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Issued By : _____

SINDH PARLIAMENTARIANS RESIDENCES

NAME OF PROJECT:

CONSTRUCTION OF SINDH PARLIAMENTARIANS RESIDENCES KARACHI (TOWER - B)

BIDDING DOCUMENTS (VOLUME - I)

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CONSULTANT



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1. BIDDING DRAWINGS

INVITATION TO BIDDERS

INSTRUCTIONS TO BIDDERS

INSTRUCTIONS TO BIDDERS

(Note: These Instructions to Bidders along with Bidding Data Sheet 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 Procuring agency as defined in the bidding data hereinafter called "the procuring agency" wishes to receive bids for the Supply and Fixing 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 Procuring agency has received/ allocated/] applied for loan/grant/ Federal/ Provincial/ Local Government funds from the source(s) indicated in the bidding data in various currencies towards the cost of the project /scheme specified in the bidding data, and it is intended that part of the proceeds of this loan/grant/funds will be applied to eligible payments under the contract for which these bidding documents are issued.

IB.3 Eligible Bidders

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

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

(a) Bidders may be excluded if;

- (i) as a matter of law or official regulations, commercial relations are prohibited with the bidder's country by the federal government in case of ICB, or
- (ii) a firm is blacklisted/ debarred by the procuring agency and the matter has been reported to the Authority, subject to Rule 30 of Sindh Public Procurement Rules 2010.

(b) Government-owned enterprises or institutions may participate only if they can establish that they are;

- (i) legally and financially autonomous, and
- (ii) operate under commercial law.

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

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

(c) Bidders are:-

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

IB.4 One Bid per Bidder

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

IB.5 Cost of Bidding

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

IB.6 Site Visit

- 6.1 The bidders are advised to visit and examine the site of works and its surroundings and obtain all information that may be necessary for preparing the bid and entering into a contract for Supply and Fixing 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

- 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.
- a. Instructions to Bidders
 - b. Bidding Data.
 - c. General Conditions of Contract, Part-I (GCC).
 - d. Special Conditions of Contract, Part-II (SCC)
 - e. Specifications.
 - f. Form of Bid and Appendices to Bid.
 - g. Bill of Quantities (Appendix-D to Bid).
 - h. Form of Bid Security.
 - i. Form of Contract Agreement.
 - j. Forms of Performance Security, Mobilization Advance Guarantee, Integrity Pact and Indenture bond for secured advance.
 - k. Drawings
- 7.2 The bidders are expected to examine carefully the contents of all the above documents. Failure to comply with the requirements of bid submission will be at the bidder's own

risk. Pursuant to Clause IB.26, bids which are not substantially responsive to the requirements of the BD will be rejected.

IB.8 Clarification of Bidding Documents

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. Procuring agency will respond to any request for clarification provided they are received at least five calendar days prior to the date of opening of bid.

Provided that any clarification in response to query by any bidder; shall be communicated to all parties who have obtained bidding documents.

C. PREPARATION OF BIDS

IB 9 Addendum/Modification of Building Documents

IB 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.

IB 9.2 Any addendum thus issued shall be part of the bidding documents pursuant to sub-clause IB 7.1 hereof and shall be communicated in writing to all bidders. Interested bidders shall acknowledge receipt of each addendum in writing to the procuring agency.

IB 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 IB.20.

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 the Contract. Supporting documents and printed literature furnished by the bidders may be in any other language provided the same are accompanied by an accurate translation of the relevant parts in the bid language, in which case, for purposes of evaluation of the bid, the translation in bid language shall prevail.

IB.11 Documents Accompanying the Bid

11.1 Each bidder shall:

- (a) submit a written authorization on the letterhead of the bidding firm, authorizing the signatory of the bid to act for and on behalf of the bidder;
- (b) update the information indicated and listed in the bidding data and previously submitted with the application for prequalification, and continue to meet the minimum criteria set out in the prequalification documents, which as a minimum, would include the following :
 - (i) Evidence of access to financial resources along with average annual Supply and Fixing turnover;
 - (ii) Financial predictions for the current year and the following two years, including the effect of known commitments;
 - (iii) Work commitments since prequalification;

(iv) Current litigation information; and

(v) Availability of critical equipment.

And

(c) furnish a technical proposal taking into account the various Appendices to Bid specially the following:

Appendix-E to Bid	Proposed Supply and Fixing 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 programme 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 by the authorized partner 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);
- (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;
- (f) submission of an alternative Letter of Intent to execute a Joint Venture Agreement shall be mandatory.

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 sub- clause IB 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 IB 1.1 hereof, based on the unit rates 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 to be covered by rates and prices for other items in the Bill of Quantities. In case of Composite Schedule of Rates, if the bidder fails to mention the percentage above or below, it shall be deemed to be at par with the rates of Composite Schedule of Rates.
- 12.3 The bid price submitted by the contractor shall include all rates and prices including the taxes. All duties, taxes and other levies payable by the contractor under the contract, or for any other cause during the currency of the execution of the work or otherwise specified in the contract as on the date seven days prior to the deadline for submission of bids.

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

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

IB.13 Currencies of Bid and Payment

- 13.1 The unit rates and the prices shall be quoted by the bidder entirely in Pak rupees. A bidder expecting to incur expenditures in other currencies for inputs to the works supplied from outside the procuring agency's country (referred to as the "Foreign Currency Requirements") shall indicate the same in Appendix-B to Bid. The proportion of the bid price (excluding Provisional Sums) needed by him for the payment of such Foreign Currency Requirements either (i) entirely in the currency of the bidder's home country or, (ii) at the bidder's option, entirely in Pak rupees provided always that a bidder expecting to incur expenditures in a currency or currencies other than those stated in (i) and (ii) above for a portion of the foreign currency requirements, and wishing to be paid accordingly, shall indicate the respective portions in the 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 from the date of opening of bid specified in clause IB.23.
- 14.2 In exceptional circumstances, prior to expiry of the original, the procuring agency may request the bidders to extend the period of validity for a specified additional period, which shall not be for more than one third of the original period of bid validity. The request and the responses thereto, shall be made in writing. A bidder may refuse the request without the forfeiture of the bid security. In case, a bidder agreed to the request, shall not be required or permitted to modify the bid, but will be required to extend the validity of the 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 the 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 deposit at call, Pay order 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 shall 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 IB 22.1;
 - (b) if the bidder does not accept the correction of his bid price pursuant to sub- clause IB 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 / Bids

- 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 Supply and Fixing 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 Procuring agency may, on his own motion or at the request of any bidder, hold a pre-bid meeting to clarify issues and to answer any questions on matters related to the bidding documents. The date, time and venue of pre-bid meeting, if convened, shall be communicated to all bidders. All bidders or their authorized representatives shall be invited to attend such a pre-bid meeting at their own expense.

- 17.2 The bidders are requested to submit questions, if any, in writing so as to reach the Procuring agency not later than seven (7) days before the 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 bidders. Any modification of the bidding documents listed in sub- clause IB 7.1 hereof, which may become necessary as a result of the pre-bid meeting shall be made by the procuring agency exclusively through the issue of an Addendum pursuant to Clause IB.9 and not through the minutes of the pre-bid meeting.
- 17.4 Absence at the pre-bid meeting will not be a cause for disqualification of a bidder.

IB.18 Format and Signing of Bid

- 18.1 Bidders are particularly directed that the amount entered on the Form of Bid shall be for performing the contract strictly in accordance with the bidding documents.
- 18.2 All appendices to bid are to be properly completed and signed.
- 18.3 Alteration is not to be made neither 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 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 (ies) 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(s) duly authorized to sign on behalf of the bidder pursuant to sub- clause IB 11.1(a) hereof. All pages of the bid shall be initialed and stamped by the person(s) 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 postal 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 one copy of the Technical Proposal bid shall be separately sealed and put in separate envelope and marked as such.
 - (b) The envelope containing the Financial Bid in Original only shall be put in separate, sealed envelope and addressed as given in sub-clause IB 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;

- (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 IB 19.2 hereof, the inner envelope shall indicate the name and postal address of the bidder to enable the bid to be returned unopened in case it is declared "late" pursuant to Clause IB.21.
- 19.4 If the outer envelope is not sealed and marked as above, the procuring agency will assume no responsibility for the misplacement or premature opening of the Bid.

IB.20 Deadline for Submission of Bids

- 20.1
- (a) Bids must be received by the procuring agency at the address specified not 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 shall 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 its discretion, extend the deadline for submission of bids by issuing an amendment in accordance with IB 09. In such case, all rights and obligations of the procuring agency and the bidders shall remain the same as mentioned in the original deadline.

IB.21 Late Bids

- (a) any bid received by the procuring agency after the deadline for submission of bids prescribed in to clause IB 20 shall be returned unopened to such bidder.
- (b) delays in the mail, 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 to sub - clauses IB 22.1 and IB 27.2.

- 22.4 Withdrawal of a bid during the interval between the deadlines 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 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 in attendance 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 IB.23.3.

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

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

IB.25 Clarification of Bids (SPP Rule 43)

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

IB.26 Examination of Bids and Determination of Responsiveness

- 26.1 Prior to the detailed evaluation of bids, the procuring agency will determine whether the bidder fulfills all codal requirements of eligibility criteria given in the tender notice such as registration with tax authorities, registration with PEC (where applicable), turnover

statement, experience statement, and any other condition mentioned in the NIT and bidding document. If the bidder does not fulfill any of these conditions, it shall not be evaluated further.

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

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

- (i) has been not 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;
- (vi) 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

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 before Financial Evaluation

- 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 Financial 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 (if any), for contingencies in the Summary Bill of Quantities, but including competitively priced Day work; 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 Supply and Fixing 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 Bidders may be excluded if involved in **"Corrupt and Fraudulent Practices"** 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;
- (iii) “**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 and provision of the rule: 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, 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 Procuring agency, at any stage of the bid evaluation, having credible reasons for or having *prima facie* evidence of any deficiency(ies) in contractor’s capacities, may require the contractor to provide information concerning their professional, technical, financial, legal or managerial competence whether already pre-qualified or not for the said project.

Provided, that such qualification shall only be laid down after recording reasons thereof, 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/Cancellation the Bidding Process (SPP Rule 25)

Notwithstanding clause IB 29 and provision of the rule: (1) A procuring agency reserves may 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/Publication of the Award of Contract (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.

IB.32 Performance Security (SPP Rule 39)

- 32.1 The successful bidder shall furnish to the procuring agency a Performance Security in the form of 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 28 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 39)

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

Provided that the procuring agency may reduce the maximum time limit for signing of contract, as and when required, and shall be mentioned in the bidding documents.

33.4 Stamp Duty

The formal Agreement between the Procuring Agency and the successful bidder shall be duly stamped at rate of 0.3% of bid price (updated from time to time) stated in Letter of Acceptance.

IB. 34 General Performance of the Bidders

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

IB.35 Integrity Pact (SPP Rule 89)

The bidder shall sign and stamp the Integrity Pact provided at Appendix-L to 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.

BIDDING DATA

BIDDING DATA

(This section should be filled in by the procuring agency before issuance of the bidding documents.) The following specific data for the works to be tendered shall complement, amend, or supplement the provisions in the Instructions to Bidders. Wherever there is a conflict, the provisions herein shall prevail over those in the Instructions to Bidders.

Instructions to Bidders

Clause Reference

1.1 Name and address of the procuring agency

Project Director

Sindh Parliamentarians Residences

Room No. 108

Provincial Sindh Assembly

Karachi

1.2 Name of the Project and Summary of the works

The Employer intends to develop:

Construction of Sindh Parliamentarians Residences (Tower-B) Karachi

The summary of the project is:-

To construct Sindh Parliamentarians Residences, Karachi to provide accommodation with required amenities for MPAs (both male & female) in all respect with the provision of plant/equipment, labor and material required for execution, completion, for providing the same as specified in the Contract.

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

The Employer has arranged funds from its own sources.

2.1 Amount and type of financing

Not used

8.1 Time limit for clarification

The Employer, will respond to any request for clarification which he receives earlier than 07 days prior to the deadline for submission of bids.

Copies of the Employer's response will be forwarded to all purchasers of the Bid Documents, including a description of the enquiry but without identifying its source.

10.1 Bid language

The same language in which the bid documents are written i.e. English language.

11.1 (A) The Bidder shall submit with its Technical Bid the following documents:

- a). Documentary evidence regarding lawful ownership of the bidding firm/company (IB 11.3)
- b). Letter of Technical Bid
- c). Bid Security (IB.15)
- d). Written confirmation authorizing the signatory of the Bid to commit the Bidder (IB.18.5)

- i). A Power of Attorney to a person issued by Owner (s)/ Director (s) / Partner(s) of the firm stating name and CNIC of the person to whom Power of Attorney has been given to present the Bidding Documents, of the company / consortium during the Bid, etc.
- ii). A Power of Attorney to a signatory of the Bid signed by Owner(s)/ Director(s) / Partner(s), having name and specimen signatures of signatory to bid shall also be submitted.
- iii). In case of Joint Operation Bidder, the Owner(s)/ Partner(s) of authorized representative of JV shall issue the power of Attorney other conditions will be same as in (i) above.
- e). Pending litigation information
- f). Special Stipulations (as filled by the Employer) (Appendix - A)
- g). Proposed Construction Schedule (Appendix - E)
- h). Method of Performing the Work (Appendix - F)
- i). Availability of Critical Equipment (Appendix - G)
- j). Construction Camp and Housing Facilities (Appendix - H)
- k). List of Sub-contractors (as required) (Appendix - I)
- l). Organization Chart for Supervisory Staff (Appendix - K)
- m). Integrity Pact (Appendix - L)
- n). Financial Competence and Access to financial Resources (Appendix - M)
- o). Past Performance, Current Commitment, Qualification and Experience (Appendix - N)

11.1 (B) The Bidder shall submit with its Price Bid the following documents

- a). Letter of Price Bid
- b). Foreign Currency Requirements (Not applicable) (Appendix - B)
- c). Price Adjustment under Clause 70 (Appendix - C)
- d). Bill of Quantities
(duly filled on original Bidding Documents) (Appendix - D)
- e). Estimated Progress Payments (Appendix - J)

13.1 Bidders to quote entirely in Pak. Rupees only

14.1 Period of Bid Validity

90 days

15.1 Amount of Bid Security

*The amount of Bid Security shall be not less than **2% (Two Percent)** of the Bid Amount.*

15.2 Form and Validity of Bid Security

The Bid Security shall be submitted either in form of Pay order 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.

16. Alternate Proposals by Bidders

Not Required

17.1 Venue, time, and date of the pre-Bid meeting

A Pre-Bid meeting will be held in the Office of the Project Director, Sindh Parliamentarians Residences on _____.

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

One original and two copies

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

***Office of the Project Director
Sindh Parliamentarians Residences
Room No. 108
Provincial Sindh Assembly
Karachi***

19.2 (b) Name and Number of the Contract

***CONSTRUCTION OF SINDH PARLIAMENTARIANS RESIDENCES
(TOWER-B) KARACHI***

20.1 (a) Deadline for submission of bids

_____ Hours on _____

20.1 (b) Venue, time, and date of Bid opening

Venue : ***Office of the Project Director
Sindh Parliamentarians Residences
Room No. 108
Provincial Sindh Assembly
Karachi***

Time : _____
Date : _____

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

Performance Security shall be submitted before signing of the Contract Agreement in the shape of Pay-order/ Bank Guarantee from AA Rated Schedule Bank equivalent to 5% of the Contract Price as stated in the Letter of Acceptance.

FORM OF BID
AND
APPENDICES TO BID

FORM OF BID

Bid Reference No. _____

To,

Project Director
Sindh Parliamentarians Residences
Room No. 108
Provincial Sindh Assembly
Karachi i.

**SUBJECT: CONSTRUCTION OF SINDH PARLIAMENTARIANS RESIDENCES
(TOWER-B), KARACHI**

Gentleman,

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/ I 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/ I submit herewith a Bid Security in the amount of Rupees _____ (Rs. _____) 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.

FB-2

9. We undertake, if our/my bid is accepted, to execute the Performance Security referred to in Clause 10 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.

Dated this _____ day of _____ 2016

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 _____

BA-1
APPENDIX - A TO BID

SPECIAL STIPULATIONS

Clause No.			
1.	Engineer representing Consulting Firm hired by the procuring agency to issue variation in case of emergency	3.1	Up to 2% of the contract price stated in the Letter of Acceptance.
2.	Amount of Performance Security	4.2	The Contractor will deposit 5% of Performance Security in the shape of Bank Guarantee before signing of agreement.
3.	Time for Furnishing Programme	8.3	Submitted before signing of Agreement upto satisfaction of the Employer/ Engineer
4.	Minimum amount of Third Party Insurance	18.3	Rupees one million (Rs. 1,000,000) per occurrence with number of occurrences unlimited.
5.	Time for Commencement	8.1	Within 14 days from the date of receipt of Engineer's Notice to Commence, this shall be issued within fourteen (14) days after signing of Contract Agreement.
6.	Time for Completion	8.2 & 10.2	24 Months from the date of receipt of Engineer's Notice to Commence
7.	Amount of Liquidity Damages/ Delay Damages/ Penalties	8.7	0.1% Damages per day but total amount will not be more than 10% of contract Price
8.	Defects Liability Period	11.1	364 days from the effective date of Taking Over Certificate.
9.	Percentage of Retention Money	14.2	10% of the amount of Interim /Running Payment Certificate.
10.	Limit of Retention Money	14.2	5% of Contract Price stated in the Letter of Acceptance.
11.	Minimum amount of Interim/ Running Payment Certificates	14.2	Rs. 20 M
12.	Time of Payment from delivery of Engineer's Interim/Running Payment Certificate to the procuring agency	14.7	30 days
13.	Mobilization Advance	14.2	10% of Contract Price stated in the Letter of Acceptance @ 10% Interest per annum.

BB-1
APPENDIX-B TO BID

FOREIGN CURRENCY REQUIREMENTS

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

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

3. Table of Exchange Rates

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

BC-1
Appendix-C To Bid

**PRICE ADJUSTMENT UNDER CLAUSE 13.8
OF CONDITIONS OF CONTRACT**

A. Weight ages or coefficients are used for price adjustment

The source of indices and the weight ages or coefficients for use in the adjustment formula under Clause 13.8 of GCC shall be as follows:

Cost Element	Description	Weightages	Applicable index
1	2	3	4
(i)	Fixed Portion	0.71	
(ii)	Local Labour	0.08	Government of Pakistan (GoP) Federal Bureau of Statistics (FBS) Monthly Statistical Bulletin.
(iii)	Cement	0.05	“ “ “
(iv)	Reinforcing Steel	0.12	“ “ “
(v)	High Speed Diesel (HSD)	0.04	As per the rates fixed by Oil & Gas Regulatory Authority (OGRA)
	Total	1.00	

Notes:

- 1)** Indices for “(ii)” to “(iv)” are taken from the Government of Pakistan Federal Bureau of Statistics, Monthly Statistical Bulletin. The base cost indices or prices shall be those applying 15 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 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.
- 3)** Fixed portion shown here is for typical road project, procuring agency to determine the weight age of Fixed Portion considering only those cost elements having cost impact of seven (7) percent or more on his specific project.

Appendix-D to Bid**BILL OF QUANTITIES****A. Preamble**

1. The Bill of Quantities shall be read in conjunction with the Conditions of Contract, Specifications and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work executed and measured by the Contractor and verified by the Engineer and valued at the rates and prices entered in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix as per the Contract.
3. The rates and prices entered in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the contract include all costs of contractor's plant, labour, supervision, materials, execution, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the contract. Furthermore all duties, taxes and other levies payable by the contractor under the contract, or for any other cause, as on the date 28 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 items 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 58.2 of Part I, General Conditions of Contract.

SUMMARY BILL OF QUANTITIES

Client : Project Director , Sindh Parliamentarians Residences
Project : Construction of Sindh Parliamentarians Residences (Package-B)

Sr no:-	SUB HEAD	Bill NO.	AMOUNT
			(Rs.)
1	. DEMOLITION OF EXSITING STRUCTURES Note: <i>Rs. 3 Million will be deducted from qouted rates on account of fixed items excluding AC's and Furnitures which will be returned to Client if not replaced earlier.</i> Demolition of all exsisting structures within the Project boundary		Rs. L/S
2	. SECANT PILES	BILL NO.1	Rs.
3	. EARTH WORK	BILL NO.2	Rs.
4	. SUB STRUCTURE	BILL NO.3	Rs.
5	. SUPER STRUCTURE	BILL NO.4	Rs.
6	. BLOCK WORK	BILL NO.5	Rs.
7	. METAL WORKS	BILL NO.6	Rs.
8	. FINISHES	BILL NO.7	Rs.
9	. KITCHEN	BILL NO.8	Rs.
10	. ALUMINIUM WORKS	BILL NO.9	Rs.
11	. DOOR & WINDOWS	BILL NO.10	Rs.
12	. ELECTRICAL WORKS	BILL NO.11	Rs.
13	. PHYSICAL SECURITY	BILL NO.12	Rs.
14	. LAN & TELEPHONE SYSTEM	BILL NO.13	Rs.
15	. IT EQUIPMENT	BILL NO.14	Rs.
16	. PLUMBING WORKS	BILL NO.15	Rs.
17	. HVAC WORKS	BILL NO.16	Rs.
18	. REVERSE OSMOSIS PLANT & TUBE WELL	BILL NO.17	Rs.
GRAND TOTAL AMOUNT (Rs.)			Rs.

(Rupees _____)
(In Words)

CONTRACTOR

BILL NO. 1 - SHORING WORKS

S. No	Description	Qty	Unit	Rate	Amount
Note:-					
1)	The Contractor shall establish bench marks and / or reference line at the site in accordance with the instructions of the Engineer. The contractor shall set out its work from these bench marks and / or lines.				
2)	The Contractor shall not start any physical work on site until the joint survey has been done at establish the existing ground level.				
3)	Contractor is required to use crane for shifting of material expenses for use of crane deemed to be included in the quoted rates. Tower Crane has to be transported to site & made ready for work before commencement of construction works.				
4)	Contractor is required to use temporary lift expenses for use of lift deemed to be included in the quoted rates.				
5)	Cost of all kind of cartage and steel pipe scaffolding is deemed to be included in the quoted rates and no extra payment will be entertained in this regards.				
6)	All Secant piles work should be done by specialized sub-contractor. The sub-contractor must have minimum 10 years experience in such works.				
1.01	Providing and laying R.C.C cast in situ Secant piles Size 2'-6" (750mm) dia and depth 50 Ft in foundation in all kinds of soils using crushed graded boulders 3/4 inch (19mm) and down in dense homogenous concrete mix not leaner than 1-1½:3 (using S.R. cement) having preliminary cube crushing strength of 4000 Lbs per square inch at 28 days as per design, disposal of excavated material and bailing out water & including the cost of reinforcement as shown on the drawings (the actual length of pile in place measured from the soffit of pile cap will be accounted for) complete in all respects including boring for pile in all kinds of soil strata.				
a)	Pile cast in situ i/c steel reinforcement.	35	Each		
b)	Pile cast in situ without steel reinforcement.	35	Each		
1.02	Cement concrete mixed in batching plant having cylindrical crushing strength of 4000 psi using S.R.Cement, crushed aggregate 1" & down gauge & approved admixture (as per specifications of manufacturer), carriage from batching plant to site of work through approved transit mixers, pouring of concrete in formwork at site, as per directions of the Engineer, providing & removing of steel formwork, (for fair faced surface), curing, testing etc., complete)	2,467	Cft.		
1.03	Providing & laying Deformed steel reinforcement bars having minimum yield stress of 60,000 psi with and including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown over the drawings, placing in position on precast chairs of cement concrete Class A1 or MS chairs, tying with binding wire in all kinds of RCC work. Cost of chair and wires etc. deemed to be included in the rates and will not be paid separately.	7,401	Kg.		

BILL NO. 1 - SHORING WORKS					
S. No	Description	Qty	Unit	Rate	Amount
1.04	<p>Providing and applying short crete concrete having cylindrical strength 3000 psi @ 28 days. (nominal mix ration 1:2:4) 2" thick conveyed through a hose pneumatically profited at high velocity onto surface complete in all respect as shown in the drawings and direction of the Engineer.</p> <p><i>Any item (i) described in the Bill of Quantities or relevant Specifications but not shown on the Drawings, or (ii) shown on the Drawings but not described in the Bill of Quantities or relevant Specifications, shall be of like effect as it has been shown and mentioned in both. Similarly, if any item which is neither shown on the drawing nor mentioned in the Bill of Quantities or Specification but is a pre-condition to carryout any item of the contract, it shall be considered to be included in the contract price, distributed among the rates and prices entered for the related items of works. It shall be clearly understood that no extra cost whatsoever shall be paid in case such discrepancies if any, exist in the above bill.</i></p>	9,240	Sft.		
Total Amount of Bill No. 01					

BILL NO. 2 - EARTH WORK					
S. No	Description	Qty	Unit	Rate	Amount
Note:-					
1)	The Contractor shall establish bench marks and / or reference line at the site in accordance with the instructions of the Engineer. The contractor shall set out its work from these bench marks and / or lines.				
2)	The Contractor shall not start any physical work on site until the joint survey has been done to establish the existing ground level.				
3)	The Contractor shall remove trees, shrubs, grass etc which interfere the execution of the work to the satisfaction of the Engineer for which no extra payment will be made.				
4)	The Contractor shall provide, at his own expense to the satisfaction of the Engineer all timbering, poling, shoring, strutting and other approved supports to the sides of all excavations, trenches and all other works in such a way that it will be sufficient to secure them from falling and to prevent any movement. All responsibilities connected with this part of the work shall rest with contractor.				
5)	In removing timbering, shoring and strutting and all other support from excavation and trenches etc., special care shall be taken to avoid bringing pressure to bear on any concrete or other work until it has hardened sufficiently to resist such pressure.				
6)	All excavation shall be properly maintained while they are opened-and exposed. Sufficient suitable barricades, warning lights, flood lights, signs, and similar items shall be provided by the contractor. The Contractor shall be responsible for any damage due to his negligence.				
7)	The Contractor shall take every necessary precaution not to endanger the safety, occupation or operation of any property, structures, installations or services in the vicinity of his operations and shall observe any restrictions imposed by authority concerned/Engineer to this end. Should any such property, structures, installations or services be endangered or damaged as a result of the Contractor's operations, he shall immediately report such danger or damage to the Engineer's Representative and any authority concerned and shall forthwith undertake remedial measures to the satisfaction of the Engineer or the appropriate authority.				
8)	Contractor is required to use crane for shifting of material expenses for use of crane deemed to be included in the quoted rates. Tower Crane has to be transported to site & made ready for work before commencement of construction works.				
9)	Contractor is required to use temporary lift and expenses for use of lift deemed to be included in the quoted rates.				
10)	Cost of all kind of cartage and steel pipe scaffolding is deemed to be included in the quoted rates and no extra payment will be entertained in this regards.				
2.01	Clearing and grubbing the site by cutting, uprooting and removing all rubbish, shrubs and trees, removal of existing utilities, filling the pits with earth complete with dressing, watering and consolidating including stacking and depositing the serviceable materials in owner's store and disposal of unsuitable and surplus material to designated area.	-	Job.		

