thickness not less than 1.6 mm with 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.		Rate only Sq.ft			
	STRUCTURAL STEEL Ref. Sec.No. C13					
01- 02 C 32	Mild steel grills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings and specification.	1,200	Kg			
01- 02 C 33	Providing and fixing railing for stairs/ramps as per drawing and specifications complete in all respect. a) MS railing stairs b) M.S railing at entrance	51 50	Rft Rft			
01- 02 C 34	Providing and fixing MS pipe railing with paintings, as per drawings and specifications complete in all respects and approved by the Engineer. a) Courtyard Railing (4' Height) b) Railing at staircase landing (4' Height) c) Railing for protection of cc jali (3' Height)	178 10 40	Rft Rft Rft			
01- 02 C 35	Providing and fixing MS folding gate (Emergency Exit) with paintings, complete in all respects as per drawing and specifications.	2	No			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 35A	Providing and fixing MS folding Main entrance gate with paintings, complete in all respects as per drawing and specifications.	1	No			
FLOOR AND WALL FINISHES						
Ref.Spec. No. C07						
01- 02 C 36	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical/approved polishing complete in all respect as per drawing, specification and as directed by the Engineer.	6,120	Sq.ft.			
01- 02 C 37	Providing and laying terrazzo tile for entrance ramp (3/4" thick) with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	75	Sq.ft.			
01- 02 C 38	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	315	Sq.ft.			
01- 02 C 39	Porcelain tile floor (type) using tile of size 8"x8" or as approved (full body), approved quality, colour and shade laid in approved pattern set in specified mortar including cement concrete base, complete in all respect as shown on the drawings and specifications.	730	Sq.ft.			
01- 02 C 40	Porcelain tile in Dado using tile of size 8"x8" or as approved, quality, colour and shade laid in approved pattern including rough plaster base complete in all respect as shown on drawings and specifications.	2,750	Sq.ft.			
MARBLE WORKS						
Ref.Spec. No. C07 & C08						
01- 02 C 41	Pre-polished marble on entrance steps, stairs, ramp & floor etc using approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.					
	a) Entrance Steps & Platform (3/4" thick)	320	Sq.ft.			
	b) Entrance Steps Risers (1/2" thick)	70	Sq.ft.			
01- 02 C 42	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	382	Sq.ft.			
01- 02 C 43	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	102	Sq.ft.			
01- 02 C 44	Pre-polished Marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish including complete in all respect as shown on the drawings.	56	Sq.ft.			
01- 02 C 45	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	40	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 46	<u>PAINING</u> Ref.Spec. No. C10 Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	6.900	Sq.ft.			
01- 02 C 47	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	13.650	Sq.ft.			
01- 02 C 48	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	325	Sq.ft.			
01- 02 C 49	<u>WOODEN DOORS</u> Ref.Spec. No. C09 Wooden flush door leaves of the approved types and sizes Burma teak veneer on hardwood ply minimum thickness 3.5mm or as approved finished shutter fixed comprising 1-1/2" thick solid core partial wood 100% infill edging, polish, color/ laquer, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with laquer polish complete in all respect as shown on the drawings and specifications.	530	Sq.ft.			
01- 02 C 49A	Providing & Fixing Wooden Doors for Service Ducts having Shutter of Lasani or other approved material of size 4'x4'x3/4" and Frame of Partial or equivalent wood of size 7'-6"x4 1/2"x1 1/2" including all fittings & fixtures, accessories, 1/2" thick lipping & paiting etc complete in all respects & as directed by the Engineer	16	Sq.ft.			
01- 02 C 50	Fixed 6mm plain safety laminated glass panel part at above door panel with solid wood batten including teak polish/ lacker at both sides around the glass of approved type, quality complete in all respect as shown on the drawings and specifications.	110	Sq.ft.			
01- 02 C 51	<u>FALSE CEILING</u> Ref.Spec No. Gypsum board ceiling minimum thickness 7.5mm waterproof including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on drawings and specifications.	730	Sq.ft.			
01- 02 C 52	<u>Pre cast C.C Patren jali</u> Ref.Spec. No. C.C Patren jali as per approved designed and specification	600	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	<u>CLADDING/ EXTERNAL FACING</u> Ref.Spec. No.C19 & C20					
01- 02 C 53	Providing and laying stone clading/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	8,250	Sq.ft.			
01- 02 C 53 A	Providing and laying Color-Crete with 3/4" Cement sand plaster on extrenal facing as per approved sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	2,934	Sq.ft.			
	<u>FINISHING WORKS</u> <u>For First floor</u> <u>BLOCK MASONRY</u> Ref.Spec. No C18					
01- 02 C 54	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 4" thick b) 6" thick c) 8" thick d) 4" thick, external cavity; wall with all accessories arrangements for stone tile facing or Color Crete finishig including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	770 320 3,570	Ct. Ct. Ct.			
	<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.	395	R.ft.			
	<u>CEMENT PLASTER</u> Ref.Spec. No. C 06					
01- 02 C 56	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers including complete in all respect as shown on the drawings.	Rate only	Sq.ft.			
01- 02 C 57a	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.	9,704	Sq.ft.			
01- 02 C 57b	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	13,000	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	<u>ALUMINIUM WORKS</u> Ref.Spec. No. C 11					
01- 02 C 58	Supply and fix in position as specified and approved anodized aluminum openable/sliding widows and ventilators having outside frame profile thickness not less than 2mm and glass frame thickness not less than 1.6mm . approved manufacturer, sliding with netted shutter and openable without netted shutter and 6mm float glass with safety coating of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	1,400	Sq. ft.			
	<u>STRUCTURAL STEEL</u> Ref. Sec.No. C 13					
01- 02 C 59	Mild steel grills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings.	1,280	Kg			
01- 02 C 60	Providing and fixing MS stair railing as per drawing and specifications complete in all respect.	30	Rft			
01- 02 C 61	Providing and fixing MS pipe railing with paintings, as per drawings and specifications complete in all respects and approved by the Engineer.					
	a) Courtyard Railing (4' Height)	178	Rft			
	b) Railing at staircase landing (4' Height)	20	Rft			
	c) Railing for protection of oc jali (3' Height)	48	Rft			
	<u>FLOOR AND WALL FINISHES</u> Ref.Spec. No. C 07. 08					
01- 02 C 62	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer	6,500	Sq. ft.			
01- 02 C 63	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	70	Sq. ft.			
01- 02 C 64	Porcelain tile floor (type) using tile of size 8"x8"or as approved (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.	500	Sq. ft.			
01- 02 C 65	Porcelain tile in Dado using tile of size 8"x8" or as approved, quality, colour and shade laid in approved pattern including rough plaster base complete in all respect as shown on drawings and specifications.	1,750	Sq. ft.			
	<u>MARBLE WORKS</u> Ref.Spec. No. C 07, 08					
01- 02 C 66	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	176	Sq. ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 67	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	50	Sq. ft.			
01- 02 C 68	Pre-polished marble tile for counter tops & other area 3/4" thick using of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including complete in all respect as shown on the drawings.	50	Sq. ft.			
01- 02 C 69	Pre-polished Marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	34	Sq. ft.			
01- 02 C 70	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	52	Sq. ft.			
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.	9,704	Sq. ft.			
01- 02 C 72	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	13,000	Sq. ft.			
WOODEN DOORS						
Ref.Spec. No. C 09, 12						
01- 02 C 73	Wooden flush door leaves of the approved types and sizes Burma teak veneer on hardwood ply minimum thickness 3.5mm or as approved finished shutter fixed comprising 1-1/2" thick solid core partal wood 100% infill edging, polish, color/ laquer, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with laquer polish complete in all respect as shown on the drawings and specifications.	560	Sq. ft.			
01- 02 C 73A	Providing & Fixing Wooden Doors for Service Ducts having Shutter of Lasani or other approved material of size 4'x4'x3/4" and Frame of Partal or equivalent wood of size 7'-6"x4 1/2"x1 1/2" including all fittings & fixtures, accessories, 1/2" thick lipping & paiting etc complete in all respects & as directed by the Engineer	16	Sq. ft.			
01- 02 C 74	Fixed 6mm plain safety laminated glass panel part at above door panel with solid wood batten including teak polish/ lacker at both sides around the glass of approved type, quality complete in all respect as shown on the drawings and specifications.	124	Sq. ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
01- 02 C 75	<u>FALSE CEILING</u> Ref.Spec. No. Gypsum board ceiling minimum thickness 7.5mm waterproof including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on the drawings and specifications.	500	Sq. ft.			
01- 02 C 76	<u>Pre cast C.C Patren jali and Railing</u> Ref.Spec. No. C.C Patren jali as per approved designed and specification	680	Sq. ft.			
01- 02 C 77	<u>STONE CLADDING/ COLOR-CRETE/ EXTERNAL FACING</u> Ref.Spec. No. C19 & C20 Providing and laying stone clading/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications, and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	5.600	Sq. ft.			
01- 02 C 77 A	Providing and laying Color-Crete with 3/4" Cement sand plaster on extrenal facing as per approved sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	2,980	sq.ft			
01- 02 C 78	<u>WATER PROOFING AND BUILTUP ROOFING</u> Ref.Spec. No.C 16 Water proofing and built up roofing over roof slab comprising all the layers and coatings etc as shown in the drawings and specifications.	7.500	Sq.ft.			
01- 02 C 79	<u>FINISHING WORKS</u> <u>For Roof floor / Secound floor</u> <u>BLOCK MASONRY</u> Ref.Spec. No. C18 Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 4" thick b) 6" thick c) 8" thick d) 4" thick. external cavity; wall with all accessories arrangements, for stone tile facing or Color Crete finishig including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	30 50 500 789	Cft. Cft. Cft. Cft.			
01- 02 C 80	<u>DOORS FRAMES</u> Ref.Spec. No. C09 & C11 G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	35	R.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	<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 drawings.	2,504	Sq.ft.			
01- 02 C 82	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	388	Sq.ft.			
01- 02 C 83	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	902	Sq.ft.			
01- 02 C 84	3/4" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls to O.H.W Tank etc with making of chamfer corner in plaster as per drawings and specifications.	360	Sq.ft.			
01- 02 C 85	Water proofing coating treatment to all vertical surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating.	230	Sq.ft.			
01- 02 C 86	Water proofing coating treatment to all horizontal surfaces in contact with water shall be treated with 1 coat of crystalline water proofing coating.	130	Sq.ft.			
01- 02 C 87	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivalent, including fixing of frame and embedded parts in concrete and painting, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 02 C 88	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer. (For O.H.W tank)	4	No.			
	<u>FLOOR AND WALL FINISHES</u> Ref.Spec. No. C 07, 08					
01- 02 C 89	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	180	Sq.ft.			
01- 02 C 90	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	16	Sq.ft.			
	<u>MARBLE WORKS</u> Ref.Spec. No. C 07, 08					
01- 02 C 91	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	6	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	<u>PAINTING</u>					
01- 02 C 92	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 complete in all respect as directed by the Engineer.	388	Sq.ft.			
01- 02 C 93	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	902	Sq.ft.			
01- 02 C 94	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc.complete in all respect as directed by the Engineer.	2.504	Sq.ft.			
	<u>WOODEN DOORS</u>					
01- 02 C 95	Ref Spec. No. C 09, C12 Wooden flush door leaves of the approved types and sizes Burma teak veneer on hardwood ply minimum thickness 3.5mm or as approved finished shutter fixed comprising 1-1/2" thick solid core partal wood 100% infill edging, polish, color/ laquer, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with laquer polish complete in all respect as shown on the drawings and specifications.	49	Sq.ft.			
	<u>Pre cast C.C Patren jali and Railing</u>					
01- 02 C 96	Ref.Spec. No. C.C Patren jali as per approved designed and specification	100	Sq.ft.			
01- 02 C 97	Precast water spout as per approved designed and specification	15	No.			
	<u>CLADDING/ EXTERNAL FACING</u>					
01- 02 C 98	Ref.Spec. No. C19 & C20 Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3. including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	2,900	Sq.ft.			
01- 02 C 98A	Providing and laying Color-Crete with 3/4" Cement sand plaster on extrenal facing as per approved sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	530	Sq.ft.			
01- 02 C 99	Providing & Fixing of Alphabetical Letters made of MS silver Material or any other approved material as name of school on external wall/face at entrance of the newly constructed school building of approved design, colour & fontface etc complete in all respects and as directed by the Engineer	1	Job			
	Total Cost for Civil Works Pak Rs.					

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>EXTERNAL DEVELOPEMENT</u>					
	<u>CONSTRUCTION OF BOUNDARY WALL</u>					
	Ref.Spec. No. C02					
	<u>EARTHWORKS</u>					
	Ref.Spec. No.					
01- 03 D 1	Excavation in all kinds of sub-surface materials, timbering upto following depths including disposal of surplus / rejected excavated materials to designated places. a) 0 ft to 5 ft	1,950	Cft.			
01- 03 D 2	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	865	Cft.			
		260	Cft.			
01- 03 D3	Area Fill with selected materials from outside source including watering and compaction to every layer as per specification for Play ground.	50,000	Cft.			
01- 03 D3A	Providing & fixing/embading of School Name Plate/ Sign board, made of Marble in Boundary wall near main entrance gate of school building complete in all respects & as directed by the Engineer	1	Job			
	<u>DEWATERING (applicable on Section 3)</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	1	L.S.			
		10	Day			
	<u>TERMITE CONTROL TREATMENT</u>					
	Ref.Spec. No. C03					
01- 03 D5	Termite control treatment to surfaces following structures complete in all respect as per specification: (Only plan area will be measured)	970	Sq.ft.			
	<u>REINFORCEMENT</u>					
	Ref.Spec. No. C04					
01- 03 D6	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	3	ton.			
	<u>PLAIN AND REINFORCED CONCRETE</u>					
	Ref.Spec. No. C04					
01- 03 D7	Blinding concrete 1250 psi using slag cement conforming to BS-146.	289	Cft.			
01- 03 D8	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Footings b) Columns upto plinth c) Plinth beams	575	Cft.			
		55	Cft.			
		254	Cft.			
01- 03 D9	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification; a) Columns	175	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	<u>BLOCK MASONRY</u>					
01- 03 D10	Ref.Spec. No. Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 8" thick / 4" thick	169	Cft.			
01- 03 D10a	Solid brick masonry wall with pointing on both faces above plinth beam 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	570	Cft.			
	<u>CEMENT PLASTER</u>					
01- 03 D11	Ref.Spec. No. C06 3/4" thick, 1:4 cement sand plaster to specified exterior surfaces (Columns, wall, beams and project etc.) including making grooves as per design and elevation complete in all respect as shown on the drawings.	1,100	Sq.ft.			
	<u>PROTECTION WORKS</u>					
01- 03 D12	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.	1,827	Sq.ft.			
	<u>COPING</u>					
01- 03 D13	Ref.Spec. No. C04 Providing and fixing 3" thick coping including plaster using OP cement for boundary wall complete as shown on the drawings.	225	Rft.			
	<u>STRUCTURAL STEEL</u>					
01- 03 D14	Ref. Sec.No. C13 Mild steel main gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 14'x7')	1	no			
01- 03 D15	Mild steel wicket gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 3'x7')	1	no			
	<u>CLADDING/ EXTERNAL FACING</u>					
03 D15a	Ref.Spec. No. C19 & C20 Providing and laying stone cladding/ stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	8,000	sft			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	LANDSCAPING					
	Ref. Sec.No.					
01- 03 D 16	Fill and backfill with selected materials including watering and compaction to every layer as per specification.	4,000	Cft.			
01- 03 D17	Area Fill with selected materials including watering and compaction to every layer as per specification.	11,912	Cft.			
01- 03 D18	Relocation and replanting of removed trees as per specifications and as directed by the Engineer.	Rate Only	No.			
01- 03 D19	Development of lawn (grass) including fertilizer mixed with earth including spreading and watering etc. and cutting etc. till guarantee period (12 months) complete in all respect as shown on the drawings and as per specifications.	6,971	Sq.ft.			
01- 03 D20	12" thick approved selected sweet earth including spreading, levelling, dressing and watering etc. complete in all respect as per specifications and as directed by the Engineer.	6,971	Sq.ft.			
01- 03 D21	Trees/plants of the following types and size/height including excavation, backfilling, manure/ fertilizer, supports and water etc. complete in all respect as shown on the drawings, specifications and as directed by the Engineer. a) Neem (3 to 4 feet) b) Babul (3 to 4 feet) c) Golmohar (3 to 4 feet) d) Champa (2 to 3 feet) e) Grape Jasmine (2 to 3 feet) f) Cement Concrete planters.	8 7 14 12 13 100	No. No. No. No. No. Rft			
	Foothpath Walkway (Precast Paving Blocks / Tiles)					
01- 03 D22	4" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	4,000	Sq.ft.			
01- 03 D23	Precast cement concrete paving blocks/Tile approved strength shape and pattern of minimum 2 inches thickness including 2" thick sand cushion, levelling and dressing complete in all respect and as directed	4,000	Sq.ft.			
01- 03 D24	PCC concrete kerb block of approved quality and strength including lean, hauching concrete with earth cutting/ filling, levelling, dressing etc complete in all respects as per drawing & specificationst and as directed by the Engineer.	70	Rft			
01- 03 D24A	Plain cement concrete panel flooring including subfloor, bed preparation etc, 1/2" Groove @ 8' c/c, joints etc complete as shown in the drawings.	650	Sq.ft.			
	EXTERNAL SEWER & MANHOLES					
01- 03 D25	Construction of manholes with material including, excavation, base top RCC slab, GI steps, CC benching water proof internal plaster, external bitumen coating etc inlet/out connections etc. i. 18" x 18" SIZE ii. 24" x 24" SIZE ii. 36" x 36" SIZE	19 5 Rate only	Nos. Nos. Nos.			
01- 03 D26	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	7	No.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	Septic Tank					
01- 03 D27	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft.	747 387	Cft. Cft.			
01- 03 D28	Blinding concrete 1250 psi using slag cement conforming to BS-146	50	Cft.			
01- 03 D29	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of Crystalline water proofing coating on vertical surfaces.	465	Sq. ft.			
01- 03 D30	Water proofing coating treatment to all surfaces in contact with water shall be treated with 1 coat of Crystalline water proofing coating on horizontal surface.	102	Sq. ft.			
01- 03 D31	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) Base Slab. b) Walls including chamfer etc. c) Top Slab	100 311 63	Cft. Cft. Cft.			
01- 03 D32	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60, as mentioned in drawings and directed by the Engineer.	2.3	Ton			
01- 03 D32	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	0	Sq. ft.			
01- 03 D33	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	0	Sq. ft.			
01- 03 D34	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings complete in all respect as shown on the drawings and specifications.	0	Sq. ft.			
01- 03 D35	Providing embedding 10" wide PVC water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	46	Rft.			
01- 03 D36	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 03 D37	Supply and fitting of hot dip galvanised iron rung or as approved, etc. complete in all respects, as per drawing & directed by the Engineer.	14	No.			
	Soakage Pit					
01- 03 D38	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer a) 0 to 5 ft b) More than 5 ft upto 10 ft. c) More than 10 ft upto 17 ft.	712 712 784	Cft. Cft. Cft.			
01- 03 D39	Blinding concrete 1250 psi using slag cement conforming to BS-146	20	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D40	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 20" thick b) 16" thick b) 12" thick	680 550 210	Cft Cft Cft			
01- 03 D41	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. Pre-cast / Cast in Situ R.C.C Slab	72	Cft			
01- 03 D42	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.25	Ton			
01- 03 D43	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	1	No			
01- 03 D44	Supply and fitting of hot dip galvanised iron rung or as approved, etc. complete in all respects, as per drawing & directed by the Engineer.	14	No			
	<u>Ground Storage Tank / Pump Room</u>					
01- 03 D45	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft b) More than 5 ft upto 10 ft.	508 8	Cft. Cft.			
01- 03 D46	Blinding concrete 1250 psi using slag cement conforming to BS-146	34	Cft.			
01- 03 D47	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) Base Slab. b) Walls including chamfer etc. c) Top slabs d) Precast Slab	70 179 24 7	Cft. Cft. Cft. Cft.			
01- 03 D48	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	1	Ton			
01- 03 D49	Providing embedding 10" (250 mm) wide PVC water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	39	Rft.			
01- 03 D50	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 12" thick	75	Cft.			
01- 03 D51	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	No.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D52	Supply and fitting of hot dip galvanised iron rung or as approved, etc. complete in all respects, as per drawing and directed by the Engineer.	8	No.			
01- 03 D53	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces; smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	63	Sq. ft.			
01- 03 D54	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	8	Sq. ft.			
01- 03 D55	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	28	Sq. ft.			
01- 03 D56	2" thick, 3000 cement concrete floor and screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	130	Sq. ft.			
01- 03 D57	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. complete in all respect as per specifications.	90	Sq. ft.			
01- 03 D58	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat. etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	12	Sq. ft.			
01- 03 D59	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat. etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	40	Sq. ft.			
01- 03 D60	MS Door including paint etc complete in all respect as shown in the drawings.	15	Sq. ft.			
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 2 coats of crystalline water proofing coating on vertical surfaces.	404	Sq. ft.			
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 1 coat of crystalline water proofing coating on horizontal surfaces.	58	Sq. ft.			
<u>Tube Well / Penumatic Pump</u>						
<u>Construction works</u>						
01- 03 D62	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft	85	Cft			
01- 02 C 63	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	20	Cft.			
		40	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D64	Blinding concrete 1250 psi using slag cement conforming to BS-146	50	Cft.			
01- 03 D65	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification; Pre-cast R.C.C Slab	15	Cft.			
01- 03 D66	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0 05	Ton			
01- 03 D67	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 20" thick, for foundation b) 16" thick, for foundation c) 12" thick, for foundation d) 12" thick, for above G.L e) 4" thick, for parapet wall	50 40 45 180 10	Cft Cft Cft Cft Cft			
01- 03 D68	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	285	Sq.ft.			
01- 03 D69	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	25	Sq.ft.			
01- 03 D70	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	150	Sq.ft.			
01- 03 D71	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	25	Sq.ft.			
01- 03 D72	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	25	Sq.ft.			
01- 03 D73	Plain cement concrete 2" thick floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	25	Sq.ft.			
01- 03 D74	Plain cement concrete 2" thick screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	33	Sq.ft.			
01- 03 D75	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc.complete in all respect as per specifications.	285	Sq.ft.			
01- 03 D76	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	25	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D77	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	150	Sq.ft.			
01- 03 D78	Vapor barrier sheet, under foundations and floor as per drawings and specifications.	25	Sq.ft.			
01- 03 D79	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	250	Sq.ft.			
	Kanchan Arsenic filter					
01- 03 D80	Excavation and backfilling in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places. a) 0 ft to 5 ft	64	Cft.			
01- 03 D81	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	43	Cft.			
		85	Cft.			
01- 03 D82	Blinding concrete 1250 psi using slag cement conforming to BS-146	12	Cft.			
01- 03 D83	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) footing b) Columns up bottom first slab c) Slabs & projection e) Walls including chamfer etc.	20	Cft.			
		18	Cft.			
		28	Cft.			
		72	Cft.			
01- 03 D84	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.5	Ton			
01- 03 D85	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	71	Sq.ft.			
01- 03 D86	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	71	Sq.ft.			
01- 03 D87	2" thick, 3000 cement concrete floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	71	Sq.ft.			
01- 03 D88	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	129	Sq.ft.			
01- 03 D89	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	107	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D90	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating.	107	Sq.ft.			
01- 03 D91	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	185	Sq.ft.			
<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.	755	Cft.			
	a) 0 to 5 ft	540	Cft.			
	b) More than 5 ft upto 10 ft.					
01- 03 D93	Blinding concrete 1250 psi using slag cement conforming to BS-146	50	Cft.			
01- 03 D94	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of Crystalline water proofing coating.	466	Sq.ft.			
01- 03 D95	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer.	107	Cft.			
	a) Base Slab.	335	Cft.			
	b) Walls including chamfer etc.	89	Cft.			
	c) Top Slab					
01- 03 D96	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	1.150	Ton			
01- 03 D97	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	102	Sq.ft.			
01- 03 D98	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	349	Sq.ft.			
01- 03 D99	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces, smooth trowelled at any height with all scaffoldings complete in all respect as shown on the drawings and specifications.	466	Sq.ft.			
01- 03 D100	Providing embedding 10" wide rubber water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	44	Rft.			
01- 03 D101	Supply and fix water tight (Round Type, 24") Pre-cast heavy duty cover with M.S frame work, including liftring handle, making good, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 03 D102	Supply and fitting of hot dip galvanised iron rung or as approved, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
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.			
01- 03 D104	Blinding concrete 1250 psi using slag cement conforming to BS-146	151	Cft.			
01- 03 D105	Solid brick/block masonry wall from 13-1/2" to 31-1/2" thicknesses set in 1:4 cement sand mortar.	520	Cft			
01- 03 D106	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. Pre-cast R.C.C Slab	250	Cft			
01- 03 D107	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.57	Ton			
01- 03 D108	Supply and fix water tight (Round Type, 24") Pre-cast heavey duty cover with M.S frame work, including liftring handle, making good, complete in all respect as per specification and as directed by the Engineer.	6	No.			
01- 03 D109	Supply and fitting of hot dip galvanised iron rung or as approved, etc. complete in all respects, as per drawing and directed by the Engineer.	18	No			
01- 03 D110	Supply and fill 1/2" to 2" size gravel in trench complete in all respects. as per drawing and directed by the Engineer.	150	Cft			
Total Cost for External Development Works Pak Rs.						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
95-04E 1	<p>PART -1 <u>Distribution Board</u> <u>Distribution Board</u> Fabrication, Supply, installation, Testing and commissioning at site of following Distribution board, made of MS Sheet 14 SWG with hinged door, handle, catcher, earthing bar, neutral strip, internal wiring from MCBs terminating on cable terminal blocks, 2 coats of antirust and powder coated paint of approved colour, including cost of all necessary materials complete in all respects. DBs shall be manufactured as per specification, single line diagram complete in all respect up to the satisfaction of Engineer.</p>					
	i) MDBLP-GF	1	No.			
	ii) DBLP-GF1	1	No.			
	iii) DBLP-GF2	1	No.			
	vi) DBLP-FF1	1	No.			
	v) DBLP-FF2	1	No.			
	vi) MCC-WP	1	No.			
	vii) DB-EXT (IP 65)	1	No.			
	Sub- Total (Rs.)					
95-04E 2	<p>PART-2: <u>CABLES AND CONDUITS</u> <u>L.V. Power Cables</u> Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 600 / 1000 Volt grade manufactured by any one of the manufacturers as mentioned in approved manufacturer list in prelaidd conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the employers electrical engineer before placing the order with the manufacturer.</p>					
	a) 4 Core Cu/PVC/PVC CABLE					
	i. 4 core 10mm.sq.	545	R.ft			
	ii. 4 core 16mm sq.	330	R.ft			
	iii. 4 core 50mm.sq.	100	R.ft			
	b) Circuit Protective Conductor (CPC)					
	i. 1 core 10mm sq. PVC insulated colour Green/Yellow.	545	R.ft			
	ii. 1 core 16mm sq. PVC insulated colour Green/Yellow.	330	R.ft			
	iii. 1 core 25mm sq. PVC insulated colour Green/Yellow.	100	R.ft			
95-04E 3	<p><u>P.V.C. Conduit and Accessories</u> Supply at site of PVC/UPVC 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>					
	a) 32mm (1.25") dia. PVC conduit to pull electric cable.	60	R.ft			
	b) 38mm (1.5") dia. PVC conduit to pull electric cable.	100	R.ft			
	c) 50mm (2") dia. UPVC Class C conduit to pull electric cable.	360	R.ft			
	d) 75mm (3") dia. UPVC Class C conduit to pull electric cable.	200	R.ft			
	Sub- Total (Rs.)					