BILL NO. 2 - EARTH WORK					
S. No	Description	Qty	Unit	Rate	Amount
2.02	The dewatering shall be accomplished to provide dry working condition within plot during concreting to the required level in a manner that will prevent seepage, boils, loss of fines, corrosion, softening of the strata, and that will maintain the stability of the bottom and slopes of excavation, including all necessary piping Pumps required for dewatering up to the ultimate source of disposal as directed by the Consultants and Structural Engineer. The contractor shall dispose off the water at locations as per approval of the local authorities/regulatory bodies. Contractor to submit "Method of statement" for approval of Engineer/Consultants prior to Dewatering and shall continue dewatering until L-Ground floor is cast as directed by the Engineer. All work to be done by specialized sub - contractor.	-	Job.		
2.03	Excavation for foundation, raft, columns, walls, etc.and other structure works in all kind of soil (Soft, hard, murum, and gravelly) by manual or any mechanical means including, stacking of suitable and unsuitable materials separately, using suitable materials for backfilling of trenches / under floor, dressing, watering, consolidation by ramming in layers not exceeding 9 inches (229mm) in depth to full compaction, and disposal of unsuitable surplus excavated stuff to designated area, i/c timbering, strutting, shoring for supporting sides of trenches as directed by the Engineer, including all lead and lift.	819,797	Cft.		
2.04	Supplying suitable earth from approved outside sources including digging, loading and unloading, cartage up to site of work and filling in foundation trenches, plinth or under floor, etc. including breaking clods, dressing, watering and consolidation by ramming in layers not exceeding 9 inches (229mm) in depth to full compaction complete including all lead and lift. The item rate shall include all cost related to the item.	29,613	Cft.		
2.05	Supply, stacking and filling Granular material from outside sources complete in all respect as shown in drawings, including dressing watering and consolidation by ramming in layers not exceeding 9" (229mm) in depth to full compaction i/c all lead & lift and as per the approval of the Engineer.	7,403	Cft.		

BILL NO. 2 - EARTH WORK					
S. No	Description	Qty	Unit	Rate	Amount
	<p><i>Any item (i) described in the Bill of Quantities or relevant Specifications but not shown on the Drawings, or (ii) shown on the Drawings but not described in the Bill of Quantities or relevant Specifications, shall be of like effect as it has been shown and mentioned in both. Similarly, if any item which is neither shown on the drawing nor mentioned in the Bill of Quantities or Specification but is a pre-condition to carryout any item of the contract, it shall be considered to be included in the contract price, distributed among the rates and prices entered for the related items of works. It shall be clearly understood that no extra cost whatsoever shall be paid in case such discrepancies if any, exist in the above bill.</i></p>				
Total Amount of Bill No. 02					

BILL NO. 3 - SUB STRUCTURE					
S. No	Description	Qty	Unit	Rate	Amount
Note:-					
1)	Steel formwork to be used until & unless specified other wise, all as Per the instructions of the Engineer.				
2)	Contractor is required to submit Concrete Mix Design to the Engineer for approval prior to start of works. All Concrete to be used in this project will be ready mix.				
3)	Contractor is required to use crane for shifting of material expenses for use of crane deemed to be included in the quoted rates. Tower Crane has to be transported to site & made ready for work before commencement of construction works.				
4)	Contractor is required to use temporary lift and expenses for use of lift deemed to be included in the quoted rates.				
5)	Cost of all kind of cartage and steel pipe scaffolding is deemed to be included in the quoted rates and no extra payment will be entertained in this regards.				
6)	All Waterproofing work to be done by specialized sub-contractor. All waterproofing works & material used in the works shall accompanied by certificate of compliance sign by responsible representative of the manufacturer / applicator.				
7)	The contractor should strictly follow the drawings for construction & expansion joints.				
8)	RCC Works slab, beams shall not be allowed until and unless the contractor have ensured for formworks, at least 40,000 Sft. Will all required accessories, scaffolding, jointing etc. are available at site, so that unnecessary construction joint in structure are avoided.				
3.01	Providing and applying Termite proofing to bottom and sides of excavations for foundations and floors, applying with pressure spraying equipment using TENEKIL PLUS or any other approved equivalent with a solution of one gallon of chemical to 80 gallons of water as per standard specifications of manufacturers and as per instructions of the Engineer. Work to be done by specialized sub - contractor.	47,520	Sft.		
3.02	Providing crushed stone aggregate of ½" to ¾" size in the bed of raft foundation to proper level and compaction up to required degree complete as per the directions and approval of the Engineer (i/c all lead & lift.)	22,894	Cft.		
3.03	Providing & applying puncture resistant vapor barrier (4 mil) cross laminated high density polyethylene over layer of stone crushed aggregate as per the directions of the Engineer. Work to be done by specialized sub - contractor.	30,525	Sft.		
3.04	Supply, stacking and filling sand , (River Bed Sand) of approved quality from outside sources in bedding as shown in drawings, including dressing complete in all respect as per the direction of the Engineer.	7,631	Cft.		

BILL NO. 3 - SUB STRUCTURE					
S. No	Description	Qty	Unit	Rate	Amount
3.05	Providing & laying lean cement concrete plain using O.P Cement including placing, compacting, finishing and curing complete. (as per specifications)	15,956	Cft.		
3.06	Cement concrete 1:3:6 plain including placing, compacting, finishing and curing, complete i/c form work (as per specifications)	1,035	Cft.		
3.07	Reinforced cement concrete mixed in batching plant having cylindrical crushing strength of 4000 psi using O.P.Cement, crushed aggregate 1" & down gauge & mixing approved admixture (as per specifications of manufacturer), carriage from batching plant to site of work through approved transit mixers, pouring of concrete in formwork at site, as per directions of the Engineer, providing & removing of steel formwork, (for fair faced surface), curing, testing etc., complete				
a)	Foundation / Raft	127,212	Cft.		
b)	Tie Beam	187	Cft.		
c)	Slab i/c Drop panel	48,851	Cft.		
d)	Door & Windows Lintel	54	Cft.		
e)	Stair Case	1,040	Cft.		
f)	Ramp	2,940	Cft.		
3.08	Reinforced cement concrete mixed in batching plant having cylindrical crushing strength of 6000 psi using O.P.Cement, crushed aggregate 1" & down gauge & mixing approved admixture (as per specifications of manufacturer), carriage from batching plant to site of work through approved transit mixers, pouring of concrete in formwork at site, as per directions of the Engineer, providing & removing of steel formwork, (for fair faced surface), curing, testing etc., complete				
a)	Column	12,061	Cft.		
b)	RCC Wall	34,342	Cft.		
3.09	Providing & laying Deformed steel reinforcement bars having minimum yield stress of 60,000 psi with and including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown over the drawings, placing in position on precast chairs of cement concrete Class A1 or MS chairs, tying with binding wire in all kinds of RCC work. Cost of chair and wires etc. deemed to be included in the rates and will not be paid separately.	1,177,869	Kg.		
3.10	Providing laying 9" wide Eyelid rare guard or any other approved material as per the specification and direction of the Engineer. Work to be done by specialized sub - contractor.	519	Rft.		

BILL NO. 3 - SUB STRUCTURE					
S. No	Description	Qty	Unit	Rate	Amount
3.11	Providing thermoplastic expendable re-swellable bar water stopper over smooth surface approved chemicals coating @1.5 kg per sqm on all horizontal construction joints as per specification, direction & approval of the Engineer. Work to be done by specialized sub - contractor.	519	Rft.		
3.12	Providing & applying approved quality cementations crystalline coating @ 1 kg/ sqm on lean concrete as per the direction and approval of the Engineer. Work to be done by specialized sub - contractor.	13,427	Sft.		
3.13	Supplying & laying in position approved premoulded joint filler in expansion joint. Work to be done by specialized sub - contractor.	97	Rft.		
3.14	Providing & fixing in position premoulded 2"x1" highly flexible polyurethane joints sealant as per the approval of the Engineer. Work to be done by specialized sub - contractor.	97	Rft.		
3.15	Providing and fixing 6" wide epoxy coated copper sheet in construction joint i/c 1"x1" non shrinkage grout complete as per the instruction & approval of the Engineer. Work to be done by specialized sub - contractor.	2,273	Rft.		
3.16	Supply & Application of 2mm thick homogenous PVC membrane, to be applied in single layer with hot air welded laps & joints to the entire flat surface over the lean concrete loosely laid or compartmentalized with long flange PVC water stops and protect the membrane with protection board 5mm thick complete in all respect as per drawing, specification and direction of the Engineer. Work to be done by specialized sub - contractor.	47,574	Sft.		
3.17	Providing & fixing in position expan bar PVC rearguard 250mm wide complete in all respect as per the approval & direction of the Engineer. Work to be done by specialized sub - contractor.	178	Rft.		

BILL NO. 3 - SUB STRUCTURE					
S. No	Description	Qty	Unit	Rate	Amount
	<i>Any item (i) described in the Bill of Quantities or relevant Specifications but not shown on the Drawings, or (ii) shown on the Drawings but not described in the Bill of Quantities or relevant Specifications, shall be of like effect as it has been shown and mentioned in both. Similarly, if any item which is neither shown on the drawing nor mentioned in the Bill of Quantities or Specification but is a pre-condition to carryout any item of the contract, it shall be considered to be included in the contract price, distributed among the rates and prices entered for the related items of works. It shall be clearly understood that no extra cost whatsoever shall be paid in case such discrepancies if any, exist in the above bill.</i>				
Total Amount of Bill No. 03					

BILL NO. 4 - SUPER STRUCTURE

S. No	Description	Qty	Unit	Rate	Amount
Note:-					
1)	Steel formwork to be used until & unless specified other wise, all as Per the instructions of the Engineer.				
2)	Prior to pouring of roof slab, contractor is required to prepare & submit to the Engineer for of all services drawings, roof insulation & water proofing, samples of all electro- mechanical roof related equipment & materials, decoration works associated with roof & beams so that all required opening sizes, locations are taken care in the form work, in beams, roof slab prior to casting of roof & beams. Also, the contractor is required to prepare combined services plans / drawings showing all openings required in slab and in all beams, by duly marking them with sizes, locations for all services including but not limited to HVAC , electrical, fire fighting, roof drainage, A/ c water drainage, exhaust,etc, along with all required conduit works in the roof slab, beams, complete in all respects, duly supported with all electro-mechanical shop drawings and brochures of all electro- mechanical items. No opening shall be allowed after pouring of slab & in case any services are required, the same shall be done by contractor with some other alternative, at risk & cost of the contractor. No extra amount shall be paid in this regard.				
3)	Contractor is required to submit Concrete Mix Design for Engineer's approval prior to start of works. All ready mix Concrete to be used in this project.				
4)	Contractor is required to use crane for shifting of material expenses for use of crane deemed to be included in the quoted rates. Tower Crane has to be transported to site & made ready for work before commencement of construction works.				
5)	Contractor is required to use temporary lift and expenses for use of lift deemed to be included in the quoted rates.				
6)	Cost of all kind of cartage and steel pipe scaffolding is deemed to be included in the quoted rates and no extra payment will be entertained in this regards.				
7)	All Waterproofing work to be done by specialized sub-contractor. All waterproofing works & material used in the works shall accompanied by certificate of compliance sign by responsible representative of the manufacturer / applicator.				
8)	The contractor should strictly follow the drawings for construction & expension joints.				
9)	RCC Works slab, beams shall not be allowed until and unless the contractor have ensured for formworks, at least 40,000 Sft. Will all required accessories, scaffolding, jointing etc. are available at site, so that unnecessary construction joint in structure are avoided.				
4.01	Reinforced cement concrete mixed in batching plant having cylindrical crushing strength of 6000 psi using S.R.Cement, crushed aggregate 1" & down gauge & approved admixture (as per specifications of manufacturer), carriage from batching plant to site of work through approved transit mixers, pouring of concrete in formwork at site, as per directions of the Engineer, providing & removing of steel formwork, (for fair faced surface), curing, testing etc., complete				
A	COLUMN				
iii)	Ground Floor to 1st Floor	8,289	Cft.		
iv)	1st Floor to 2nd Floor	6,695	Cft.		
v)	2nd Floor to 3rd Floor	4,944	Cft.		
vi)	3rd Floor to 4th Floor	1,875	Cft.		
vii)	4th Floor to 5th Floor	1,875	Cft.		

BILL NO. 4 - SUPER STRUCTURE					
S. No	Description	Qty	Unit	Rate	Amount
viii)	5th Floor to 6th Floor	1,875	Cft.		
ix)	6th Floor to 7th Floor	1,875	Cft.		
x)	7th Floor to 8th Floor	1,875	Cft.		
xi)	8th Floor to 9th Floor	1,875	Cft.		
xii)	9th Floor to 10th Floor	1,875	Cft.		
xiii)	10th Floor to Roof	1,875	Cft.		
xiv)	Roof to Tower Roof	743	Cft.		
B	RCC WALL				
iii)	Ground Floor to 1st Floor	11,900	Cft.		
iv)	1st Floor to 2nd Floor	8,322	Cft.		
v)	2nd Floor to 3rd Floor	7,212	Cft.		
vi)	3rd Floor to 4th Floor	5,384	Cft.		
vii)	4th Floor to 5th Floor	5,384	Cft.		
viii)	5th Floor to 6th Floor	5,384	Cft.		
ix)	6th Floor to 7th Floor	5,384	Cft.		
x)	7th Floor to 8th Floor	5,384	Cft.		
xi)	8th Floor to 9th Floor	5,384	Cft.		
xii)	9th Floor to 10th Floor	5,384	Cft.		
xiii)	10th Floor to Roof	5,384	Cft.		
xiv)	Roof to Tower Roof	9,007	Cft.		
4.02	Reinforced cement concrete mixed in batching plant having cylindrical crushing strength of 4000 psi using S.R.Cement, crushed aggregate 1" & down gauge & approved admixture (as per specifications of manufacturer), carriage from batching plant to site of work through approved transit mixers, pouring of concrete in formwork at site, as per directions of the Engineer, providing & removing of steel formwork, (for fair faced surface), curing, testing etc., complete				
A	Slab				
iii)	Ground Floor	10,118	Cft.		
iv)	1st Floor	10,109	Cft.		
v)	2nd Floor	8,599	Cft.		
vi)	3rd Floor	7,867	Cft.		
vii)	4th Floor	7,685	Cft.		
viii)	5th Floor	7,685	Cft.		
ix)	6th Floor	7,685	Cft.		
x)	7th Floor	7,685	Cft.		
xi)	8th Floor	7,685	Cft.		
xii)	9th Floor	7,386	Cft.		
xiii)	10th Floor	7,386	Cft.		
xiv)	11th Floor	7,386	Cft.		
xv)	Roof	1,394	Cft.		
B	Beams				
iii)	Ground Floor	7,913	Cft.		
iv)	1st Floor	3,237	Cft.		
v)	2nd Floor	3,237	Cft.		
vi)	3rd Floor	4,423	Cft.		
vii)	4th Floor	4,423	Cft.		

BILL NO. 4 - SUPER STRUCTURE

S. No	Description	Qty	Unit	Rate	Amount
viii)	5th Floor	4,423	Cft.		
ix)	6th Floor	4,423	Cft.		
x)	7th Floor	4,423	Cft.		
xi)	8th Floor	4,423	Cft.		
xii)	9th Floor	4,563	Cft.		
xiii)	10th Floor	4,563	Cft.		
xiv)	11th Floor	561	Cft.		
xv)	Roof	561	Cft.		
C	Door & Windows Lintel				
iii)	Ground Floor	199	Cft.		
iv)	1st Floor	170	Cft.		
v)	2nd Floor	223	Cft.		
vi)	3rd Floor	1,537	Cft.		
vii)	4th Floor	1,537	Cft.		
viii)	5th Floor	1,537	Cft.		
ix)	6th Floor	1,537	Cft.		
x)	7th Floor	1,537	Cft.		
xi)	8th Floor	1,537	Cft.		
xii)	9th Floor	247	Cft.		
xiii)	10th Floor	257	Cft.		
xiv)	11th Floor	257	Cft.		
xv)	Roof	18	Cft.		
D	Stair Case				
iii)	Ground Floor to 1st Floor	1,152	Cft.		
iv)	1st Floor to 2nd Floor	594	Cft.		
v)	2nd Floor to 3rd Floor	431	Cft.		
vi)	3rd Floor to 4th Floor	410	Cft.		
vii)	4th Floor to 5th Floor	410	Cft.		
viii)	5th Floor to 6th Floor	410	Cft.		
ix)	6th Floor to 7th Floor	410	Cft.		
x)	7th Floor to 8th Floor	410	Cft.		
xi)	8th Floor to 9th Floor	410	Cft.		
xii)	9th Floor to 10th Floor	410	Cft.		
xiii)	10th Floor to Roof	410	Cft.		
xiv)	Roof to Tower Roof	410	Cft.		
4.03	Providing & laying Deformed steel reinforcement bars having minimum yield stress of 60,000 psi with and including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown over the drawings, placing in position on precast chairs of cement concrete Class A1 or MS chairs, tying with binding wire in all kinds of RCC work. Cost of chair and wires etc. deemed to be included in the rates and will not be paid separately.				
iii)	Ground Floor	178,935	Kg.		
iv)	1st Floor	133,499	Kg.		
v)	2nd Floor	111,431	Kg.		
vi)	3rd Floor	89,902	Kg.		
vii)	4th Floor	90,202	Kg.		

BILL NO. 4 - SUPER STRUCTURE					
S. No	Description	Qty	Unit	Rate	Amount
viii)	5th Floor	90,202	Kg.		
ix)	6th Floor	90,202	Kg.		
x)	7th Floor	89,733	Kg.		
xi)	8th Floor	89,733	Kg.		
xii)	9th Floor	85,447	Kg.		
xiii)	10th Floor	85,478	Kg.		
xiv)	11th Floor	77,831	Kg.		
xv)	Roof	23,766	Kg.		
	<p><i>Any item (i) described in the Bill of Quantities or relevant Specifications but not shown on the Drawings, or (ii) shown on the Drawings but not described in the Bill of Quantities or relevant Specifications, shall be of like effect as it has been shown and mentioned in both. Similarly, if any item which is neither shown on the drawing nor mentioned in the Bill of Quantities or Specification but is a pre-condition to carryout any item of the contract, it shall be considered to be included in the contract price, distributed among the rates and prices entered for the related items of works. It shall be clearly understood that no extra cost whatsoever shall be paid in case such discrepancies if any, exist in the above bill.</i></p>				
Total Amount of Bill No. 04					

BILL NO. 5 - BLOCK WORKS					
S. No	Description	Qty	Unit	Rate	Amount
Note:-					
1)	All blocks are to be machine made from the approved manufacturer or made on site under strict quality control.				
2)	Contractor is required to use crane for shifting of material expenses for use of crane deemed to be included in the quoted rates. Tower Crane has to be transported to site & made ready for work before commencement of construction works.				
3)	Contractor is required to use temporary lift and expenses for use of lift deemed to be included in the quoted rates.				
4)	Cost of all kind of cartage and steel pipe scaffolding is deemed to be included in the quoted rates and no extra payment will be entertained in this regards.				
5.01	Pre-cast Solid Block masonry set in 1:4 Cement sand mortar in super structure, including forming chases, grooves, and angles racking out of joints, or to provide key for plaster, scaffolding and all necessary items for a complete finish work as per specifications, drawings & as per the instructions of the Engineer. All blocks shall conform to the specifications as approved by the Engineer. (Compressive strength 1000 psi @ 28 days.)				
i)	Basement - 2	1,889	Cft.		
ii)	Basement - 1	2,677	Cft.		
iii)	Ground Floor	15,786	Cft.		
iv)	1st Floor	6,539	Cft.		
v)	2nd Floor	5,085	Cft.		
vi)	3rd Floor	3,139	Cft.		
vii)	4th Floor	3,139	Cft.		
viii)	5th Floor	3,139	Cft.		
ix)	6th Floor	3,139	Cft.		
x)	7th Floor	3,139	Cft.		
xi)	8th Floor	3,139	Cft.		
xii)	9th Floor	2,984	Cft.		
xiii)	10th Floor	3,139	Cft.		
xiv)	Roof	1,077	Cft.		
5.02	Pre-cast Hollow Block masonry set in 1:4 Cement sand mortar in super structure, including forming chases, grooves, and angles racking out of joints, or to provide key for plaster, scaffolding and all necessary items for a complete finish work as per specifications, drawings & as per the instructions of the Engineer. All blocks shall conform to the specifications as approved by the Engineer. (Compressive strength 1200 psi @ 28 days.)				
i)	Ground Floor	4,174	Cft.		
ii)	1st Floor	4,530	Cft.		
iii)	2nd Floor	3,631	Cft.		

BILL NO. 5 - BLOCK WORKS					
S. No	Description	Qty	Unit	Rate	Amount
iv)	3rd Floor	6,243	Cft.		
v)	4th Floor	6,243	Cft.		
vi)	5th Floor	6,243	Cft.		
vii)	6th Floor	6,243	Cft.		
viii)	7th Floor	6,243	Cft.		
ix)	8th Floor	6,243	Cft.		
x)	9th Floor	5,344	Cft.		
xi)	10th Floor	6,243	Cft.		
xii)	Roof	72	Cft.		
<p><i>Any item (i) described in the Bill of Quantities or relevant Specifications but not shown on the Drawings, or (ii) shown on the Drawings but not described in the Bill of Quantities or relevant Specifications, shall be of like effect as it has been shown and mentioned in both. Similarly, if any item which is neither shown on the drawing nor mentioned in the Bill of Quantities or Specification but is a pre-condition to carryout any item of the contract, it shall be considered to be included in the contract price, distributed among the rates and prices entered for the related items of works. It shall be clearly understood that no extra cost whatsoever shall be paid in case such discrepancies if any, exist in the above bill.</i></p>					
Total Amount of Bill No. 05					

BILL NO. 6 - METAL WORKS					
S. No	Description	Qty	Unit	Rate	Amount
Note:-					
1)	Works in this section are to be done by a competent, experienced and approved steel sub-contractor.				
2)	All anchor bolts shall be hot dipped galvanized.				
3)	Contractor to submit design, calculations and shop drawings for steel members, cladding and rain water gutters & system for the approval of the Engineer.				
4)	Two layers of epoxy paint, to protect all structural steel sections, over primer of approved quality. One coat should be factory applied and one coat of epoxy to be applied at site.				
5)	Contractor must submit a performance guarantee for five years from the suppliers/manufacturers of paints, who shall also guarantee that the application is as per the manufacturer's specification and make good.				
6)	All material to be used shall be approved by the Engineer.				
7)	Contractor is required to prepare detailed shop drawing of the steel work including all structural detailing and calculation for the approval of the Engineer. All structural calculation should be done by the structural Engineer and to be done on computer based structural progress.				
8)	Contractor to get approval of steel structure works from Engineer, before starting the foundations works.				
9)	Contractor is required to use crane for shifting of material expenses for use of crane deemed to be included in the quoted rates. Tower Crane has to be transported to site & made ready for work before commencement of construction works.				
10)	Contractor is required to use temporary lift expenses for use of lift deemed to be included in the quoted rates.				
11)	Cost of all kind of cartage and steel pipe scaffolding is deemed to be included in the quoted rates and no extra payment will be entertained in this regards.				
6.01	Providing and installing complete steel structural works complete in all respects with Trusses, columns, beams, girders, joists, cleats, angles, perlins, plates, bolts,etc., two layers of epoxy paint to protect all structural steel sections over primer of approved quality. One coat should be factory applied and one coat of epoxy to be applied at site. Complete with all required accessories, as specified, as shown in the drawings and as per the instructions and approval of the Engineer. In case of omission of any necessary item above, it shall be deemed to be included in the quoted rate. at any height in any floor.	20,115	Kg.		
6.02	Providing and fixing stairs railing of stainless steel pipe horizontal pipe rail of 50mm dia on top including 25mm Tube in centre, bottom & vertical post at each alternate step with flange and flange cover as shown on drawings and as directed by the Engineer, & Including the cost of erection in position & cartage at any height in any floor. (Contractor to submit shop drawing to Engineer for approval before execution.)	1,200	Rft.		
6.03	Providing and fixing 50mm dia stainless steel pipe rail fixed on Stair side wall as per drawings and directions of the Engineer with & i/c. cutting holes in walls or RCC for fixing and making good the same, the cost includes erection in position & cartage at any height in any floor. (Contractor to submit shop drawing to Engineer for approval before execution).	1,200	Rft.		

BILL NO. 6 - METAL WORKS					
S. No	Description	Qty	Unit	Rate	Amount
6.04	Providing & fixing heavy duty MS hollow Square Bar of 1" in size for Balconies cutting & embedded in RCC, Block masonry, wood etc. including the cost of welding the joints where required, making good the same, the cost includes cartage and all lead and lift at any height in any floor. (Contractor to submit shop drawing to Engineer for approval before execution).	13,068	Rft.		
6.05	Providing & fixing concertina wire - high tensile 3mm line wire having tensile strength of 80 tons / sq. inch, with 4-point bard of 12 swg 3" - 3.5" apart; coil dia 600mm having 65 turns with alternate turns clipped together at 5 places; can open approx. 40ft complete in all respect as per drawing and direction of the Engineer.	141	Rft.		
6.06	Providing & fixing angle iron vertical posts for concertina wire fencing of size 75mm x 75mm x 9.39mm embedded in RCC / Masonry pillars including making cuts/holes @ 12" including fixing in pillars by chiseling and filling with cement sand mortar for repairing & finishing the surface i/c zinc oxide approved paint complete in all respect as per the drawing and direction of the Engineer.	583	Rft.		
6.07	Providing and fixing M.S Gate comprising required section of flat iron as per approved design including welding all sides of the section at the junction and fixing with sunk iron screws, floor strip, wheels, drop bolts, Two layers of epoxy paint to protect all structural steel sections over primer of approved quality. One coat should be factory applied and one coat of epoxy to be site applied. complete as per drawings and direction of the Engineer.	375	Kg.		
6.08	Providing and fixing M.S Double Door with louvers comprising required section of flat iron as per approved design including welding all sides of the section at the junction and fixing with sunk iron screws, Two layers of epoxy paint to protect all structural steel sections over primer brush applied of approved quality. One coat should be factory applied and one coat of epoxy to be site applied. complete as per drawings and direction of the Engineer.	294	Kg.		
6.09	Providing and fixing M.S Louvered single shutter two way swing door comprising required section of flat iron as per approved design including welding all sides of the section at the junction and fixing with sunk iron screws, Two layers of epoxy paint to protect all structural steel sections over primer bursh applied of approved quality. One coat should be factory applied and one coat of epoxy to be site applied. complete as per drawings and direction of the Engineer.	3,810	Kg.		

BILL NO. 6 - METAL WORKS					
S. No	Description	Qty	Unit	Rate	Amount
6.10	Providing & Fixing in position angle iron 2" x 2" x 1/4" around columns up to 1M height including the cost of approved color epoxy paint (three coats) i/c all required accessories complete as per the direction of the Engineer.	2,562	Kg.		
6.11	Providing & Fixing in position MS bar 3/4" x 3/4" in Balcony, including the cost of approved color epoxy paint (three coats) i/c all required accessories complete as per the direction of the Engineer at any height in any floor.	5,500	Kg.		
6.12	Providing and fixing circular stair as per drawing including cost of materials, fabrication, erection in position, two layers of epoxy paint to protect all structural steel sections over primer of approved quality. One coat should be factory applied and one coat of epoxy to be site applied. Complete with all required accessories, etc. as specified and as shown in the drawings, complete in all respects and as required by the consultant.	1,510	Kg.		
6.13	Providing and fixing Garbage Chute G.I make of 16 SWG including red oxide paint, ribbing, punching, making shapes, access door 24" x 18" powder coated with steel handle, automatic fire cut off door, Washing Spy Nozzle with 2 Hp mono block pump, Burossing mechanism with 2 HP, Exhaust Fan of required size with canopy, electrical wiring and control panel & garbage trolley 48" x 48" x 48" of MS painted with complete mechanism for ground floor + 11 floors complete in all respect as per the Direction of the Engineer. In case of omission of any necessary item above, it shall be deemed to be included in the quoted rate. at any height in any floor. (Contractor to submit shop drawings to Engineer for approval before execution)	-	Job.		
6.14	Supply and fix M.S , safety step, guard bars, grills, railing, ladders brackets, hooks hold fasts and frames etc, cut to dead length, reduced to size, shape, figure etc., incl punching / drilling holes if necessary and fixing, assembling by welding or with the use of bolts, nuts, rivets washers et., and erection / fixing in position incl making good the disturbed surface, Two layers of epoxy paint to protect all structural steel sections over primer of approved quality. etc, complete. (Contractor to submit shop drawings to Engineer for approval before execution).	1,500	Kg.		

BILL NO. 6 - METAL WORKS					
S. No	Description	Qty	Unit	Rate	Amount
6.15	Providing and fixing Mild Steel railing of 3½ft height comprising of horizontal tube 2" x 2" at top, 1-1/2" x 1/4" flat at bottom & 3/4" x 3/4" vertical tube 8" c/c and 2" dia vertical post with round ball on top all as per drawings and directions of the Engineer with & i/c. cutting holes for fixing and making good the damages & painting with anti corrosive paint etc, complete	400	Rft.		
6.16	Providing and fixing railing of 1200mm height including 12 mm thick tempered glass with anti shattered film comprising of horizontal S.S hand rail at top & vertical posts all as per drawings and directions of the Engineer i/c. cutting holes in glass, clips, gasket for fixing and making good the damages etc. complete. Work to be done by specialized sub-contractor approved by the Engineer. Contractor to make shop drawings for approval before start of work. Contractor to make three different designs for the approval of the Engineer prior execution of Work.	50	Rft.		
<p><i>Any item (i) described in the Bill of Quantities or relevant Specifications but not shown on the Drawings, or (ii) shown on the Drawings but not described in the Bill of Quantities or relevant Specifications, shall be of like effect as it has been shown and mentioned in both. Similarly, if any item which is neither shown on the drawing nor mentioned in the Bill of Quantities or Specification but is a pre-condition to carryout any item of the contract, it shall be considered to be included in the contract price, distributed among the rates and prices entered for the related items of works. It shall be clearly understood that no extra cost whatsoever shall be paid in case such discrepancies if any, exist in the above bill.</i></p>					
Total Amount of Bill No. 06					

BILL NO. 7. - FINISHES

S. No	Description	Qty	Unit	Rate	Amount
Note:-					
1)	For this section, contractor to submit samples for all finishing items, including corner/ angle beads, floor tiles, roof tiles, skirting, false ceiling, moldings, gypsum tiles, marble, Corian, paint, etc. Also, contractor to prepare shop drawings and site mock-up to show all the required details for the approval of the Engineer with in two months of issuance of work order.				
2)	All flooring shall be covered with plastic sheets covered by gypsum till the finalization of the project and to be removed & disposed off at the time of handing over. Cost deemed to be included in the rate of tile laying. No extra cost shall be paid in this regard.				
3)	Contractor is required to provide a certificate from the tile manufacture that all the tiles provided for the project are "A Quality" Also, contractor is required to provide copy of LC issued to the manufacturer showing that A-Quality tile are ordered.				
4)	In order to avoid cracks at the joints, the contractor shall ensure that all joints of dry wall and Gypsum Boards (both for ceiling, bulkhead and walls) be reinforced with minimum 50 mm wide self-adhesive fiberglass mesh tape, for gypsum / dry wall joints. Gypsum compound joint shall be applied to the Fiberglass tape mesh before painting works are done.				
5)	Contractor is required to provide samples and mock-up at site for suspension system for false ceiling, which should be based on the seismic Zone-4 requirements. The price of suspension system is inclusive in the price of false ceiling. No extra amount shall be paid in this regard.				
6)	Contractor is required to use crane for shifting of material expenses for use of crane deemed to be included in the quoted rates. Tower Crane has to be transported to site & made ready for work before commencement of construction works.				
7)	Contractor is required to use temporary lift and expenses for use of lift deemed to be included in the quoted rates.				
8)	Cost of all kind of cartage and steel pipe scaffolding is deemed to be included in the quoted rates and no extra payment will be entertained in this regards.				
9)	Whether mentioned anywhere or not, any sort of cutting, the cutting work has to be done with electric grinder of appropriate size. Chizzling is not allowed				
10)	All pipes, conduits, HVAC, wiring & joints of concrete & blocks masonry should have metal laith laid over before plaster. Plaster cost is deemed to be included the cost of metal laith and expenses on account of cutting with electric grinder.				
11)	IMPORTANT NOTE: For finishing works, refer to the drawings and in case there is a difference, confirm with Consultant before pricing the tender and execution at site.				
	PLASTER				
7.01	Providing and applying 13mm to 19mm thick cement sand plaster on walls, slab & columns, etc., including making edges & corners with corner/angle beads, plaster stops, supply & fixing G.I. wire gauge lath 6" wide fixed with concrete nails at junctions of walls/beams/columns, making edges, corners, bends with all required scaffolding & curing, etc. complete in all respects as per drawings, specifications, instructions and approval of the Engineer. Nominal Ratio. 1:4				
i)	Basement - 2	51,932	Sft.		
ii)	Basement - 1	55,363	Sft.		
iii)	Ground Floor	75,648	Sft.		

BILL NO. 7. - FINISHES					
S. No	Description	Qty	Unit	Rate	Amount
iv)	1st Floor	67,488	Sft.		
v)	2nd Floor	56,912	Sft.		
vi)	3rd Floor	40,283	Sft.		
vii)	4th Floor	40,283	Sft.		
viii)	5th Floor	40,283	Sft.		
ix)	6th Floor	40,283	Sft.		
x)	7th Floor	40,283	Sft.		
xi)	8th Floor	40,283	Sft.		
xii)	9th Floor	42,966	Sft.		
xiii)	10th Floor	42,127	Sft.		
xiv)	Roof	7,642	Sft.		
7.02	Providing and applying 19mm to 38mm thick cement sand plaster on external walls, slabs & columns, etc. including making edges & corners with corner/angle beads, plaster stopper, G.I. wire gauge lath 6" wide fixed with concrete nails at junctions of wall/beams/columns. Plaster on external walls includes making edges, corners, decor-band, grooves i/c required scaffolding & curing, etc. complete in all respects, as per drawings, specifications, as per direction and approval of the Engineer. Nominal Ratio. 1:4				
i)	Ground Floor	6,347	Sft.		
ii)	1st Floor	5,672	Sft.		
iii)	2nd Floor	6,595	Sft.		
iv)	3rd Floor	7,343	Sft.		
v)	4th Floor	7,343	Sft.		
vi)	5th Floor	7,343	Sft.		
vii)	6th Floor	7,343	Sft.		
viii)	7th Floor	7,343	Sft.		
ix)	8th Floor	7,343	Sft.		
x)	9th Floor	7,447	Sft.		
xi)	10th Floor	7,431	Sft.		
xii)	Roof	3,182	Sft.		
	FLOORING				
7.03	Providing and laying Imported Matt / Gloss finish Porcelain Tile in Floor 36" x 36" size, as shown in the drawings, of approved shades, color and patterns in any design laid over 3/4" thick cement sand mortar base (1:4), with slurry of grey cement over base including filling the joints with approved grout of matching color, curing, finishing, and cleaning on completion, the cost include cartage all lead and lift at any height in any floor. complete in all respects as per direction of the Engineer. (Made of UAE, Spanish or any other Equivalent as approved by the Engineer.)	15,761	Sft.		

BILL NO. 7. - FINISHES					
S. No	Description	Qty	Unit	Rate	Amount
7.04	Providing and laying Imported Matt / Gloss finish Porcelain Tiles Skirting / Dado of approved size as shown on the drawings in approved shades, color and patterns in any design including 1/2" thick cement sand base (1:4), Setting of tiles with slurry of grey cement over base including filling the joints with approved grout of matching color curing, finishing, and cleaning on completion, at any height in any floor, including the cost of cartage etc. complete in all respects as per direction of the Engineer. (Made of UAE, Spanish or any other Equivalent as approved by the Engineer.)	5,932	Sft.		
7.05	Providing and laying Imported Matt / Gloss finish Porcelain Tile in Floor 24" x 24" size, as shown in the drawings, of approved shades, color and patterns in any design laid over 3/4" thick cement sand mortar base (1:4), with slurry of grey cement over base including filling the joints with approved grout of matching color, curing, finishing, and cleaning on completion, at any height in any floor, including the cost of cartage etc. complete in all respects as per direction of the Engineer. (Made of UAE, Spanish or any other Equivalent as approved by the Engineer.)				
i)	Ground Floor	1,513	Sft.		
ii)	1st Floor	1,761	Sft.		
iii)	2nd Floor	823	Sft.		
iv)	3rd Floor	17,695	Sft.		
v)	4th Floor	13,971	Sft.		
vi)	5th Floor	13,971	Sft.		
vii)	6th Floor	13,971	Sft.		
viii)	7th Floor	13,971	Sft.		
ix)	8th Floor	13,971	Sft.		
x)	9th Floor	10,449	Sft.		
xi)	10th Floor	9,618	Sft.		
7.06	Providing and laying Imported Matt / Gloss finish Porcelain Tiles Skirting / Dado of approved size as shown in the drawings of approved shades, color and patterns in any design including 1/2" thick cement sand base (1:4), Setting of tiles with slurry of grey cement over base including filling the joints with approved grout of matching color curing, finishing, and cleaning on completion, at any height in any floor, including the cost of cartage etc. complete in all respects as per direction of the Engineer. (Made of UAE, Spanish or any other Equivalent as approved by the Engineer.)				
i)	Ground Floor	3,937	Sft.		
ii)	1st Floor	3,348	Sft.		
iii)	2nd Floor	2,030	Sft.		
iv)	3rd Floor	6,189	Sft.		

BILL NO. 7. - FINISHES					
S. No	Description	Qty	Unit	Rate	Amount
v)	4th Floor	6,189	Sft.		
vi)	5th Floor	6,189	Sft.		
vii)	6th Floor	6,189	Sft.		
viii)	7th Floor	6,189	Sft.		
ix)	8th Floor	6,189	Sft.		
x)	9th Floor	5,271	Sft.		
xi)	10th Floor	5,144	Sft.		
7.07	Providing and laying Imported Matt / Gloss finish Porcelain Tile in Floor 216 Sq. Inches to 288 Sq. Inches size, as shown in the drawings, of approved shades, color and patterns in any design laid over 3/4" thick cement sand mortar base (1:4), with slurry of grey cement over base including filling the joints with approved grout of matching color, curing, finishing, and cleaning on completion, at any height in any floor, including the cost of cartage etc. complete in all respects as per direction of the Engineer. (Made of UAE, Spanish or any other Equivalent as approved by the Engineer.)				
i)	3rd Floor	1,674	Sft.		
ii)	4th Floor	1,674	Sft.		
iii)	5th Floor	1,674	Sft.		
iv)	6th Floor	1,674	Sft.		
v)	7th Floor	1,674	Sft.		
vi)	8th Floor	1,674	Sft.		
vii)	9th Floor	1,399	Sft.		
viii)	10th Floor	1,399	Sft.		
7.08	Providing and laying imported Matt / Gloss finish Porcelain Tiles Skirting / Dado of approved size as shown on the drawings in approved shades, color and patterns in any design including 1/2" thick cement sand base (1:4), Setting of tiles with slurry of grey cement over base including cutting the tiles with machine cutter in required size & shape and filling the joints with approved grout of matching color curing, finishing, and cleaning on completion, at any height in any floor, including the cost of cartage etc. complete in all respects as per direction of the Engineer. (Made of UAE, Spanish or any other Equivalent as approved by the Engineer.)				
i)	3rd Floor	2,961	Sft.		
ii)	4th Floor	2,961	Sft.		
iii)	5th Floor	2,961	Sft.		
iv)	6th Floor	2,961	Sft.		
v)	7th Floor	2,961	Sft.		
vi)	8th Floor	2,961	Sft.		
vii)	9th Floor	2,321	Sft.		
viii)	10th Floor	2,321	Sft.		

BILL NO. 7. - FINISHES

S. No	Description	Qty	Unit	Rate	Amount
7.09	Providing and laying Imported make Elevation Tile in Floor 160Sq. Inches to 260 Sq. Inches in any size, as shown in the drawings, of approved shades, color and patterns in any design laid over 3/4" thick cement sand mortar base (1:4), with slurry of grey cement over base including filling the joints with approved grout of matching color, curing, finishing, and cleaning on completion, at any height in any floor. The cost include all cartage, lead and lift etc. complete in all respects as per direction of the Engineer. (Made of UAE, Thailand, Spanish or any other Equivalent as approved by the Engineer.)				
i)	Ground Floor	675	Sft.		
ii)	1st Floor	527	Sft.		
iii)	2nd Floor	502	Sft.		
iv)	3rd Floor	3,996	Sft.		
v)	4th Floor	3,996	Sft.		
vi)	5th Floor	3,996	Sft.		
vii)	6th Floor	3,996	Sft.		
viii)	7th Floor	3,996	Sft.		
ix)	8th Floor	3,996	Sft.		
x)	9th Floor	3,334	Sft.		
xi)	10th Floor	3,334	Sft.		
7.10	Providing and laying Imported Ceramic Tile in Floor 216 Sq. Inches to 576 Sq. Inches size, as shown in the drawings, of approved shades, color and patterns in any design laid over 3/4" thick cement sand mortar base (1:4), with slurry of grey cement over base including cutting the tiles with machine cutter in required size & shape and filling the joints with approved grout of matching color, curing, finishing, and cleaning on completion, at any height in any floor. The cost includes all lead and lift etc. complete in all respects as per direction of the Engineer. (Made of UAE, Spanish or any other Equivalent as approved by the Engineer.)				
i)	Basement - 1	100	Sft.		
ii)	Ground Floor	2,362	Sft.		
iii)	1st Floor	1,188	Sft.		
iv)	2nd Floor	863	Sft.		
v)	3rd Floor	2,281	Sft.		
vi)	4th Floor	2,281	Sft.		
vii)	5th Floor	2,281	Sft.		
viii)	6th Floor	2,281	Sft.		
ix)	7th Floor	2,281	Sft.		
x)	8th Floor	2,281	Sft.		
xi)	9th Floor	2,000	Sft.		
xii)	10th Floor	2,069	Sft.		

BILL NO. 7. - FINISHES					
S. No	Description	Qty	Unit	Rate	Amount
7.11	Providing and laying Imported Ceramic Tiles Skirting / Dado of approved size as shown of the drawings in approved shades, color and patterns in any design including 1/2" thick cement sand base (1:4), Setting of tiles with slurry of grey cement over base including cutting the tiles with machine cutter in required size & shape and filling the joints with approved grout of matching color curing, finishing, and cleaning on completion, at any height in any floor, including the cost of cartage etc. complete in all respects as per direction of the Engineer. (Made of UAE, Thailand, Spanish or any other Equivalent as approved by the Engineer.)				
i)	Basement - 1	213	Sft.		
ii)	Ground Floor	3,740	Sft.		
iii)	1st Floor	3,170	Sft.		
iv)	2nd Floor	1,909	Sft.		
v)	3rd Floor	2,721	Sft.		
vi)	4th Floor	2,721	Sft.		
vii)	5th Floor	2,721	Sft.		
viii)	6th Floor	2,721	Sft.		
ix)	7th Floor	2,721	Sft.		
x)	8th Floor	2,721	Sft.		
xi)	9th Floor	2,354	Sft.		
xii)	10th Floor	2,354	Sft.		
7.12	Providing & laying 3" thick floor in panel using glass pati of 1-1/2 size 1:2:4 cement concrete using graded & screened crush 3/4" thick & down gauge as directed. The cost include all form work, curing, lead, lift, scaffolding etc. complete in all respect.				
i)	Basement - 2	22,725	Sft.		
ii)	Basement - 1	23,094	Sft.		
iii)	Ground Floor	817	Sft.		
iv)	1st Floor	219	Sft.		
v)	2nd Floor	1,824	Sft.		
vi)	3rd Floor	229	Sft.		
vii)	4th Floor	229	Sft.		
viii)	5th Floor	229	Sft.		
ix)	6th Floor	229	Sft.		
x)	7th Floor	229	Sft.		
xi)	8th Floor	229	Sft.		
xii)	9th Floor	229	Sft.		
xiii)	10th Floor	229	Sft.		
xiv)	11th Floor	229	Sft.		

BILL NO. 7. - FINISHES					
S. No	Description	Qty	Unit	Rate	Amount
7.13	Providing and fixing polished 3/4" thick Tossa White Marble One Piece with 1/4" thick carborendum fill length wise on Tread making round edges & corners setting in 1:4 Cement sand mortar base 3/4" thick, washing the tiles with cement slurry of matching color grinding, chemical polishing etc. at any height in any floor. The cost include cartage etc. complete in all respect as per direction of the Engineer.)				
i)	Basement - 2	626	Sft.		
ii)	Basement - 1	642	Sft.		
iii)	Ground Floor	1,717	Sft.		
iv)	1st Floor	646	Sft.		
v)	2nd Floor	650	Sft.		
vi)	3rd Floor	676	Sft.		
vii)	4th Floor	676	Sft.		
viii)	5th Floor	676	Sft.		
ix)	6th Floor	676	Sft.		
x)	7th Floor	676	Sft.		
xi)	8th Floor	676	Sft.		
xii)	9th Floor	676	Sft.		
xiii)	10th Floor	676	Sft.		
7.14	Providing and fixing 3/8" thick Tossa White Marble on riser over 1/2" (13mm) thick base of cement sand mortar 1:3 setting of tiles in slurry of grey cement over mortar base including filling the joints with approved quality grout of matching color and washing the tiles with matching grout, curing, finishing, cleaning and chemical polishing etc, at any height in any floor, including the cost of cartage complete in all respect and as per direction of the Engineer.				
i)	Basement - 2	124	Sft.		
ii)	Basement - 1	145	Sft.		
iii)	Ground Floor	391	Sft.		
iv)	1st Floor	179	Sft.		
v)	2nd Floor	174	Sft.		
vi)	3rd Floor	135	Sft.		
vii)	4th Floor	135	Sft.		
viii)	5th Floor	135	Sft.		
ix)	6th Floor	135	Sft.		
x)	7th Floor	135	Sft.		
xi)	8th Floor	135	Sft.		
xii)	9th Floor	135	Sft.		
xiii)	10th Floor	135	Sft.		

BILL NO. 7. - FINISHES					
S. No	Description	Qty	Unit	Rate	Amount
7.15	Providing decorative landings comprising 3/4" thick Tossa White Marble of approved pattern, shape best quality over 1-1/2" thick base of cement sand mortar 1:3 setting of tiles in slurry of grey cement over mortar base including filling the joints and washing the tiles with approved grout of matching color, curing, finishing, cleaning and chemical polishing, cutting tile of different sizes required as per the drawing / site etc, at any height in any floor, including the cost of cartage complete in all respect as per direction and approval of the Engineer.	871	Sft.		
7.16	Providing and fixing polished 3/4" thick Torched Granite best quality Matt / Gloss finish of any approved shade and type, One Piece with 1/4" thick carborendum fill length wise on Tread with 1:4 Cement sand mortar base 3/4" thick, washing the tiles with cement slurry of matching color including cutting, chemical polishing etc. at any height at any floor, including the cost of cartage complete in all respect as per direction of the Engineer.)	325	Sft.		
7.17	Providing and fixing 3/8" thick Granite best quality Matt / Gloss finish on riser over 1/2" (13mm) thick base of cement sand mortar 1:3 setting of tiles in slurry of grey cement over mortar base including filling the joints and washing the tiles with grout of matching color, curing, finishing, cleaning and chemical polishing etc, at any height in any floor, including the cost of cartage complete in all respect as per direction and approval of the Engineer.	120	Sft.		
7.18	Providing decorative landings comprising 3/4" thick Granite of approved color, pattern, shape best quality over 1-1/2" thick base of cement sand mortar 1:3 setting of tiles in slurry of grey cement over mortar base including filling the joints and washing the tiles with approved grout of matching color, curing, finishing, cleaning and chemical polishing, cutting tile of different sizes required as per the drawing / site etc, at any height in any floor, including the cost of cartage complete in all respect as per direction and approval of the Engineer.	317	Sft.		
7.19	Providing & fixing 3/4" thick Granite in floors best quality of approved size, shapes, color and types with Sheen tiles of 576 Sq. Inches to 1152 Sq. Inches , mix color over cement sand mortar (1:4) 1-1/4" thick, setting of tiles with slurry of grey cement over mortar base i/c filling the joints with grout of matching color grinding, chemical polishing and curing etc. at any height in any floor complete as per drawing and instructions of the Engineer.				
i)	Basement - 2	403	Sft.		