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART-3 Wiring & Conduiting					
95-04E 4	Circuit Wiring & Conduiting					
	a) Circuit Wiring and conduiting from DB to switch / Fan dimmer with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 25 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.	25	Nos.			
	b) Same as item (a) but wiring from switch to switch.	48	Nos.			
	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 25 mm dia PVC conduit, complete with cables and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	151	Nos.			
	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 25 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.	79	Nos.			
	e) Circuit Wiring and conduiting from DB to power socket outlet with 2 x 4 sq.mm 1 core Cu/PVC insulated cable + CPC 4 sq.mm 1 core Cu/PVC insulated cable in 25 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.	23	Nos.			
	f) Same as item (e) but wiring between adjacent socket outlets with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC.	18	Nos.			
	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.	31	Nos.			
	h) Wiring and conduiting from DB to water pump/LBS with 2 x 6 sq.mm 1 core Cu/PVC insulated cable + CPC 6 sq.mm 1 core Cu/PVC insulated cable in 25 mm dia PVC conduit complete with cables, conduits and all necessary accessories such as bends, junction boxes, sockets etc., as per the specifications and drawings and approval by the Engineer.	4	Nos.			
	Sub- Total (Rs.)					
	PART-4: LIGHT FIXTURES, FANS, SWITCHES, OUTLETS & ACCESSORIES					
95-04E 5	LIGHT FIXTURES					
	Supply, installation, testing and commissioning of following light fittings, ceiling /wall mounted or hanging arrangement with SS rod as per detail shown in drawing . 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.	44	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	b. Fluorescent Light TMS 015 with 1x18Watt TL-D lamp color 84 w electronic ballast.	4	Nos.			
	c. Fluorescent Light TCS398 with 2x36Watt TL-D lamp color 84 with M2 Louver & electronic ballast.	24	Nos.			
	d. Fluorescent Light TCS398 2x36Watt TL-D lamp color 84 with M6 Louver & electronic ballast.	86	Nos.			
	e. Fluorescent Light TBS 300 with 2x36 Watt TL-D lamp color 84 with M2 Louver electronic ballast.	16	Nos.			
	f. Philips Type or Equivalent 41055 suspension light with 18 watt LED bulb	2	Nos.			
95-04 E 6	Ceiling Fans Supply, installation and commissioning of 3-blade ceiling fans of following sizes, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respects, fittings shall be duly approved by Engineer.					
	a. 56" dia.	52	Nos.			
	b. 48" dia.	0	Nos.			
	c. 36" dia.	1	Nos.			
95-04 E 7	Switches & Fan Dimmers Supply and installation of following approved manufacture 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	8	Nos.			
	ii) Two gang - 1 Way Switch	20	Nos.			
	iii) Three gang - 1 Way Switch	3	Nos.			
	iv) Four gang - 1 Way Switch	9	Nos.			
	v) One gang - Fan Dimmer	8	Nos.			
	vi) Two gang - Fan Dimmer	25	Nos.			
95-04 E 8	SOCKETS Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and drawings, as per approved manufacturer list and approval by the Engineer.					
	i) 13A, 3-pin universal Switch Socket outlet.	25	Nos.			
	ii) 13A, 3-pin Simplex Switch Socket outlet.	30	Nos.			
	iii) 13A, 3-pin Duplex Switch Socket outlet.	11	Nos.			
	iv) 15A, 3-pin round Switch Socket outlet.	8	Nos.			
	v) Floor Box - Type B	16	Nos.			
95-04 E 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.			
Sub- Total (Rs.)						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART-5: <u>EARTHING SYSTEM</u>					
95-04E 10	Earth Electrode Supply at site and installation of copper bonded steel earth electrodes, 10 feet long and 19.07 mm nominal dia including cost of all necessary materials, complete in all respects, as per specification.	3	Nos.			
95-04E 11	Copper Conductor					
a)	Supply, installation and connection of bare copper conductor 16 mm sq. in 38 mm dia PVC pipe where required from earth pit to earth connecting point for communication system & MCC. Work includes boring, soil, excavation, backfilling of earth, cad-welding at one end and provision of fixing of cable at ECP/ other end as shown in detail and as per specification and entire satisfaction with approval of Engineer.	20	R.ft			
b)	Supply, installation and connections of copper conductor 1x16 mm sq 1-Core Cu/PVC cable in 38mm dia PVC conduit, 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, cadweld (where required), brass nuts, bolts, washers, all necessary accessories, complete in all respects.	40	R.ft			
c)	Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from ECP to U-link box and from U-Link box to data patch panel, as per drawing or as per the instructions of the engineer. including cost of cadweld (where required) . brass nuts, bolts, washers, all necessary accessories, complete in all respects.	20	R.ft			
d)	Supply, installation and connection of bare copper conductor 2x50sqmm from building rebars to earth connecting point at column for power supply system. Work includes boring , soil, excavation, backfilling of earth, cad-welding at one end and provision of fixing of cable at ECP/other end as shown in detail and as per specification and entire satisfaction with approval of Engineer.	15	R.ft			
e)	Supply, installation and connections of copper conductor 1x50 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from earth connecting point to distribution board, as per drawing or as per the instructions of the engineer including cost of cadweld (where required), brass nuts, bolts, washers, all necessary accessories, complete in all respects.	15	R.ft			
95-04E 12	Earth Connecting Points (ECP) 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.			
95-04E 13	ECP (in inspection Chamber) 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.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
95-04E 14	Earth pit / Inspection Chamber Construction of Earth pit/ inspection chamber 375mm x 375mm x 450mm deep with 150mm thick wall and 330mm x 330mm heavy duty C.C Cover, complete in all respects, as per specification.	2	Nos.			
95-04E 15	Testing 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			
Sub- Total (Rs.)						
PART-6: TELEPHONE / VOICE SYSTEM						
95-04E 16	Telephone / Data Network a) Wiring for each telephone point from Utility box to telephone point with Cat 6 UTP in 25mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects, as per drawing and specification.	230	R.ft			
	b) Wiring for each data point from Utility box with Cat 6A UTP, to data point, including cost of 25mm dia. PVC conduit recessed in slabs, walls, columns or above false ceiling or as required as per site conditions, complete in all respects as per drawing and specification.	1200	R.ft			
	c) Wiring from Utility box with Four pair Cat 6A UTP, to data patch panel, including cost of 25mm 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.	150	R.ft			
	d) Supply, Installation of following telephone / data Outlet plate including RJ-45 IOs and 16 SWG sheet steel back box recessed in wall or wall surface, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.					
	i) Simplex Outlet RJ 45	23	Nos.			
	ii) Duplex Outlet RJ 45	3	Nos.			
95-04E 17	Utility Link Box Supply, Installation, testing and commissioning of Utility box, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.	1	Nos.			
95-04E 18	Patch Panel a) Supply and installation of following Patch Panels complete in all respects as per the specifications and drawings and to the approval of the Engineer. i) 24 Port Patch Panel	1	Nos.			
95-04E 19	Telephone / Data Patch Cords a) Supply and connecting of telephone 2 Pair drop cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer.	5	Nos.			
	b) Supply and connecting of data CAT 6A patch cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer. i) 1 meter long ii) 3 meter long	24 24	Nos. Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
95-04E 20	Communication Rack Supply installation of 6U 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.			
95-04E 21	Telephone Sets Supply and connection of following type of Telephone sets. a) Telephone with CLI Module b) Telephone without CLI Module	2 3	Nos. Nos.			
Sub- Total (Rs.)						
PART -7 Fire Alarm System						
95-04E 22	Fire Alarm System a) Supply, installation, testing and commissioning of following type: Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect. i) Smoke detector with buzzer ii) Heat detector with buzzer	12 0	Nos. Nos.			
Sub- Total (Rs.)						
PART -8 LIGHTNING PROTECTION SYSTEM						
95-04E 23	Roof Conductor 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.	700	R. ft.			
95-04E 24	Air terminal Supply, installation and connecting up of 1 x 15mm DIA SOUND ROUND COPPER 500mm 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.			
95-04E 25	Earth Electrode Supply at site and installation of Copper bonded steel earth electrodes ,19mm nominal dia including cost of all necessary materials, complete in all respects, as per specification. a. 3 meter long in single rod b. 1 meter long in single rod (For rocky areas only)	6 18	Nos. Nos.			
95-04E 26	Copper Conductor a Connection of 50 sqmm. bare copper conductor cad welded with column steel rebars at one end with test link box as shown in drawings. b Connection of 50 sqmm. bare copper conductor with test link box at one end and welded with copper earth electrode at other end as shown in drawings.	5 50	Nos. Nos.			
95-04E 27	Copper Test Link 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 includes disconnecting link fuse model LK205 to be installed on the wall of columns, brass nuts bolts, washers, including cost of all necessary materials, complete in all respects as per drawing and specifications.	4	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
95-04E 28	CAD Welding Cad welding of column / foundation / roof rebars to form a continous electrical path upto roof steel rebar including coating of anti rusting compound after cad welding to avoid corrosion and all accessories etc. complete in all respects (Note: Electrical continuity of re-bars shall be witnessed by site engineer/ client representative.)	12	Jobs			
Sub- Total (Rs.)						
PART -9 Public Address System						
95-04E 29	Amplifier a) Supply, installation, testing & commissioning of following type amplifier with three outputs, three microphone inputs and one music input, complete in all respect with wooden box and all installation accessories. i) 60W	2	Nos.			
95-04E 30	Speakers a) Supply, installation & commissioning of 10W wall mounted speaker with all accessories complete in all respects, as per approved manufacturer list. b) Supply, installation & commissioning of 10W wall mounted speaker (IP rated 65) with all accessories complete in all respects, as per approved manufacturer list.	2	Nos.			
95-04E 31	Microphone Cordless Microphone with SS Stand	2	Nos.			
95-04E 32	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 25mm dia PVC conduit complete in all respects upto maximum as shown in riser diagram.	200	R.ft			
Sub- Total (Rs.)						
PART -10 EXTERNAL AREA LIGHTING						
95-04E33	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 1x12Watt LED lamp.	12	Nos.			
	b) Pierlite or equivalent Bollard Light Fixture in die cast aluminum body powder coated suitable for walkways with 12 WATT LED LAMP IP-65 including concrete foundation for mounting the fixture.	2	Nos.			
	c) Pierlite or equivalent P. 7362 - 200 fixture with 1 x12 WATT LED lamp IP-44	2	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
95-04E34	Wiring & Conduiting a) Circuit Wiring and conduiting from DB to first light point with 1 x 2.5 sq mm 3 core Cu/PVC insulated cable in 32 mm. dia UPVC Class D 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 & approval by the Engineer b) Same as item (h) but wiring from light point to light point.	5 11	Nos. Nos.			
Sub- Total (Rs.)						
PART -11 MISCELLANEOUS WORKS						
95-04E 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 in 25mm dia PVC conduit. complete in all respects, as per the specifications and drawings and approval by the Engineer. 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.	45 1	Rft. Nos.			
95-04E 36	Handholes 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	5	Nos.			
95-04E 37	Utility / PTCL Connection a) Supply and co-ordination for the utility connection from WAPDA/HESCO/SEPCO 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/other Telecom company as per required demand. The telephone connection charges shall be paid separately as per actual on submission of receipt.	1 1	Job Job			
Sub- Total (Rs.)						
PART -12 SOLAR ROOM ELECTRIFICATION WORKS						
95-04E 38	LIGHT FIXTURES Supply, Installation, testing and commissioning of following light fittings, ceiling /wall mounted / with hanging arrangement made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal. complete in all respects, as per approved manufacturer, fittings shall be duly approved by Engineer. a. Fluorescent Light TCW097 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 2	Nos. Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
95-04E 39	<p>Switches & Fan Dimmers Supply and installation of following type gang switches of 10 Amp rating, including 16 SWG sheet steel back box recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respect, as per specifications and drawings and approval</p> <p>i) Four gang - 1 Way Switch</p>	1	Nos.			
95-04E 40	<p>SOCKETS Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and drawings</p> <p>i) 13A, 3-pin Duplex Switch Socket outlet.</p>	1	Nos.			
95-04E 41	<p>Fire Alarm System a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect.</p> <p>i) Smoke detector with buzzer</p>	1	Nos.			
95-04E 42	<p>Circuit Wiring & Conduiting a) Circuit Wiring and conduiting from DB to switch with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 25 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> <p>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 25 mm dia PVC conduit, complete with cables and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.</p>	1 1 4	Nos. Nos. Nos.			
Sub- Total (Rs.)						
Total Cost for Electrical Works Pak Rs.						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	PILUMBING WORKS (BUILDING)					
	PLUMBING FIXTURES					
	Supply and Installation of plumbing fixtures & faucets complete in all respects including all accessories, support, hangers, etc. ready to use as per specifications, drawings and instructions of Consultant.					
01-05P1	European style coupled water closet with seat cover, flush tank, tee cock C.P. (chrome plated) connector, thimble, etc. a. Type - EWC	5	No.			
01-05P2	Asian style water closet Orissa type with flush tank tee cock C.P. (chrome plated) connector, uPVC Class "E" flush pipe or as approved, thimble, P-Trap, etc.	16	No.			
01-05P3a	double bib cock brass. chromium plated	20	No.			
01-05P3b	single bib cock brass. chromium plated	4	No.			
01-05P4	Wash basin (WB) including C.P P- trap/Bottle Trap, stop cocks etc i. With half or full pedestal	11	No.			
01-05P5	Wash basin hot and cold water mixer, waste, etc for WB	20	Nos			
01-05P6	Toilet Hand Shower with flexible chain & telephone type shower Including tee stop cock etc complete in all respect. Type - TS	13	No.			
01-05P7	Stainless steel lab. sink including stop cocks, P-trap, Bottle trap, waste pipe etc complete in all respects. SK - 1, 15" x 21" single bowl and single drainer.	4	No.			
01-05P8	Sink cold water tap swan neck, etc, for following. a. For SK-1	4	No.			
01-05P9	S.S Grease Trap 7.5 Kg. capacity, inlet/outlet 2" Dia connections	Rate Only	No.			
01-05P10	Toilet accessories complete set. (Imported make) i. Soap dispenser ii. Toilet paper holder iii. Coat Hook iv. Mirror 5mm (Belgium) v. Paper Rack vi. Towel Rail vii. Stainless Steel Handrail for handicap toilet	6 13 6 120 6 6 6	No. No. No. Sft No. No. No.			
	Sub- Total (Rs.)					
01-05P11	Plumbing Water Supply 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) v) 1½" internal dia (63 mm outer dia) vi) 2" internal dia (75 mm outer dia) vii) 2½" internal dia (90 mm outer dia)	50 350 520 135 205 Rate Only Rate Only	Rft. Rft. Rft. Rft. Rft. Rft. Rft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P12	Providing and installing gate/ball valves. Kitz or approved equivalent make, including jointing, fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters i) ¾" internal dia (32 mm outer dia) ii) 1" internal dia (40 mm outer dia) iii) 1¼" internal dia (50 mm outer dia) iv) 1½" internal dia (63 mm outer dia) v) 2" internal dia (75 mm outer dia) vi) 2½" internal dia (90 mm outer dia)	2 4 3 2 4 Rate Only	No No No No No No			
Sub- Total (Rs.)						
01-05P13	Plumbing Sewerage 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	105 Rate Only 440 110	Rft. Rft. Rft. Rft.			
01-05P14	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.	49	No.			
01-05P15	Construction of rectangular brick masonry manhole of 2'-0"x2'-0" or specified sizes for sewer complete with plastering from internal and external side, PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, rungs, complete as per drawings.	5	Nos			
01-05P16	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.	4	No.			
01-05P17	Providing and fixing Clean Out complete in all respects	8	No.			
01-05P18	Water Cooler 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.			
Sub- Total (Rs.)						
01-05P19	EXTERNAL DEVELOPMENT Septic Tank Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with 'B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer. 6" i/d (150 mm) 4" dia, pipe selevs in walls 6" dia, pipe selevs in walls	15 5 2	Rft. Nos Nos			
01-05P19A	Vent Pipe 4" dia as per drawing and specifications for Septic Tank complete in all respects, puddle flange, wiremesh at pipe face, specials as per drawing or directed by the Engineer.	2	Nos			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P20	Soakage Pit Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S with "B" Class working pressure pipe. in trenches, complete in all respects as per drawing or directed by the Engineer 6" i/d (150 mm)	5	Rft.			
01-05P21	Ground Water Storage Tank Providing, laying, cutting, jointing, testing and disinfecting G.I. pipe (Heavy Quality) of B.S.S. 1387-1967 complete in all respects, with coupler, puddle flange. specials as per drawing or directed by the Engineer. i) ¾" dia ii) 1½" dia iii) 2" dia, pipe selevs, 9" long	5 5 8	Rft. Rft. Nos			
01-05P22A	Overhead Water Storage Tank Vent Pipe 4" dia as per drawing and specifications for U.G.W.Tank, O.H.W.Tank complete in all respects, puddle flange. specials as per drawing or directed by the Engineer.	2	Nos			
01-05P22B	Providing, laying, cutting, jointing, testing and disinfecting brass pipe selevs/ connection pie with puddle including coupler (Heavy Quality) of approved as per B.S.S coads complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer. i) 1" dia, pipe selevs, 10" long ii) 1¼" dia, pipe selevs, 10" long iii) 2½" dia. pipe selevs, 10" long	3 2 3	Nos Nos Nos			
01-05P23	Kanchan Arsenic Filter Filter Material. Providing & laying gravel, including screening and washing as per drawing or directed by the Engineer. Gravel size 6 mm to 15 mm.	21	Cft			
01-05P24	Providing & laying coarse sand, including screening and washing as per drawing or directed by the Engineer.	42	Cft			
01-05P25	Providing & laying fine sand, including screening and washing as per drawing or directed by the Engineer.	42	Sq. ft.			
01-05P26	Providing & fixing M.S sheet ¼" thick, 1/8" Dia hole 2 inch c/c (Diffuser Plate), as per drawing or directed by the Engineer.	37	Sq. ft.			
01-05P27	Providing & laying Dry rammed brick ballast 1-1/2" to 2" (40mm to 50mm) guage, including screening and washing as per drawing or directed by the Engineer.	9	Cft.			
01-05P28	Providing & laying iron nails with out coating (1" thick layer) as per drawing or directed by the Engineer	125	Kg.			
01-05P29	Providing & fixing cover over Kanchan Filter of PVC sheet 1/2" thick, as per drawing or directed by the Engineer.	32	Sq. ft.			
01-05P30	Providing, laying, cutting, jointing, testing and disinfecting PPRC pipe including plastic shower heads with all fittings complete in all respects as per drawing or directed by the Engineer. i) ¾" internal dia (32 mm outer dia)	23	Rft.			
01-05P31	Providing and fixing Plastic Shower Heads	9	Nos			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
Tube Well / Penumatic Pump						
01-05P32	Boring for tubewell in all types of soil except shingle and rock, from ground level to 100 ft (30m) Depth, including sinking and withdrawing of casing pipe, complete in all respect & as directed by the Engineer i) 8" i/d (200mm)	100	Rft.			
01-05P33	Boring for tubewell in all types of soil except shingle and rock, from a depth of 100.1 to 200ft (30 to 60 m) below ground level, including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. i) 8" i/d (200mm)	50	Rft.			
01-05P34	Providing and installing P.V.C. bail/End plug B.S.S. class 'D', in tubewell bore hole, complete in all respect and as directed by the Engineer. i) 2" i/d (100mm)	1	Each.			
01-05P35	Providing and installing P.V.C. blind pipe B.S.S Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer, etc, complete in all respect and as directed by the Engineer. i) 1" i/d(25mm) ii) 1-1/4" i/d(30mm) iii) 2" i/d(50mm)	55	Rft.			
		150	Rft.			
		40	Rft.			
01-05P36	Providing and installing P.V.C. strainer B.S.S Class 'D' in tubewell bore hole, including sockets and solvents; etc, complete in all respect and as directed by the Engineer. i) 2" i/d(50mm)	40	Rft.			
01-05P36	Providing and installing P.V.C. blind pipe B.S.S Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer, complete in all respect and as directed by the Engineer. i) 4" i/d (100mm)	60	Rft.			
01-05P37	Testing and developing of bore hole, complete in all respect and as directed by the Engineer.	3	Per Hr.			
01-05P38	Shrouding with graded pea gravel 3/8" to 1/8" around tubewell in bore hole. complete in all respect and as directed by the Engineer.	45	Cft.			
01-05P39	Providing/fixing Injector valve as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	Each.			
01-05P40	Providing/fixing P.V.C. Cup/Cover as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	No.			
01-05P41	Providing/fixing Pneumatic Pump (having 4 impellers capable to carry a discharge of 400 gals/hr against 90 ft head and 3 HP Motor), complete in all respect and as directed by the Engineer.	1	Set.			
EXTERNAL PIPING						
Plumbing Water Supply						
01-05P42	Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for water supply as per DIN 8077-8078 for pipes and DIN 16962, PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects. i) ½" internal dia (20 mm outer dia) ii) ¾" internal dia (32 mm outer dia) iii) 1" internal dia (40 mm outer dia) iv) 1½" internal dia (50 mm outer dia)	Rate Only	Rft.			
		30	Rft.			
		150	Rft.			
		130	Rft.			

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Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	v) 1½" internal dia (63 mm outer dia)	13	Rft.			
	vi) 2" internal dia (75 mm outer dia)		Rate Only			
	vii) 2½" internal dia (90 mm outer dia)		Rate Only			
01-05P43	Providing and installing gate/ball valves, Kitz or approved equivalent make, including jointing, fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters.					
	i) ¾" internal dia (32 mm outer dia)	2	No			
	ii) 1" internal dia (40 mm outer dia)	4	No			
	iii) 1¼" internal dia (50 mm outer dia)	3	No			
	iv) 1½" internal dia (63 mm outer dia)	0	No			
	v) 2" internal dia (75 mm outer dia)		Rate Only			
	vi) 2½" internal dia (90 mm outer dia)		Rate Only			
	<u>Plumbing Sewerage</u>					
01-05P44	Providing, fixing, cutting, jointing and testing uPVC piping conforming to BS-4514 and BS 5255 including uPVC fittings with solvent cement jointing, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter:					
	2" dia		Rate Only			
	3" dia		Rate Only			
	4" dia	32	Rft.			
	6" dia	430	Rft.			
01-05P45	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.		Rate Only			
01-05P46	Construction of rectangular brick masonry manhole of 2'x2' for sewer complete with plastering from internal and external side, PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, rungs, complete as per drawings.		Rate Only			
01-05P47	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.		Rate Only			
01-05P48	Providing and fixing Clean Out complete in all respects		Rate Only			
	<u>Water Supply Pump For GST</u>					
01-05P49	Supply at site, installation, testing and commissioning of water supply reciprocating pump with 2HP motor as per specification complete in all respect.	2	No			
	Sub- Total (Rs.)					
	Total Cost for Plumbing Works Pak Rs.					

GBPS Weeharabad
(Kemari Town)
(P15- KHI-130)

SINDH BASIC EDUCATION PROGRAM

CONSTRUCTION OF NEW SCHOOLS AND UPGRADATION OF EXISTING SCHOOLS

Package- 15: Karachi (Orangi, Lyari & Kemari Towns)

GBPS Weeharabad (Kemari Town)

SUMMARY OF TENDERED COST

CODE	DESCREPTION	AMOUNT (PKR)
A.	GENERAL ITEMS	
B.	CIVIL WORKS	
C.	EXTERNAL WORKS	
D.	ELECTRICAL WORKS	
E.	PLUMBING WORKS	
TOTAL COST OF SCHOOL BUILDING (PKR):		

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pk Rs.)		Amount (Rs)
				Figures	Words	
	<u>Temporary Facilities (Optional Items)</u>					
	Ref.Spec. No. G05					
01- 01 G 1	Providing and maintaining a rental building of area 3200 sq. ft for education purpose during the entire construction period including all utility services i.e electricity, water supply and sanitation complete in all respect as directed by the Engineer.	12	Month			
	OR					
01- 01 G 2	Providing and maintaining a tent school of area 3200 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 3200 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			
01- 01 G 4	Shifting of furnitures and equipemnts and reinstall etc from existing school to rental building and reinstall as per specification and directed by the engineer.	1	L.S			
	<u>Site Clearing and Grubbing</u>					
	Ref.Spec. No. C01					
01- 01 G 5	Clearing and Grubbing complete in all respect as directed by the Engineer.	21,600	Sft			
	<u>DISMANTLING WORK</u>					
	Ref.Spec. No. G04					
01- 01 G 6	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 7	Dismantling, removing of existing sewerage lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.			
01- 01 G 8	Dismantling, removing of existing water supply lines including any structure as per site and as directed by the Engineer. Dismantled material shall be contractor's property.	50	Rft.			
01- 01 G 9	Dismantling, removing of existing electrical supply line as directed by the Engineer.	150	Rft.			
01- 01 G 10	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.	0	Rft			
01- 01 G 11	Dismatting, removing of existing walkways/platform and flooring as shown in the drawing/ as per site including disposal of surplus material and as directed by the Engineer. Dismantled material shall be contractor's	500	Sft			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Pak Rs.)		Amount (Rs)
				Figures	Words	
	POWER SUPPLY & TELECOMMUNICATION					
01- 01 G 12	Providing, installing, testing and commissioning of electrical supply line for re-routing as per new plan including cables, all fixtures, connections and all related civil works as directed by the Engineer.	1	Job			
01- 01 G 13	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			
	SIGN BOARD / PLAQUE					
	Ref.Spec. No. SP 100					
01- 01 G 16	Providing and installation of Project sign board as per drawing complete including all civil related works, foundations, earthwork concrete, protection works complete as directed by the Engineer.	1	Job			
01- 01 G 17	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			
01- 01 G 18	Providing and maintenance of the Engineer's facilities at individual school site as per clause SP 44. All items/materials/equipment shall become contractor's property at the completion of works.	24	Month			
	WATER TESTING					
	Ref.Spec. No					
01- 01 G 19	Sampling and testing of Water from bore of well (TDS) including submission of report as per specification.	1	Each			
	Sub- Total (Rs.)					
	PROVISIONAL SUMS					
01- 01 G 20	Repair & renovation of existing Government building proposed for temporary school during the construction. (The payable amount shall be assessed as per actual rehabilitation work on selected building and as per recommendation by the Engineer on BOQ rates of similar items quoted in the bid).		P.S			500,000
01- 01 G 21	New Utility connection or shifting & relocation of existing Electric HT lines passing through the school plan including all approvals from concerned department/agency and providing, installing/fixing of poles, PMT etc along with all associated civil work like concrete foundation, mounting base, arial conductors, grounding etc. complete in all respects & as directed by the Engineer		P.S			300,000
	Sub- Total (Rs.)					
	Total Cost for General Items Pak Rs.					

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
CONSTRUCTION OF SCHOOL BUILDING						
SUB-STRUCTURE						
EARTHWORKS						
Ref.Spec. No. C02						
01- 02 C 1	Excavation in all kinds of sub-surface materials, timbering upto following depths including disposal of surplus / rejected excavated materials to designated places.					
	a) 0 ft to 5 ft	18,477	Cft.			
	b) More than 5 ft upto 10 ft.	4,000	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)	18,477	Cft.			
	b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	50,000	Cft.			
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	1	L.S.			
	b) Dewatering, days not allow more then/ maximum payable	10	Day			
TERMITE CONTROL TREATMENT						
Ref.Spec. No. C03						
01- 02 C 4	Termite control treatment to surfaces following structures complete in all respect as per specification: (Only plan area will be measured)	7,650	Sq. ft.			
REINFORCEMENT						
Ref.Spec. No. C04						
01- 02 C 5	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	32	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.	Rate only	ton.			
PLAIN AND REINFORCED CONCRETE AND FORMWORKS						
Ref.Spec. No. C04						
01- 02 C 7	Blinding concrete 1250 psi using slag cement conforming to BS-146.	2,800	Cft.			
01- 02 C 8	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in:					
	a) Footing / Raft foundation	10,335	Cft.			
	b) Columns upto plinth	1,293	Cft.			
	c) Plinth beams	2,400	Cft.			
	d) SOG & Ramps Slabs	95	Cft.			
	e) Walls	35	Cft.			
SITU CONCRETE 1:3:6						
Ref.Spec. No. C04						
07- 02 C 9	Situ concrete 1:3:6, with formwork under the plinth beam thickness as per drawings, using slag cement conforming to BS-146, straight or curve at any level including all anchors required to be built in Rcc columns pedestals, complete in all respect as per drawings and specifications.	724	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<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.	6,800	Sq. ft.			
	<u>P.C.C UNDER FLOORING</u> Ref.Spec No. C07					
01- 02 C 11	PCC 4" thick plain cement concrete (using slag cement conforming to BS-146) sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	6,800	Sq. ft.			
	<u>PLINTH PROTECTION</u> Ref.Spec. No. C04 & C07					
01- 02 C 12	Blinding concrete 1250 psi using slag cement conforming to BS-146	415	Cft.			
	<u>PROTECTION WORKS</u> Ref.Spec. No. C16					
01- 02 C 13	Vapor barrier sheet, under the floor as per drawings and specifications.	6,800	Sq. ft.			
01- 02 C 14	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	13,300	Sq. ft.			
	<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.	27.25	ton.			
01- 02 C 16	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate Only	ton.			
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u> 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 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	880 1,850 3,600 373 90 50	Cft. Cft. Cft. Cft. Cft. Cft.			
	<u>First Floor (From 1st Slab to 2nd slab)</u> <u>REINFORCEMENT</u> Ref.Spec. No. C04					
01- 02 C 18	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	27	ton.			
01- 02 C 19	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate Only	ton.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u> 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	900 2,300 3,850 176 100 30	Cft. Cft. Cft. Cft. Cft. Cft.			
	<u>Second Floor / Roof (From 2nd slab to 3rd slab & tower)</u> <u>REINFORCEMENT</u> Ref.Spec. No. C04					
01- 02 C 21	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	3.50	ton.			
01- 02 C 22	Hot rolled deformed steel bars conforming to ASTM A-108 grade 40 having tensile strength equal to or more than 40,000 psi.	Rate only	ton.			
	<u>PLAIN AND REINFORCED CONCRETE AND FORMWORKS</u> Ref.Spec. No. C04					
01- 02 C 23	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures components complete in all respect as per drawings and specification; a) Columns 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	110 129 252 625 650 280 20	Cft. Cft. Cft. Cft. Rft Cft. Cft.			
	<u>FINISHING WORKS</u> <u>For Ground floor</u> <u>BLOCK MASONRY</u> Ref.Spec. No.C18					
01- 02 C 24	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 4" thick b) 6" thick c) 8" thick d) 4" thick, external cavity; wall with all accessories arrangements for stone tile facing or Color Crete finishig including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	300 250 3,700 1,296	Cft. Cft. Cft. Cft.			
	<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.	475	R.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>CEMENT PLASTER</u> Ref.Spec. No. C06					
01- 02 C 26	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces; smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	325	Sq. ft.			
01- 02 C 28	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	6,900	Sq. ft.			
01- 02 C 29	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	16,560	Sq. ft.			
	<u>ALUMINIUM WORKS</u> Ref.Spec No C11					
01- 02 C 30	Supply and fix in position as specified and approved anodized aluminum openable/sliding widows and ventilators having outside frame profile thickness not less than 2mm and glass frame thickness not less than 1.6mm . approved manufacturer, sliding with netted shutter and openable without netted shutter and 6mm float glass with safety coating of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	1,350	Sq. ft.			
01- 02 C 31	Supply and fix in position as specified anodized aluminum doors with fixed panel both side and top of approved 2"x4" section, manufacturer having minimum wall thickness not less than 1.6 mm with 6mm plain laminated glazing of approved brand and Standard and all imported iron mongery & fillings, of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	Rate only	Sq. ft.			
	<u>STRUCTURAL STEEL</u> Ref. Sec.No. C13					
01- 02 C 32	Mild steel grills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings and specification.	1,200	Kg			
01- 02 C 33	Providing and fixing railing for stairs/ramps as per drawing and specifications complete in all respect a) MS railing stairs b) M.S railing at entrance	51 50	Rft Rft			
01- 02 C 34	Providing and fixing MS pipe railing with paintings, as per drawings and specifications complete in all respects and approved by the Engineer. a) Courtyard Railing (4' Height) b) Railing at staircase landing (4' Height) c) Railing for protection of cc jali (3' Height)	178 10 40	Rft Rft Rft			
01- 02 C 35	Providing and fixing MS folding gate (Emergency Exit) with paintings, complete in all respects as per drawing and specifications.	2	No			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 35A	Providing and fixing MS folding Main entrance gate with paintings, complete in all respects as per drawing and specifications.	1	No			
	FLOOR AND WALL FINISHES					
	Ref.Spec. No. C07					
01- 02 C 36	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical/approved polishing complete in all respect as per drawing, specification and as directed by the Engineer.	6,120	Sq.ft.			
01- 02 C 37	Providing and laying terrazzo tile for entrance ramp (3/4" thick) with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	75	Sq.ft.			
01- 02 C 38	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	315	Sq.ft.			
01- 02 C 39	Porcelain tile floor (type) using tile of size 8"x8" or as approved, (full body), approved quality, colour and shade laid in approved pattern set in specified mortar including cement concrete base, complete in all respect as shown on the drawings and specifications.	730	Sq.ft.			
01- 02 C 40	Porcelain tile in Dado using tile of size 8"x8" or as approved, quality, colour and shade laid in approved pattern including rough plaster base complete in all respect as shown on drawings and specifications.	2,750	Sq.ft.			
	MARBLE WORKS					
	Ref.Spec. No. C07 & C08					
01- 02 C 41	Pre-polished marble on entrance steps, stairs, ramp & floor etc using approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.					
	a) Entrance Steps & Platform (3/4" thick)	320	Sq.ft.			
	b) Entrance Steps Risers (1/2" thick)	70	Sq.ft.			
01- 02 C 42	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	382	Sq.ft.			
01- 02 C 43	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	102	Sq.ft.			
01- 02 C 44	Pre-polished Marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish including complete in all respect as shown on the drawings.	56	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 45	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc. colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings. PAINTING Ref.Spec No C10	40	Sq.ft.			
01- 02 C 46	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat. etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	6,900	Sq.ft.			
01- 02 C 47	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat. etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	13,650	Sq.ft.			
01- 02 C 48	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. including complete in all respect as shown on the drawings. WOODEN DOORS Ref.Spec. No. C09	325	Sq.ft.			
01- 02 C 49	Wooden flush door leaves of the approved types and sizes Burma teak veneer on hardwood ply minimum thickness 3.5mm or as approved finished shutter fixed comprising 1-1/2" thick solid core partal wood 100% infill edging, polish, color/ laquer, beading/ Architrave. with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with laquer polish complete in all respect as shown on the drawings and specifications.	530	Sq.ft.			
01- 02 C 49A	Providing & Fixing Wooden Doors for Service Ducts having Shutter of Lasani or other approved material of size 4'x4'x3/4" and Frame of Partal or equivalent wood of size 7'-6"x4 1/2"x1 1/2" including all fittings & fixtures, accessories, 1/2" thick lipping & paiting etc complete in all respects & as directed by the Engineer	16	Sq.ft.			
01- 02 C 50	Fixed 6mm plain safety laminated glass panel part at above door panel with solid wood batten including teak polish/ lacker at both sides around the glass of approved type. quality complete in all respect as shown on the drawings and specifications.	110	Sq.ft.			
01- 02 C 51	FALSE CEILING Ref.Spec. No. Gypsum board ceiling minimum thickness 7.5mm waterproof including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on the drawings and specifications.	730	Sq.ft.			
01- 02 C 52	Pre cast C.C Patren jali Ref.Spec. No. C.C Patren jali as per approved designed and specification	600	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	CLADDING/ EXTERNAL FACING Ref.Spec. No.C19 & C20					
01- 02 C 53	Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using mortar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	8,250	Sq. ft.			
01- 02 C 53 A	Providing and laying Color-Crete with 3/4" Cement sand plaster on external facing as per approved sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	2,934	Sq. ft.			
	FINISHING WORKS For First floor					
	BLOCK MASONRY Ref.Spec. No.C18					
01- 02 C 54	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 4" thick b) 6" thick c) 8" thick d) 4" thick, external cavity, wall with all accessories arrangements for stone tile facing or Color Crete finishig including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	770 320 3,570	Cf. Cf. Cf.			
		1,702	Cft			
	DOORS FRAMES Ref.Spec. No. C09 & C11					
01- 02 C 55	G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door, complete hardware/ fitting material (Hold fast & mortar etc) sizes and patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	395	R. ft.			
	CEMENT PLASTER 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.	Rate only	Sq. ft.			
01- 02 C 57a	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.	9,704	Sq. ft.			
01- 02 C 57b	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	13,000	Sq. ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate		Amount (Rs)
				Figures	Words	
	ALUMINIUM WORKS Ref.Spec. No. C 11					
01- 02 C 58	Supply and fix in position as specified and approved anodized aluminum openable/sliding widows and ventilators having outside frame profile thickness not less than 2mm and glass frame thickness not less than 1.6mm , approved manufacturer, sliding with netted shutter and openable without netted shutter and 6mm float glass with safety coating of approved brand and Standard and all imported iron mongery & fillings. of approved quality including mastic sealant to joints between the building openings and frames, complete in all respect as per drawings and specifications.	1,400	Sq.ft.			
	STRUCTURAL STEEL Ref. Sec.No. C 13					
01- 02 C 59	Mild steel grills as per approved design including fabrication, transport, handling, installation & synthetic enamel paint over red oxide primer complete in all respect as shown on the drawings.	1,280	Kg			
01- 02 C 60	Providing and fixing MS stair railing as per drawing and specifications complete in all respect.	30	Rft			
01- 02 C 61	Providing and fixing MS pipe railing with paintings, as per drawings and specifications complete in all respects and approved by the Engineer.					
	a) Courtyard Railing (4' Height)	178	Rft			
	b) Railing at staircase landing (4' Height)	20	Rft			
	c) Railing for protection of cc jali (3' Height)	48	Rft			
	FLOOR AND WALL FINISHES Ref.Spec. No. C 07, 08					
01- 02 C 62	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	6,500	Sq.ft.			
01- 02 C 63	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer.	70	Sq.ft.			
01- 02 C 64	Porcelain tile floor (type) using tile of size 8"x8"or as approved (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.	500	Sq.ft.			
01- 02 C 65	Porcelain tile in Dado using tile of size 8"x8" or as approved, quality, colour and shade laid in approved pattern including rough plaster base complete in all respect as shown on drawings and specifications.	1,750	Sq.ft.			
	MARBLE WORKS Ref.Spec. No. C 07, 08					
01- 02 C 66	Pre-polished marble on stairs steps and landing etc 3/4" thick using marble slab of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including bullnosing/ chamfering of edges complete in all respect as shown on the drawings.	176	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 67	Pre-polished marble tile riser using tile of approved size, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	50	Sq. ft.			
01- 02 C 68	Pre-polished marble tile for counter tops & other area 3/4" thick using of approved quality, colour & shade laid in approved pattern set in 1:2 cement sand mortar base including complete in all respect as shown on the drawings.	50	Sq. ft.			
01- 02 C 69	Pre-polished Marble skirting tile of approved size for stair cases & steps, colour and shade laid in approved pattern set in specified mortar including rough base plaster, grinding and polish complete in all respect.	34	Sq. ft.			
01- 02 C 70	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	52	Sq. ft.			
	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.	9,704	Sq. ft.			
01- 02 C 72	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer.	13,000	Sq. ft.			
	WOODEN DOORS					
	Ref. Spec. No. C 09, 12					
01- 02 C 73	Wooden flush door leaves of the approved types and sizes Burma teak veneer on hardwood ply minimum thickness 3.5mm or as approved finished shutter fixed comprising 1-1/2" thick solid core partal wood 100% infill edging, polish, color/ laquer, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with laquer polish complete in all respect as shown on the drawings and specifications.	560	Sq. ft.			
01- 02 C 73A	Providing & Fixing Wooden Doors for Service Ducts having Shutter of Lasani or other approved material of size 4"x4"x3/4" and Frame of Partal or equivalent wood of size 7'-6"x4 1/2"x1 1/2" including all fittings & fixtures, accessones, 1/2" thick lipping & painting etc complete in all respects & as directed by the Engineer	16	Sq. ft.			
01- 02 C 74	Fixed 6mm plain safety laminated glass panel part at above door panel with solid wood batten including teak polish/ lacker at both sides arround the glass of approved type, quality complete in all respect as shown on the drawings and specifications.	124	Sq. ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
01- 02 C 75	FALSE CEILING Ref.Spec. No. Gypsum board ceiling minimum thickness 7.5mm waterproof including all G.I fitting, accessories, wire and suspension system complete in all respect as shown on the drawings and specifications.	500	Sq. ft.			
01- 02 C 76	Pre cast C.C Patren jali and Railing Ref.Spec. No. C.C Patren jali as per approved designed and specification	680	Sq. ft.			
01- 02 C 77	STONE CLADDING/ COLOR-CRETE/ EXTERNAL FACING Ref.Spec. No. C19 & C20 Providing and laying stone cladding/stone tile facing as per type, size, design/pattern shown on the drawings and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	5,600	Sq. ft.			
01- 02 C 77 A	Providing and laying Color-Crete with 3/4" Cement sand plaster on extrenal facing as per approved sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	2,980	sq. ft			
01- 02 C 78	WATER PROOFING AND BUILTUP ROOFING Ref.Spec. No.C 16 Water proofing and built up roofing over roof slab comprising all the layers and coatings etc as shown in the drawings and specifications.	7,500	Sq. ft.			
01- 02 C 79	FINISHING WORKS For Roof floor / Secound floor BLOCK MASONRY Ref.Spec. No. C18 Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 4" thick b) 6" thick c) 8" thick d) 4" thick, external cavity; wall with all accessories arrangements for stone tile facing or Color Crete finishig including cavity arrangements / accessories, anchorages, angle irons and metal flusing & PVC pipe as weep hole etc at any height and level.	30 50 500 789	Cft. Cft. Cft. Cft.			
01- 02 C 80	DOORS FRAMES Ref.Spec. No. C09 & C11 G.I frame 16swg redoxidized inner & outer side and polish/ paint matching with door. complete hardware/ fitting material (Hold fast & mortar etc) sizes and patam detail as per schedule with lacquer polish complete in all respect as shown on the drawings and specifications.	35	R. ft			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>CEMENT PLASTER</u>					
	Ref.Spec. No. C 06					
01- 02 C 81	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection, parapet or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and as per elevation complete in all respect as shown on the drawings.	2,504	Sq.ft.			
01- 02 C 82	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	388	Sq.ft.			
01- 02 C 83	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc	902	Sq.ft.			
01- 02 C 84	3/4" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls to O.H.W Tank etc with making of chamfer corner in plaster as per drawings and specifications.	360	Sq.ft.			
01- 02 C 85	Water proofing coating treatment to all vertical surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating.	230	Sq.ft.			
01- 02 C 86	Water proofing coating treatment to all horizontal surfaces in contact with water shall be treated with 1 coat of crystalline water proofing coating.	130	Sq.ft.			
01- 02 C 87	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, including fixing of frame and embedded parts in concrete and painting, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01- 02C 88	Supply and fitting of malleable Iron rungs, etc. complete in all respects, as per drawing and directed by the Engineer. (For O.H.W tank)	4	No.			
	<u>FLOOR AND WALL FINISHES</u>					
	Ref.Spec. No. C 07, 08					
01- 02 C 89	Providing and laying terrazzo tile for floor with size of 12"x12" including base mortar, chemical polishing complete in all respect as per drawing, specification and as directed by the Engineer.	180	Sq.ft.			
01- 02 C 90	Providing and laying terrazzo tile skirting 4" high using tile of approved size, quality, colour and shade laid including rough plaster base complete in all respect as per drawing, specification and as directed by the Engineer	16	Sq.ft.			
	<u>MARBLE WORKS</u>					
	Ref.Spec. No. C 07, 08					
01- 02 C 91	Providing and laying Pre-polished marble threshold 3/4" thick of approved size, making of edges of marble etc, colour and quality laid in approved pattern set in specified mortar including cement concrete screed base complete in all respect as shown on the drawings.	6	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate Rs.		Amount (Rs)
				Figures	Words	
	<u>PAINING</u> Ref.Spec. No. C 10					
01- 02 C 92	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. complete in all respect as directed by the Engineer	388	Sq.ft			
01- 02 C 93	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	902	Sq.ft.			
01- 02 C 94	Providing and applying three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc.complete in all respect as directed by the Engineer	2,504	Sq.ft.			
	<u>WOODEN DOORS</u> Ref.Spec No. C 09, C12					
01- 02 C 95	Wooden flush door leaves of the approved types and sizes Burma teak veneer on hardwood ply minimum thickness 3.5mm or as approved finished shutter fixed comprising 1-1/2" thick solid core partial wood 100% infill edging, polish, color/ laquer, beading/ Architrave, with all hardwares (Locks, door closer, door stoper, push plate kick plate etc) as per schedule and finish with laquer polish complete in all respect as shown on the drawings and specifications.	49	Sq.ft.			
	<u>Pre cast C.C Patren jali and Railing</u> Ref.Spec. No.					
01- 02 C 96	C.C Patren jali as per approved designed and specification	100	Sq.ft.			
01- 02 C 97	Precast water spout as per approved designed and specification	15	No.			
	<u>CLADDING/ EXTERNAL FACING</u> Ref.Spec. No. C19 & C20					
01- 02 C 98	Providing and laying stone clading/stone tile facing as per type, size, design/pattern shown on the drawings and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.	2,900	Sq.ft.			
01- 02 C 98A	Providing and laying Color-Crete with 3/4" Cement sand plaster on extrenal facing as per approverd sample type size mentioned in drawings and specifications with expended materials at joints, arrangements / accessories, anchorages, angle irons and metal flusing etc at any height and level using motaor 1:4, as per size, design / pattern shown & shapes/ sample and uniform colour complete in all respect, as per drawings, specifications and as directed by the Engineer.	530	Sq.ft.			
01- 02 C 99	Providing & Fixing of Alphabetical Letters made of MS silver Material or any other approved material as name of school on external wall/face at entrance of the newly constructed school building of approved design, colour & fontface etc complete in all respects and as directed by the Engineer.	1	Job			
	Total Cost for Civil Works Pak Rs.					