BILL NO. 7. - FINISHES					
S. No	Description	Qty	Unit	Rate	Amount
ii)	Basement - 1	403	Sft.		
iii)	Ground Floor	8,139	Sft.		
iv)	1st Floor	4,426	Sft.		
v)	2nd Floor	3,321	Sft.		
vi)	3rd Floor	2,191	Sft.		
vii)	4th Floor	2,191	Sft.		
viii)	5th Floor	2,191	Sft.		
ix)	6th Floor	2,191	Sft.		
x)	7th Floor	2,191	Sft.		
xi)	8th Floor	2,191	Sft.		
xii)	9th Floor	3,439	Sft.		
xiii)	10th Floor	2,191	Sft.		
7.20	Providing and fixing 3/8" thick Granite in Skirting / Dado best quality with sheen on floors, over 1/2" (13mm) thick base of cement sand mortar 1:3 setting of tiles in slurry of grey cement over mortar base including filling the joints and washing the tiles with grout of matching color, curing, finishing, cleaning and chemical polishing etc, complete in all respect as per direction & approval of the Engineer.				
i)	Basement - 2	678	Sft.		
ii)	Basement - 1	622	Sft.		
iii)	Ground Floor	3,775	Sft.		
iv)	1st Floor	4,334	Sft.		
v)	2nd Floor	3,655	Sft.		
vi)	3rd Floor	1,727	Sft.		
vii)	4th Floor	1,727	Sft.		
viii)	5th Floor	1,727	Sft.		
ix)	6th Floor	1,727	Sft.		
x)	7th Floor	1,727	Sft.		
xi)	8th Floor	1,727	Sft.		
xii)	9th Floor	2,315	Sft.		
xiii)	10th Floor	1,605	Sft.		
7.21	Providing & fixing Granite Glaxy black or equivalent best quality vanity in top of approved color, shade and type, slab using 1-1/4 inch thick 3'-6" x 2' in size including vertical, horizontal and mid shelve of granite where required, glazed cutting one hole for bowl in granite top complete including fixing of granite side shelves & front border, polishing, making corner, edges in round shapes etc., complete as per drawings & design and as per instruction of the Engineer.				
i)	Basement - 1	340	Sft.		
ii)	Ground Floor	340	Sft.		
iii)	1st Floor	340	Sft.		
iv)	2nd Floor	340	Sft.		
v)	3rd Floor	340	Sft.		
vi)	4th Floor	340	Sft.		
vii)	5th Floor	340	Sft.		
viii)	6th Floor	340	Sft.		

BILL NO. 7. - FINISHES					
S. No	Description	Qty	Unit	Rate	Amount
ix)	7th Floor	340	Sft.		
x)	8th Floor	340	Sft.		
xi)	9th Floor	340	Sft.		
xii)	10th Floor	340	Sft.		
7.22	Providing & fixing Tossa White Marble tiles of 432 sq. inches to 576 sq. inches mix color over cement sand mortar (1:4) 1-1/4" thick, setting of tiles with slurry of grey cement over mortar base i/c filling the joints with approved grout of matching color grinding, chemical polishing, etc. complete as per drawing and instructions of the Engineer.	2,050	Sft.		
7.23	Providing and fixing 3/8" thick Tossa White Marble on Skirting / Dado over 1/2" (13mm) thick base of cement sand mortar 1:3 setting of tiles in slurry of grey cement over mortar base including filling the joints and washing the tiles with approved quality grout of matching color, curing, finishing, cleaning and chemical polishing etc, at any height in any floor, including the cost of cartage etc. complete in all respect as per direction and approval of the Engineer.	115	Sft.		
7.24	Providing and fixing polished 3/4" thick Ziarat White Marble One Piece with 1/4" thick carborendum fill length wise on Tread with 1:4 Cement sand mortar base 3/4" thick, washing the tiles with cement slurry of matching color including cutting, chemical polishing etc. at any height in any floor, including the cost of cartage etc. complete in all respect and as per direction of the Engineer.)	210	Sft.		
7.25	Providing and fixing 3/8" thick Ziarat White Marble on riser over 1/2" (13mm) thick base of cement sand mortar 1:3 setting of tiles in slurry of grey cement over mortar base including filling the joints and washing the tiles with matching color grout, curing, finishing, cleaning and chemical polishing etc, at any height in any floor, including the cost of cartage etc. complete in all respect as per directions and approval of the Engineer.	105	Sft.		
7.26	Providing decorative landings comprising 3/4" thick Ziarat White Marble of approved pattern, shape best quality over 1-1/2" thick base of cement sand mortar 1:3 setting of tiles in slurry of grey cement over mortar base including filling the joints and washing the tiles with approved grout of matching color, curing, finishing, cleaning and chemical polishing , cutting tile of different sizes required as per the drawing / site etc, at any height in any floor, including the cost of cartage complete in all respect as per direction and approval of the Engineer.	198	Sft.		

BILL NO. 7. - FINISHES					
S. No	Description	Qty	Unit	Rate	Amount
7.27	Providing and fixing 3/8" thick Ziarat White Marble on Skirting over 1/2" (13mm) thick base of cement sand mortar 1:3 setting of tiles in slurry of grey cement over mortar base including filling the joints and washing the tiles with grout of matching color, curing, finishing, cleaning and chemical polishing etc, at any height in any floor, including the cost of cartage etc. complete in all respect as per directions and approval of the Engineer.	120	Sft.		
7.28	Supply and apply in approved colors, non slip multilayered epoxy coating for flooring on ramps and other areas, as per specifications and manufacturer's recommendations. Complete in all respect. Minimum 1000 microns to provide seamless finish.	184	Sft.		
7.29	Providing and laying synthetic carpet of approved colors & designs, including underlay, stitching, where required, cost include all lead and lift charges, complete in all respects, as per the approval of the Engineer. (For Prayer Room)	2,223	Sft.		
7.30	Providing and laying imported Woolen Saffs of approved colors & designs cost include all lead and lift charges, complete in all respects, as per the approval of the Engineer. (For Prayer Room)	2,223	Sft.		
7.31	Providing and fixing Heavy Duty Safety Rubber Mat / Tiles floor / dado after rectification of minor undulations as per drawings, specification and approval of the Engineer.	653	Sft.		
7.32	Supplying and applying non slip high build flooring system for parking area with approved material i/c surface preparation, primer & sealer etc, complete as per drawings, specification and approval of the Engineer.	56,000	Sft.		
WOODEN FLOORING					
<u>IMPORTANT NOTES:</u>					
a)	The flooring installation should be done at the end of finishing works.				
b)	All wood must be dried & seasoned with moisture content of 7 to 8 %.				
c)	Contractor is required to make sure that the top level of each flooring should be same or as desired by consultant.				
7.33	Providing and laying Wooden Tiles flooring and skirting of approved colors & designs of interwood, First floor, Lamett or equivalent. cost include all lead and lift charges, complete in all respects, as per the approval of the Engineer. Work to be done by specialized sub - contractor.	2,496	Sft.		

BILL NO. 7. - FINISHES					
S. No	Description	Qty	Unit	Rate	Amount
	PAINT				
7.34	Supply and applying Washable Matt Finish Paint on interior Plastered walls of approved manufacturer and shade, applied by roller for shell finish, 3 coats over & including primer coat, ready-mix based wall filling putty in voids & rubbing the surface, complete in all respect, on all plaster surfaces at any height in any floor, as directed by the Engineer.				
i)	Basement - 2	36,521	Sft.		
ii)	Basement - 1	32,286	Sft.		
iii)	Ground Floor	78,694	Sft.		
iv)	1st Floor	63,407	Sft.		
v)	2nd Floor	53,658	Sft.		
vi)	3rd Floor	26,718	Sft.		
vii)	4th Floor	26,718	Sft.		
viii)	5th Floor	26,718	Sft.		
ix)	6th Floor	26,718	Sft.		
x)	7th Floor	26,718	Sft.		
xi)	8th Floor	26,718	Sft.		
xii)	9th Floor	26,495	Sft.		
xiii)	10th Floor	28,511	Sft.		
xiv)	Roof	1,850	Sft.		
7.35	Supply and applying Distemper of approved manufacturer and shade, applied roller for shell finish, 3 coats over & including primer coat, filling, putty in voids & rubbing the surface, complete in all respect, on all ceiling plaster surfaces at any height in any floor, as directed by the Engineer.				
i)	Basement - 2	45,178	Sft.		
ii)	Basement - 1	51,219	Sft.		
iii)	Ground Floor	19,675	Sft.		
iv)	1st Floor	9,614	Sft.		
v)	2nd Floor	28,553	Sft.		
vi)	3rd Floor	13,302	Sft.		
vii)	4th Floor	13,302	Sft.		
viii)	5th Floor	13,302	Sft.		
ix)	6th Floor	13,302	Sft.		
x)	7th Floor	13,302	Sft.		
xi)	8th Floor	13,302	Sft.		
xii)	9th Floor	14,435	Sft.		
xiii)	10th Floor	13,617	Sft.		
xiv)	Roof	325	Sft.		
7.36	Supply and applying Weather Shield Paint on interior / exterior Plastered walls of approved manufacturer and shade, applied by roller for shell finish, 3 coats over & including primer coat, ready-mix based wall filling putty in voids & rubbing the surface, complete in all respect, on all plaster surfaces at any height in any floor, as directed by the Engineer. at any height in any floor.	40,366	Sft.		

BILL NO. 7. - FINISHES					
S. No	Description	Qty	Unit	Rate	Amount
	FALSE CEILING				
7.37	Providing & fixing gypsum board false ceiling system with 1/2" thick sheets including providing bulkheads, decorative works, all required decorative work in Gypsum, with complete fixing suspension system including G.I. strips/wires, furring channels/angles, and with self adhesive fiberglass drywall tape of 2" width to be used on all joints prior to applying putty, filling and rubbing having provisions for lights, AC and all electro-mechanical items installed in false ceiling, painted with 3 coats of plastic emulsion paint with one prime coat as per paint specifications, all as mentioned in drawings, with male female edges, v-joints, etc. All the edges to be properly sealed. Contractor to submit brochures & detailed shop drawings for the approval of the Engineer prior to actual start of works. The reflective false ceiling plan should show all items to be installed on false ceiling including but not limited to lights, A/C diffusers, Fire or other required electro-mechanical Items to be completed in all respects, as per the direction of the Engineer. Work to be done by specialized sub - contractor.				
i)	Basement - 2	415	Sft.		
ii)	Basement - 1	415	Sft.		
iii)	Ground Floor	5,077	Sft.		
iv)	1st Floor	8,720	Sft.		
v)	2nd Floor	415	Sft.		
vi)	3rd Floor	3,864	Sft.		
vii)	4th Floor	3,864	Sft.		
viii)	5th Floor	3,864	Sft.		
ix)	6th Floor	3,864	Sft.		
x)	7th Floor	3,864	Sft.		
xi)	8th Floor	3,864	Sft.		
xii)	9th Floor	30,735	Sft.		
xiii)	10th Floor	3,864	Sft.		
7.38	Providing & fixing Aluminum Perforated Panel Ceiling size 720 Sq. Inches to 1440 Sq. Inches with complete suspension system, decorative works and mechanism as required in suspension system and mechanism places, as mentioned in drawings, with male female edges, v-joints, etc. All the edges to be properly sealed and to foresee locations for water heaters & A/C, where required. complete in all respects with shop drawings, etc. Work to be done by specialized sub - contractor. at any height in any floor.	3,501	Sft.		

BILL NO. 7. - FINISHES					
S. No	Description	Qty	Unit	Rate	Amount
7.39	Providing & fixing Aluminum Perforated Panel Ceiling size 144 Sq. Inches to 720 Sq. Inches with complete suspension system, decorative works and mechanism as required in suspension system and mechanism places, as mentioned in drawings, with male female edges, v-joints, etc. All the edges to be properly sealed and to foresee locations for water heaters & A/C, where required. complete in all respects with shop drawings, etc. Work to be done by specialized sub - contractor. at any height in any floor.	15,206	Sft.		
7.40	Providing & fixing POP Border and Motif border , in any shape and design i/c fixing in position complete in all respect as per the direction of the Engineer.				
i)	3rd Floor	588	Sft.		
ii)	4th Floor	588	Sft.		
iii)	5th Floor	588	Sft.		
iv)	6th Floor	588	Sft.		
v)	7th Floor	588	Sft.		
vi)	8th Floor	588	Sft.		
vii)	9th Floor	588	Sft.		
viii)	10th Floor	588	Sft.		
MISC					
7.41	Providing and fixing in position of 3/4" thick polished Indian Green / Jungle green or any color and shade in Granite including polishing, making corner, edges in round shapes etc on counter top for Kitchen & pantry, the cost includes cartage, all lead and lift at any height in any floor, complete as per drawings and instruction of the Engineer.				
i)	Basement - 1	120	Sft.		
ii)	Ground Floor	120	Sft.		
iii)	1st Floor	120	Sft.		
iv)	2nd Floor	120	Sft.		
v)	3rd Floor	120	Sft.		
vi)	4th Floor	120	Sft.		
vii)	5th Floor	120	Sft.		
viii)	6th Floor	122	Sft.		
ix)	7th Floor	122	Sft.		
x)	8th Floor	122	Sft.		
xi)	9th Floor	122	Sft.		
x)	10th Floor	122	Sft.		
7.42	Providing and applying Decorative Work on Wall, wood work including the cost of coloring etc and Art work, as specified and directed by the Architect and the Engineer. Complete in all respect including the cost of cartage, all lead and lift at any height in any floor. (Contractor to Submit the concept sketch plan before execution of the work.)	1	Job.		

BILL NO. 7. - FINISHES					
S. No	Description	Qty	Unit	Rate	Amount
7.43	Providing and fixing Decorative Motif of Granite tiles of approved color and design square, rectangular or octagonal shapes where required in the Lobby, Entrance, Hall and Passages etc. including matching color grouting or as directed by the Architect and the Engineer. Complete in all respect including the cost of cartage, all lead and lift at any height in any floor. (Contractor to Submit the concept sketch plan before execution of the work.)	120	Sft.		
7.44	Providing and fixing Decorative Motif of Ceramic tiles of approved color and design square, rectangular or octagonal shapes where required in the bathroom including matching color grouting or as directed by the Architect and the Engineer. Complete in all respect including the cost of cartage, all lead and lift at any height in any floor. (Contractor to Submit the concept sketch plan before execution of the work.)	2,200	Nos.		
7.45	Providing and fixing Decorative Motif of Porcelain tiles of approved color and design square, rectangular or octagonal shapes where required in the kitchen including matching color grouting or as directed by the Architect and the Engineer. Complete in all respect including the cost of cartage, all lead and lift at any height in any floor. (Contractor to Submit the concept sketch plan before execution of the work.)	672	Nos.		
7.46	Providing & fixing 12mm thick plain glass of approved quality i/c all required accessories for fixing in proper position, complete in all respect as per the direction of the Engineer at any height in any floor.	20	Sft.		
7.47	Providing & fixing in position of Aluminum cladding "Aluccobond" or "ALPOLIC" walls panels sheets of approved size, colors & shape. Fixing on columns or walls complete with all required accessories, all as per manufacturer's specifications and approval by the Engineer. The contractor has to get the design, details and shop drawings approved of the Engineer. In case of omission of any necessary item above, shall be deemed to be included in the quoted rate. (Work to be done by specialist Sub-Contractor approved by the Engineer.				
a	On walls, columns and external cladding.	84,281	Sft.		

BILL NO. 7. - FINISHES					
S. No	Description	Qty	Unit	Rate	Amount
7.48	Providing and fixing best quality imported teak wood well seasoned clerestory, jafri, shelves, partitions, hand rail, louvers, posts, trellis and rafter etc. complete in all respect as per design and drawing and as per direction of the Engineer. The cost includes cartage, all lead and lift at any height in any floor. Work to be done by specialized sub - contractor.				
i)	Ground Floor	113	Cft.		
ii)	1st Floor	110	Cft.		
iii)	2nd Floor	71	Cft.		
iv)	3rd Floor	28	Cft.		
v)	4th Floor	28	Cft.		
vi)	5th Floor	28	Cft.		
vii)	6th Floor	28	Cft.		
viii)	7th Floor	28	Cft.		
ix)	8th Floor	28	Cft.		
x)	9th Floor	24	Cft.		
xi)	10th Floor	28	Cft.		
7.49	Providing and fixing best quality imported teak wood well seasoned Jafri with 1/2" x 1-1/2" batten forming apertures 1-1/2"x1-1/2" including the cost of frame works as per design and drawing and as per direction of the Engineer. The cost includes cartage, all lead and lift at any height in any floor.	2,544	Cft.		
7.50	Providing and fixing best quality imported teak wood well seasoned pergola i/c tempered glass with gasket, polishing and all required accessories etc. complete in all respect as per design and drawing and as per direction of the Engineer. The cost includes cartage, all lead and lift at any height in any floor.	1,352	Sft.		
7.51	Providing & applying Matt polishing three coats of approved color & make on wood work including cost of Chalk powder, Spirit methylated, Sand paper, Color Packet, Malmal, Cotton, French polish (Lok Dana), Matt Lacquer & Seller of approved quality, at any height in any floor complete in all respect as per the directions of the Engineer.	7,020	Sft.		
7.52	Providing and fixing wooden cupboards 1-1/4 inch (32mm) thick best quality deodar wood planking in shelves or almirahs with deodar wood battens 1-1/2" x 2" (38mm x 50mm) frame fixed in walls with Lasani laminated door shutters including lipping, two draws lamination sheet partition divider and footrest, etc and SS doors handles, imported locks (Italy, Germany), SS hinges, SS screws, SS tower bolt 6" long and rawal plugs etc, imported draws channel of approved make, as required complete in all respects as per direction of the Engineer. The cost includes cartage, all lead and lift at any height in any floor.				
i)	3rd Floor	1,620	Sft.		

BILL NO. 7. - FINISHES					
S. No	Description	Qty	Unit	Rate	Amount
ii)	4th Floor	1,620	Sft.		
iii)	5th Floor	1,620	Sft.		
iv)	6th Floor	1,620	Sft.		
v)	7th Floor	1,620	Sft.		
vi)	8th Floor	1,620	Sft.		
vii)	9th Floor	1,524	Sft.		
viii)	10th Floor	1,620	Sft.		
7.53	Providing and fixing natural stone cladding of approved design, pattern, size & quality on walls with 1:4 cement sand mortar base of 3/4" thickness setting the tiles with neat cement mortar, grouting the joints 1/4" with matching grout of approved manufacturer / supplier, including mechanism of nails, grouting, inserting in walls, with proper fixing in place with and i/c required accessories etc, curing, finishing as per the instructions & approval of the Engineer and as per design and drawings. The cost includes cartage, scaffolding, lead and lift at any height in any floor, complete in all respect.	24,985	Sft		
7.54	Providing and fixing Artificial envi stone cladding of approved design, pattern, size & quality on walls with 1:4 cement sand mortar base of 3/4" thickness setting the tiles with neat cement mortar, grouting the joints 1/4" with matching grout of approved manufacturer / supplier, including mechanism of nails, grouting, inserting in walls, with proper fixing in place with and i/c required accessories etc, curing, finishing as per the instructions & approval of the Engineer and as per design and drawings. The cost includes cartage, lead and lift at any height in any floor, complete in all respect.(Envicrete or equivalent)	3,498	Sft		
7.55	Providing and laying reinforced cement concrete using graded & screened crush 3/4" thick & down gauge having cylindrical crushing strength of 2500 psi at 28 days in coping and cornice of walls moulded to design including form works, and its removal, compacting and curing etc. complete in all respect as per drawing and direction of the Engineer.	438	Cft		
7.56	Providing and fixing concave mirror of 60 cm dia of approved manufacturer (Imported quality) at each turning etc complete or as directed by the Engineer incharge in all respect.	3	Each.		

BILL NO. 7. - FINISHES

S. No	Description	Qty	Unit	Rate	Amount
7.57	Providing & applying road/ pavement marking in car parking tower area in reflective paint for lines 150 mm wide land marking & edges lines, arrows, writings like exit, entry, etc., complete in all respect as directed by the Engineer. (Approved manufacturer's Berger) All works to be done as per the manufacturer's specifications.	3,488	Rft.		
7.58	Supply and install road sign board (Square 2' x 2' or 2' dia steel plate on 3" dia single post with clear post length 7' erected in CC 1:2:4 2' x 2' x 2' & painting of M.S plate & post or installed on walls (where applicable), writing of alphabets with reflective paints as per the direction & approval of the Engineer.	12	Nos		
7.59	Supply and install parking rubber signboards 20cm x 20cm steel plates with steel bracket of appropriate size, duly painted and marking of signs, numbers etc as required by the Engineer, complete in all respects.	20	Nos		
7.60	Providing & fixing in proper position 12mm thick frosted tempered glass wall i/c glass door for shower area of approved quality, color, shade & pattern i/c SS hinges, clips, SS top rail, gasket, packing with silicon etc, complete with all required accessories as per the direction of the Engineer at any height in any floor the cost includes all cartages.	9,500	Sft.		
7.61	Providing & fixing 16swg galvanized iron sheet covering of approved shape and design to expansion joints of roof slab with wooden gutties and screws etc. complete in all respects as directed by the Engineer.	640	Rft.		
7.62	Providing & fixing 15 ONZ Aluminum sheet covering to expansion joints in walls and columns as per approved design including providing clamps and fixing with screws and rawal plugs, or wooden gutties including making slotted holes etc. complete in all respects as directed by the Engineer. (Contractor to submit shop drawings to Engineer for approval before execution)	48	Rft.		
7.63	Providing and installing Building Management Unit tass-08 machines with winch system have safe working load. maximum lifting height 250 ft.i/c electrical equipment , control of gondola system, rope, winch machine, "dead man" control buttons at all control panel complete in all respect i/c all required accessories as per direction of the Engineer. In case of omission of any necessary item above, shall be deemed to be included in the quoted rate. at any height in any floor.	1	Job.		

BILL NO. 7. - FINISHES					
S. No	Description	Qty	Unit	Rate	Amount
7.64	Providing & laying water proofing system including avg. 3" thick Concrete having crushing strength 3000 psi @ 28 days. (nominal mix ratio 1:2:4) laid to slope , 5mm thick Bitumen Membrane with torch applied, One layer of thermopore sheets of 2" thick, Flood test of 24 hours. , etc complete in all respect as shown in drawings and per approval of the Engineer.	34,073	Sft.		
7.65	Supply and fix 50mm thick precast RCC jali, incl setting and jointing in CM 1:1, all as specified. Complete in all respect as per the direction of the Engineer. At any height in any floor. (Envicrete or other approved equivalent.)	600	Sft.		
7.66	Providing & installing remote control roller blinds of approved color & design with tracks complete with support assembly & curtain carriers (Nylon or Delrim) with either Nylon or Delrim axles. Each carrier shall be equipped either with stainless steel, chromium plated brass or steel hooks with swivel or Nickel Chromium Plated brass or SS bead chain & hooks. (LUXAFLEX® Sunscreens fabrics from Protectors or other equivalent). Complete in all respects. Contractor to provide shop dwgs & samples for the approval of the Engineer & shall be required to prepare a mock-up of full height prior to ordering.	580	Sft.		
7.67	Providing and fixing 2" dia semi circular stone gola of approved sand/lime stone as per the directions and approval of the engineer, chiseled, dressed and fixed with 1:2 cement mortar including curing etc. complete.	525	Rft.		
7.68	Colour-creting 1/4" (6.4 mm) thick 1:1:2 (1 white cement, 1 marble powder and 2 marble chips zero No.) in required shade including dragging the surface with wire brushes complete with curing etc. over a base of 3/4" (19 mm) thick cement plaster 1:3 in plinth, mezzanine and ground floor including the cost of base course as directed complete but excluding the cost of grooves or joint if provided.	2,060	Sft.		

BILL NO. 7. - FINISHES					
S. No	Description	Qty	Unit	Rate	Amount
	<p><i>Any item (i) described in the Bill of Quantities or relevant Specifications but not shown on the Drawings, or (ii) shown on the Drawings but not described in the Bill of Quantities or relevant Specifications, shall be of like effect as it has been shown and mentioned in both. Similarly, if any item which is neither shown on the drawing nor mentioned in the Bill of Quantities or Specification but is a pre-condition to carryout any item of the contract, it shall be considered to be included in the contract price, distributed among the rates and prices entered for the related items of works. It shall be clearly understood that no extra cost whatsoever shall be paid in case such discrepancies if any, exist in the above bill.</i></p>				
Total Amount of Bill No. 07					

BILL NO. 8 - KITCHEN					
S. No	Description	Qty	Unit	Rate	Amount
Note:-					
1)	Contractor is required to use crane for shifting of material expenses for use of crane deemed to be included in the quoted rates. Tower Crane has to be transported to site & made ready for work before commencement of construction works.				
2)	Contractor is required to use temporary lift and expenses for use of lift deemed to be included in the quoted rates.				
3)	Cost of all kind of cartage and steel pipe scaffolding is deemed to be included in the quoted rates and no extra payment will be entertained in this regards.				
8.01	Supply & fix, Kitchen Floor mounted Cabinet , 600 mm wide and 862mm high using 3/4" laminated lasani sheet with lipping shutter, drawers, planks, heavy duty catcher, SS approved shape handel incl all necessary chromium plated (CP) mongery, RCC slab, 50mm thick, PCC inside & all required accessories complete as per instruction of the Engineer. The cost includes cartage, wastage, finishing, all lead and lift at any floor in any height.				
i)	3rd Floor	445	Sft.		
ii)	4th Floor	445	Sft.		
iii)	5th Floor	445	Sft.		
iv)	6th Floor	445	Sft.		
v)	7th Floor	445	Sft.		
vi)	8th Floor	445	Sft.		
vii)	9th Floor	359	Sft.		
viii)	10th Floor	445	Sft.		
8.02	Supply & fix, Kitchen Floor mounted Cabinet , 600 mm wide and 862mm high using 1/2" laminated lasani sheet with lipping shutter, drawers, planks heavy duty catcher, SS approved shape handel incl all necessary chromium plated (CP) mongery, RCC slab, 50mm thick, PCC inside & all required accessories complete as per instruction of the Engineer. The cost includes cartage, wastage, finishing, all lead and lift at any floor in any height.				
i)	3rd Floor	186	Sft.		
ii)	4th Floor	186	Sft.		
iii)	5th Floor	186	Sft.		
iv)	6th Floor	186	Sft.		
v)	7th Floor	186	Sft.		
vi)	8th Floor	186	Sft.		
vii)	9th Floor	150	Sft.		
viii)	10th Floor	186	Sft.		