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	EXTERNAL DEVELOPEMENT					
	CONSTRUCTION OF BOUNDARY WALL					
	Ref.Spec. No. C02					
	EARTHWORKS					
	Ref.Spec. No.					
01-03 D 1	Excavation in all kinds of sub-surface materials, timbering upto following depths including disposal of surplus / rejected excavated materials to designated places. a) 0 ft to 5 ft	4,680	Cft.			
01-03 D 2	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	2067 260	Cft. Cft.			
01-03 D3	Area Fill with selected materials from outside source including watering and compaction to every layer as per specification for Play ground.	9,713	Cft.			
01-03 D3A	Providing & fixing/embading of School Name Plate/ Sign board, made of Marble in Boundary wall near main entrance gate of school building complete in all respects & as directed by the Engineer	1	Job			
	DEWATERING (applicable on Section 3)					
	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	1 10	L.S. Day			
	TERMITE CONTROL TREATMENT					
	Ref.Spec. No. C03					
01-03 D5	Termite control treatment to surfaces following structures complete in all respect as per specification: (Only plan area will be measured)	2,327	Sq.ft.			
	REINFORCEMENT					
	Ref.Spec. No. C04					
01-03 D6	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60 having tensile strength equal to or more than 60,000 psi.	6	ton.			
	PLAIN AND REINFORCED CONCRETE					
	Ref.Spec. No. C04					
01-03 D7	Blinding concrete 1250 psi using slag cement conforming to BS-146.	693	Cft.			
01-03 D8	Reinforced cement concrete using slag cement conforming to BS-146, 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification in: a) Footings b) Columns upto plinth c) Plinth beams	1,380 131 608	Cft. Cft. Cft.			
01-03 D9	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following complete in all respect as per drawings and specification; a) Columns	420	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-03 D10	<p><u>BLOCK MASONRY</u> Ref Spec No.</p> <p>Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications a) 8" thick / 4" thick</p>	1,800	Cft.			
01-03 D10a	<p>Solid brick masonry wall with pointing on both faces above plinth beam 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</p>	0	Cft.			
01-03 D11	<p><u>CEMENT PLASTER</u> Ref Spec. No. C06</p> <p>3/4" thick, 1:4 cement sand plaster to specified exterior surfaces (Columns, wall, beams and project etc.) including making grooves as per design and elevation complete in all respect as shown on the drawings.</p>	2,640	Sq.ft.			
01-03 D12	<p><u>PROTECTION WORKS</u> Ref.Spec. No. C16</p> <p>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.</p>	4,384	Sq.ft.			
01-03 D13	<p><u>COPING</u> Ref.Spec. No. C04</p> <p>Providing and fixing 3" thick coping including plaster using OP cement for boundary wall complete as shown on the drawings.</p>	540	Rft.			
01-03 D14	<p><u>STRUCTURAL STEEL</u> Ref. Sec.No. C13</p> <p>Mild steel main gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 14'x7')</p>	1	no			
01-03 D15	<p>Mild steel wicket gate with approved wood planks per as per drawing/ design including fabrication, handling, installation & synthetic enamel paint over red oxide primer and polish on wood works with all iron mongrey / accessories complete in all respect as shown in the drawings. (Size: 3'x7')</p>	1	no			
03 D15a	<p><u>CLADDING/ EXTERNAL FACING</u> Ref. Spec. No. C19 & C20</p> <p>Providing and laying stone cladding/ stone tile facing as per type, size, design/pattern shown on the drawings and as per Specifications and instructions given in manufacturer/ supplier's brochure with approved shapes/ samples and in uniform colour at any height and level using motar fill between block masonry wall and stone cladding, set in cement sand mortar 1:3, including flushing, curing, washing and cleaning etc complete in all respect, as per drawings, specifications and as directed by the Engineer.</p>	6,000	sft			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	LANDSCAPING					
	Ref. Sec.No.					
01-03 D 16	Fill and backfill with selected materials including watering and compaction to every layer as per specification.	4,000	Cft.			
01-03 D17	Area Fill with selected materials including watering and compaction to every layer as per specification.	11,912	Cft.			
01-03 D18	Relocation and replanting of removed trees as per specifications and as directed by the Engineer.	Rate Only	No.			
01-03 D19	Development of lawn (grass) including fertilizer mixed with earth including spreading and watering etc. and cutting etc. till guarantee period (12 months) complete in all respect as shown on the drawings and as per specifications.	8,000	Sq.ft.			
01-03 D20	12" thick approved selected sweet earth including spreading, levelling, dressing and watering etc. complete in all respect as per specifications and as directed by the Engineer.	8,000	Sq.ft.			
01-03 D21	Trees/plants of the following types and size/height including excavation, backfilling, manure/ fertilizer, supports and water etc. complete in all respect as shown on the drawings, specifications and as directed by the Engineer.					
	a) Neem (3 to 4 feet)	8	No.			
	b) Babul (3 to 4 feet)	7	No.			
	c) Golmohar (3 to 4 feet)	14	No.			
	d) Champa (2 to 3 feet)	12	No.			
	e) Crape Jasmine (2 to 3 feet)	13	No.			
	f) Cement Concrete planters.	100	Rft			
	Foothpath Walkway (Precast Paving Blocks / Tiles)					
01-03 D22	4" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	4,000	Sq.ft.			
01-03 D23	Precast cement concrete paving blocks/Tile approved strength shape and pattern of minimum 2 inches thickness including 2" thick sand cushion, levelling and dressing complete in all respect and as	4,000	Sq.ft.			
01-03 D24	PCC concrete kerb block of approved quality and strength including lean, haunching concrete etc complete as per drawing and specifications with earth cutting/ filling, levelling, dressing etc complete in all respect as per specifications and as directed by the Engineer.	70	Rft			
01-03 D24A	Plain cement concrete panel flooring including subfloor, bed preparation etc, 1/2" Groove @ 8' c/c, joints etc complete as shown in the drawings.	650	Sq.ft.			
	EXTERNAL SEWER & MANHOLES					
01-03 D25	Construction of manholes with material including, excavation, base top RCC slab, GI steps, CC benching water proof internal plaster, external bitumen coating etc inlet/out connections etc.					
	i. 18" x 18" SIZE	19	Nos.			
	ii. 24" x 24" SIZE	5	Nos.			
	iii. 36" x 36" SIZE	Rate only	Nos.			
01-03 D26	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	7	No.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	Septic Tank					
01-03 D27	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer.					
	a) 0 to 5 ft	747	Cft.			
	b) More than 5 ft upto 10 ft.	387	Cft.			
01-03 D28	Blinding concrete 1250 psi using slag cement conforming to BS-146	50	Cft.			
01-03 D29	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of Crystalline water proofing coating on vertical surfaces.	465	Sq.ft.			
01-03 D30	Water proofing coating treatment to all surfaces in contact with water shall be treated with 1 coat of Crystalline water proofing coating on horizontal surface.	102	Sq.ft.			
01-03 D31	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer.					
	a) Base Slab.	100	Cft.			
	b) Walls including chamfer etc.	311	Cft.			
	c) Top Slab	63	Cft.			
01-03 D32	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60, as mentioned in drawings and directed by the Engineer.	2.3	Ton			
01-03 D32	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	0	Sq.ft.			
01-03 D33	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc	0	Sq.ft.			
01-03 D34	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings complete in all respect as shown on the drawings and specifications.	0	Sq.ft.			
01-03 D35	Providing embedding 10" wide PVC water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	46	Rft.			
01-03 D36	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01-03 D37	Supply and fitting of hot dip galvanised iron rung or as approved, etc. complete in all respects, as per drawing and directed by the Engineer.	14	No.			
	Soakage Pit					
01-03 D38	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	712	Cft.			
	b) More than 5 ft upto 10 ft.	712	Cft.			
	c) More than 10 ft upto 17 ft	784	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-03 D39	Blinding concrete 1250 psi using slag cement conforming to BS-146.	20	Cft.			
01-03 D40	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 20" thick	680	Cft			
	b) 16" thick	550	Cft			
	b) 12" thick	210	Cft			
01-03 D41	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. Pre-cast / Cast in Situ R.C.C Slab	72	Cft			
01-03 D42	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.25	Ton			
01-03 D43	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	1	No			
01-03 D44	Supply and fitting of hot dip galvanised iron rung or as approved, etc. complete in all respects, as per drawing and directed by the Engineer.	14	No			
	<u>Ground Storage Tank / Pump Room</u>					
01-03 D45	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer.					
	a) 0 to 5 ft	508	Cft.			
	b) More than 5 ft upto 10 ft.	8	Cft.			
01-03 D46	Blinding concrete 1250 psi using slag cement conforming to BS-146	34	Cft.			
01-03 D47	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer.					
	a) Base Slab.	70	Cft.			
	b) Walls including chamfer etc.	179	Cft.			
	c) Top slabs	24	Cft.			
	d) Precast Slab	7	Cft.			
01-03 D48	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	1	Ton			
01-03 D49	Providing embedding 10" (250 mm) wide PVC water stopper in construction joints in R.C.C. work complete in all respects, as per drawing and directed by the Engineer.	39	Rft.			
01-03 D50	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications.					
	a) 12" thick	75	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
				01- 03 D51	Supply and fix water tight (Square Type) Malleable iron Manhole cover with frame of CME or Equivelant, for the (50kg weights heavy duty), including the cost for fixing of frame in concrete and making good the same, complete in all respect as per specification and as directed by the Engineer.	
01- 03 D52	Supply and fitting of hot dip galvanised iron rung or as approved, etc. complete in all respects, as per drawing and directed by the Engineer.	8	No.			
01- 03 D53	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design. dip course, edges. chamfers and complete in all respect as shown on the drawings and specifications.	63	Sq.ft.			
01- 03 D54	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	8	Sq.ft.			
01- 03 D55	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster. at any height with all scaffoldings etc.	28	Sq.ft.			
01- 03 D56	2" thick, 3000 cement concrete floor and screeding smooth finished complete in all respect as shown on the drawings. specification and as per instruction of Engineer.	130	Sq.ft.			
01- 03 D57	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc.complete in all respect as per specifications.	90	Sq.ft.			
01- 03 D58	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	12	Sq.ft.			
01- 03 D59	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	40	Sq.ft.			
01- 03 D60	MS Door including paint etc complete in all respect as shown in the drawings.	15	Sq.ft.			
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 2 coats of crystalline water proofing coating on vertical surfaces.	404	Sq.ft.			
01- 03 D61	Water proofing coating treatment to all surfaces (interior/ exterior) in contact with water shall be treated with 1 coat of crystalline water proofing coating on horizontal surfaces.	58	Sq.ft.			
	Tube Well / Penumatic Pump					
	<u>Construction works</u>					
01- 03 D62	Excavation in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places as per drawing or directed by the Engineer. a) 0 to 5 ft	85	Cft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-02 C 63	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	20 40	Cft. Cft.			
01-03 D64	Blinding concrete 1250 psi using slag cement conforming to BS-146	50	Cft.			
01-03 D65	Reinforced cement concrete using OP cement 3000 psi (28 day cylinder strength) in following super structures complete in all respect as per drawings and specification; Pre-cast R.C.C Slab	15	Cft.			
01-03 D66	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.05	Ton			
01-03 D67	Cement concrete solid block masonry walls of the following thicknesses set in 1:4 cement sand mortar, straight or curve at any level including all anchors, walls ties and other fixtures required to be built in block/ RCC structures for masonry, complete in all respect as per drawings and specifications. a) 20" thick, for foundation b) 16" thick, for foundation c) 12" thick, for foundation d) 12" thick, for above G.L e) 4" thick, for parapet wall	50 40 45 180 10	Cft Cft Cft Cft Cft			
01-03 D68	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	285	Sq.ft.			
01-03 D69	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	25	Sq.ft.			
01-03 D70	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	150	Sq.ft.			
01-03 D71	6" thick hardcore compacted with mechanical compactor filling voids, with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	25	Sq.ft.			
01-03 D72	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	25	Sq.ft.			
01-03 D73	Plain cement concrete 2" thick floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	25	Sq.ft.			
01-03 D74	Plain cement concrete 2" thick screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	33	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01- 03 D75	Three or more coats of weather resistant paint of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including surface preparation at any height and level with scaffolding etc. complete in all respect as per specifications.	285	Sq.ft.			
01- 03 D76	Providing and applying three or more coats of distemper paint to C.C Plaster ceiling of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	25	Sq.ft.			
01- 03 D77	Providing and applying three or more coats of matt emulsion paint finish to internal walls with paint of approved quality and shade including rubbing, filling, and primer coat, etc. at any height and level with scaffolding etc. including complete in all respect as shown on the drawings.	150	Sq.ft.			
01- 03 D78	Vapor barrier sheet, under foundations and floor as per drawings and specifications.	25	Sq.ft.			
01- 03 D79	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	250	Sq.ft.			
	<u>Kanchan Arsenic filter</u>					
01- 03 D80	Excavation and backfilling in all kinds of sub-surface materials upto following depths including disposal of surplus / rejected excavated materials to designated places. a) 0 ft to 5 ft	64	Cft.			
01- 03 D81	Fill and backfill with selected materials including watering and compaction to every layer as per specification. a) From suitable excavated material (from stockpile of excavated materials) b) Obtained from outside sources (material / source to be approved by the Engineer) upto free haulage limit.	43 85	Cft. Cft.			
01- 03 D82	Blinding concrete 1250 psi using slag cement conforming to BS-146	12	Cft.			
01- 03 D83	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. a) footing b) Columns up bottom first slab c) Slabs & projection e) Walls including chamfer etc.	20 18 28 72	Cft. Cft. Cft. Cft.			
01- 03 D84	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.5	Ton			
01- 03 D85	6" thick hardcore compacted with mechanical compactor filling voids with same material of suitable size for floor foundation complete in all respect as per specifications and drawings.	71	Sq.ft.			
01- 03 D86	PCC 4" thick plain cement concrete sub-floor laid complete in all respect as per drawing, specification and as directed by the Engineer.	71	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-03 D87	2" thick, 3000 cement concrete floor & screeding smooth finished complete in all respect as shown on the drawings, specification and as per instruction of Engineer.	71	Sq.ft.			
01-03 D88	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings (wall, beams, projection or any structural members etc.) including making grooves as per design, dip course, edges, chamfers and complete in all respect as shown on the drawings and specifications.	129	Sq.ft.			
01-03 D89	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	107	Sq.ft.			
01-03 D90	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of crystalline water proofing coating.	107	Sq.ft.			
01-03 D91	Two coats of hot bitumen 10/20 of approved quality applied to all concrete surfaces in contact with earth as approved by the Engineer, complete in all respect as per drawings and specifications.	185	Sq.ft.			
<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.			
	b) More than 5 ft upto 10 ft.	540	Cft.			
01-03 D93	Blinding concrete 1250 psi using slag cement conforming to BS-146	50	Cft.			
01-03 D94	Water proofing coating treatment to all surfaces in contact with water shall be treated with 2 coats of Crystalline water proofing coating.	466	Sq.ft.			
01-03 D95	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer.					
	a) Base Slab.	107	Cft.			
	b) Walls including chamfer etc.	335	Cft.			
	c) Top Slab	89	Cft.			
01-03 D96	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	1.150	Ton			
01-03 D97	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of ceilings at any height with all scaffoldings including making edges etc.	102	Sq.ft.			
01-03 D98	1/2" thick, 1:4 cement sand smooth trowelled plaster to interior surfaces of walls, including making of all types of openings required for windows & door etc with jams plaster, at any height with all scaffoldings etc.	349	Sq.ft.			
01-03 D99	3/4" thick, 1:4 cement sand plaster to specified exterior surfaces smooth trowelled at any height with all scaffoldings complete in all respect as shown on the drawings and specifications.	466	Sq.ft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-03 D100	Providing embedding 10" wide rubber water stopper in construction joints in R.C.C. work complete in all respects. as per drawing and directed by the Engineer.	44	Rft			
01-03 D101	Supply and fix water tight (Round Type, 24") Pre-cast heavy duty cover with M.S frame work, including liftring handle. making good, complete in all respect as per specification and as directed by the Engineer.	2	No.			
01-03 D102	Supply and fitting of hot dip galvanised iron rung or as approved, etc. complete in all respects, as per drawing and directed by the Engineer.	16	No.			
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			
01-03 D104	Blinding concrete 1250 psi using slag cement conforming to BS-146	151	Cft.			
01-03 D105	Solid brick/block masonry wall from 13-1/2" to 31-1/2" thicknesses set in 1:4 cement sand mortar.	520	Cft			
01-03 D106	Reinforced cement concrete using slag cement conforming to BS-146 having 3000 Psi (28 day Cylinder strength) in following structures as mentioned in drawings and directed by the Engineer. Pre-cast R.C.C Slab	250	Cft			
01-03 D107	Hot rolled deformed steel bars conforming to ASTM A-615 grade 60.as mentioned in drawings and directed by the Engineer.	0.57	Ton			
01-03 D108	Supply and fix water tight (Round Type, 24") Pre-cast 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.			
01-03 D109	Supply and fitting of hot dip galvanised iron rung or as approved, etc. complete in all respects. as per drawing and directed by the Engineer.	18	No			
01-03 D110	Supply and fill 1/2" to 2" size gravel in trench complete in all respects. as per drawing and directed by the Engineer.	150	Cft			
Total Cost for External Development Works Pak Rs.						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
95-04E 1	<p>PART -1 <u>Distribution Board</u> <u>Distribution Board</u> Fabrication, Supply, installation, Testing and commissioning at site of following Distribution board, made of MS Sheet 14 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 ii) DBLP-GF1 iii) DBLP-GF2 vi) DBLP-FF1 v) DBLP-FF2 vi) MCC-WP vii) DB-EXT (IP 65)</p>	1 1 1 1 1 1 1	No. No. No. No. No. No. No.			
Sub- Total (Rs.)						
95-04E 2	<p>PART-2: <u>CABLES AND CONDUITS</u> <u>L.V. Power Cables</u> Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 600 / 1000 Volt grade manufactured by any one of the manufacturers as mentioned in approved manufacturer list in pre-laid conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the employers electrical engineer before placing the order with the manufacturer.</p> <p>a) 4 Core Cu/PVC/PVC CABLE i. 4 core 10mm sq. ii. 4 core 16mm sq. iii. 4 core 50mm sq.</p> <p>b) Circuit Protective Conductor (CPC) i. 1 core 10mm sq. PVC insulated colour Green/Yellow. ii. 1 core 16mm sq. PVC insulated colour Green/Yellow. iii. 1 core 25mm sq. PVC insulated colour Green/Yellow.</p>	545 330 100	R.ft R.ft R.ft			
95-04E 3	<p><u>P.V.C. Conduit and Accessories</u> Supply at site of PVC/UPVC 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 (1.25") dia. PVC conduit to pull electric cable. b) 38mm (1.5") dia. PVC conduit to pull electric cable. c) 50mm (2") dia. UPVC Class C conduit to pull electric cable. d) 75mm (3") dia. UPVC Class C conduit to pull electric cable.</p>	60 100 360 200	R.ft R.ft R.ft R.ft			
Sub- Total (Rs.)						

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART-3 Wiring & Conduiting					
95-04E 4	Circuit Wiring & Conduiting					
	a) Circuit Wiring and conduiting from DB to switch / Fan dimmer with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 25 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.	25	Nos.			
	b) Same as item (a) but wiring from switch to switch.	48	Nos.			
	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 25 mm dia PVC conduit, complete with cables and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.	151	Nos.			
	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 25 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, drawings & approval by the Engineer.	79	Nos.			
	e) Circuit Wiring and conduiting from DB to power socket outlet with 2 x 4 sq.mm 1 core Cu/PVC insulated cable + CPC 4 sq.mm 1 core Cu/PVC insulated cable in 25 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, drawings & approval by the Engineer.	23	Nos.			
	f) Same as item (e) but wiring between adjacent socket outlets with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC.	18	Nos.			
	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.	31	Nos.			
	h) Wiring and conduiting from DB to water pump/LBS with 2 x 6 sq.mm 1 core Cu/PVC insulated cable + CPC 6 sq.mm 1 core Cu/PVC insulated cable in 25 mm dia PVC conduit complete with cables, conduits and all necessary accessories such as bends, junction boxes, sockets etc., as per the specifications and drawings and approval by the Engineer.	4	Nos.			
	Sub- Total (Rs.)					
	PART-4: LIGHT FIXTURES, FANS, SWITCHES, OUTLETS & ACCESSORIES					
95-04E 5	LIGHT FIXTURES					
	Supply, Installation, testing and commissioning of following light fittings, ceiling /wall mounted or hanging arrangement with SS rod as per detail shown in drawing . 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.	44	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
b.	Fluorescent Light TMS 015 with 1x18Watt TL-D lamp color 84 w electronic ballast.	4	Nos.			
c.	Fluorescent Light TCS398 with 2x36Watt TL-D lamp color 84 with M2 Louver & electronic ballast.	24	Nos.			
d.	Fluorescent Light TCS398 2x36Watt TL-D lamp color 84 with M6 Louver & electronic ballast.	86	Nos.			
e.	Fluorescent Light TBS 300 with 2x36 Watt TL-D lamp color 84 with M2 Louver electronic ballast.	16	Nos.			
f.	Philips Type or Equivalent 41055 suspension light with 18 watt LED bulb	2	Nos.			
95-04E 6	Ceiling Fans Supply, installation and commissioning of 3-blade ceiling fans of following sizes, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respects, fittings shall be duly approved by Engineer.					
a.	56" dia.	52	Nos.			
b.	48" dia.	0	Nos.			
c.	36" dia.	1	Nos.			
95-04E 7	Switches & Fan Dimmers Supply and installation of following approved manufacture 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	8	Nos.			
ii)	Two gang - 1 Way Switch	20	Nos.			
iii)	Three gang - 1 Way Switch	3	Nos.			
iv)	Four gang - 1 Way Switch	9	Nos.			
v)	One gang - Fan Dimmer	8	Nos.			
vi)	Two gang - Fan Dimmer	25	Nos.			
95-04E 8	SOCKETS Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and drawings, as per approved manufacturer list and approval by the Engineer.					
i)	13A, 3-pin universal Switch Socket outlet.	25	Nos.			
ii)	13A, 3-pin Simplex Switch Socket outlet.	30	Nos.			
iii)	13A, 3-pin Duplex Switch Socket outlet.	11	Nos.			
iv)	15A, 3-pin round Switch Socket outlet.	8	Nos.			
v)	Floor Box - Type B	16	Nos.			
95-04E 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.			
Sub- Total (Rs.)						

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Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
	PART-5: <u>EARTHING SYSTEM</u>					
95-04E 10	<u>Earth Electrode</u> Supply at site and installation of copper bonded steel earth electrodes, 10 feet long and 19.07 mm nominal dia including cost of all necessary materials, complete in all respects, as per specification.	3	Nos.			
95-04E 11	<u>Copper Conductor</u>					
a)	Supply, installation and connection of bare copper conductor 16 mm sq. in 38 mm dia PVC pipe where required from earth pit to earth connecting point for communication system & MCC. Work includes boring, soil, excavation, backfilling of earth, cad-welding at one end and provision of fixing of cable at ECP/ other end as shown in detail and as per specification and entire satisfaction with approval of Engineer.	20	R. ft			
b)	Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable in 38mm dia PVC conduit, 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, cadweld (where required), brass nuts, bolts, washers, all necessary accessories, complete in all respects.	40	R. ft			
c)	Supply, installation and connections of copper conductor 1x16 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from ECP to U-link box and from U-Link box to data patch panel, as per drawing or as per the instructions of the engineer. including cost of cadweld (where required) , brass nuts, bolts, washers, all necessary accessories, complete in all respects.	20	R. ft			
d)	Supply, installation and connection of bare copper conductor 2x50sqmm from building rerbars to earth connecting point at column for power supply system. Work includes boring , soil, excavation, backfilling of earth, cad-welding at one end and provision of fixing of cable at ECP/other end as shown in detail and as per specification and entire satisfaction with approval of Engineer.	15	R. ft			
e)	Supply, installation and connections of copper conductor 1x50 mm sq. 1-Core Cu/PVC cable, in 38mm dia PVC conduit, from earth connecting point to distribution board, as per drawing or as per the instructions of the engineer. including cost of cadweld (where required), brass nuts, bolts, washers, all necessary accessories, complete in all respects.	15	R. ft			
95-04E 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.			
95-04E 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.			

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Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
95-04E 14	Earth pit / Inspection Chamber Construction of Earth pit/ inspection chamber 375mm x 375mm x 450mm deep with 150mm thick wall and 330mm x 330mm heavy duty C.C Cover, complete in all respects, as per specification.	2	Nos.			
95-04E 15	Testing 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			
Sub- Total (Rs.)						
PART-6: TELEPHONE / VOICE SYSTEM						
95-04E 16	Telephone / Data Network a) Wiring for each telephone point from Utility box to telephone point with Cat 6 UTP in 25mm 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. b) Wiring for each data point from Utility box with Cat 6A UTP, to data point, including cost of 25mm 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. c) Wiring from Utility box with Four pair Cat 6A UTP, to data patch panel, including cost of 25mm 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. 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 ii) Duplex Outlet RJ 45	230 1200 150 23 3	R.ft R.ft R.ft Nos. Nos.			
95-04E 17	Utility Link Box Supply, Installation, testing and commissioning of Utility box, complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.	1	Nos.			
95-04E 18	Patch Panel a) Supply and installation of following Patch Panels complete in all respects as per the specifications and drawings and to the approval of the Engineer. i) 24 Port Patch Panel	1	Nos.			
95-04E 19	Telephone / Data Patch Cords a) Supply and connecting of telephone 2 Pair drop cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer. b) Supply and connecting of data CAT 6A patch cord complete in all respects as per the specifications and drawings and to the entire satisfaction of the Engineer. i) 1 meter long ii) 3 meter long	5 24 24	Nos. Nos. Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
95-04E 20	Communication Rack Supply installation of 6U 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.			
95-04E 21	Telephone Sets Supply and connection of following type of Telephone sets. a) Telephone with CLI Module b) Telephone without CLI Module	2 3	Nos. Nos.			
Sub- Total (Rs.)						
PART -7 Fire Alarm System						
95-04E 22	Fire Alarm System a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect. i) Smoke detector with buzzer ii) Heat detector with buzzer	12 0	Nos. Nos.			
Sub- Total (Rs.)						
PART -8 LIGHTNING PROTECTION SYSTEM						
95-04E 23	Roof Conductor 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.	700	R.ft.			
95-04E 24	Air terminal Supply, installation and connecting up of 1 x 15mm DIA SOUND ROUND COPPER 500mm 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.			
95-04E 25	Earth Electrode Supply at site and installation of Copper bonded steel earth electrodes ,19mm nominal dia including cost of all necessary materials, complete in all respects, as per specification. a. 3 meter long in single rod b. 1 meter long in single rod (For rocky areas only)	6 18	Nos. Nos.			
95-04E 26	Copper Conductor a) Connection of 50 sqmm. bare copper conductor cad welded with column steel rebars at one end with test link box as shown in drawings. b) Connection of 50 sqmm. bare copper conductor with test link box at one end and welded with copper earth electrode at other end as shown in drawings.	5 50	Nos. Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
95-04E 27	Copper Test Link 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 includes disconnecting link fuse model LK205 to be installed on the wall of columns, brass nuts bolts, washers, including cost of all necessary materials, complete in all respects as per drawing and specifications.	4	Nos.			
95-04E 28	CAD Welding Cad welding of column / foundation / roof rebars to form a continuous electrical path upto roof steel rebar including coating of anti rusting compound after cad welding to avoid corrosion and all accessories etc. complete in all respects (Note: Electrical continuity of re-bars shall be witnessed by site engineer/ client representative.)	12	Jobs			
Sub- Total (Rs.)						
PART -9 Public Address System						
95-04E 29	Amplifier a) Supply, installation, testing & commissioning of following type amplifier with three outputs, three microphone inputs and one music input, complete in all respect with wooden box and all installation accessories. i) 60W	2	Nos.			
95-04E 30	Speakers a) Supply, installation & commissioning of 10W wall mounted speaker with all accessories complete in all respects, as per approved manufacturer list. b) Supply, installation & commissioning of 10W wall mounted speaker (IP rated 65) with all accessories complete in all respects, as per approved manufacturer list.	2	Nos.			
95-04E 31	Microphone Cordless Microphone with SS Stand	2	Nos.			
95-04E 32	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 25mm dia PVC conduit complete in all respects upto maximum as shown in riser diagram.	200	R.ft.			
Sub- Total (Rs.)						
PART -10 EXTERNAL AREA LIGHTING						
95-04E33	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 1x12Watt LED lamp. b) Pierlite or equivalent Bollard Light Fixture in die cast aluminum body powder coated suitable for walkways with 12 WATT LED LAMP IP-65 including concrete foundation for mounting the fixture. c) Pierlite or equivalent P. 7362 - 200 fixture with 1 x12 WATT LED lamp IP-44	12	Nos.			
		2	Nos.			
		2	Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
95-04E34	Wiring & Conduiting a) Circuit Wiring and conduiting from DB to first light point with 1 x 2.5 sq.mm 3 core Cu/PVC insulated cable in 32 mm. dia UPVC Class D 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. b) Same as item (h) but wiring from light point to light point.	5 11	Nos. Nos.			
Sub- Total (Rs.)						
PART -11 MISCELLANEOUS WORKS						
95-04E 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 in 25mm dia PVC conduit, complete in all respects, as per the specifications and drawings and approval by the Engineer. 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.	45 1	Rft. Nos.			
95-04E 36	Handholes 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	5	Nos.			
95-04E 37	Utility / PTCL Connection a) Supply and co-ordination for the utility connection from WAPDA/HESCO/SEPCO 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/other Telecom company as per required demand. The telephone connection charges shall be paid separately as per actual on submission of receipt.	1 1	Job Job			
Sub- Total (Rs.)						
PART -12 SOLAR ROOM ELECTRIFICATION WORKS						
95-04E 38	LIGHT FIXTURES Supply, Installation, testing and commissioning of following light fittings, ceiling /wall mounted / with hanging arrangement made of fiber / plastic body. Complete with electronic ballast, lamp holders, power factor correction capacitor, internal wiring, earthing terminal, complete in all respects, as per approved manufacturer, fittings shall be duly approved by Engineer. a. Fluorescent Light TCW097 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 2	Nos. Nos.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs)		Amount (Rs)
				Figures	Words	
95-04E 39	<p>Switches & Fan Dimmers Supply and installation of following type gang switches of 10 Amp rating, including 16 SWG sheet steel back box recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respect, as per specifications and drawings and approval</p> <p>i) Four gang - 1 Way Switch</p>	1	Nos.			
95-04E 40	<p>SOCKETS Supply, installation, testing & commissioning of following type socket outlet including 16 SWG sheet steel back box of top quality recessed in wall (with earth terminal and 2 coats of antirust paint), complete in all respects, as per specifications and drawings</p> <p>i) 13A, 3-pin Duplex Switch Socket outlet.</p>	1	Nos.			
95-04E 41	<p>Fire Alarm System a) Supply, installation, testing and commissioning of following type Standalone fire detection devices including all accessories, as per approved manufacturer, complete with all respect. i) Smoke detector with buzzer</p>	1	Nos.			
95-04E 42	<p>Circuit Wiring & Conduiting a) Circuit Wiring and conduiting from DB to switch with 2 x 2.5 sq.mm 1 core Cu/PVC insulated cable + CPC 2.5 sq.mm 1 core Cu/PVC insulated cable in 25 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> <p>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 25 mm dia PVC conduit, complete with cables and conduits and all necessary accessories as per the specifications and drawings and approval by the Engineer.</p>	1 1 4	Nos. Nos. Nos.			
	Sub- Total (Rs.)					
	Total Cost for Electrical Works Pak Rs.					

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	PLUMBING WORKS (BUILDING)					
	PLUMBING FIXTURES					
	Supply and Installation of plumbing fixtures & faucets complete in all respects including all accessories, support, hangers, etc. ready to use as per specifications, drawings and instructions of Consultant.					
01-05P1	European style coupled water closet with seat cover, flush tank, tee cock C.P. (chrome plated) connector, thimble, etc. a. Type - EWC	5	No.			
01-05P2	Asian style water closet Orissa type with flush tank tee cock C.P. (chrome plated) connector, uPVC Class "E" flush pipe or as approved, thimble, P-Trap, etc.	16	No.			
01-05P3a	double bib cock brass, chromium plated	20	No.			
01-05P3b	single bib cock brass, chromium plated	4	No.			
01-05P4	Wash basin (WB) including CP P-trap/Bottle Trap, stop cock etc i. With half or full pedestal	11	No.			
01-05P5	Wash basin hot and cold water mixer, waste, etc for WB	20	Nos			
01-05P6	Toilet Hand Shower with flexible chain & telephone type shower Including tee stop cock etc complete in all respect. Type - TS	13	No			
01-05P7	Stainless steel lab. sink including stop cocks, P-trap, Bottle trap, waste pipe etc complete in all respects. SK - 1, 15" x 21" single bowl and single drainer.	4	No.			
01-05P8	Sink cold water tap swan neck, etc, for following. a. For SK-1	4	No.			
01-05P9	S.S Grease Trap 7.5 Kg capacity, inlet/outlet 2" Dia connections	Rate Only	No.			
01-05P10	Toilet accessories complete set, (Imported make) i. Soap dispenser ii. Toilet paper holder iii. Coat Hook iv. Mirror 5mm (Belgium) v. Paper Rack vi. Towel Rail vii. Stainless Steel Handrail for handicap toilet	6 13 6 120 6 6 6	No. No. No. Sft No. No. No.			
	Sub- Total (Rs.)					
01-05P11	Plumbing Water Supply 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) v) 1½" internal dia (63 mm outer dia) vi) 2" internal dia (75 mm outer dia) vii) 2½" internal dia (90 mm outer dia)	50 350 520 135 205 Rate Only Rate Only	Rft. Rft. Rft. Rft. Rft. Rft. Rft.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P12	Providing and installing gate/ball valves, Kitz or approved equivalent make, including jointing ,fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters. i) ¾" internal dia (32 mm outer dia) ii) 1" internal dia (40 mm outer dia) iii) 1¼" internal dia (50 mm outer dia) iv) 1½" internal dia (63 mm outer dia) v) 2" internal dia (75 mm outer dia) vi) 2½" internal dia (90 mm outer dia)	2 4 3 2 4 Rate Only	No No No No No No			
Sub- Total (Rs.)						
Plumbing Sewerage						
01-05P13	Providing, fixing , cutting, jointing and testing uPVC piping conforming to BS-4514 and BS 5255 including uPVC fittings with solvent cement jointing, rates include cost of clamping to walls and ceiling , hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter: 2" dia 3" dia 4" dia 6" dia	105 Rate Only 440 110	Rft Rft Rft Rft			
01-05P14	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.	49	No.			
01-05P15	Construction of rectangular brick masonry manhole of 2'-0"x2'-0" or specified sizes for sewer complete with plastering from internal and external side, PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, rungs, complete as per drawings.	5	Nos			
01-05P16	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.	4	No.			
01-05P17	Providing and fixing Clean Out complete in all respects	8	No.			
Water Cooler						
01-05P18	Providing and fixing drinking water cooler of capacity 60 gallons per hour including all accessories and making connections to water supply and drainage systems complete in all respects as per details in specifications	4	No.			
Sub- Total (Rs.)						
EXTERNAL DEVELOPMENT						
Septic Tank						
01-05P19	Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with 'B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer. 6" i/d (150 mm) 4" dia, pipe selevs in walls 6" dia, pipe selevs in walls	15 5 2	Rft. Nos Nos			
01-05P19A	Vent Pipe 4" dia as per drawing and specifications for Septic Tank complete in all respects, puddle flange, wiremesh at pipe face, specials as per drawing or directed by the Engineer.	2	Nos			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P20	Soakage Pit Providing, laying, cutting, jointing, testing uPVC pipe line of B.S.S. with 'B' Class working pressure pipe, in trenches, complete in all respects as per drawing or directed by the Engineer. 6" i/d (150 mm)	5	Rft.			
01-05P21	Ground Water Storage Tank Providing, laying, cutting, jointing, testing and disinfecting G.I. pipe (Heavy Quality) of B.S.S. 1387-1967 complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer. i) ¾" dia ii) 1½" dia iii) 2" dia, pipe seelves, 9' long	5 5 8	Rft. Rft. Nos			
01-05P22A	Overhead Water Storage Tank Vent Pipe 4" dia as per drawing and specifications for U.G.W. Tank, O.H.W. Tank complete in all respects, puddle flange, specials as per drawing or directed by the Engineer.	2	Nos			
01-05P22B	Providing, laying, cutting, jointing, testing and disinfecting brass pipe seelves/ connection pie with puddle including coupler (Heavy Quality) of approved as per B.S.S coads complete in all respects, with coupler, puddle flange, specials as per drawing or directed by the Engineer i) 1" dia, pipe seelves, 10" long ii) 1½" dia, pipe seelves, 10" long iii) 2½" dia, pipe seelves, 10" long	3 2 3	Nos Nos Nos			
01-05P23	Kanchan Arsenic Filter Filter Material. Providing & laying gravel, including screening and washing as per drawing or directed by the Engineer. Gravel size 6 mm to 15 mm.	21	Cft			
01-05P24	Providing & laying coarse sand, including screening and washing as per drawing or directed by the Engineer.	42	Cft			
01-05P25	Providing & laying fine sand, including screening and washing as per drawing or directed by the Engineer.	42	Sq. ft.			
01-05P26	Providing & fixing M.S sheet 1/4" thick, 1/8" Dia hole 2 inch c/c (Diffuser Plate), as per drawing or directed by the Engineer	37	Sq. ft.			
01-05P27	Providing & laying Dry rammed brick ballast 1-1/2" to 2" (40mm to 50mm) guage, including screening and washing as per drawing or directed by the Engineer.	9	Cft.			
01-05P28	Providing & laying iron nails with out coating (1" thick layer) as per drawing or directed by the Engineer.	125	Kg.			
01-05P29	Providing & fixing cover over Kanchan Filter of PVC sheet 1/2" thick, as per drawing or directed by the Engineer.	32	Sq. ft.			
01-05P30	Providing, laying, cutting, jointing, testing and disinfecting PPRC pipe including plastic shower heads with all fittings complete in all respects as per drawing or directed by the Engineer. i) ¾" internal dia (32 mm outer dia)	23	Rft.			
01-05P31	Providing and fixing Plastic Shower Heads	9	Nos			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
01-05P32	Tube Well / Penumatic Pump Boring for tubewell in all types of soil except shingle and rock, from ground level to 100 ft (30m) Depth, including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. i) 8"i/d (200mm)	100	Rft.			
01-05P33	Boring for tubewell in all types of soil except shingle and rock, from a depth of 100.1 to 200ft (30 to 60 m) below ground level,including sinking and withdrawing of casing pipe, complete in all respect and as directed by the Engineer. i) 8"i/d (200mm)	50	Rft.			
01-05P34	Providing and installing P.V.C. bail/End plug B.S.S. class 'D', in tubewell bore hole, complete in all respect and as directed by the Engineer. i)2" i/d (100mm)	1	Each.			
01-05P35	Providing and installing P.V.C. blind pipe B.S.S Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer, etc, complete in all respect and as directed by the Engineer. i) 1" i/d(25mm) ii) 1-1/4" i/d(30mm) iii) 2" i/d(50mm)	55 150 40	Rft. Rft. Rft.			
01-05P36	Providing and installing P.V.C. strainer B.S.S Class 'D' in tubewell bore hole, including sockets and solvents; etc, complete in all respect and as directed by the Engineer. i)2" i/d(50mm)	40	Rft.			
01-05P36	Providing and installing P.V.C. blind pipe B.S.S Class 'D' in tubewell bore hole, including sockets and solvents and jointing with strainer,complete in all respect and as directed by the Engineer. i) 4" i/d (100mm)	60	Rft.			
01-05P37	Testing and developing of bore hole, complete in all respect and as directed by the Engineer.	3	Per Hr.			
01-05P38	Shrouding with graded pea gravel 3/8" to 1/8" around tubewell in bore hole, complete in all respect and as directed by the Engineer.	45	Cft.			
01-05P39	Providing/fixing Injector valve as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	Each.			
01-05P40	Providing/fixing P.V.C. Cup/Cover as per B.S.S quality, complete in all respect and as directed by the Engineer.	1	No.			
01-05P41	Providing/fixing Pneumatic Pump (having 4 impellers capable to carry a discharge of 400 gals/hr against 90 ft head and 3 HP Motor), complete in all respect and as directed by the Engineer.	1	Set.			