BILL NO. 8 - KITCHEN					
S. No	Description	Qty	Unit	Rate	Amount
8.03	Supply & fix, Kitchen Floor mounted Cabinet , 600 mm wide and 862mm high using 3/8" laminated lasani sheet with lipping shutter, drawers, planksheavy duty catcher, SS approved shape handel incl all necessary chromium plated (CP) mongery, RCC slab, 50mm thick, PCC inside & all required accessories complete as per instruction of the Engineer. The cost includes cartage, wastage, finishing, all lead and lift at any floor in any height.				
i)	3rd Floor	112	Sft.		
ii)	4th Floor	112	Sft.		
iii)	5th Floor	112	Sft.		
iv)	6th Floor	112	Sft.		
v)	7th Floor	112	Sft.		
vi)	8th Floor	112	Sft.		
vii)	9th Floor	90	Sft.		
viii)	10th Floor	112	Sft.		
8.04	Supply & fix, Kitchen Wall mounted Cabinet , 381 mm wide and 610mm high with Marine Teak or any other approved wood frame, using 3/4" Laminated Lasani Sheet wood shutter, drawers heavy duty catcher, SS approved shape handel incl all necessary chromium plated (CP) mongery, PCC inside i/c all required accessories complete as per instruction of the Engineer. The cost includes cartage, wastage, finishing, all lead and lift at any floor in any height.				
i)	3rd Floor	410	Sft.		
ii)	4th Floor	445	Sft.		
iii)	5th Floor	445	Sft.		
iv)	6th Floor	445	Sft.		
v)	7th Floor	445	Sft.		
vi)	8th Floor	445	Sft.		
vii)	9th Floor	359	Sft.		
viii)	10th Floor	445	Sft.		
8.05	Supply & fix, Kitchen Wall mounted Cabinet , 381 mm wide and 610mm high with Marine Teak or any other approved wood frame, using 1/2" Laminated Lasani Sheet wood shutter, drawers incl all necessary chromium plated (CP) mongery, PCC inside i/c all required accessories complete as per instruction of the Engineer. The cost includes cartage, wastage, finishing, all lead and lift at any floor in any height.				
i)	3rd Floor	171	Sft.		
ii)	4th Floor	171	Sft.		
iii)	5th Floor	171	Sft.		
iv)	6th Floor	171	Sft.		
v)	7th Floor	171	Sft.		
vi)	8th Floor	171	Sft.		
vii)	9th Floor	135	Sft.		
viii)	10th Floor	171	Sft.		

BILL NO. 8 - KITCHEN					
S. No	Description	Qty	Unit	Rate	Amount
8.06	Supply & fix, Kitchen Wall mounted Cabinet , 381 mm wide and 610mm high with Marine Teak or any other approved wood frame, using 3/8" Laminated Lasani Sheet wood shutter, drawers incl all necessary chromium plated (CP) mongery, PCC inside i/c all required accessories complete as per instruction of the Engineer. The cost includes cartage, wastage, finishing, all lead and lift at any floor in any height.				
i)	3rd Floor	103	Sft.		
ii)	4th Floor	103	Sft.		
iii)	5th Floor	103	Sft.		
iv)	6th Floor	103	Sft.		
v)	7th Floor	103	Sft.		
vi)	8th Floor	103	Sft.		
vii)	9th Floor	81	Sft.		
viii)	10th Floor	103	Sft.		
8.07	Providing & fixing Stainless Steel commercial kitchen cabinets floor mounted, including SS counter , walls, doors and accessories etc. complete in all respect as per drawing and direction of the Engineer. Contractor required to submit shop drawing for the approval of the Engineer before execution of work.	66	Sft.		
8.08	Providing & fixing Heavy duty kitchen burners of approved quality. Complete in all respect. as per instruction of The Engineer. The contractor have to submit the shop drawing / sample before execution of work. The cost includes cartage, all lift and lead at any height in any floor.	55	Nos.		
8.09	Supply and fix Imported kitchen hood for exhaust i/c complete fitting with all required accessories as specified and as per the direction / approval of Engineer. The cost includes cartage, all lift and lead at any height in any floor.	55	Nos.		
8.10	Supply and fix Imported commercial kitchen exhaust hood made of Stainless Steel i/c all fixing system for two way supply and fresh exhaust for the burner (i.e., Duct etc,) as specified and as per the direction / approval of Engineer. The cost includes cartage, all lift and lead at any height in any floor. Contractor has to submit manufacturer shop drawing before execution of work.	2	Nos.		
8.11	Providing & fixing Tandoor Burner (48 Nozzles) with burner plate, regulator / manifold and all required accessories to make it operational incl the cost of cartage, connections and all lead and lift at any Height in any floor, as per directions of Engineer.	1	No.		

BILL NO. 8 - KITCHEN					
S. No	Description	Qty	Unit	Rate	Amount
	<p><i>Any item (i) described in the Bill of Quantities or relevant Specifications but not shown on the Drawings, or (ii) shown on the Drawings but not described in the Bill of Quantities or relevant Specifications, shall be of like effect as it has been shown and mentioned in both. Similarly, if any item which is neither shown on the drawing nor mentioned in the Bill of Quantities or Specification but is a pre-condition to carryout any item of the contract, it shall be considered to be included in the contract price, distributed among the rates and prices entered for the related items of works. It shall be clearly understood that no extra cost whatsoever shall be paid in case such discrepancies if any, exist in the above bill.</i></p>				
Total Amount of Bill No. 08					

BILL NO. 9 - ALUMINIUM WORKS					
S. No	Description	Qty	Unit	Rate	Amount
Note:-					
1)	All Aluminum profiles should have Aluminum alloy 6063 T5 and T6 from approved manufacturers: Gulf Extrusions, Balenco, Alcop, Pakistan Cables or other equal approved.				
2)	Contractor is required to submit all relevant test certificates for the Aluminum as well as all other materials as per the international standards.				
3)	All Aluminum system used should be 100% engineered system i.e all the components of the system including accessories and ironmongery must be compatible and supplied or recommended by the system designer.				
4)	All aluminum sections should have a finish of 60 to 100 micron polyester powder coating of approved color.				
5)	All the Aluminum and glazing works of this project should be done by a specialist sub-contractor of Aluminum works (Alcop, Welders, Thermacs or other approved by the consultant).				
6)	The specialist sub-contractor shall be required to provide detailed shop drawings and designs of the complete conforming to its structural stability (including wind & earthquake) along with all other performances as per the relevant International Standards i.e AAMA, BS, DIN and ASTM.				
7)	The specification of glass is high performance solar and low-E having U value of 1.6 W/ Sq. M K and solar factor at least 42% of blue, green or any other approved color. Minimum glass thickness should be 6mm for single glazed and 6mm + 12mm void + 6mm glass for double glazed. Glass to be tempered either from the manufacturer or locally. (Make of Gardian, Saint Gobain, Pilkington.)				
8)	Contractor is required to use crane for shifting of material expenses for use of crane deemed to be included in the quoted rates. Tower Crane has to be transported to site & made ready for work before commencement of construction works.				
9)	Contractor is required to use temporary lift and expenses for use of lift deemed to be included in the quoted rates.				
10)	Cost of all kind of cartage and steel pipe scaffolding is deemed to be included in the quoted rates and no extra payment will be entertained in this regards.				
9.01	Providing and fixing Aluminum fixed louvers width 56mm x 1.2mm in frame of box section 100mm x 50mm x 1.6mm of approved color shade as directed by the Engineer. the section of louver includes back supports of vertical and horizontal strips of approved size where required, including all Aluminum fittings with all accessories cutting holes in columns, beams, slab, masonry etc and making good the damages to wall etc. complete as required at any height in any floor as per the direction of the Engineer. Contractor to make shop drawings for approval before start of work. (Make of Alcop, Kudson, Pakistan Cable)	2,468	Sft.		

BILL NO. 9 - ALUMINIUM WORKS					
S. No	Description	Qty	Unit	Rate	Amount
9.02	Providing & fixing heavy duty Aluminum powder coated windows/ventilators using heavy duty extruded deluxe powder coated section including all standard hardware, 2mm thick Teak wooden grain aluminium imported glass, pvc gasket etc, complete in all respect as per instructions of the Engineer. Contractor to make detailed shop drawings for the approval of consultant before start of work. (Make of Alcop, Kudson, Pakistan Cable)				
a)	Aluminum partly fixed and partly sliding double glazed window with tempered glass & fly proofing	1,698	Sft		
b)	Aluminum partly fixed and partly sliding glazed window with fly proofing	5,886	Sft		
c)	Aluminum fixed Glass window	307	Sft		
d)	Aluminum glazed top hanged ventilator with fly proofing	732	Sft		
e)	Aluminum fixed louver ventilator	36	Sft		
9.03	Providing & fixing heavy duty Aluminum powder coated doors using heavy duty extruded deluxe powder coated section including all standard hardware, 2mm thick Teak wooden grain aluminium imported glass, pvc gasket, door closer, door stopper etc, complete in all respects as per instructions of the Engineer incharge. Contractor to make detailed shop drawings for the approval of consultant before start of work. (Make of Alcop, Kudson, Pakistan Cable)				
a)	Aluminum Double panel one way swing louver door with fix glass.	3,456	Sft.		
b)	Aluminum louvered double panel door complete in all respect.	697	Sft.		
c)	Aluminum openable frosted glass access panel.	1,317	Sft.		
d)	Aluminum sliding door.	8,474	Sft.		
9.04	Providing & laying solar guard film on external windows 7 Mil, 175 micron as per drawings, specification and directed by the Engineer.	1,698	Sft		
	<i>Any item (i) described in the Bill of Quantities or relevant Specifications but not shown on the Drawings, or (ii) shown on the Drawings but not described in the Bill of Quantities or relevant Specifications, shall be of like effect as it has been shown and mentioned in both. Similarly, if any item which is neither shown on the drawing nor mentioned in the Bill of Quantities or Specification but is a pre-condition to carryout any item of the contract, it shall be considered to be included in the contract price, distributed among the rates and prices entered for the related items of works. It shall be clearly understood that no extra cost whatsoever shall be paid in case such discrepancies if any, exist in the above bill.</i>				
Total Amount of Bill No. 09					

BILL NO. 10 - DOOR & WINDOWS					
S. No	Description	Qty	Unit	Rate	Amount
Note:-					
1)	Contractor is required to use crane for shifting of material expenses for use of crane deemed to be included in the quoted rates. Tower Crane has to be transported to site & made ready for work before commencement of construction works.				
2)	Contractor is required to use temporary lift and expenses for use of lift deemed to be included in the quoted rates.				
3)	Cost of all kind of cartage and steel pipe scaffolding is deemed to be included in the quoted rates and no extra payment will be entertained in this regards.				
Door & Windows					
10.01	Providing and fixing best quality imported well seasoned teak wood frames for door, windows ventilators, etc. complete in all respect as per design and drawing and as per direction of the Engineer. The cost includes cartage, all lead and lift at any height in any floor.	220	Cft.		
10.02	Providing and fixing first quality imported well seasoned deodar wood frames for door, windows ventilators, clerestory, jafri, shelves, partitions, hand rail, posts, trellis and rafter etc. complete in all respect as per design and drawing and as per direction of the Engineer. The cost includes cartage, all lead and lift at any height in any floor.				
i)	3rd Floor	78	Cft.		
ii)	4th Floor	78	Cft.		
iii)	5th Floor	78	Cft.		
iv)	6th Floor	78	Cft.		
v)	7th Floor	78	Cft.		
vi)	8th Floor	78	Cft.		
vii)	9th Floor	74	Cft.		
viii)	10th Floor	78	Cft.		
ix)	Roof	21	Cft.		
10.03	Providing and fixing 1-1/2 inch (38 mm) thick best quality imported well seasoned teak wood shutters fully panelled with same wood, approved brass hinges, lipping around the shutter and brass tower bolts, etc. (imported Italy, Germany or equivalent make), as required and as per instruction of the Engineer. The cost includes cartage, all lead and lift at any height in any floor.	3,030	Sft.		
10.04	Providing and fixing 1-1/2 inch (38 mm) thick best quality imported well season deodar wood shutters fully panelled with same wood, approved brass hinges, lipping around the shutter and brass tower bolts, etc. (imported Italy, Germany or equivalent make), as required and as per instruction of the Engineer. The cost includes cartage, all lead and lift at any height in any floor.	16,500	Sft.		

BILL NO. 10 - DOOR & WINDOWS					
S. No	Description	Qty	Unit	Rate	Amount
10.05	Providing & fixing of stainless steel fire resistance exit stair door (for two hrs. rating protective chemical coat) with vision panel wired glass 1/2" thick including panic bar hand rail with electronic alarm door lock , handle, hinges, door frame, imported door closer etc. complete in all respect including all required accessories. In case of omission of any necessary item above, shall be deemed to be included in the quoted rate. at any height in any floor. (Contractor to submit shop drawings to Engineer for approval before execution)	245	Sft.		
10.06	Providing and fixing 2-1/2" x 3/4" thick best quality imported well seasoned teak wood beading of approved design and section etc., as required and as per the instruction of the Engineer. The cost includes cartage, all lead and lift at any height in any floor.	4,200	Rft.		
10.07	Providing and fixing 2-1/2" x 3/4" thick best quality imported well seasoned deodar wood beading of approved design and section as per the instruction of the Engineer. The cost includes cartage, all lead and lift at any height in any floor.	19,500	Rft.		
10.08	Providing & applying Matt polishing three coats of approved color & make on wood work including cost of Chalk powder, Spirit methylated, Sand paper, Color Packet, Malmal, Cotton, French polish (Log Dana), Matt Lacquer & Seller of approved quality, at any height in any floor complete in all respect as per the directions of the Engineer.	48,337	Sft.		
10.09	Providing & applying hardener set of approved make of Siken auto fine, 2K, ICI or equivalent on matt polish using compressor gun of at any height in any floor complete in all respect as per the directions of the Engineer.	48,337	Sft.		
10.10	Providing & fixing in proper position 12mm thick plain tempered glass door of approved quality i/c SS floor hinges, Imported Door machine, SS handle 1" dia 16" long with Aluminum rail on top and bottom heavy duty section of approved make & color and heavy duty door lock i/c all required accessories complete in all respect as per the direction of the Engineer at any height in any floor.	168	Sft.		
10.11	Providing and fixing approved shape door handle 6" long with C.P Brass screws, of approved design as per the direction of the Engineer the cost includes cartage complete in all respect at any height in any floor.	77	Nos.		

BILL NO. 10 - DOOR & WINDOWS					
S. No	Description	Qty	Unit	Rate	Amount
10.12	Providing and fixing heavy duty door lock (imported Italy, Germany or equivalent make) of approved design, cutting wood etc. to required size, with two operating keys, as per the direction of the Engineer the cost i/c cartage complete in all respect at any height in any floor.	535	Nos.		
10.12	Providing and fixing heavy duty stainless steel push plate / Kick plate imported in door i/c all required accessories complete in all respect as per the direction of the Engineer at any height in any floor.	4,123	Sft.		
10.13	Supply and fixing , Aluminum sheet , 20 BG with nails and screws, End & side laps complete in all respect as per the direction of the Engineer at any height in any floor.	677	Sft.		
10.14	Providing and fixing hydraulic door closer (imported CORBIN make) i/c all required accessories complete in all respect as per the direction of the Engineer at any height in any floor.	155	Nos.		
10.15	Providing and fixing door stopper (imported) i/c all required accessories complete in all respect as per the direction of the Engineer at any height in any floor.	155	Nos.		
10.16	Providing and fixing Peep whole / eye whole in door at human height (imported) i/c all required accessories complete in all respect as per the direction of the Engineer at any height in any floor.	110	Nos.		
10.17	Providing and fixing heavy duty stainless steel Plate imported in lift wall buttons i/c all required accessories complete in all respect as per the direction of the Engineer at any height in any floor.	1,803	Sft.		
10.18	Design and construct internal signage system including room nos and identification signage, directory signage and all as required for the works and as described in the scope of works, complete in all respects				
	a) Door Name Plate Sign (3" x 9")	110	Nos.		
	b) Door No. Sign (2" x 4")	110	Nos.		
	d) Reception (3' x 4'-6")	1	Nos.		
	e) Fire Exist Plan Signage (20" x 30")	20	Nos.		
	f) Internal Directional Signage (3' x 2')	15	Nos.		
	g) Other miscellaneous Signage (6" x 6")	20	Nos.		

BILL NO. 10 - DOOR & WINDOWS					
S. No	Description	Qty	Unit	Rate	Amount
	<p><i>Any item (i) described in the Bill of Quantities or relevant Specifications but not shown on the Drawings, or (ii) shown on the Drawings but not described in the Bill of Quantities or relevant Specifications, shall be of like effect as it has been shown and mentioned in both. Similarly, if any item which is neither shown on the drawing nor mentioned in the Bill of Quantities or Specification but is a pre-condition to carryout any item of the contract, it shall be considered to be included in the contract price, distributed among the rates and prices entered for the related items of works. It shall be clearly understood that no extra cost whatsoever shall be paid in case such discrepancies if any, exist in the above bill.</i></p>				
Total Amount of Bill No. 10					

BILL NO. 11 - ELECTRICAL WORKS					
S. No	Description	Qty	Unit	Rate	Amount
	Wiring				
11.01	Wiring for light or fan point with (3/.029) PVC insulated wire in 20 mm (3/4") PVC conduit recessed in the wall or column as required.				
a)	2nd Basement	30	Per.Point		
b)	1st Basement	30	Per.Point		
c)	Ground floor	220	Per.Point		
d)	1st Floor	275	Per.Point		
e)	2nd Floor	240	Per.Point		
f)	3rd Floor to 8th floor	1,750	Per.Point		
g)	9th floor	300	Per.Point		
h)	10th floor	285	Per.Point		
i)	Roof	5	Per.Point		
11.02	Wiring for plug point with (3/.029) PVC insulated wire in 20mm (3/4") PVC conduit recessed required in the wall or column as required.				
a)	2nd Basement	15	Per.Point		
b)	1st Basement	18	Per.Point		
c)	Ground floor	65	Per.Point		
d)	1st Floor	60	Per.Point		
e)	2nd Floor	60	Per.Point		
f)	3rd Floor to 8th floor	620	Per.Point		
g)	9th floor	100	Per.Point		
h)	10th floor	110	Per.Point		
i)	Roof	2	Per.Point		
11.03	Wiring for call bell point with (3/.029) PVC insulated wire in 20mm (3/4") PVC conduit recessed required in the wall or column as required.				
a)	3rd Floor to 8th floor	40	Per.Point		
b)	9th floor	6	Per.Point		
c)	10th floor	7	Per.Point		
D.	With 3 Wire PVC Conduit Recessed in the Wall or Column				
11.04	Providing & laying (Main or Sub main) PVC insulated with size 3-7/.029 copper conductor in 3/4" dia PVC conduit in the wall or column as required.				
a)	2nd Basement	200	Per Mtr.		
b)	1st Basement	200	Per Mtr.		
c)	Ground floor	500	Per Mtr.		
d)	1st Floor	600	Per Mtr.		
e)	2nd Floor	600	Per Mtr.		
f)	3rd Floor to 8th floor	4,880	Per Mtr.		
g)	9th floor	1,200	Per Mtr.		
h)	10th floor	900	Per Mtr.		
i)	Roof	80	Per Mtr.		

BILL NO. 11 - ELECTRICAL WORKS					
S. No	Description	Qty	Unit	Rate	Amount
11.05	Providing & laying (Main or Sub main) PVC insulated with size 3-7/.036 copper conductor in 3/4" dia PVC conduit in the wall or column as required.				
a)	2nd Basement	100	Per Mtr.		
b)	1st Basement	100	Per Mtr.		
c)	Ground floor	400	Per Mtr.		
d)	1st Floor	2,000	Per Mtr.		
e)	2nd Floor	450	Per Mtr.		
f)	3rd Floor to 8th floor	3,000	Per Mtr.		
g)	9th floor	350	Per Mtr.		
h)	10th floor	450	Per Mtr.		
i)	Roof	50	Per Mtr.		
11.06	Providing & laying (Main or Sub main) PVC insulated with size 3-7/.044 copper (6mm ²) conductor in 1" dia PVC conduit in the wall or column as required.				
a)	2nd Floor	50	Per Mtr.		
b)	3rd Floor to 8th floor	200	Per Mtr.		
c)	9th floor	400	Per Mtr.		
d)	10th floor	200	Per Mtr.		
e)	Roof	200	Per Mtr.		
11.07	Providing & laying (Main or Sub main) PVC insulated with size 3-7/.052 copper (10mm ²) conductor in 1" dia PVC conduit in the wall or column as required.				
a)	Ground floor	50	Per Mtr.		
b)	1st Floor	150	Per Mtr.		
c)	2nd Floor	50	Per Mtr.		
d)	3rd Floor to 8th floor	3,000	Per Mtr.		
e)	9th floor	500	Per Mtr.		
f)	10th floor	500	Per Mtr.		
g)	Roof	50	Per Mtr.		
11.08	Providing & laying (Main or Sub main) PVC insulated & pvc sheeted with two core copper conductor 300/500 volts size 1.5mm ² .				
a)	2nd Basement	100	Per Mtr.		
b)	1st Basement	100	Per Mtr.		
c)	Ground floor	100	Per Mtr.		
N.	With 4 core overhead or underground 300/500				
11.09	Providing & laying (Main or Sub main) PVC insulated & pvc sheeted with 4 core copper conductor 300/500 volts size 10mm ² .				
a)	Ground floor	40	Per Mtr.		
b)	1st Floor	60	Per Mtr.		
c)	Roof	150	Per Mtr.		

BILL NO. 11 - ELECTRICAL WORKS					
S. No	Description	Qty	Unit	Rate	Amount
O.	With 4 core overhead or underground 300 / 500				
11.10	Providing & laying (Main or Sub main) PVC insulated & pvc sheeted with 4 core copper conductor 600/1000 volts size 16mm ² .				
a)	Ground floor	100	Per Mtr.		
b)	1st Floor	100	Per Mtr.		
c)	2nd Floor	100	Per Mtr.		
d)	Roof	100	Per Mtr.		
11.11	Providing & laying (Main or Sub main) PVC insulated & pvc sheeted with 4 core copper conductor 600/1000 volts size 25mm ² .				
a)	Ground floor	50	Per Mtr.		
b)	1st Floor	50	Per Mtr.		
c)	2nd Floor	75	Per Mtr.		
d)	Roof	100	Per Mtr.		
11.12	Providing & laying (Main or Sub main) PVC insulated & pvc sheeted with 4 core copper conductor 600/1000 volts size 35mm ² .				
a)	3rd Floor to 8th floor	70	Per Mtr.		
b)	9th floor	20	Per Mtr.		
c)	10th floor	30	Per Mtr.		
d)	Roof	50	Per Mtr.		
11.13	Providing & laying (Main or Sub main) PVC insulated & pvc sheeted with 4 core copper conductor 600/1000 volts size 70mm ² .				
a)	Ground floor	200	Per Mtr.		
11.14	Providing & laying (Main or Sub main) PVC insulated & pvc sheeted with 4 core copper conductor 600/1000 volts size 120mm ² .				
a)	Ground floor	200	Per Mtr.		
11.15	Providing & laying (Main or Sub main) PVC insulated & pvc sheeted with 4 core copper conductor 600/1000 volts size 185mm ² .				
a)	Ground floor	500	Per Mtr.		
11.16	Providing & laying (Main or Sub main) PVC insulated & pvc sheeted with 4 core copper conductor 600/1000 volts size 240mm ² .				
a)	Ground floor	400	Per Mtr.		
11.17	Supply and laying of PVC / flexible conduit for wiring concealed / surface , in RCC or masonry including all accessories such as inspection boxes, pull boxes , bends , sockets , shadals supports, cutting harries and repairing etc. as required for proper installation and to entire satisfaction of Consultants / Client.				
i)	20 mm pvc pipe	300	Per Mtr.		
ii)	25mm pvc pipe	400	Per Mtr.		

BILL NO. 11 - ELECTRICAL WORKS					
S. No	Description	Qty	Unit	Rate	Amount
	iii) 32 mm pvc pipe	200	Per Mtr.		
	iv) 50mm pvc pipe	50	Per Mtr.		
11.18	Providing and wiring of light point from MCB to first light point and light point to light point wired with 3 x 2.5 mm ² , single core PVC insulated, 250/500 volts grade copper conductor cable in 20 mm dia Pvc rigid conduit, concealed / surface in RCC or masonry as may be required as shown on the drg. or as directed by the Engineer. complete with all conduit and wiring accessories.				
a)	2nd Basement	100	Point		
b)	1st Basement	100	Point		
11.19	Providing & laying (Main or Sub main) PVC insulated 1-core copper conductor cable for ECC green laid in p relaid Conduit.				
a)	S/C 4mm ² pvc cable ECC in p relaid Conduit	200	Per Mtr.		
b)	S/C 6mm ² pvc cable ECC in prelaidd Conduit	600	Per Mtr.		
c)	S/C 10mm ² pvc cable ECC in prelaidd Conduit	300	Per Mtr.		
d)	S/C 16mm ² pvc cable ECC in prelaidd Conduit	300	Per Mtr.		
	Cable Trays				
11.20	Supply, installation of 16 SWG G.I. perforated M.S. sheet cable tray rectangular shaped as per dimensions and partitions given below, with cover, to be fixed horizontally by installing suitable cable tray supports fixed at every 1000 mm c/c to steel structure with M.S. angle , Hanger M.S. rods , nuts bolts washer,U-clamp to carry cables , and where required to be fixed vertically by Rawl bolts, including the cost of internal clamps in the tray to properly hold the cables complete with all necessary accessories as per site requirement and to entire satisfaction of Consultants / Client..				
a).	600 mm wide x 75 mm deep	30	Per Mtr.		
b).	300 mm wide x 50 mm deep	15	Per Mtr.		
c).	150 mm wide x 50 mm deep	10	Per Mtr.		
	Switch Socket Outlet				
11.21	Providing,installing,connecting and testing of 10 Amp flush plate approved type switch with m.s or pvc back box.				
a)	2nd Basement	15	Per No.		
b)	1st Basement	15	Per No.		
c)	Ground floor	250	Per No.		
d)	1st Floor	200	Per No.		
e)	2nd Floor	250	Per No.		
f)	3rd Floor to 8th floor	1,500	Per No.		
g)	9th floor	260	Per No.		
h)	10th floor	300	Per No.		
i)	Roof	8	Per No.		