BILL OF QUANTITIES

Item	Item Description	Quantity	Unit	Rate (Rs.)		Amount (Rs)
				Figures	Words	
	EXTERNAL PIPING					
	<u>Plumbing Water Supply</u>					
01-05P42	Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for water supply as per DIN 8077-8078 for pipes and DIN 16962, PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.					
	i) ½" internal dia (20 mm outer dia)	Rate Only	Rft.			
	ii) ¾" internal dia (32 mm outer dia)	30	Rft.			
	iii) 1" internal dia (40 mm outer dia)	150	Rft.			
	iv) 1¼" internal dia (50 mm outer dia)	130	Rft.			
	v) 1½" internal dia (63 mm outer dia)	13	Rft.			
	vi) 2" internal dia (75 mm outer dia)	Rate Only	Rft.			
	vii) 2½" internal dia (90 mm outer dia)	Rate Only	Rft.			
01-05P43	Providing and installing gate/ball valves, Kitz or approved equivalent make, including jointing, fitting, painting, testing, complete in all respects to match with following PPRC pipe diameters.					
	i) ¾" internal dia (32 mm outer dia)	2	No			
	ii) 1" internal dia (40 mm outer dia)	4	No			
	iii) 1¼" internal dia (50 mm outer dia)	3	No			
	iv) 1½" internal dia (63 mm outer dia)	0	No			
	v) 2" internal dia (75 mm outer dia)	Rate Only	No			
	vi) 2½" internal dia (90 mm outer dia)	Rate Only	No			
	<u>Plumbing Sewerage</u>					
01-05P44	Providing, fixing, cutting, jointing and testing uPVC piping conforming to BS-4514 and BS 5255 including uPVC fittings with solvent cement jointing, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter:					
	2" dia	Rate Only	Rft.			
	3" dia	Rate Only	Rft.			
	4" dia	32	Rft.			
	6" dia	430	Rft.			
01-05P45	Providing and fixing 4" dia Floor Drain with P-Trap, Stainless Steel grating, and cover.	Rate Only	No.			
01-05P46	Construction of rectangular brick masonry manhole of 2'x2' for sewer complete with plastering from internal and external side, PCC 1:2:4 base slab, benching with 1:3 cement sand mortar including 18" dia manhole cover and frame, rungs, complete as per drawings.	Rate Only	No.			
01-05P47	Providing and constructing gully trap of size 6" x 6" at locations shown on drawings with cover, complete in all respects.	Rate Only	No.			
01-05P48	Providing and fixing Clean Out complete in all respects	Rate Only	No			
	<u>Water Supply Pump For GST</u>					
01-05P49	Supply at site, installation, testing and commissioning of water supply reciprocating pump with 2HP motor as per specification complete in all respect.	2	No			
	Sub- Total (Rs.)					
	Total Cost for Plumbing Works Pak Rs.					

4 – DAYWORK SCHEDULES

Daywork Schedules

General

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

Daywork Labour

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

Daywork Material

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

Daywork Constructional Plant

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

SINDH BASIC EDUCATION PROGRAM

Package No: SBEP P-15-KHI-2

Construction of Four (04) Schools in Karachi (Orangi, Lyari & Kemari Towns)

Appendix-D to Bid

SUMMARY OF DAYWROK COST

Sr No.	Description	GBPS Frontier Colony No. 1	GBSS No.9 Sector 8/L	GBPS Gulistan Colony	GBPS Weeharabad
		Amount (Rs.)	Amount (Rs.)	Amount (Rs.)	Amount (Rs.)
(i)	Total Daywork: Labour				
(ii)	Total Daywork : Materials				
(iii)	Total Daywork: Constructional Plant				
Total Cost of Daywork: (Carried forward to Main Summary)					

SINDH BASIC EDUCATION PROGRAM

Package No: SBEP P-15-KHI-2

Construction of Four (04) Schools in Karachi (Orangi, Lyari & Kemari Towns)

Appendix-D to Bid

SCHEDULE OF DAYWORK RATES

I. Labour

Item No.	Description	Unit	Rate (Rs)	GBPS Frontier Colony No. 1		GBSS No.9 Sector 8/L, Orangi		GBPS Gulistan Colony		GBPS Weeharabad	
				Nominal QTY	Amount (Rs.)	Nominal QTY	Amount (Rs.)	Nominal QTY	Amount (Rs.)	Nominal QTY	Amount (Rs.)
D101	Ganger	Hr		10		17		10		10	
D102	Labourer	Hr		100		160		100		100	
D103	Brick layer	Hr		10		17		10		10	
D104	Mason	Hr		10		17		10		10	
D105	Carpenter	Hr		10		17		10		10	
D106	Steel work Erector	Hr		10		17		10		10	
D113	Driver for vehicle up to 10 tons	Hr		50		51		50		50	
D114	Operator for excavator, dragline, shovel or crane	Hr		10		17		10		10	
D115	Operator for tractor, (tracked) with dozer blade or ripper	Hr		10		17		10		10	
Sub Total (A)											
Allow % percent on subtotal (A) for Contractor's overhead, profit etc. in accordance with Paragraph 3 (b) of Daywork Schedule			% allowed →								
			Amount of % :								
Total Amount for Daywork (Labour): (carried to Daywork Summary)											

SINDH BASIC EDUCATION PROGRAM

Package No: SBEP P-15-KHI-2

Construction of Four (04) Schools in Karachi (Orangi, Lyari & Kemari Towns)

Appendix-D to Bid

SCHEDULE OF DAYWORK RATES

II. Materials

Item No.	Description	Unit	Rate (Rs)	GBPS Frontier Colony No. 1		GBSS No.9 Sector 8/L, Orangi		GBPS Gullistan Colony		GBPS Weeharabad	
				Nominal QTY	Amount (Rs.)	Nominal QTY	Amount (Rs.)	Nominal QTY	Amount (Rs.)	Nominal QTY	Amount (Rs.)
D201	Cement, ordinary Portland or equivalent in bags	M.Ton		5		5		5		5	
D202	Mild Steel reinforcing bar upto 16mm diameter to BS 4449 or equivalent	M.Ton		2		5		2		2	
D203	Fine aggregate for concrete as specified.	Cu.M		15		20		15		15	
D204	Course aggregate for concrete as specified.	Cu.M		30		40		30		30	
Sub Total (A)											
Allow % percent of subtotal (A) for Contractor's overhead, profit, etc, in accordance with Paragraph 4 (b) of Daywork Schedule			% allowed →								
			Amount of % :								
Total Amount for Daywork (Material): (carried to Daywork Summary)											

SINDH BASIC EDUCATION PROGRAM

Package No: SBEP P-15-KHI-2

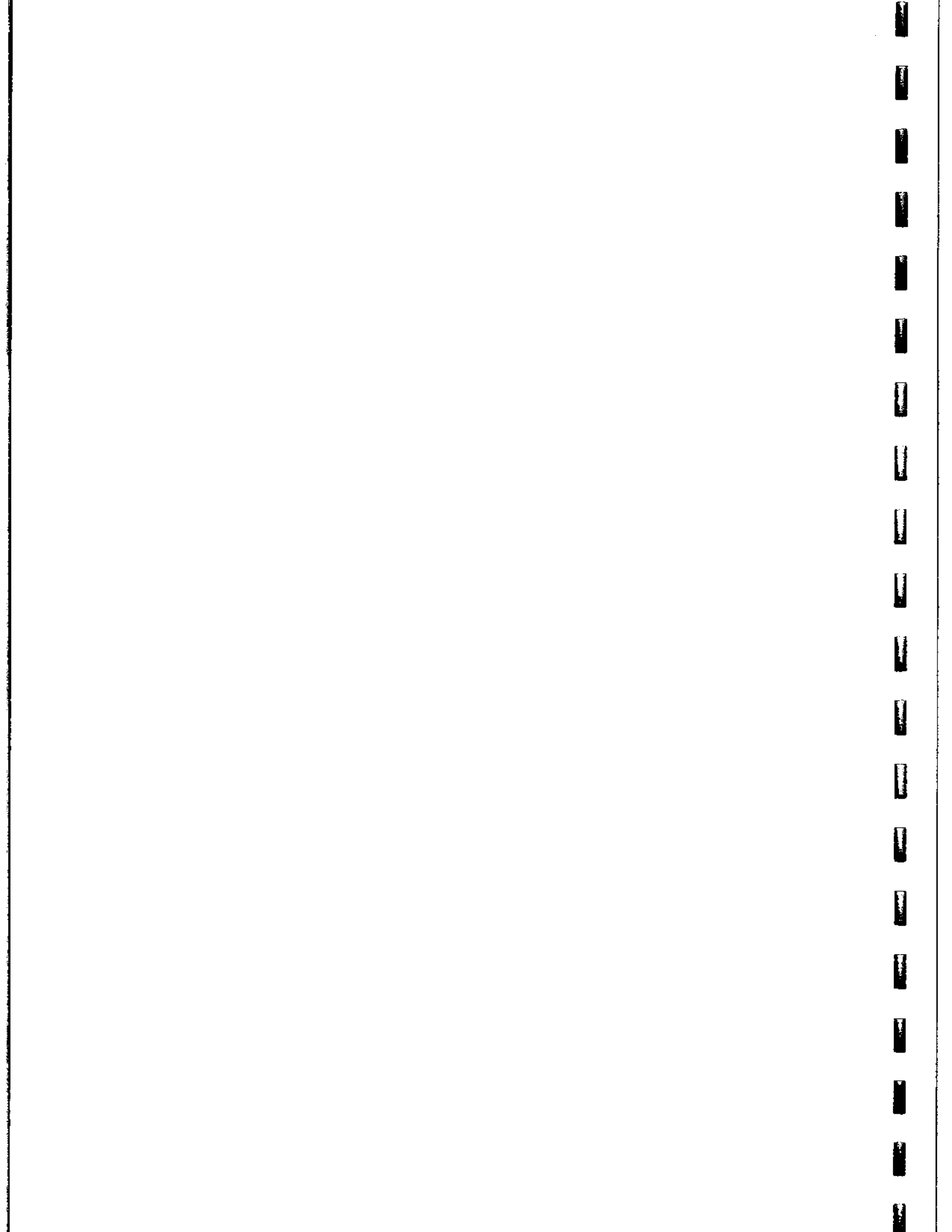
Construction of Four (04) Schools in Karachi (Orangi, Lyari & Kemari Towns)

Appendix-D to Bid

SCHEDULE OF DAYWORK RATES

III. Constructional Plant

Item No.	Description	Unit	Rate (Rs)	GBPS Frontier Colony No. 1		GBSS No.9 Sector 8/L, Orangi		GBPS Gulistan Colony		GBPS Weeharabad	
				Nominal QTY	Amount (Rs.)	Nominal QTY	Amount (Rs.)	Nominal QTY	Amount (Rs.)	Nominal QTY	Amount (Rs.)
D301	Excavator, face shovel or dragline:										
1	Up-to and including 1 Cu.M	Hr		10		16		10		10	
2	Over 1 Cu.M to 2 Cu.M	Hr		5		7		5		5	
3	Over 2 Cu.M	Hr		5		7		5		5	
D302	Tractor (tracked) including bull or angle dozer:										
1	Up-to and including 150 HP	Hr		10		16		10		10	
2	Over 150 to 200 HP	Hr		10		16		10		10	
3	Over 200 to 250 HP	Hr		5		7		5		5	
D303	Tractor with ripper:										
1	Up-to and including 200 HP	Hr		10		16		10		10	
2	Over 200 to 250 HP	Hr		5		7		5		5	
D304	Any other equipment										
1	Up-to and including 200 HP	Hr		10		16		10		10	
Total Amount of Daywork for Const. Plant (carried to Daywork Summary):											



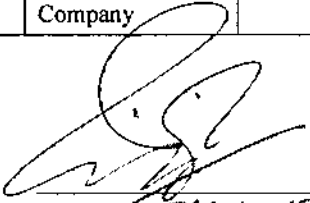
BID EVALUATION REPORT

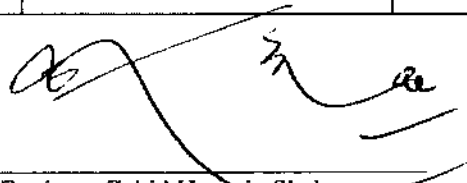
(In compliance to Rule 45 of SPP Rules 2010)


1. Name of Procuring Agency:	Program Management & Implementation Unit, Sindh Basic Education Program, School Education Department, Government of Sindh.
2. Tender Reference / Package No:	SBEP-P15-KHI-II
3. Tender Description/ Name of Work/Item:	Package-15: Construction of Four (04) Schools in Karachi (Orangi, Lyari & Kemari Towns)
4. Method of Procurement:	Single Stage One Envelope Bidding Procedure (Post-Qualification)
5. Tender Published:	Tender published in Daily Dawn (English) on 12-05-2017, Daily Jang (Urdu) on 15-05-2017 & Daily Kawish (Sindhi) on 15-05-2017.
6. Total Bid documents issued:	Uploaded on SBEP & SPPRA Websites
7. Total Bids Received:	03
8. Technical Bid Opening date (if applicable):	N/A
9. No of Bids Technically qualified:	01
10. Bid(s) Rejected:	01
11. Financial Bid Opening date:	13 th June 2017 at 11.30 am

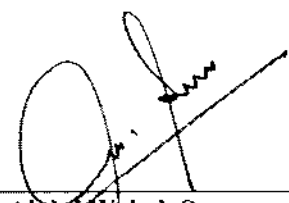
12. Bid Evaluation Report:

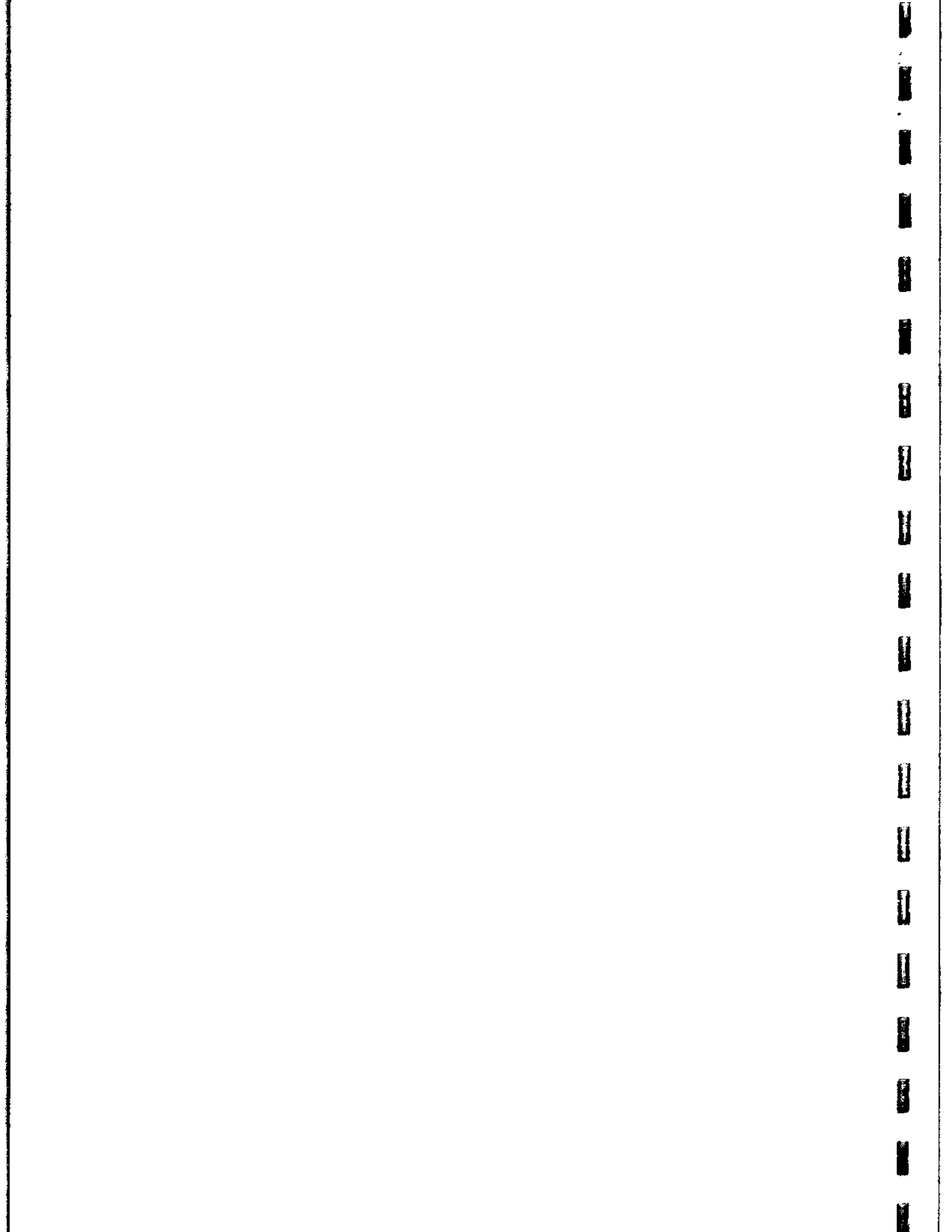
S #	Name of Firm or Bidder	Final Evaluated Bid Price (PKR)	Ranking in terms of cost	Comparison with Estimated Cost	Reasons for acceptance/ rejection	Remarks
1	M/s. Shoukat Khan & Company	266,020,843/-	1 st Lowest	- 03.53%	1 st lowest evaluated responsive & technically qualified Bidder with acceptable market rates	Recommended for award of work
2	M/s. Echo-West International (Pvt.) Limited	292,084,795/-	2 nd Lowest	+ 07.17%	2 nd lowest evaluated, responsive Bidder but higher rates.	---
3	M/s. Bilal Construction Company	Non-Responsive			The firm is registered in Category C-3 which is less than required.	Rejected


Program Manager, Support Services
PMIU-SBEP, School Education Department,
Government of Sindh
(Member, Procurement Committee)


Engineer Zahid Hussain Shah,
Superintendent Engineer (EWs),
School Education Department,
Government of Sindh
(Member, Procurement Committee)


Sobhail Shamim Siddiqui
Chief of Party,
M/s. Halcrow Pakistan (Pvt.) Ltd.
(Co-Opted Member)


Abdul Wahab Soomro
Program Director, PMIU-SBEP
School Education Department, Government of Sindh
(Chairman, Procurement Committee)