BILL NO. 11 - ELECTRICAL WORKS					
S. No	Description	Qty	Unit	Rate	Amount
11.22	same as item no 21 but 1- gang switch 2 way,				
a)	2nd Basement	3	Per No.		
b)	1st Basement	3	Per No.		
c)	Ground floor	6	Per No.		
d)	1st Floor	6	Per No.		
e)	2nd Floor	6	Per No.		
f)	3rd Floor to 8th floor	36	Per No.		
g)	9th floor	6	Per No.		
h)	10th floor	6	Per No.		
i)	Roof	3	Per No.		
11.23	same as item no 21 but 1- bell push,				
a)	3rd Floor to 8th floor	48	Per No.		
b)	9th floor	7	Per No.		
c)	10th floor	8	Per No.		
11.24	Providing,installing,connecting and testing of switch socket outlet flush plate approved type as given below with ms or pvc back box 3 pin 5A switch socket outlet with back box				
a)	2nd Basement	10	Per No.		
b)	1st Basement	10	Per No.		
c)	Ground floor	60	Per No.		
d)	1st Floor	55	Per No.		
e)	2nd Floor	60	Per No.		
f)	3rd Floor to 8th floor	620	Per No.		
g)	9th floor	90	Per No.		
h)	10th floor	110	Per No.		
i)	Roof	2	Per No.		
11.25	3 pin 13A switch socket outlet with back box				
a)	2nd Basement	6	Per No.		
b)	1st Basement	6	Per No.		
c)	Ground floor	3	Per No.		
11.26	3 pin 15A switch socket outlet with back box				
a)	2nd Basement	3	Per No.		
b)	1st Basement	5	Per No.		
c)	Ground floor	10	Per No.		
d)	1st Floor	12	Per No.		
e)	2nd Floor	10	Per No.		
f)	3rd Floor to 8th floor	50	Per No.		
g)	9th floor	10	Per No.		
h)	10th floor	10	Per No.		
i)	Roof	2	Per No.		
11.27	20A DP switch for A/C with back box				
a)	2nd Basement	2	Per No.		
b)	1st Basement	3	Per No.		
c)	2nd Floor	3	Per No.		
d)	3rd Floor to 8th floor	135	Per No.		
e)	9th floor	25	Per No.		
f)	10th floor	23	Per No.		

BILL NO. 11 - ELECTRICAL WORKS					
S. No	Description	Qty	Unit	Rate	Amount
11.28	16A-400V TPN+E industrial socket outlet IP-44 with back box for pump.				
a).	1st Basement	4	Per No.		
	Light Fixtures				
11.29	Supply , installation, connecting and testing of lighting fixtures surface Ceiling/wall mounted or to be fixed in the false ceiling, complete with ceiling rose, lamp holders,Light, Earthing terminals and internal wiring,connector, including hangers brackets & necessary hardware such as screws, anchors, etc. flexible cord or flexible conduit complete in all respect approved type and to entire satisfaction of Consultants / Client.				
a	Downlighter Ceiling mounted surface with reflector 24w LED light fixture , complete with Fixture and accessories as approved type.	556	Per No.		
b	Downlighter false Ceiling mounted Conceild with reflector 24w LED light fixture , complete with Fixture and accessories as approved type.	30	Per No.		
c	Ceiling mounted surface with reflector 2x14w LED light fixture , complete with Fixture and accessories as approved type.	220	Per No.		
d	Downlighter false Ceiling mounted with reflector 2x14w LED light fixture , complete with Fixture and accessories as approved type.	100	Per No.		
e	Ceiling mounted surface/false Ceiling mounted with reflector 2x8w LED light fixture , complete with Fixture and accessories as approved type.	700	Per No.		
f	Ceiling mounted surface with reflector 1x11w LED light fixture , complete with Fixture and accessories as approved type.	290	Per No.		
g	Wall mounted decorative surface type 2 x 8W LED light fixture complete with Fixture and accessories as approved type.	600	Per No.		
h	ceiling mounted surface water proof 11W LED light fixture ,IP-65 complete with Fixture and accessories as approved type.	230	Per No.		
i	Wall mounted surface water proof 11W LED light fixture ,IP-65 complete with Fixture and accessories as approved type.	10	Per No.		

BILL NO. 11 - ELECTRICAL WORKS					
S. No	Description	Qty	Unit	Rate	Amount
j	Wall mounted surface water proof 11W LED light fixture mirror,IP-65 complete with Fixture and accessories as approved type.	272	Per No.		
k	False Ceiling mounted 18W LED box light fixture complete with Fixture and accessories as approved type.	100	Per No.		
l	False Ceiling mounted 18W LED pattee fitting light fixture complete with Fixture and accessories as approved type.	20	Per No.		
m	Ceiling mounted surface crestal chadiliar 2000W light complete with Fixture and accessories as approved type.	2	Per No.		
n	Ceiling mounted surface crestal chadiliar 1000W light complete with Fixture and accessories as approved type.	4	Per No.		
o	Flood light complete with 90watts LED Fixture complete with all accessories as approved type.	4	Per No.		
Wall Bracket Fan					
11.30	Supply , installation, connecting and testing of louver type plastic bracket fan 300 mm dia, complete with plastic cage, regulator, wall bracket and all fixing accessories as approved type				
a)	2nd Basement	2	Per No.		
b)	1st Basement	2	Per No.		
c)	Ground floor	15	Per No.		
d)	1st Floor	15	Per No.		
e)	3rd Floor to 8th floor	48	Per No.		
f)	9th floor	8	Per No.		
g)	10th floor	8	Per No.		
Exhaust Fan					
11.31	Supply , installation, connecting and testing of plastic body Exhaust fan 300 mm dia, complete with Making the hole wooden frame louver type complete with all fixing accessories approved type.				
a)	2nd Basement	2	Per No.		
b)	1st Basement	1	Per No.		
c)	Ground floor	8	Per No.		
d)	1st Floor	4	Per No.		
e)	2nd Floor	3	Per No.		
f)	3rd Floor to 8th floor	126	Per No.		
g)	9th floor	18	Per No.		
h)	10th floor	22	Per No.		

BILL NO. 11 - ELECTRICAL WORKS					
S. No	Description	Qty	Unit	Rate	Amount
11.32	Ceiling Fan Supply , installation, connecting and testing of 56"ceiling fan copper winding complete with hanging box, fan dimmer with back box,ceiling roset and complete with all fixing accessories approved type.				
a)	2nd Basement	2	Per No.		
b)	1st Basement	2	Per No.		
c)	Ground floor	25	Per No.		
d)	1st Floor	36	Per No.		
e)	2nd Floor	43	Per No.		
f)	3rd Floor to 8th floor	168	Per No.		
g)	9th floor	30	Per No.		
h)	10th floor	26	Per No.		
11.33	Split Air Conditioner Providing, installation, connecting and testing of plasma, wall mounted wireless remote controlled split Air conditioner as approved type complete in all respect with controlled wiring, inlet outlet copper tubes / insulation recessed in the false ceiling from condensing unit to air handling unit with drain pipe accessories as required.(Contractor has to submit warranty of A/C unit along with the ipc failing which payment against the item will not be entertained)				
	1.5 ton (18000 BTU)				
a)	Ground floor	6	Per No.		
b)	3rd Floor to 8th floor	126	Per No.		
c)	9th floor	20	Per No.		
d)	Roof	3	Per No.		
11.34	Providing of extra refrigeration inlet and outlet copper piping / insulated for the above Air-condition as required complete with all accessories.	500	Per Mtr.		
11.35	Earth conductor Providing , laying and connecting 3/0 SWG hard drawn bare copper leads from earthing plates to panels (MDB's) as as required The copper leads to be laid in suitable size of G. I. Pipe complete with all G.I pipe and other accessories.	250	Per Mtr.		

BILL NO. 11 - ELECTRICAL WORKS					
S. No	Description	Qty	Unit	Rate	Amount
11.36	Earthing Providing installing connecting and testing of Earthing of 18" x 18" x 1/8" thick copper plate buried at 15 ft. deep in the ground or to the depth of water level which over is more work to include 2'x2'x2' inspection earth pit, digging of earth pit and refilling with sand, complete with necessary mixture of salt and sora to make the specified results according to IEE regulation, and latest B.S. standards. Complete with all accessories, like copper plate, brass nut-bolts and washer etc. as per Engineer approval. The earth pit should be at 8 feet away from the building foundation.	6	Per No.		
11.37	Distribution Board Design, supply, installation, testing & commissioning of fire protection encloser with level of interior and exterior fire protection, fire resistance duration of at least 30/90mint dust/ weather proof, hinged door / lock, suitable for. 500 volts, 3 phase, 4 wires, earth terminal AC system floor standing or wall fixed / flush / surface as required. Tinned copper bus bars to be used, inside with protection cover for cable bundles from top and bottom as standard . Complete with all components and other installation accessories as per requirements . Submit shop drawings for approval: The D.B comprises of:-				
a)	LV PANEL Incoming 1-4000A TP Adj ACB 100-KA Motorized 2-2500A TP Adj ACB 85-KA Motorized 1-Amps meter digital scaled-0-2500A 1-Volt meter digital scaled -0-500V 1-Volt-selector switch 1-Amps- selector switch 3- current transformer 2500A-5A 3-2500A copper busbar 2-2000A copper busbar 6-Indication Lamps 3-Instrument fuse Outgoing 1-3000 A TP Mccb Adj 85-KA 1-1250 A TP Mccb Adj 50-KA 4-250 A TP Mccb 25-KA 1-200 A TP Mccb 20-KA 3-150 A TP Mccb 19-KA 4-100 A TP Mccb 13-KA 2-60 A TP McB 13-KA 4-30 A TP McB 13-KA 2-TP MCCB Space only	1	Job.		

BILL NO. 11 - ELECTRICAL WORKS					
S. No	Description	Qty	Unit	Rate	Amount
b)	DB-LIFTS- 1,2,3 Typical Incoming 1-30A TP MccB 13-KA 3-Indication Lamps 1-TPN+E copper busbar Outgoing 1-20A TP MccB 13-KA 1-15A SP McB 10-KA	1	Job.		
c)	DB -L-RF-A,B Typical Incoming 1-30A TP MccB 13-KA 3-Indication Lamps 1-TPN+E copper busbar Outgoing 1-15A TP MccB 13-KA 6-10A SP McB 10-KA 3-15A SP McB 10-KA	1	Job.		
d)	DB -2F-A+B (for 1st floor) Typical Incoming 1-40A TP MccB 13-KA 1-Voltmeter scaled -0-500V 1-Volt selector switch 3-Indication Lamps 1-TPN+E copper busbar Outgoing 21 -10A SP McB 10-KA 6-15A SP McB 10-KA	1	Job.		
e)	SMDB -A+B(for 3rd to 8th floor) Typical & DB External Incoming 1-160A TP MccB 13-KA 1-Voltmeter scaled -0-500V 1-Volt selector switch 3-Indication Lamps 1-TPN+E copper busbar Outgoing 9-10A SP McB 10-KA 3-15A SP McB 10-KA 7-30A TP MCCB 13-KA	9	Job.		
f)	DB -1-Appt- (for 3rd to 8Th floor) Typical Incoming 1-30A TP MccB 13-KA 1-Voltmeter scaled -0-500V 1-Volt selector switch 3-Indication Lamps 1-TPN+E copper busbar Outgoing 9-10A SP McB 10-KA 6-15A SP McB 10-KA	42	Job.		

BILL NO. 11 - ELECTRICAL WORKS					
S. No	Description	Qty	Unit	Rate	Amount
g)	SMDB-9F-A+B-(for 9th floor) Incoming 1-160A TP MccB 13-KA 1-Voltmeter scaled -0-500V 1-Volt selector switch 3-Indication Lamps 1-TPN+E copper busbar Outgoing 9-10A SP McB 10-KA 3-15A SP McB 10-KA 3-15A TP MCCB 13-KA 8-30A TP MCCB 13-KA	1	Job.		
h)	DB -Appt- (for 9th floor) Typical Incoming 1-30A TP MccB 13-KA 1-Voltmeter scaled -0-500V 1-Volt selector switch 3-Indication Lamps 1-TPN+E copper busbar Outgoing 12-10A SP McB 10-KA 2-15A SP McB 10-KA 1-20A SP McB 10-KA	6	Job.		
i)	DB -10F A+B (for 10th floor) Typical Incoming 1-30A TP MccB 13-KA 1-Voltmeter scaled -0-500V 1-Volt selector switch 3-Indication Lamps 1-TPN+E copper busbar Outgoing 10-10A SP McB 10-KA 6-15A SP McB 10-KA	7	Job.		
j)	SMDB-10F-A+B (for 10th floor)Typical Incoming 1-160A TP MccB 13-KA 1-Voltmeter scaled -0-500V 1-Volt selector switch 3-Indication Lamps 1-TPN+E copper busbar Outgoing 9-10A SP McB 10-KA 3-15A SP McB 10-KA 1-15A TP MCCB 13-KA 7-30A TP MCCB 13-KA	1	Job.		

BILL NO. 11 - ELECTRICAL WORKS					
S. No	Description	Qty	Unit	Rate	Amount
k)	DB -Pump Incoming 1-150A TP MccB 19-KA 1-Voltmeter scaled -0-500V 1-Volt selector switch 3-Indication Lamps 1-TPN+E copper busbar Outgoing 1-100A TP MccB 10-KA 1-60A TP MccB 10-KA 1-30A TP MccB 10-KA	1	Job.		
l)	DB -External Incoming 1-100A TP MccB 13-KA 1-Voltmeter scaled -0-500V 1-Volt selector switch 3-Indication Lamps 1-TPN+E copper busbar Outgoing 1-30A TP McB 10-KA 3-15A TP McB 10-KA 6-15A SP McB 10-KA 3-20A SP McB 10-KA 3-30A SP McB 10-KA	2	Job.		
11.38	Same as item no-39 but 800-KG capacity lift Passenger from 2nd basement to roof floor (13 stops) supply and fixing.	4	Per No.		
	SUBSTATION EQUIPMENT				
	Distribution Transformers				
11.39	Supply, installation,connecting & testing of 1500 KVA indoor type 11KV / 400 V distribution transformer according to KE standard specifications complete with all installation accessories as required approved by the Engineer and to entire satisfaction of Consultants / Client.	2	Per No.		
	MV Termination kit				
11.40	Supply, installation,connecting & testing of PVC termination kit, MV 11KV indoor/outdoor, heat shrink, complete with tubes, copper lugs, MV and PIB tapes, and earth wire suitable for MV cables AL - XLPE / PVC / PVC, 3 core 120 to 240mm ² complete with all installation accessories as required,	2	Per No.		

BILL NO. 11 - ELECTRICAL WORKS					
S. No	Description	Qty	Unit	Rate	Amount
11.41	VCB Panel (with metering) Supply, installation, testing & commissioning of 11KV, 630 Amp. 11KVA, 3 phase, 50Hz VCB Panel. This Panel shall be with KWH, MDI and KVArh metering equipment supply with all necessary Protection Relays system accordance to KE specifications and Electric Inspector complete with all installation accessories as required and to entire satisfaction of Consultants / Client Service Voltage = 11KV Rated of C.T Ratio =75 A	1	Per No.		
11.42	VCB Panel (without metering) Supply, installation, testing & commissioning of 11KV, 630 Amp. 3-way, 3 phase, 50Hz VCB Panel. This Panel shall be without metering one incoming and two outgoing supply with all necessary Protection Relays system accordance to KE specifications and Electric Inspector complete with all installation accessories as required and to entire satisfaction of Consultants / Client . Service Voltage = 11KV Rated of C.T Ratio =50 A	1	Per No.		
11.43	MV CABLE Supply,laying ,connecting and testing of MV Cable electric 240mm ² - 3-core AL- XLPE / PVC / SWA / PVC-15KV stranded Aluminum conductor armored laid in cable trenches complete with red bricks, sand,warning tape , HT marker approved type, including cost of all installation accessories,lugs etc, excavation and back filling and to entire satisfaction of Consultants / Client..	150	Per Mtr.		
11.44	Same as item no 49 but MV Cable electric 120mm ² - 1-core AL- XLPE / PVC / PVC-11KV stranded Aluminum conductor un-armored laid in prelaidd cable trenches including cost of all installation accessories as directed by the Engineer.	250	Per Mtr.		
11.45	SECTION POWER GENSET Supply, installation, connecting and testing of 1500 KVA,1200 KW prime power 1500 RPM at 0.80 PF 415/220 volts, 3 phase 50 Hz output stand by Diesel Generator set directly coupled with Alternator, sound proof canopy complete in all respect, including controlled wiring from ATS and synch as required, FG WILLSON,CATERPILLAR or as approved .(Contractor has to submit warranty and maintenance of Gen set along with the ipc failing which payment against the item will not be entertained)	2	Job		

BILL NO. 11 - ELECTRICAL WORKS					
S. No	Description	Qty	Unit	Rate	Amount
11.46	Synchronize and ATS panel Supply, installation, testing & commissioning of Synchronize and Automatic transfer switch panel for 2x 1500 KVA, 1200 KW DG set and 1no . K.E supply complete with all installation accessories as required and to entire satisfaction of Consultants / Client .	1	Job		
11.47	Fuel tank Fabrication, supply and installation of 2500 Gallon underground main fuel tank installed outside the power house, Complete with civil works as required for the installation of the tank will be in contractor scope including Hi low fuel level switches..	2	Job		
11.48	Fabrication,supply and installation of 1000 Gallon day fuel tank installed at roof of the building, the day tank shall comprise of Hi low fuel level switches.	2	Job		
11.49	Supply,installation of 2x2HP fuel transfer pump for filling of fuel from Main fuel tank to day fuel tank and gen set tank compete with motor starter panel, cabling works and shelter for motors, the system shall also comprise of automatic Hi- low fuel level starting of fuel pumps for filling of fuel.	2	Nos		
11.50	Supply and installation of 2" dia,12gauge GI pipe from main fuel tank to day fuel tank and its return complete with valve and all other installation accessories as required.	150	P/M		
11.51	Supply and installation of 1.5" dia,12gauge GI pipe from main header to respective Day Fuel tanks complete with valve and all other installation accessories as required..	200	P/M		
11.52	Supply and installation of fuel water separator make Racor, 2 Nos for each DG Set.	2	Nos		
11.53	Bus Bar Riser Supply, installation, testing & commissioning of Aluminum conductors bas bar riser IP55 -4wires (3Phase,neutral) and housing earth (PE) with required accessories such as flexible elbows, reducers units,expansion units and closer, tap off boxes with MCCB,fixing elements joint structure bus bar and panel connection units etc and to entire satisfaction of Consultants / Client . Current rating of bus bar risers with all accessories as above mention .				
11.54	(Building - 2) Same as item no- 11.53 but 1250 A Busbar Ground floor S/S to Riser (Building -2) Feeder length	40	Per Mtr.		

BILL NO. 11 - ELECTRICAL WORKS					
S. No	Description	Qty	Unit	Rate	Amount
	Horizontal Elbow	5	Nos		
	Vertical Elbow	2	Nos		
	Panel connection (Outgoing)	1	Nos		
a	1250A Busbar for Building 2 (Electric shaft G/floor to 4Th floor)				
	Plugin length	15	Per Mtr.		
	Load Reducer (1250A TO 800A)	1	Nos		
	Tap off boxes (160A)	4	Nos		
	Tap off boxes (40A)	2	Nos		
b	800A Busbar for Building 1 (Electric shaft 4Th Floor to 7Th floor)				
	Plugin length	15	Per Mtr.		
	Load Reducer (800A TO 500A)	1	Nos		
	Tap off boxes (160A)	3	Nos		
c	500A Busbar for Building 1 (Electric shaft 7Th Floor to 11Th floor)				
	Plugin length	20	Per Mtr.		
	End closer	1	Nos		
	Tap off boxes (160A)	5	Nos		
	Tap off boxes (40A)	3	Nos		
	G.I Strip (Equipotentiality bounding)				
11.55	Supply, installation, commissioning and testing of 25mm x 3mm GI Equipotentiality bounding, to be fixed on parapet walls of roof and along the outer wall around the 15th floor and 21st floor connected with down conductor, bends, saddles, corners etc. , all fixing accessories, complete in all respects.	400	Per Mtr.		
	Copper down conductor.				
11.56	Supply, installation, commissioning and testing of 70mmsq copper copper conductor for ECC from Air terminal to Earth terminal with all fixing accessories, complete in all respects.	100	Per Mtr.		
	Copper Electrodes				
11.57	Supply, installation, connection & testing of copper earth electrodes, 19mm dia, 3000mm in length, driven vertically in ground, including cost of Test pit 300x300x300mm, internal plaster, 100mm thick R.C.C.cover with lifting hooks, all necessary accessories and material, complete in all respects.	2	Nos		

BILL NO. 11 - ELECTRICAL WORKS					
S. No	Description	Qty	Unit	Rate	Amount
11.58	Wiring for Fire Alarm system Supply, laying, connecting and testing of fire alarm system wiring from FACP to smoke detector and between smoke detector to smoke detector , heat detector, Break glass, Horns, concealed / surface wire with 2-core 1.5mm ² PVC insulated sheeted copper conductor cable in 25mm dia of heavy gauge PVC / conduit including all accessories such as inspection boxes, pull boxes,bends,sockets, sha dals supports, cutting gharries and repairing etc. as required and to entire satisfaction of Consultants / Client.	1,000	P/M		
11.59	Smoke Detector Supply, installation. Connection and testing of multi - mode intelligent photo-optical Smoke detector USA or approved type including all accessories as required and to entire satisfaction of Consultants / Client.	75	Each		
11.60	Heat Detector Supply, installation. Connection and testing of heat detector with combined rate vof rise and fixed temperature sensor detector USA approved type including all accessories as required and to entire satisfaction of Consultants / Client.	1	Each		
11.61	Manual Break glass station Supply, installation. Connection and commissioning of Break glass manual Fire Alarm Station detector approved type including all accessories as required and to entire satisfaction of Consultants / Client.	8	Each		
11.62	Alarm Bell Supply,installation.Connection and commissioning of audible Alarm Bell, 150mm dia going to be installed, recessed in walls, columns or as per site requirements with end of line diode where required, including all necessary accessories, complete in all respects.	8	Each		
11.63	Horns Supply, installation. Connection and commissioning of Horns, complete in all respects.	1	Each		
11.64	Providing & fixing fire extinguisher including bracket and nozzle, etc. complete in all respects.				
a)	6 KG Dry Powder Fire Extinguisher	10	Each		
b)	5 Lbs CO2 Fire Extinguisher	10	Each		

BILL NO. 11 - ELECTRICAL WORKS					
S. No	Description	Qty	Unit	Rate	Amount
11.65	<p>Providing Desktop Dell or equivalent Computer each configured with Intel Core i3, 3.10 Ghz (2nd Generation Core-I Processor), 4 GB RAM (DDR-III) original Intel Motherboard complete with key board, 19" color LCD, mouse, DVD Writer, 1000 GB HDD (SATA) along with genuine/ licensed latest version Microsoft Windows operating system and Microsoft Office Professional Edition latest version</p> <p><i>Any item (i) described in the Bill of Quantities or relevant Specifications but not shown on the Drawings, or (ii) shown on the Drawings but not described in the Bill of Quantities or relevant Specifications, shall be of like effect as it has been shown and mentioned in both. Similarly, if any item which is neither shown on the drawing nor mentioned in the Bill of Quantities or Specification but is a pre-condition to carryout any item of the contract, it shall be considered to be included in the contract price, distributed among the rates and prices entered for the related items of works. It shall be clearly understood that no extra cost whatsoever shall be paid in case such discrepancies if any, exist in the above bill.</i></p>	2	Each		
Total Amount of Bill No. 11					

BILL NO. 12 - PHYSICAL SECURITY

S. No	Description	Qty	Unit	Rate	Amount
NOTE:	<i>Supplying, installation at any height, testing and commissioning of the following items of work (unless specifically stated otherwise) including all materials, labour, tools, plants, accessories, etc as per specifications and after approval of Engineer, required for proper completion of each item in all respect. If a cost is not delineated for any item/work deemed necessary by Employer to fully meet the user requirements contained herein, then such item/works will be deemed to be free. No extra charges will be permitted beyond items listed in the price table.</i>				
A	CCTV System and Physical Security				
12.01	Providing, installing, connecting, testing and commissioning of 1MP Outdoor/Indoor type Bullet IP Fixed Camera, D/N, IR, Wide Dynamic Range (WDR), Vari-focal lens, f2.8-12mm, H.264, 720p/30fps, Digital Noise Reduction (DNR), IP66, Bracket Included, complete with all other accessories required for proper completion of work as per approval of Engineer.	12	Nos.		
12.02	Providing, installing, connecting, testing and commissioning of 1MP Indoor type IP Mini Dome Camera, D/N, IR, Wide Dynamic Range (WDR), Vari-focal lens, f2.8-10mm, H.264, 720p/30fps, Digital Noise Reduction (DNR), Vandal proof 1K10, complete with all other accessories required for proper completion of work as per approval of Engineer.	2	Nos.		
12.03	Supply and Installation of PVC conduit 25 mm dia complete with all bends, tees, boxes, saddles. Sample should be approved by The Engineer before	1,150	Meter		
12.04	Supply & Installation of HID Vertex EVO 2000 Two Reader Direct TCP/IP Controller with enclosure, Power Supply, UPS with 15 min Backup Battery and all other accessories required for proper completion of work as per approval of Engineer.	1	Each		
12.05	Supply of HID Vertex EVO 2000 ISO type contact less smart cards as per approval of Engineer.	200	Each		
	<i>Any item (i) described in the Bill of Quantities or relevant Specifications but not shown on the Drawings, or (ii) shown on the Drawings but not described in the Bill of Quantities or relevant Specifications, shall be of like effect as it has been shown and mentioned in both. Similarly, if any item which is neither shown on the drawing not mentioned in the Bill of Quantities or Specification but is a pre-condition to carryout any item of the contract, it shall be considered to be included in the contract price, distributed among the rates and prices entered for the related items of works. It shall be clearly understood that no extra cost whatsoever shall be paid in case such discrepancies if any, exist in the above bill.</i>				
Total Amount of Bill No. 12					

BILL NO. 13 - LAN & TELEPHONE SYSTEM					
S. No	Description	Qty	Unit	Rate	Amount
	<p><u>NOTE:</u> <i>Supplying, installation at any height, testing and commissioning of the following items of work (unless specifically stated otherwise) including all materials, labour, tools, plants, accessories, etc as per specifications and after approval of Engineer, required for proper completion of each item in all respect. If a cost is not delineated for any item/work deemed necessary by Employer to fully meet the user requirements contained herein, then such item/works will be deemed to be free. No extra charges will be permitted beyond items listed in the price table.</i></p> <p>B LAN & Telephone System</p> <p>Providing, installation at any height, testing and commissioning of the following items of work including all materials, labour, tools, plants, accessories, as required for proper completion of each item in all respect including all lead and lift as per specifications and instructions of Engineer. Contractor is responsible to submit data sheets and detail shop drawings showing actual routes of wiring and equipment location for approval of Engineer before execution of work.</p>				
13.01	Supply & Installation of Optical Passive Splitter 1:32, 19" Rack-mounted, Insertion Loss < 17.5 dB, Return Loss ≥ 50 (for PC Connector) and ≥ 55 (for APC Connector), working temperature -44 to + 65 °C with Adapter and all other accessories as per attached specifications.	3	Each		
13.02	Supply & Installation of Optical Fiber Cable 2-Core Cable Single Mode (G.652.D), Duct Buried as per attached specifications.	3,000	Meter		
13.03	Supply & Installation of Optical Distribution Frame (ODF) 48-Core 19" Rack-mounted with splicing and distribution module, equipments for fixing, stripping and grounding, ribbon and non-ribbon optical fibers, FC/SC/APC/ST adaptors and all other accessories as per attached specifications.	10	Each		
13.04	Supply & Installation of Gigabit Passive Optical Network (GPON) Class B+ Wireless Optical Network Terminal (ONT), with 4 GE & 2 POTS ports, 802.11b/g/n, certified by the Wi-Fi Alliance, SIP & H.248 protocols, IGMP V2&V3 snooping/IGMP proxy, License, power supply adapter, Cat-6 Patch cord and all accessories as per attached specifications.	69	Each		
13.05	Supply & Installation of Faceplate, dual port with 1 Fiber Optic SC/FC/APC Adapter & 1 Cat-5 UTP I/O for POTs Phone , dual shutter, plastic wall plate color matching to wall color, sheet steel back box and all accessories as per approval of Engineer.	69	Each		

BILL NO. 13 - LAN & TELEPHONE SYSTEM					
S. No	Description	Qty	Unit	Rate	Amount
13.06	Supply & Installation of Set-Top-Box (STB) with easy Graphical User Interface (GUI), remote control, HD decoding, compliance with MPEG standards, power supply adapter, support for PPPoE, DHCP, and static IP address and all other accessories as per attached specifications.	10	Each		
13.07	Supply & Installation of POTs Telephone Set with display & Caller ID as per approval of Engineer.	117	Nos.		
13.08	Supply & Installation of 24 Port Layer 02 Smart Gigabit Ethernet Switch with UPS (5 minutes backup time and all other accessories required for proper completion of work as per approval of Engineer.	1	Nos.		
13.09	Supply and Installation of 16 Port Cat-6 I/O port Patch Panel as per approval of Engineer.	5	Each		
13.10	Supply & installation of Cat-6, 4 Pair UTP Cable with Gigabit support, excellent electrical characteristics, low weight, slim design, no corrosive and be complaint with standards of electromagnetic compatibility and approval of Engineer.	500	Meter		
13.11	Supply, installation and connection of 8-Pin RJ45 Connector to terminate the Cat-6 cable in UTP I/O, ONT, access switch and PC as per approval of Engineer.	300	Nos.		
13.12	Supply & installation of 100 pair VF indoor cable with 0.6 mm dia, Connector, excellent electrical characteristics, low weight, no corrosive and be complaint with standards of electromagnetic compatibility and approval of Engineer.	500	Meter		
13.13	Supply & installation of 10/20 pair VF indoor cable with 0.6 mm dia, Connector, excellent electrical characteristics, low weight, no corrosive and be complaint with standards of electromagnetic compatibility and approval of Engineer.	1,500	Meter		
13.14	Supply & Fixing of 19" 27U height Floor Standing Cabinet, Cable management. The Cabinet is four side open with front and back mesh door. The back door is two side openable. The cabinet is fabricated from sheet metal with base of 16 gauge and pillars of 16 gauge with Locking, sliding and fix trays, PDU, 1U fan unit with 4 cooling fans, 4 wheels and 4 adjustable feet of casters with complete accessories as per approval of Engineer.	3	Nos.		

BILL NO. 13 - LAN & TELEPHONE SYSTEM					
S. No	Description	Qty	Unit	Rate	Amount
13.15	Supply & Installation of Servers for Proxy, DNS and Applications with Processor (Quad-core up to 2.93GHz/8MB/1333MHz), 8MB L3 Cache (max), Up to 32GB DDR-3 ECC Memory (max), 2 TB SATA or SAS Maximum internal storage and Dual Gigabit Ethernet Network interface all other accessories required for proper completion of work as per approval of Engineer.	1	Each		
13.16	Supply and Installation of PVC conduit 25 mm dia complete with all bends, tees, boxes, saddles. Sample should be approved by Engineer before installation.	1,128	Meter		
13.17	Supply & fixing of 20 pair telephone Main Distribution Frame Terminal Block with Floor Standing / Wall Mounted Frame and all other accessories required for proper completion of work as per approval of Engineer. <i>Any item (i) described in the Bill of Quantities or relevant Specifications but not shown on the Drawings, or (ii) shown on the Drawings but not described in the Bill of Quantities or relevant Specifications, shall be of like effect as it has been shown and mentioned in both. Similarly, if any item which is neither shown on the drawing nor mentioned in the Bill of Quantities or Specification but is a pre-condition to carryout any item of the contract, it shall be considered to be included in the contract price, distributed among the rates and prices entered for the related items of works. It shall be clearly understood that no extra cost whatsoever shall be paid in case such discrepancies if any, exist in the above bill.</i>	4	Nos.		
Total Amount of Bill No. 13					

BILL NO. 14 - IT EQUIPMENT					
S. No	Description	Qty	Unit	Rate	Amount
	<p><u>NOTE:</u> <i>Supplying, installation at any height, testing and commissioning of the following items of work (unless specifically stated otherwise) including all materials, labour, tools, plants, accessories, etc as per specifications and after approval of Engineer, required for proper completion of each item in all respect. If a cost is not delineated for any item/work deemed necessary by Employer to fully meet the user requirements contained herein, then such item/works will be deemed to be free. No extra charges will be permitted beyond items listed in the price table.</i></p>				
C	IT Equipment				
14.01	<p>Supply & Installation of HP Core i7 Workstation PC with Dual VGA card (+1 Gig), licensed Windows 7, 4GB RAM, 500GB HD, 20" LCD Monitor with UPS (10 minutes backup time on full load)and all other accessories required for proper completion of work as per approval of Engineer.</p> <p><i>Any item (i) described in the Bill of Quantities or relevant Specifications but not shown on the Drawings, or (ii) shown on the Drawings but not described in the Bill of Quantities or relevant Specifications, shall be of like effect as it has been shown and mentioned in both. Similarly, if any item which is neither shown on the drawing nor mentioned in the Bill of Quantities or Specification but is a pre-condition to carryout any item of the contract, it shall be considered to be included in the contract price, distributed among the rates and prices entered for the related items of works. It shall be clearly understood that no extra cost whatsoever shall be paid in case such discrepancies if any, exist in the above bill.</i></p>	6	Nos.		
Total Amount of Bill No. 14					

BILL NO. 15 - PLUMBING WORKS					
S. No	Description	Qty	Unit	Rate	Amount
A	TOILET FITTINGS & ACCESSORIES				
15.01	Providing, fixing European type water closet with coupled flushing cistern, including all accessories and fittings, CP. flexible pipe, including double seat and cover, tee stop cock with check nut, thimble, all joints to services and drains plugging and screwing as necessary to the structure. (P or S trap)	171	Nos.		
15.02	Providing, fixing Asian type water closet with low down flushing cistern connecting pipe complete with all accessories and fittings waste and traps, CP. flexible pipe, including tee stop cock with check nuts, all joints plugging and screwing as necessary to the structure.	14	Nos.		
15.03	Providing, fixing wash basin half pedestal with all accessories such as basin hot/cold mixture, tee stop cocks with check nuts, CP. flexible pipe, uPVC waste pipe, CP waste coupling, bracket set, CP bottle trap and silicon sealant, all joint to service and drain, plugging and screwing as necessary to the structure etc. Complete in respect.	13	Nos.		
15.04	Providing and fixing wash basin vanity type with all accessories such as basin mixture, tee stop cock with check nuts, CP. flexible pipe, uPVC waste pipe, CP waste coupling, bracket set, CP bottle trap and silicon sealant, all joint to service and drain, plugging and screwing as necessary to the structure etc. Complete in respect.	180	Nos.		
15.05	Providing, fixing S.S. Kitchen sink including all accessories such as hot/cold mixture, wall type with check nuts, uPVC waste pipe, CP waste coupling, bracket set, CP. bottle trap and all joints to service and drains plugging and screwing as necessary to the structure complete in all respect etc.				
a)	Single bowl single drain	76	Nos.		
15.06	Providing fixing of shower set including 1 No. bib cock, shower head, or complete open mixture type set in all respect all joint to service and drain, plugging and screwing as necessary to the structure.	159	Nos.		
15.07	Providing & fixing heavy duty mirror including all accessories chromed brass fastening spacer brackets, material, hidden brackets, and screwing as necessary to the structure etc. as per Engineer.				
a)	Size 24" x 24"	254	Nos.		

BILL NO. 15 - PLUMBING WORKS					
S. No	Description	Qty	Unit	Rate	Amount
15.08	Toilet Accessories Providing and fixing bathroom accessories including fixing with Rawal plug of approved quality complete in all respect.				
i)	Towel rail	180	Nos.		
ii)	Soap Dish	616	Nos.		
iii)	Soap dispenser	5	Nos.		
iv)	Toilet paper holder	171	Nos.		
v)	Duble Bib cock with Muslim shower	61	Nos.		
vi)	Coat Hook	616	Nos.		
vii)	Hand dryer compact automatic surface mounted power 1750W / 220V / 50Hz	7	Nos.		
viii)	Bib cock	6	Nos.		
B	Polypropylene Piping For Water Supply (Only for Interna)				
15.09	Providing & fixing, jointing, testing of polypropylene pipe(PN-20) BS 5174 or DIN 8077 for cold & hot water system including specials fittings such as hanging system, sockets, tees, elbow, bends, reducers, plugs and union etc. MS.supported walls or buried in walls / floor or suspended from roof slab as per specification & detail drawing including color coding complete in all respect.				
i)	3/4" dia (internal dia)	11,000	RFT		
ii)	1" dia (internal dia)	3,500	RFT		
iii)	1-1/4" dia (internal dia)	100	RFT		
iv)	1-1/2" dia (internal dia)	100	RFT		
v)	2" dia (internal dia)	600	RFT		
15.10	Providing & fixing, jointing, testing of G.I. pipe accordance with BS-21 heavy duty pipe for external water supply system show on the drawing including specials fittings such as hanging system, sockets, tees, elbow, bends, reducers, plugs and union etc. MS.supported walls or buried in walls / floor or suspended from roof slab as per specification & detail drawing including color coding complete in all respect.				
i)	3/4" dia	250	RFT		
ii)	1" dia	100	RFT		
iii)	1-1/4" dia	150	RFT		
iv)	1-1/2" dia	500	RFT		
v)	2" dia	10,000	RFT		
vi)	3" dia	150	RFT		
vii)	4" dia	1,000	RFT		
viii)	6" dia	100	RFT		

BILL NO. 15 - PLUMBING WORKS					
S. No	Description	Qty	Unit	Rate	Amount
15.11	Providing and fixing of full way gate/ball valves of bronze trim upto 3" (75mm) dia. With threaded ends and cast iron body bronze trim flanged ends for 4" dia. (100mm) and above with all additional material required for a complete installation as described in the as shown on drawings and as approved by the Engineer.				
i)	3/4" dia	550	Nos.		
ii)	1" dia	12	Nos.		
iii)	1-1/4" dia	1	Nos.		
iv)	2" dia	5	Nos.		
v)	3" dia	2	Nos.		
vi)	4" dia	4	Nos.		
vii)	6" dia	2	Nos.		
15.13	Providing and fixing of pressure reducing valve bronze body with threaded ends and with all additional material unless otherwise required by BS standards and codes. Backflow preventers shall be for installation in horizontal position working pressure maximum 10bars including 3 Nos bronze body gate/ball valve complete assembly as per detail drawing installation as described in the as shown on drawings, specification and as approved by the Engineer.				
i)	2" dia	30	Nos.		
15.14	Providing and fixing of full way check valves of bronze trim upto 3" (75mm) dia. With threaded ends and cast iron body bronze trim flanged ends for 4" dia. (100mm) and above with all additional material required for a complete installation as described in the as shown on drawings and as approved by the Engineer.				
i)	2" dia	2	Nos.		
ii)	4" dia	2	Nos.		
iii)	6" dia	2	Nos.		
15.15	Providing and fixing of float valves as per specification				
i)	2" dia	2	Nos.		
15.16	Providing, fixing, testing, and commissioning water centrifugal multistage pumps (2 Nos.working + 1 Nos standby tower-A) & same (Twer-B) with electric motor complete in all respects including c.c. foundation, inlet-outlet connections, union / flange, s.s. flexible expansion joints, pressure gauge, pressure, flow switch,section discharge header, electrical connection with all fixing accessories heavy duty skid mounted, etc.				
i)	WP-02 (Twer "B") 250gpm 350ft. Head	2	Nos.		

BILL NO. 15 - PLUMBING WORKS					
S. No	Description	Qty	Unit	Rate	Amount
15.17	Providing and fixing of puddle flange as per specification				
i)	3" dia	3	Nos.		
ii)	4" dia	2	Nos.		
iii)	6" dia	2	Nos.		
15.18	Providing and fixing of automatic air vent as per specification				
i)	2" dia	6	Nos.		
15.19	Providing, fixing, testing & commissioning of hot water geyser including inlet/ outlet connections, pressure relief valve automatic air vent etc. complete in all respects.				
i)	20 gal. Capacity	56	Nos.		
15.20	POTABLE WATER & STERILIZER WATER DISINFECTION SYSTEM a) General: A chlorine and water mixture shall be supplied by means of a solution feed chlorination device. The chlorine solution shall be applied at one end of the pipeline through a trap, in such a manner that as the pipeline is filled with water, the dosage applied to the water entering the pipe shall be at-least (25 to 50 ppm) or enough to meet the requirements given hereinafter. b) Chlorination: A chlorine and water mixture shall be supplied by means of a solution feed chlorination device. The chlorine solution shall be applied at one end of the pipeline through a tap, in such a manner that as the pipeline is filled with water, the dosage applied to the water entering the pipe shall be at-least (25 ppm) or enough to meet the requirements given hereinafter. c) Retention Period: Chlorinated water shall be retained in the pipeline for a period of at least 24 hours. After the chlorine treated water has been retained for the required time, the chlorine residual at the pipe extremities and at such other representative points shall be at least 10 parts per million. The procedure shall be repeated until the required residual chlorine concentration is obtained. d) Chlorination of Valve: During the process of chlorination of the pipe lines, all valves or other appurtenances shall be operated while the pipeline is filled with the heavily chlorinated water.				

BILL NO. 15 - PLUMBING WORKS					
S. No	Description	Qty	Unit	Rate	Amount
	<p>e) Final Flushing: Following complete disinfection of the pipeline, all treated water shall be thoroughly flushed from the pipeline at its extremities. Treated water and water used for flushing the pipelines shall be disposed of in a manner instructed by the Engineer. Fresh treated water shall be filled in the line and water tested for presence of coliform. The test result should indicate negative coliform presence. If the test indicates any positive coliform, the entire process of disinfection shall be repeated or improved upon until coliform free samples are obtained.</p> <p>f) Sampling and Testing: Disinfection of the pipeline and appurtenances shall be the responsibility of the Contractor. The first set of samples will be collected for analysis by the Engineer. Should the sample reveal presence of coliform the Contractor shall again disinfect the pipeline and appurtenance and shall pay the Employer for sampling and testing for subsequent retest until coliform free samples are obtained.</p> <p>g) Clean-Up: Upon completion of the installation of the water supply lines, distribution system and appurtenances, all debris and surplus materials resulting from the work will be removed and disposed off in a manner satisfactory to the Engineer.</p> <p>h) Measurement and Payment: Payment of this work will be made at the lump sum cost quoted in the BOQ, after satisfactory completion of this work as certified by the Consultant.</p>	1	Job		
C	SOIL, WASTE, VENT & RAIN WATER SYSTEM				
15.21	Providing and fixing in position uPVC pipes push fit type for soil, waste, water, vent & rain water pipe as embedded in floor and wall or suspended from slab or clamped to wall including plugs, specials (bend, tees, Y-tee etc.) Making requisite number of holes with pvc sleeve pipe class "B" in walls and floors where required and making good the same as necessary to the structure labeling testing to 6.5 Ft. water height complete.				
i)	2" dia	2,500	RFT		
ii)	3" dia	3,500	RFT		
iii)	4" dia	10,000	RFT		
iv)	6" dia	1,500	RFT		
15.22	Providing and fixing uPVC cowl for vent pipe of the following dia. including all accessories complete.				
i)	2" dia	1	Nos.		
ii)	3" dia	7	Nos.		
iii)	4" dia	11	Nos.		

BILL NO. 15 - PLUMBING WORKS					
S. No	Description	Qty	Unit	Rate	Amount
15.23	Providing and fixing uPVC floor drain / Floor Gully of approved design with S.S. (3:1:6) grating with polish finish including requisite number of holes with pvc sleeve pipe in wall plinth or floor for pipe connection and making good the same as necessary to the structure complete including gasket and clamp complete.				
i)	3" dia	353	Nos.		
15.24	Providing and fixing uPVC floor clean out of approved design with S.S. (3:1:6) polish finish cap including requisite number of holes with pvc sleeve pipe in wall plinth or floor for pipe connection and making good the same as necessary to the structure complete including gasket and clamp complete.				
i)	3" dia	4	Nos.		
ii)	4" dia	2	Nos.		
15.25	Providing and fixing uPVC roof drain of approved design including requisite number of holes with pvc sleeve pipe in wall plinth or floor for pipe connection and making good the same as necessary to the structure complete including gasket and clamp complete.				
i)	4" dia	4	Nos.		
15.26	Providing and fixing in position basement ceiling suspended main drainage hbles cast iron pipes & fitting s.s clamp joint as per specification & detail drawing for soil, waste, water & rain water pipe including Upvc to CI connector, wall or suspended from slab or clamped to wall including plugs, specials (bend, tees, Y-tee etc.) Making requisite number of holes with pvc sleeve pipe class "B" in walls and floors where required and making good the same as necessary to the structure labeling testing to 6.5 Ft. water height complete.				
i)	6" dia	500	RFT		
ii)	8" dia	700	RFT		
15.27	Providing and fixing CI clean out of approved design with S.S. (3:1:6) polish finish cap including requisite number of holes with pvc sleeve pipe in wall plinth or floor for pipe connection and making good the same as necessary to the structure complete including gasket and clamp complete.				
i)	6" dia	3	Nos.		
ii)	8" dia	3	Nos.		

BILL NO. 15 - PLUMBING WORKS					
S. No	Description	Qty	Unit	Rate	Amount
15.28	Providing and fixing local manufacturers cast iron heavy duty (60kg p/sqft.) channel grating & frame otherwise indicated shall have as flow etc. (as per specification, or approved by / Engineer)				
i)	10" wide	125	RFT		
ii)	12"wide	30	RFT		
15.29	Providing and fixing local manufacturers cast iron heavy duty (60kg p/sqft.) sum-pit grating & frame otherwise indicated shall have as flow etc. (as per specification, or approved by / Engineer)				
i)	24"x24" size	6	Nos.		
ii)	30"x30" size	1	Nos.		
15.30	Providing, fixing uPVC class 'D' pipe for sub-soil drainage system perforated type as per detail drawing complete in all respect.				
i)	6" dia	350	RFT		
15.31	Providing, laying, jointing, testing and commissioning Upvc pressure pipe work schedule 40 for irrigation system as per BSS 1387 working pressure 4.5 bars at service temperature 65 deg.C.including specials solvent material specials fittings, bend, tees, socket, flange, union,etc.) making requisite number of holes, excavation & back filling etc. complete in all respect as per drawings & specification and to the approved of the Engineer.				
i)	2" dia	30	RFT		
15.32	Providing & fixing, jointing, testing and commissioning of stainless steel submersible pump drainage type max flow 500 lit. per min and max head 10 met. Passage of solids part max 30mm complete in all respect. (1 No working & 1 No stand-by) including check valve, ball valve as per detail drawing etc. complete in all respect.	2	RFT		
15.33	Providing and fixing uPVC speed breaker with rubber ring etc. complete in all respect as per the direction of the Engineer.				
i)	4" dia	110	RFT		

BILL NO. 15 - PLUMBING WORKS					
S. No	Description	Qty	Unit	Rate	Amount
D	FIRE FIGHTING & SPERINKLER SYSTEM				
15.34	Providing, installation, testing & commissioning pressurized water booster pumping system for fire fighting comprising of 1 no. Jockey pump, vertical inline multistage, centrifugal pump having capacity of 60 us gpm and head of 12Bar and 2 nos. main pump end suction centrifugal pump having capacity of 1000 us gpm against head of 10Bar (each pump) same capacity diesel pump including, pressure gauges, pressure switches, flow switches, air release valves suction & discharge header with non-return valves, gate valves, osy valves, butter fly valves, super visior switch, strainers, with all flanged or threaded including electrical control panel with starter for each pump suitable for auto off manual operation switching of pre-adjusted, cutie & cutoff pressure complete in all respect with base skid for pumps, pressure tank and motor control panel as per specification and Engineer Instruction.	1	Set		
15.35	Providing and fixing fire hose cabinet including fire hose reel of 25mm dia. 30meters. long high pressure rubber hose, 180 deg.. Rotation mounted with on/off control jet nozzle, as manufactured including stop valve etc. As per specification and Engineer instruction.	24	Nos.		
15.36	Providing and fixing dry chemical powder, fire extinguisher 6 Kg. Capacity, powder coated in red color, complete with pressure gauge & wall bracketed	24	Nos.		
15.37	Providing and fixing water type fire extinguisher 9 liters capacity, powder coated in red color, complete with pressure gauge & wall bracket etc.	24	Nos.		
15.38	Providing, laying, jointing and testing black steel seamless piping schedule 40 for fire fighting as per ASTM-A53 grade "B" including welded fittings, hardware clamps, welding, jointing material, protective coating excavation, backfilling, compaction and bedding etc. complete in all respect as per specification and to the approved of the Engineer.				
i)	3/4" dia	15,150	RFT		
ii)	1" dia	6,300	RFT		
iii)	1-1/4" dia	6,900	RFT		
iv)	1-1/2" dia	2,300	RFT		
v)	2" dia	2,010	RFT		
vi)	3" dia	2,500	RFT		
vii)	4" dia	4,000	RFT		
viii)	6" dia	100	RFT		

BILL NO. 15 - PLUMBING WORKS					
S. No	Description	Qty	Unit	Rate	Amount
15.39	Providing, fixing butterfly valve bolted bonnet, outside screw & yoke, rising stem, solid wedge disc complet in all respect				
i)	4" dia	6	Nos.		
15.40	Providing, fixing alarm check valve flanfe connection,bypass check valve, pressure switches, stop valves, retard chamber, drain & test valves, complet in all respect				
i)	4" dia	2	Nos.		
15.41	Providing, fixing water motor alarm as per pumps required complet in all respect	1	Job		
15.42	Providing & fixing pendent type sprinkler with 5mm glass bulb standard response K- factor 5.6, orifice dia 15mm brass body				
i)	4" dia	564	Nos.		
15.43	Providing & fixing automatic pressure relief valve				
i)	2" dia	2	Nos.		
15.44	Providing and fixing Siamese twin connection as per specification.				
i)	2-1/2" dia	2	Nos.		
15.45	Providing & fixing test drain valve as per detail drawing				
i)	2" dia	1	Nos.		
15.46	Providing and fixing fire hydrant valve as per specification.				
i)	2-1/2" dia	2	Nos.		
ii)	4" dia	4	Nos.		
15.47	Supply & fix, Galvanized M.S Cover & frame 750mm x 750mm x 3/8" rectangular with 2" x 2" x 1/4" Angle iron frame fixed in (Roof Opening) i/c painting with anticorrosive paint, a coat of red zinc paint complete as per drawings direction of the Engineer.	400	Kg.		
15.48	Supply and fixing C.I Goose Neck Vent 6" dia as per drawings design suitable for fixing in the roof of under ground tank weighting 50 Kg each.	6	Nos.		