SINDH BASIC EDUCATION PROGRAM

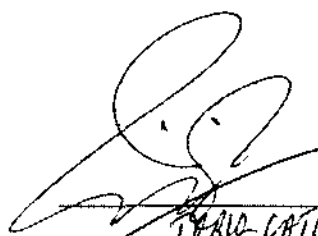
CONSTRUCTION OF NEW SCHOOLS & UPGRADATION OF EXISTING SCHOOLS


Package No: SBEP-P15-KHI-2

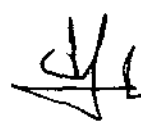
Construction of Four (04) Schools in Karachi (Orangi, Lyari & Kemari Towns)

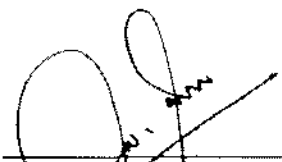
SUMMARY OF TENDERED COST

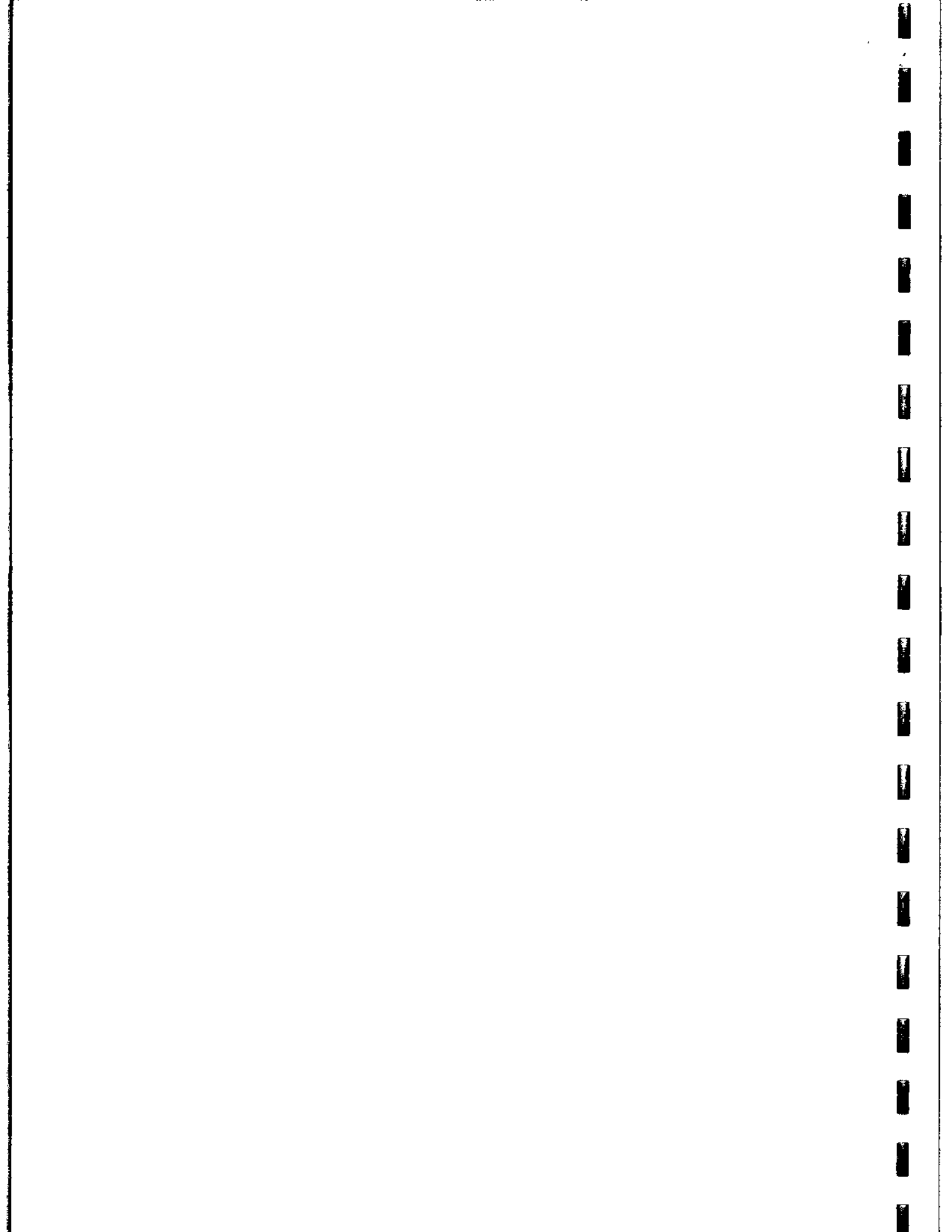
S. No	School Name	Engineer's Estimate	M/s. Echo West International (Pvt.) Ltd	%Age Diff	M/s. Shoukat Khan & Company	%Age Diff	M/s. Bilal Construction Company	%Age Diff
1	GBPS Frontier Colony No.1 (Orangi Town)	67,571,696	72,194,421.40	6.84%	64,890,072.25	-3.97%	Non Responsive	
2	GBSS No.9 Sector 8L (Orangi Town)	67,512,121	72,510,419.40	7.40%	65,026,387.25	-3.68%		
3	GBPS Gulistan Colony (Lyari Town)	70,204,234	74,419,830.40	6.00%	67,391,307.25	-4.01%		
4	GBPS Weeharabad (Kemari Town)	68,286,192	73,043,899.54	6.97%	65,812,965.25	-3.62%		
	Daywork cost (Cumulative of all Schools)	2,178,280	3,116,224.75		2,900,111.40			
	Sub-Total - A:	275,752,524	295,284,795.49	7.08%	266,020,843.40	-3.53%		
	Subtracting Amount of Provisional Sum for comparison	(3,200,000)	(3,200,000.00)		(3,200,000.00)			
	Sub-Total - B:	272,552,524	292,084,795.49	7.17%	262,820,843.40	-3.57%		
	Rebate offered (if any) Rs. Rebate %	-						
	Amount After Rebate (Rs.)	272,552,524	292,084,795.49	7.17%	262,820,843.40	-3.57%		
	Adding Provisional Sum in the bid price of lowest evaluated Bidder: M/s. Shoukat Khan & Company	3,200,000			3,200,000.00			


 Program Manager Support Services
 PMIU-SBEP, School Education Department
 Government of Sindh
 (Member, Procurement Committee)


 Engineer Zahid Hussain Shah,
 Superintendent Engineer (EWs),
 School Education Department,
 Government of Sindh
 (Member, Procurement Committee)


 Sohail Shamim Siddiqui
 Chief of Party,
 M/s. Halcrow Pakistan (Pvt.) Ltd
 Co-Opted Member


 Abdul Wahab Soomro
 Program Director, PMIU-SBEP
 School Education Department, Government of Sindh
 Chairman & Convener of Committee






Sindh Basic Education Program - SBEP
Package-15: Construction of Four (04) Schools in Karachi (Orangi, Lyari & Kemari Towns)
Bid Reference No: SBEP-P15-KHI-II


Bid Evaluation Report


Consolidated Result Summary - Detailed Technical Evaluation of submitted Bids for Pkg-15


Minimum Qualification Criteria = Equal to or above 50% marks in each category & 70% Cumulatively

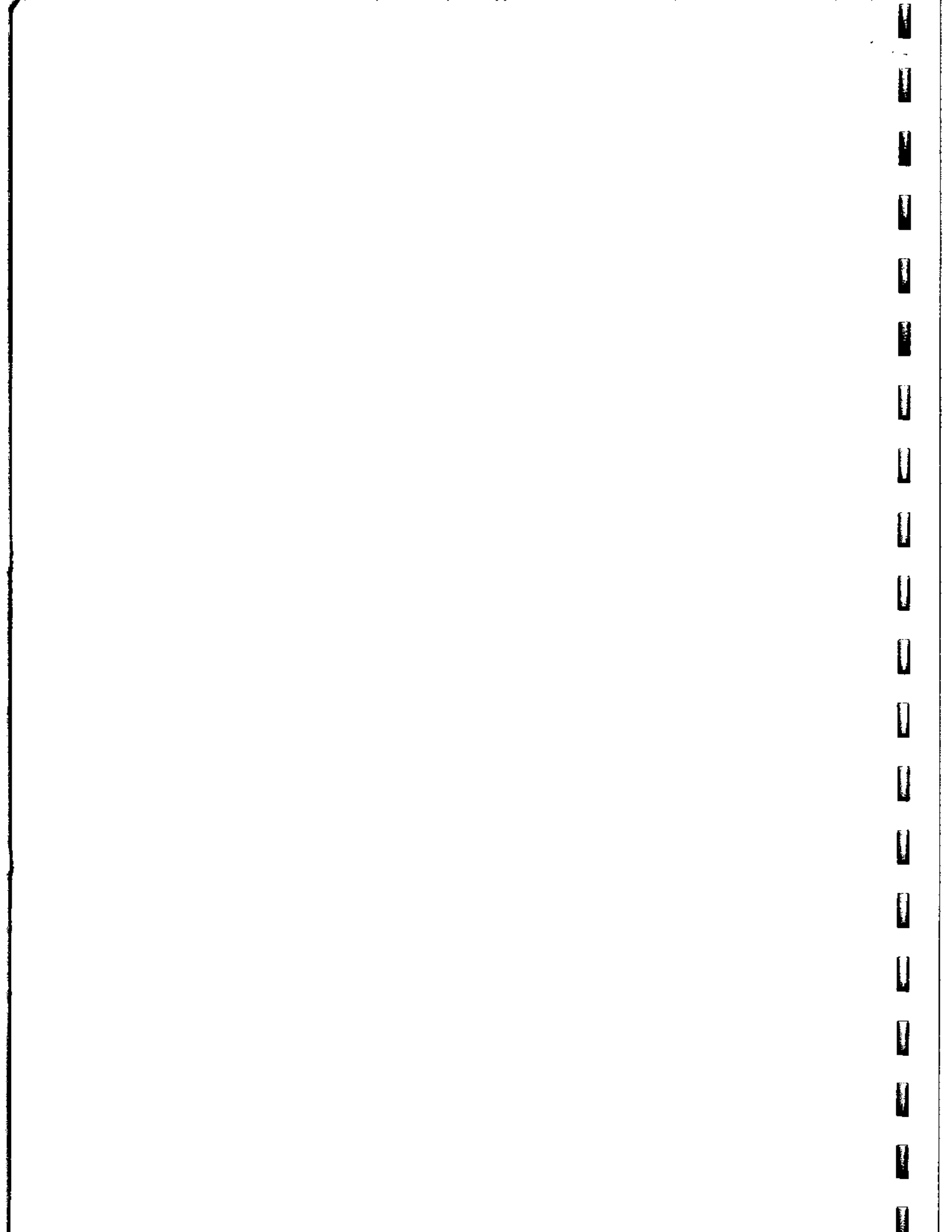
Doc #	Name of Company	Mandatory Info	Financial Soundness		Experience Record		Personnel Capabilities		Equipment Capabilities		Other Factors					Total Marks Obtained out of	min >70%	Remarks		
			marks	min >50%	marks	min >50%	marks	min >50%	marks	min >50%	QA/QC Plan	Gen Work Plan	Material Sources	HSE Plan	Total Obtained				min >50%	
			20	10	30	15	25	12.5	10	5	5	3	2	5	15				7.5	100
1	M/s. Shoukat Khan & Company	Provided	20	PASS	18	PASS	18	PASS	7	PASS	2.5	3	0	2.5	10	PASS	81	PASS	> 1 st lowest evaluated responsive & Technically Qualified Bidder	
2	M/s. Echo-West International (Pvt.) Ltd.	Provided	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	> 2 nd lowest evaluated responsive Bidder > The Bidder technically not evaluated as per procedure of Post Qualification laid down under clause: 28 of Bidding Data (Volume-I, Bidding Documents)
3	M/s. Bilal Construction Company		NON-RESPONSIVE																	

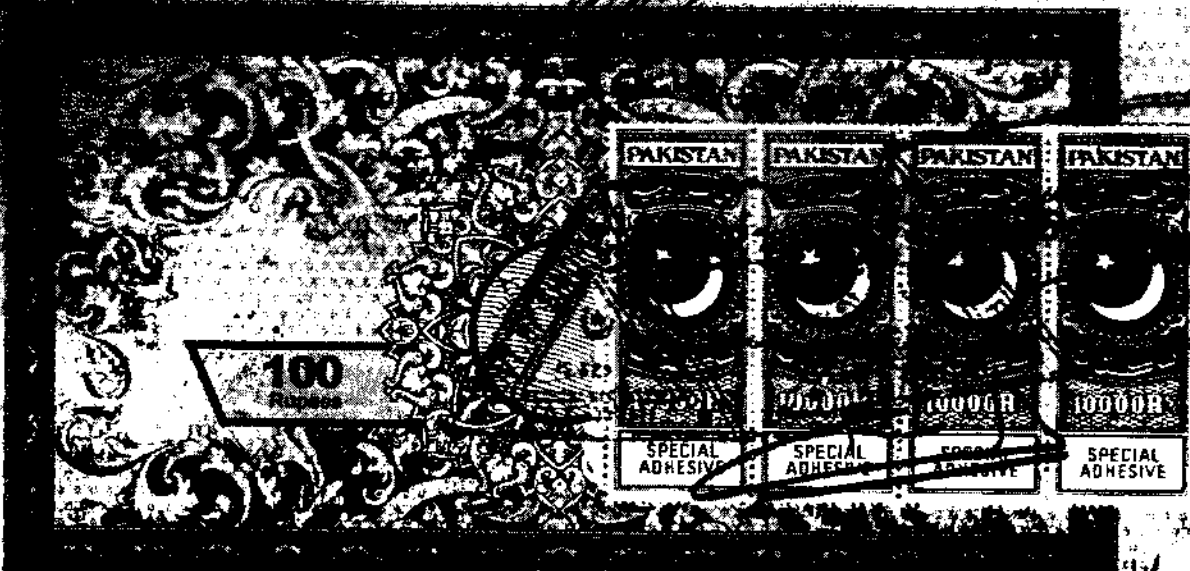

M. ALI LATIF
 Program Manager Support Services
 PMU-SBEP, School Education Department
 Government of Sindh
 (Member, Procurement Committee)


Engineer Zahid Hussain Shah,
 Superintendent Engineer (EWs),
 School Education Department,
 Government of Sindh
 (Member, Procurement Committee)


Sohail Shamim Siddiqui
 Chief of Party, @
 M/s. Halcrow Pakistan (Pvt.) Ltd
 Co-Opted Member


Abdul Wahab Soomro
 Program Director, PMU-SBEP,
 School Education Department, Government of Sindh
 (Chairman, Procurement Committee)





UNIS AHMAD STAMP VENDOR
S.V. G.C. Rd. 29, Suit No. 223, 11th Floor,
Taher Plaza, City Courts, Karachi

19 SEP 2017

(RUPEES ONE HUNDRED ONLY)

S. No. 9806 DATE
ISSUED TO WITH ADDRESS
BOUGHT WITH ADDRESS SHARZAD AHMED SIDDIQI
PROFESSION ADVOCATE
VALUE RS. 100/- ATTACHED 19/09/2017 K.B.A
STAMP VENDOR'S SIGNATURE

CONTRACT AGREEMENT

Contract Amount: PKR. 266,020,843/-
Bid Reference: SBEP—P15-KHI-2
Letter of Award: SBEP/PD/PROC/3598/2017, Dated: 28/08/2017

THIS CONTRACT AGREEMENT (hereinafter called the "Agreement") made on the _____ day of September 2017 between Program Management and Implementation Unit (PMIU) Sindh Basic Education Program, School Education & Literacy Department, Government of Sindh (hereafter called the "Procuring Agency / Employer") of the one part and M/s Shoukat Khan & Company having office at Lalazar Colony, near Al Farooqia mosque, opposite Askari Bank, Mansehra Road, Abbottabad. Ph. 092340058, 0345-3914447 (hereafter called the "Contractor") of the other part.

WHEREAS the Procuring Agency / Employer is desirous that certain Works, viz Construction of New Schools for up-gradation of existing schools in seven districts of Sindh and selected towns/areas of Karachi under Sindh Basic Education Program (SBEP) Package No: SBEP-P15-KHI-2: Construction of Four (04) Schools in Karachi (Orangi, Lyari & Kemari Towns)

- 1) P15- KHI-127 (GBPS Frontier Colony No. 1, Orangi Town)
- 2) P15- KHI-128 (GBSS No.9 Sector 8/L, Orangi Town)
- 3) P15- KHI-129 (GBPS Gulistan Colony, Lyari Town)
- 4) P15- KHI-130 (GBPS Wecharabad, Kemari Town)

Signature of Shoukat Khan & Company
Stamp: SHOUKAT KHAN & COMPANY
Stamp: PMIU Sindh Basic Education Program
Stamp: Government of Sindh





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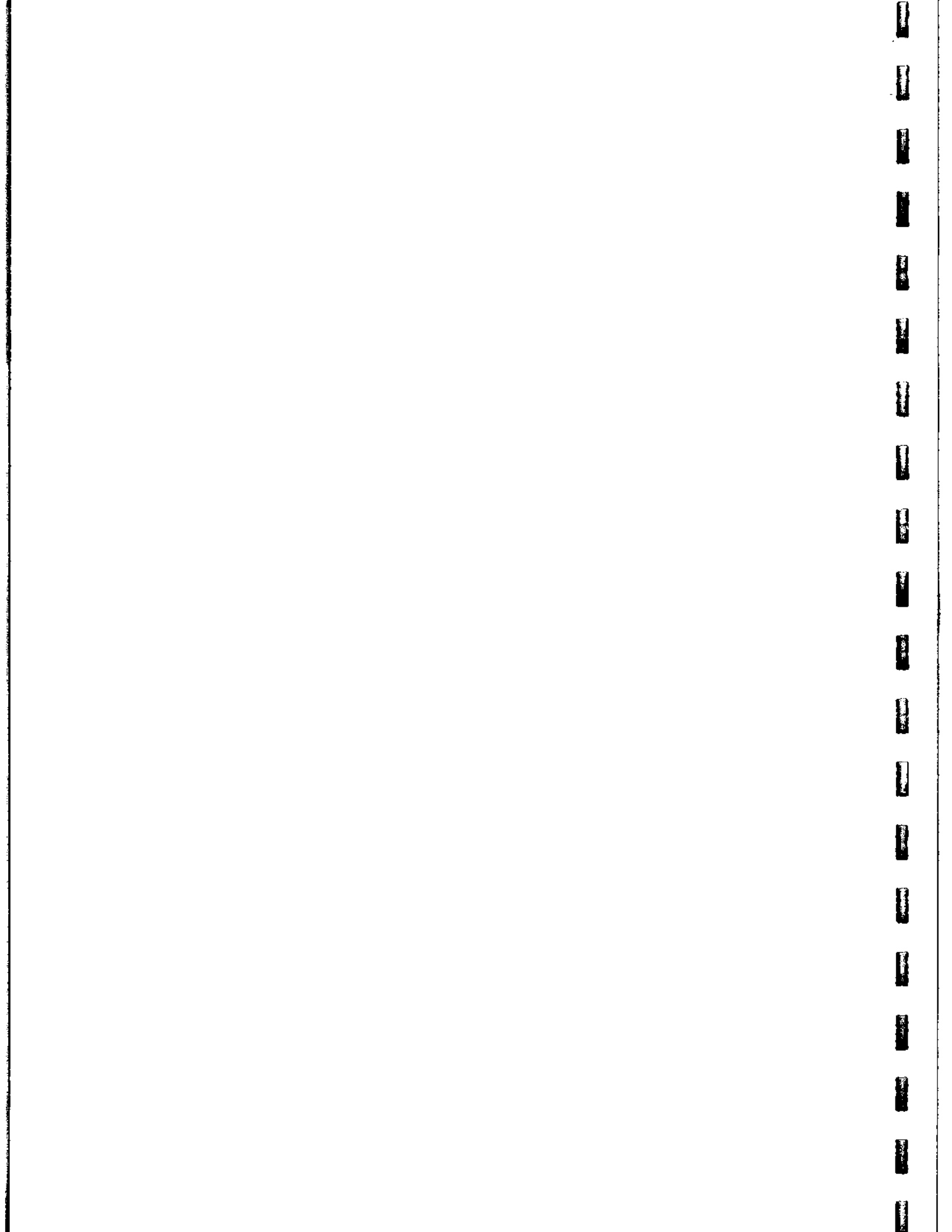
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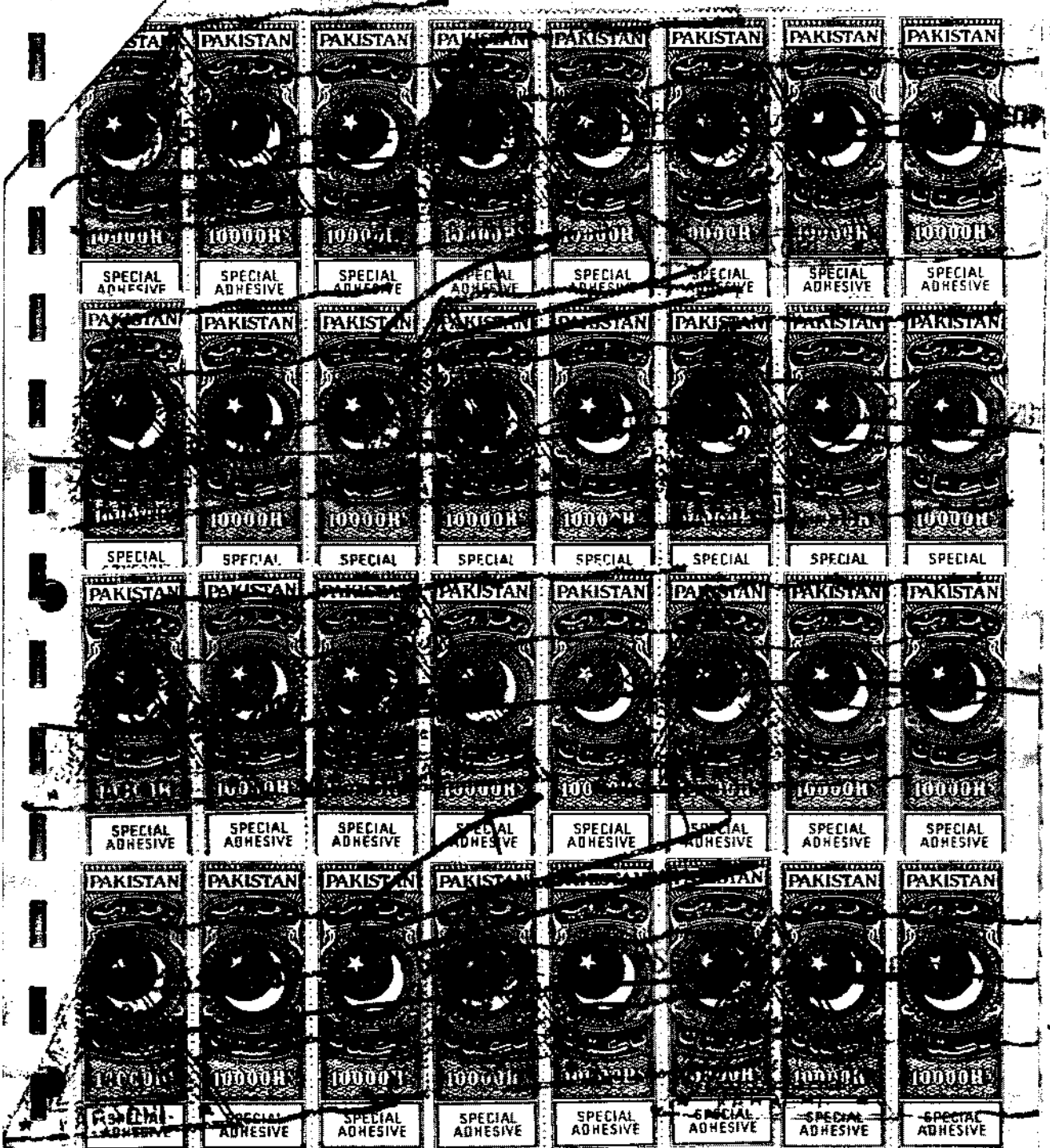
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Construction of double storey building with complete civil works including structural, architectural, plumbing, water supply, sewerage networks and related electrical & mechanical works along with landscaping works, boundary wall as described in the drawings and Bill of Quantities in detail. Foundations including Backfilling, Plinth Beams and few Slabs and Super Structure Columns are already constructed as shown in the drawings/sketches, should be completed by the Contractor and has accepted a Bid by the Contractor for the execution and completion of the above works and the remedying of any defects therein.



[Handwritten signature]
 Program Manager
 M. A. H. & COMPANY
 M. A. H. & COMPANY





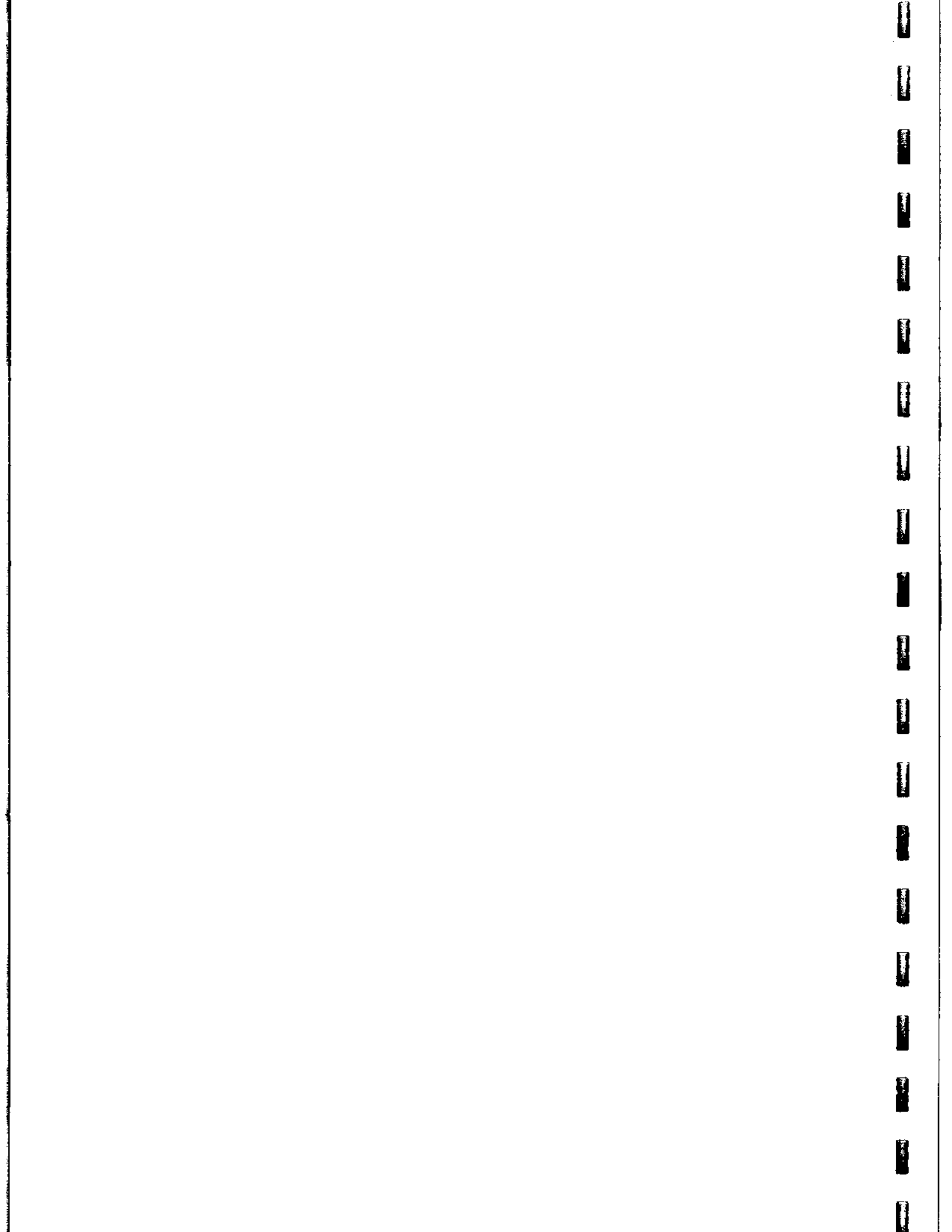
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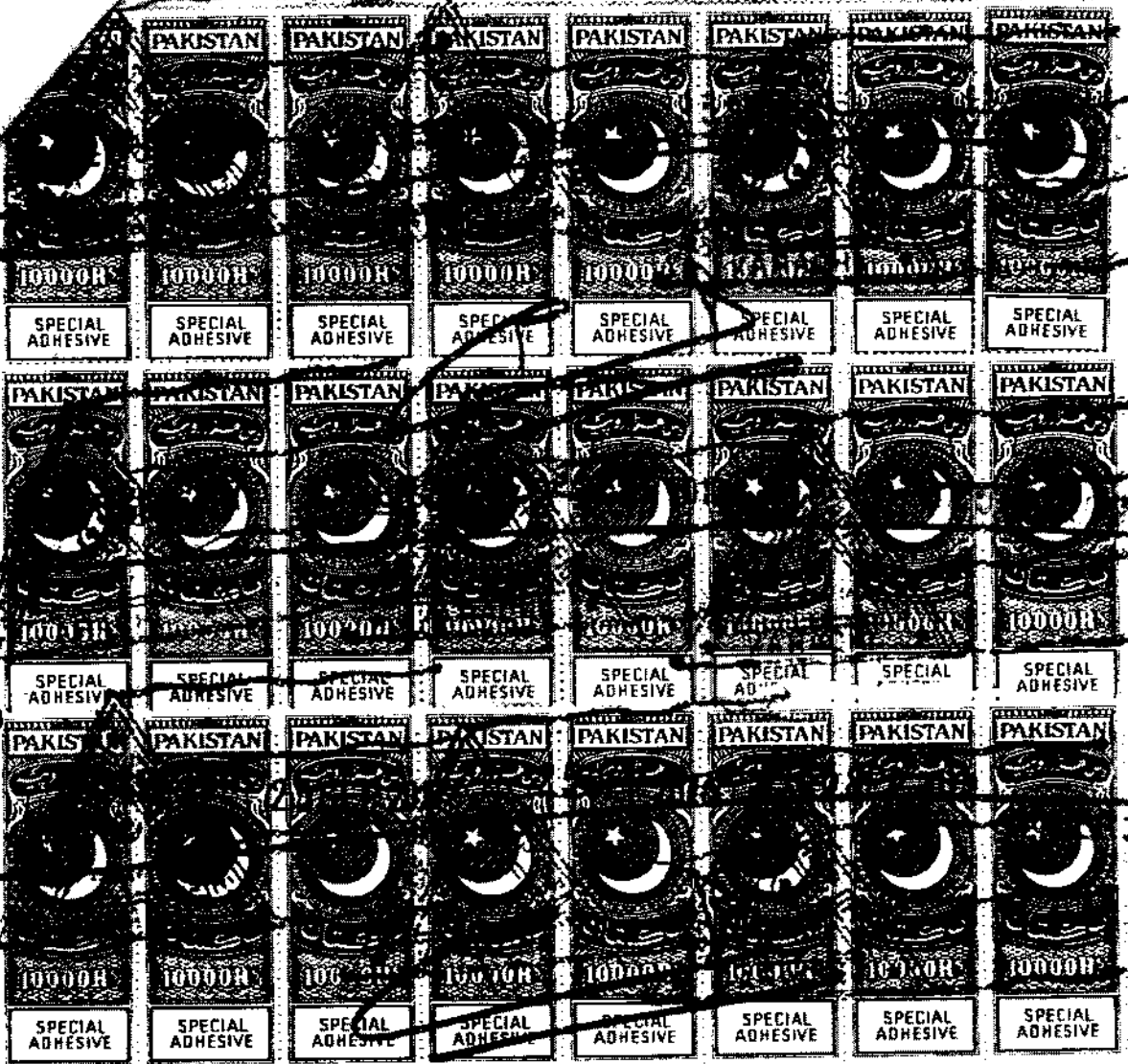
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NOW this Agreement witnessed as follows:

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 Bid, are deemed to form and be read and construed as part of this Agreement, viz:

[Handwritten signature]
Project Manager
with Basil Education
Equipment of ...
[Circular stamp: NATIONAL BANK OF PAKISTAN COMPANY]





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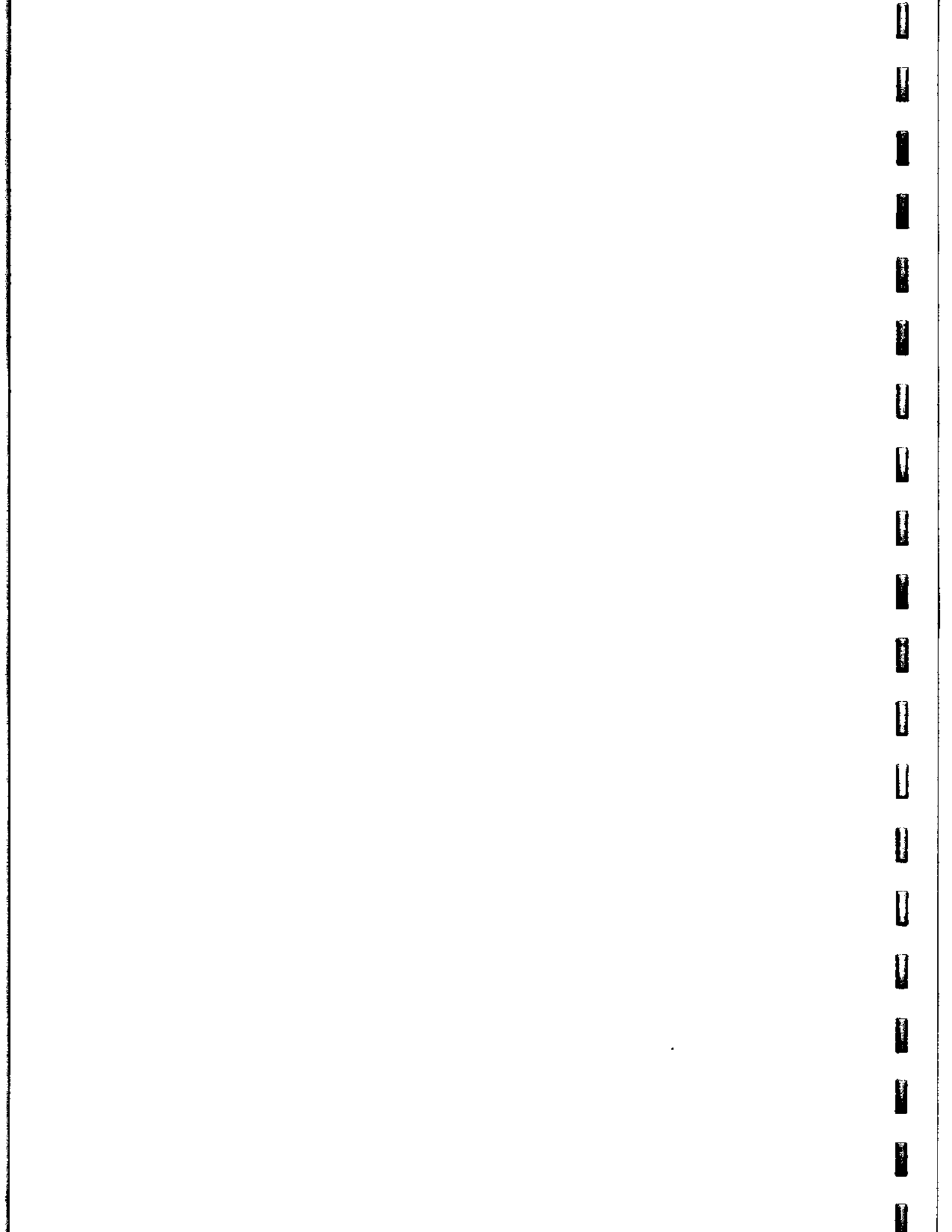
dv

- (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) Acceptance of the Minutes of Pre Bid Meeting)
- (l) Any other document NIL



[Handwritten Signature]
 Program Director
 Public Administration Program
 Government of South

Page 6



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Special Adhesive
Stamp Office, City Court
Karachi

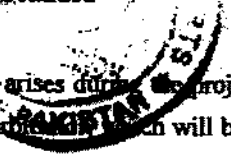
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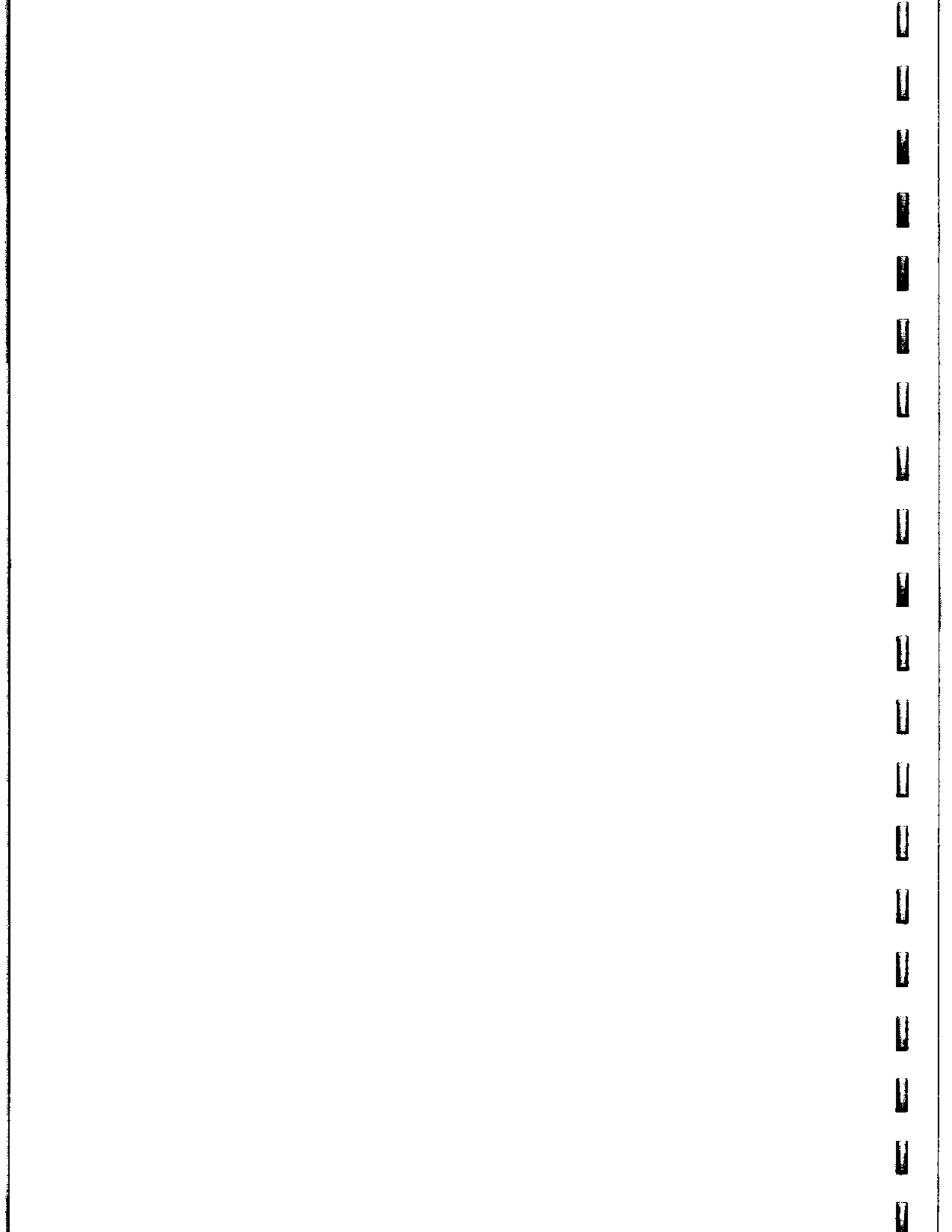


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3. In consideration of the payments to be made by the Procuring Agency / Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Procuring Agency / Employer to execute and complete the Works and remedy defects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



Handwritten signature
Program Director
Sindh Basic Education Program
Government of Sindh




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

Signature of the Contractor



Signature of Procuring Agency / Employer


*Program Director
Health & Education Program
Government of Sindh*

Name: Engr. Muhammad Riaz
M/s. Shoukat Khan & Company

Designation: Manager Contracts

CNIC: 13507-26836-7

(Seal)



Name: Abdul Wahab Soomro (PAS)

SBEP PMIU, SE&LD, GoS

Designation: Program Director

CNIC:

(Seal)

Signed, Sealed and Delivered in the presence of:

Witness:



Name: Mujahid

Title: Admin Officer

Address: Flat 947, St # 3 Sher Shah Karachi.

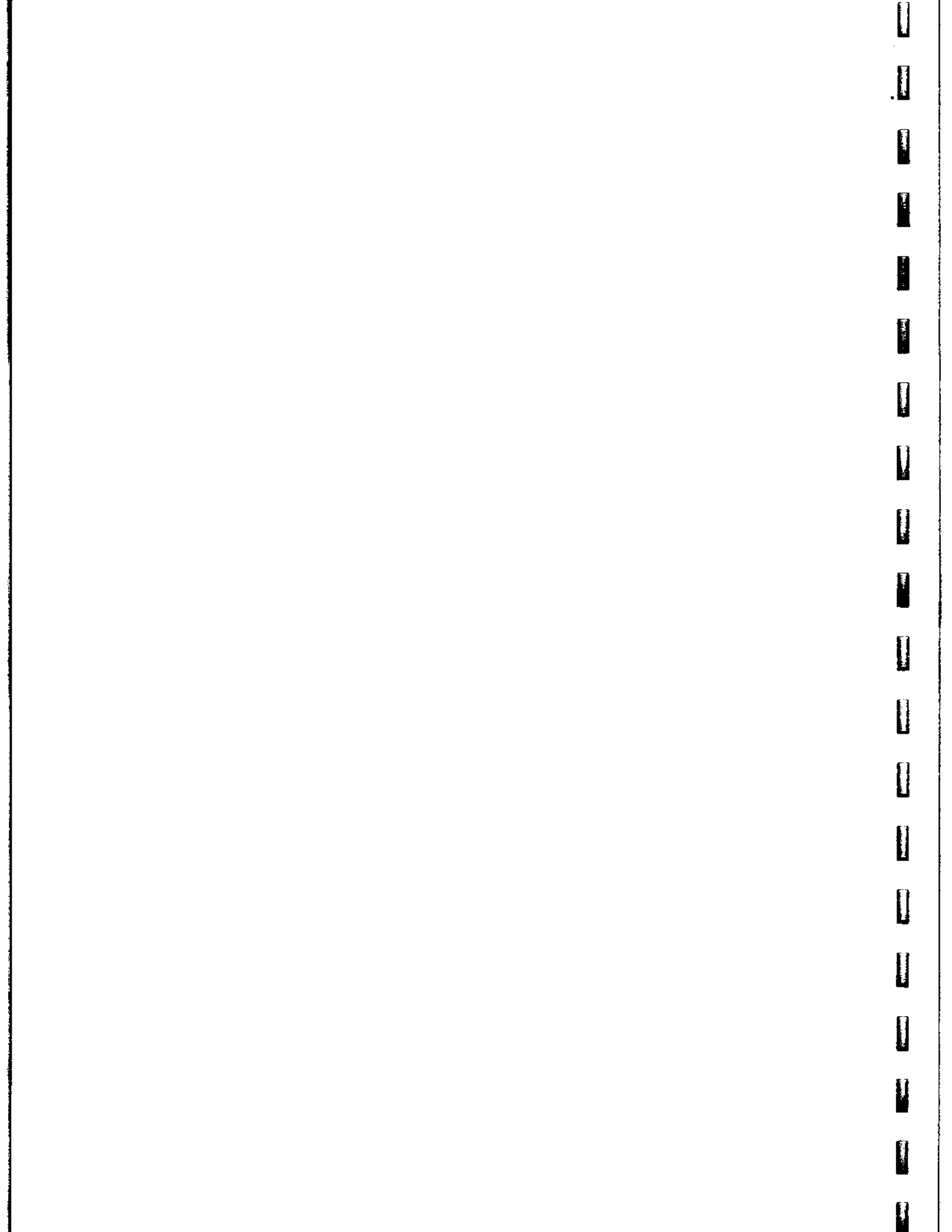
Witness:



Name: Amir Muneer

Title: Documentation Engineer

Address: D-29, Block 2, Clifton, Karachi.



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