BILL NO. 15 - PLUMBING WORKS					
S. No	Description	Qty	Unit	Rate	Amount
E	NATURAL GAS				
15.49	Providing & fixing jointing testing G.I Pipe lines for Gas supply as per BS 1387 medium quality IIL. Including specials sockets tee, elbow, bend, reducer plug and union etc,. Supported on walls or suspended from roof slab, including protective coating as per drawing and specifications including color coding complete in all respects.				
a)	1/2" dia	7,000	Rft.		
b)	3/4" dia	2,000	Rft.		
c)	1" dia	150	Rft.		
15.50	Providing and fixing gas cocks of approved quality of gas company including all accessories complete in all respects.				
a)	1/2" dia	200	Nos.		
15.51	Gas supply connection to individual flats / houses of appropriate dia as per the approved specifications of SSGC including charges for meter, load classification, load sanction and flats service branch etc including coordination charges, fees, expenses, etc are to be included in the rate. complete in all respect.				
		60	Nos.		
15.52	Gas supply connection to commercial individual of appropriate dia as per the approved specifications of SSGC including charges for meter, load classification, load sanction and flats service branch etc including coordination charges, fees, expenses, etc are to be included in the rate. complete in all respect.				
		1	Nos.		
	<p><i>Any item (i) described in the Bill of Quantities or relevant Specifications but not shown on the Drawings, or (ii) shown on the Drawings but not described in the Bill of Quantities or relevant Specifications, shall be of like effect as it has been shown and mentioned in both. Similarly, if any item which is neither shown on the drawing nor mentioned in the Bill of Quantities or Specification but is a pre-condition to carryout any item of the contract, it shall be considered to be included in the contract price, distributed among the rates and prices entered for the related items of works. It shall be clearly understood that no extra cost whatsoever shall be paid in case such discrepancies if any, exist in the above bill.</i></p>				
Total Amount of Bill No. 15					

BILL NO. 16 - HVAC WORKS					
S. No	Description	Qty	Unit	Rate	Amount
16.01	AIR COOLED WATER CHILLER Supply & Installation of Air Cooled Screw Water Chillers with R134a refrigerant charge including vibration isolators, chilled water inlet & outlet connections, recommended spare parts etc complete in all respects ready to operate as per specification & schedule of equipment. Capacity = 150 TR. Ambient Temperature: 105°F	2	Nos.		
16.02	CENTRIFUGAL PUMP Supply & Installation of Chilled water Primary/Secondary Circulation Pump set with siemens motor including vibration isolators, inlet and outlet connections, drain connection etc complete in all respects ready to operate as per specification & schedule of equipment. Primary CHWP =360 GPM, 60 Ft Head Secondary CHWP = 360 GPM, 100 Ft Head	3 3	Nos. Nos.		
16.03	AIR HANDLING UNITS Supply & installation, rigging, lifting & placement of Air Handling Units of following capacities including vibration isolator complete in all respects ready to operate and as per specifications. AHU-1 (1500 CFM (50 MBH) 2000 CFM (60 MBH) 2500 CFM (70 MBH) 2800 CFM (85 MBH) 3500 CFM (100 MBH) 4000 CFM (120 MBH) 4500 CFM (125 MBH) 5000 CFM (150 MBH) 7000 CFM (200 MBH) 8500 CFM (250 MBH) 9000 CFM (275 MBH)	1 2 1 2 2 2 1 2 1 1 1	Nos. Nos. Nos. Nos. Nos. Nos. Nos. Nos. Nos. Nos. Nos.		
16.04	FAN COIL UNITS (CHILLED WATER) Supply & installation, rigging, Lifting & Placement, testing and commissioning of Fan Coil Unit ducted type including all accessories, hangers, vibration isolators complete in all respect. 800 CFM (25 MBH) 600 CFM (20 MBH)	2 2	Nos. Nos.		
16.05	G.I DUCTING Supply, Fabrication and installation of machine made hot dip G.I. sheet metal duct for different sections of supply/return air including plenums, splitter dampers, guide vanes, access door, transformation, plenums chambers complete in all respects.	15,000	SqFt		

BILL NO. 16 - HVAC WORKS					
S. No	Description	Qty	Unit	Rate	Amount
16.06	DUCT INSULATION Supply & installation of thick premolded fiber glass (density: 24Kg/m3) insulation for G.I. sheet metal duct work wrapped with vapour barrier protected with canvas clothing then painted with antifungus paint complete in all respect as per specification. 1" thick 2" thick	12,000 800	SqFt SqFt		
16.07	SOUND LINER Supply & installation of 1" thick sound liner for supply air ducts complete in all respect.	2,000	SqFt		
16.08	DUCT CLADING Supply and installation of 26 gage G.I sheet clading on exposed insulated duct work complete in all respect.	1,000	SqFt		
16.09	AIR DEVICES Supply and installation of Aluminum powder Coated fabricated Grills, Diffusers and Registers for supply and return air as per specifications complete in all respect. Diffusers/Grills VCD Liner Slot Diffusers (4 Slot) Fresh Air Intake Louver	700 150 700 100	SqFt SqFt Rft SqFt		
16.10	PIPING Supply & installation of MS Schedule 40 seamless Pipes for chilled water as mentioned in the drawing including all required pipe fittings etc Complete in all respect. 25 Ø 32 Ø 38 Ø 50 Ø 63 Ø 75 Ø 100 Ø 125 Ø 150 Ø	100 400 600 1,200 500 300 50 200 800	Rft Rft Rft Rft Rft Rft Rft Rft Rft		
16.11	PIPING INSULATION Supply & installation of thick Pre-molded Fiber Glass (min Density: 24Kg/m3) pipe insulation as per specification complete in all respect 1" thickness 25 Ø 32 Ø 38 Ø 50 Ø 1.5" thickness 63 Ø 75 Ø 100 Ø	100 400 600 1,200 500 300 50	Rft Rft Rft Rft Rft Rft Rft		

BILL NO. 16 - HVAC WORKS					
S. No	Description	Qty	Unit	Rate	Amount
	2" thickness				
	125 Ø	200	Rft		
	150 Ø	800	Rft		
16.12	PIPE CLADING				
	Supply & installation of 26 guage sheet metal clading on chilled water insulated piping complete in all respects.				
	25 Ø	100	Rft		
	32 Ø	400	Rft		
	38 Ø	600	Rft		
	50 Ø	1,200	Rft		
	63 Ø	500	Rft		
	75 Ø	300	Rft		
	100 Ø	50	Rft		
	125 Ø	100	Rft		
	150 Ø	800	Rft		
16.13	VALVES & ACCESSORIES				
	Supply and installation of valves & accessories of approved make as per drawings & specifications complete in all respect.				
(i)	Gate Valves				
	25 Ø	4	Nos.		
	32 Ø	28	Nos.		
	38 Ø	20	Nos.		
	50 Ø	20	Nos.		
	63 Ø	8	Nos.		
	75 Ø	4	Nos.		
	100 Ø	4	Nos.		
	125 Ø	15	Nos.		
	150 Ø	4	Nos.		
(ii)	Globe Valve				
	25 Ø	2	Nos.		
	32 Ø	14	Nos.		
	38 Ø	10	Nos.		
	50 Ø	10	Nos.		
	63 Ø	4	Nos.		
	75 Ø	4	Nos.		
	100 Ø	4	Nos.		
	125 Ø	3	Nos.		
	150 Ø	4	Nos.		
(iii)	Strainers				
	25 Ø	2	Nos.		
	32 Ø	14	Nos.		
	38 Ø	10	Nos.		
	50 Ø	15	Nos.		
	63 Ø	4	Nos.		
	75 Ø	5	Nos.		
	125 Ø	6	Nos.		
(vi)	Balancing Valves				
	25 Ø	2	Nos.		
	32 Ø	14	Nos.		
	38 Ø	10	Nos.		
	50 Ø	10	Nos.		
	63 Ø	4	Nos.		
	125 Ø	2	Nos.		

BILL NO. 16 - HVAC WORKS					
S. No	Description	Qty	Unit	Rate	Amount
(v)	2 Way Motorized Valves				
	25 Ø	2	Nos.		
	32 Ø	14	Nos.		
	38 Ø	10	Nos.		
	50 Ø	10	Nos.		
	63 Ø	4	Nos.		
(vi)	CheckValves				
	125 Ø	6	Nos.		
(viii)	Air Vent	6	Nos.		
16.14	INSTRUMENT				
	Supply & installation of measurement instruments complete with all accessories as per specifications complete in all respect.				
	Thermometers	64	Nos.		
	Pressure Gauges	70	Nos.		
16.15	FIEXIBLE DUCT CONNECTOR				
	Supply & installation of flexible duct connectors for different sections of supply & return ducts complete in all respect.	1	Job.		
16.16	DRAIN				
	Supply & installation of Condensate drain UPVC piping with following sizes complete in all respect.				
	25 Ø	400	Rft		
	32 Ø	400	Rft		
	40 Ø	200	Rft		
	50 Ø	200	Rft		
16.17	FLEXIBLE PIPE CONNECTOR				
	Supply & installation of flexible connector (imported) for Chillers/Pumps/AHUs complete in all respect.				
	32 Ø	28	Nos.		
	38 Ø	18	Nos.		
	50 Ø	20	Nos.		
	63 Ø	8	Nos.		
	125 Ø	12	Nos.		
16.18	VENTILATION FANS				
	Supply & Installtion of ventilation fans for fresh/exhaust air as per schedule of equipment complete in all respect.				
	14000 CFM (Centrifugal Type)	8	Nos.		
	25000 CFM (Centrifugal Type)	2	Nos.		
	150 CFM (Propeller Fan)	1	Nos.		
	300 CFM (Propeller Fan)	6	Nos.		
	550 CFM (Propeller Fan)	2	Nos.		
	600 CFM (Propeller Fan)	1	Nos.		
	700 CFM (Propeller Fan)	2	Nos.		
	1100 CFM (Propeller Fan)	2	Nos.		
	1200 CFM (Propeller Fan)	2	Nos.		
	1300 CFM (Propeller Fan)	1	Nos.		
	1000 CFM (Tube Axial)	4	Nos.		

BILL NO. 16 - HVAC WORKS					
S. No	Description	Qty	Unit	Rate	Amount
16.19	AIR CURTAINS Supply & Installation of air curtains of approved make & size complete with wiring, fixing, making good all accessories ready to operate as per specifications. 4 Ft	4	Nos.		
16.20	PRESSURIZED EXPANSION TANK Supply, installation testing and commissioning of insulated fiber glass pressurized expansion tank of required size and capacity including gate valve, check valve, float valve etc. complete in all respects ready to operate as pre schedule, specifications, drawing and as per instructions of Consultant.	1	Job.		
16.21	CHEMICAL FEEDING EQUIPMENT Supply & Installtion of chemical feeding equipment for chilled water suitable for operation with chemical as per specification complete in all respect.	1	Job.		
16.22	ELECTRICAL PANEL. Supply & installation, testing and commissioning MCCs for all HVAC Equipments complete in all respect.	1	Job.		
16.23	ELECTRIC WIRING. Supply & installation of Power Cabling in PVC conduit from MCC to each AHU, FCU, including connectors, tagging of cables complete in all respect.	1	Job.		
16.24	BMS SYSTEM Supply & Installation of Building Management System compatible with BACnet Controllers of complete HVAC system readily in operation as per requirement and consulatant instruction.	1	Job.		
16.25	HVAC CONTROLLERS Supply & installation, testing and commissioning of HVAC controls for AHU, FCU, with all accessories complete in all respect.	1	Job.		
16.26	CABLE TRAY Supply & installation of cable tray in 26 Gage G.I Sheet for Electric cable from MCC to different A/C equipments as per specifications.	1	Job.		
16.27	MINOR CIVIL WORK Making C.C foundation for Chiller, Pumps, AHUs. Minor Civil work related to HVAC work including slab/wall opening, cutting, fixing and making good complete in all respect.	1	Job.		
16.28	Spare Parts Spare parts of all equipment suitable for 1 year of operation as recommended by the manufacturer and list of spare parts to be supplied along with bid.	1	Lot		

BILL NO. 16 - HVAC WORKS					
S. No	Description	Qty	Unit	Rate	Amount
16.29	TESTING & COMMISSIONING Testing commissioning & air/water balancing.of complete A.C. System.	1	Job.		
16.30	SHOP DRAWINGS Providing shop drawings/As built drawings.	1	Job.		
16.31	TEST RUN One month test run.	1	Job.		
16.32	OPERATION & MAINTENANCE Operation & Maintenance for 1 year.	1	Job.		
16.33	Contingency Items Misc. Contingency Items not mentioned or overlooked but required at site to complete & successful execution work as recommended by manufacturer time to time or as suggested by consultant. <i>Any item (i) described in the Bill of Quantities or relevant Specifications but not shown on the Drawings, or (ii) shown on the Drawings but not described in the Bill of Quantities or relevant Specifications, shall be of like effect as it has been shown and mentioned in both. Similarly, if any item which is neither shown on the drawing nor mentioned in the Bill of Quantities or Specification but is a pre-condition to carryout any item of the contract, it shall be considered to be included in the contract price, distributed among the rates and prices entered for the related items of works. It shall be clearly understood that no extra cost whatsoever shall be paid in case such discrepancies if any, exist in the above bill.</i>	1	Job.		
Total Amount of Bill No. 16					

SUMMARY OF REVERSE OSMOSIS PLANT BILL OF QUANTITIES

Client : Project Director , Sindh Parliamentarians Residences
Project : Construction of Sindh Parliamentarians Residences (Package-B)

Sr no:-	SUB HEAD	Bill NO.	AMOUNT
			(Rs.)
1	. DRILLING OF TUBE WELL	Bill No. 17-A	Rs.
2	. DEVELOPMENT OF TUBE WELL	Bill No. 17-B	Rs.
3	. MECHANICAL WORKS	Bill No. 17-C	Rs.
4	. REVERSE OSMASIS PLANT	Bill No. 17-D	Rs.
TOTAL AMOUNT OF BILL NO. 17 (Rs.)			Rs.

(Rupees _____)
(In Words)

CONTRACTOR

BILL NO. 17- A- DRILLING OF TUBE WELL					
S. No	Description	Qty	Unit	Rate	Amount
1	Drilling in all kinds of soils, strata & rocks, taking of samples of different strata and water with 8 inch dia. bit including mobilization of all drilling machinery and equipment, material, accessories, staff & labour.				
a).	Depth from Ground Level up to 200 ft.	200	Rft		
2	Collection of samples of sub-soil strata and water during drilling from different depths and all change of strata & carrying out sieve analysis of strata & testing water quality for TDS, TSS & pH through yeild kits for design of tube well on the basis of data obtained from field kits during drilling and compiling and submission of report including recommendations for suitability of conversion of bore hole into tube well and design of tube well piping for and strainers for each test hole separately for approval by Engineer.	15	No.		
3	Testing of quality of water through water obtained from the tube well during pump test through approved laboratory as per WHO Drinking Water Standards and assessment of available quality and quantity of water and compiling the report for each bore hole. Five copies of report to be submitted for approval of engineer before construction of tube well.	1	Job		
<p><i>Any item (i) described in the Bill of Quantities or relevant Specifications but not shown on the Drawings, or (ii) shown on the Drawings but not described in the Bill of Quantities or relevant Specifications, shall be of like effect as it has been shown and mentioned in both. Similarly, if any item which is neither shown on the drawing nor mentioned in the Bill of Quantities or Specification but is a pre-condition to carryout any item of the contract, it shall be considered to be included in the contract price, distributed among the rates and prices entered for the related items of works. It shall be clearly understood that no extra cost whatsoever shall be paid in case such discrepancies if any, exist in the above bill.</i></p>					
Total Amount For 01 No. Hole					
Total Amount For 03 No. Hole					

BILL NO. 17- B- DEVELOPMENT OF TUBE WELL					
S. No	Description	Qty	Unit	Rate	Amount
1	Enlargement of 12" diameter test bore hole after written approval of the engineer on the report of drilling, recommendation of conversion of borehole into tube well and design of tube well submitted by the contractor by reaming up to 18" diameter in all kinds of strata including all types of soils and rocks up to full required depth as approved by the Engineer.	200	Rft		
2	Providing and Installation of 12" diameter uPVC Class E, pipe and strainer lowered into the bore hole including centralizer and bail plug up to the full depth as per approved design of tube well with clamps and all required accessories as per tube well log duly approved by Engineer complete in all respect.	200	Rft		
3	Providing gravel shrouding around the casing pipe and strainer as per approved tube well log and as per requirement of contract and instructions of the engineer through pipe lowered up to the designed	200	Rft		
4	Development of tube well with air compressor of adequate capacity till water becomes clear, free of silt and sand and turbidity and without any significant change in TDS and pH while measuring the flow and draw down in the tube well.	1	Job		
5	Pumping test of the developed tube well as per requirement of specifications and/or period of time as per instructions of the engineer for yield of tube well including water sampling and testing for TDS,TSS and pH through field kits and for determination of safe yield of acceptable quality & quantity of water from the tube well. The contractor shall provide pump of adequate capacity varying from 100 to 200gpm or more with electric power generator of adequate capacity with fuel oil lubricants and all accessories materials staff and labour and required instruments for measurement of water quality and quantity complete in all respects.	1	Job		
6	Construction of two piezometer wells near each tube well constructed and developed up to depth as per specifications and instructions of the Engineer including drilling bore hole of 8" diameter and installation of casing and strainer 4" diameter of uPVC Pipe class D along with gravel shrouding similar to construction of tube well but without testing complete in all respect (Provisional).	600	Rft.		
7	Construction of Concrete foundation with M.S. capping as shown in drawing over the casing pipe of tube well and also for piezometers (2 No. near each tube well) complete in all respect.	1	Job		

BILL NO. 17- B- DEVELOPMENT OF TUBE WELL					
S. No	Description	Qty	Unit	Rate	Amount
	<i>Any item (i) described in the Bill of Quantities or relevant Specifications but not shown on the Drawings, or (ii) shown on the Drawings but not described in the Bill of Quantities or relevant Specifications, shall be of like effect as it has been shown and mentioned in both. Similarly, if any item which is neither shown on the drawing nor mentioned in the Bill of Quantities or Specification but is a pre-condition to carryout any item of the contract, it shall be considered to be included in the contract price, distributed among the rates and prices entered for the related items of works. It shall be clearly understood that no extra cost whatsoever shall be paid in case such discrepancies if any, exist in the above bill.</i>				
Total Amount For 01 No. Hole					
Total Amount For 03 No. Hole					

BILL NO. 17- C- MECHANICAL WORKS					
S. No	Description	Qty	Unit	Rate	Amount
1	Supply & fix, Galvanized M.S Cover & frame 750mm x 750mm x 3/8" rectangular with 2" x 2" x 1/4" Angle iron frame fixed in (Roof Opening) i/c painting with anticorrosive paint, a coat of red zinc paint complete as per drawings direction of the Engineer.	53	Kg.		
2	Supply & fix, Galvanized M.S Cover & frame 600mm x 600mm x 3/8" rectangular with 2" x 2" x 1/4" Angle iron frame fixed in (Roof Opening) i/c painting with anticorrosive paint, a coat of red zinc paint complete as per drawings direction of the Engineer.	210	Kg.		
4	Providing and fixing manual chain pully block capacity 2 tons complete as per direction of the Engineer.	1	Nos.		
5	Supply and fix, built up girders, ordinary and compound stanchion for wheel runs, platforms, gate/door coverings incl screws bolts and nuts etc, or welding in lieu of riveting etc.	105	Kg.		
5	Supply and fixing stainless steel submersible pump 200 GPM capacity and 600 ft head including SS bowl assembly, submersible electric motor of suitable horse power, cable termination kit, MS riser pipes, MS top set i/c manifold, sluice valve, non return valve, safety valve, bore plate, pipe clamps, MS nipple, drop cable, electrode cable , SS electrode, GI motor jacket,& motor control panel with all accessories complete in all respect for a fully operating pump set as shown in drawings and directed by the Engineer.	1	Nos.		
6	Providing & laying M.S pipe made out of M.S sheet 7.9 mm thick conforming to API 5L grade X-42 helical seam submerged arc welded carbon steel pipe with externally coated of 3-layer polyethylene and epoxy coated internally conforming to B.S specification including jointing, Flanges, Gasket, testing etc complete in all respect and as per direction of the Engineer.				
a)	M.S Pipe 12" Dia	350	Rft.		
12	Sluice Valve, according to BSS-5150/5163, PN-16 Class 150 Lbs flanged and drilled to BS, complete with rubber packing, supply and fixing.				
a)	12" Dia	1	Nos.		

BILL NO. 17- C- MECHANICAL WORKS					
S. No	Description	Qty	Unit	Rate	Amount
19	Providing R.C.C chambers 0.91 x 0.91 m (inside dimension) x 1.68m deep as per approved design for valves , with Reinforced Class A1 concrete precast top slab 150mm thick, 200mm thick Reinforced Class A1 Concrete walls, Reinforced Class A1 150mm thick in foundation over 100mm thick lean concrete, two coats of bitumen coating on outer surface in contact with earth, including excavation, dewatering of sub soil water if required, back filling with suitable excavated materials around chamber, cost of reinforcement to be paid separately, complete as per drawing and directions of the Engineer. Cost of cartage from yard to site of work precast covers and fixing in position deemed to be included in the rates. All suitable excavated surplus material to be re-used in shoulder area of embankment.	1	Nos.		
20	<p>Providing & laying Deformed steel reinforcement bars having minimum yield stress of 60,000 psi with and including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown over the drawings, placing in position on precast chairs of cement concrete Class A1 or MS chairs, tying with binding wire in all kinds of RCC work. Cost of chair and wires etc. deemed to be included in the rates and will not be paid separately.</p> <p><i>Any item (i) described in the Bill of Quantities or relevant Specifications but not shown on the Drawings, or (ii) shown on the Drawings but not described in the Bill of Quantities or relevant Specifications, shall be of like effect as it has been shown and mentioned in both. Similarly, if any item which is neither shown on the drawing nor mentioned in the Bill of Quantities or Specification but is a pre-condition to carryout any item of the contract, it shall be considered to be included in the contract price, distributed among the rates and prices entered for the related items of works. It shall be clearly understood that no extra cost whatsoever shall be paid in case such discrepancies if any, exist in the above bill.</i></p>	650	Kg		
Total Amount For 01 No.					
Total Amount For 02 No.					

BILL NO. 17- D- REVERSE OSMOSIS PLANT					
S. No	Description	Qty	Unit	Rate	Amount
	<p>Reverse Osmosis Plant Supply Design, Supply / Installation, Commissioning of Reverse Osmosis Filtration Plants (European / USA Origin) to provide 150,000 IGPD treated water in accordance with WHO drinking water guidelines for inflow of TDS 5000 ppm with all electric work including connection. Plant design will be based on values obtained after reconfirmation of ground water quality of bore-well from approved laboratory. The plants will be provided with all pre-filtration and pre & post dosing, high and low pressure pumping unit, backwashing, skid mounted with civil support foundations and all necessary control and monitoring system, including disposal of brine (rejected water) as per guidelines of SEPA.</p> <p>Operation & Maintenance Operation and maintenance of Reverse Osmosis Water Filtration Plants of 150,000 IGPD capacity (Product Water) including consumable material, spare parts, lubricants, dosing, Staff and other requirement for proper Operation and Maintenance of the Plant to supply product water as per WHO guidelines for Drinking Water. Energy will be provided by the Employer. (02 Years Operation and Maintenance inclusive of 01 year of Defect Liability Period).</p> <p><i>Any item (i) described in the Bill of Quantities or relevant Specifications but not shown on the Drawings, or (ii) shown on the Drawings but not described in the Bill of Quantities or relevant Specifications, shall be of like effect as it has been shown and mentioned in both. Similarly, if any item which is neither shown on the drawing nor mentioned in the Bill of Quantities or Specification but is a pre-condition to carryout any item of the contract, it shall be considered to be included in the contract price, distributed among the rates and prices entered for the related items of works. It shall be clearly understood that no extra cost whatsoever shall be paid in case such discrepancies if any, exist in the above bill.</i></p>	1	Job.		
Total Amount For RO Plant					

**BD-8
Appendix-D to Bid****BILL OF QUANTITIES****C. Daywork Schedule****General**

1. Reference is made to Sub-Clause 52.4 of the General Conditions of Contract Part-I. Work shall not be executed on a day work basis except by written order of the Engineer. Bidders shall enter basic rates for Daywork 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 Daywork, and the extended total for Daywork shall be carried forward to the Bid Price.

Daywork Labour

2. In calculating payments due to the Contractor for the execution of Daywork, the actual time of classes of labour directly doing the Daywork 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 Daywork Rates for labour together with an additional percentage, payment on basic rates representing the Contractor's profit, overheads, etc., as described below:
 - a) the basic rates for labour shall cover all direct costs to the Contractor, including (but not limited to) the amount of wages paid to such labour, transportation time, overtime, subsistence allowances and any sums paid to or on behalf of such labour for social benefits in accordance with Pakistan law. The basic rates will be payable in local currency only; and
 - b) the additional percentage payment to be quoted by the Bidder and applied to costs incurred under (a) above shall be deemed to cover the Contractor's profit, overheads, superintendence, liabilities and insurances and allowances to labour timekeeping and clerical and office work; the use of consumable stores, water, lighting and power; the use and repair of stagings, scaffolding, workshops and stores, portable power tools, manual plant and tools; supervision by the Contractor's staff, foremen and other supervisory personnel; and charges incidental to the foregoing.

BD-08 to BD-15 of Standard Form of Bidding Documents for Procurement of Civil Works - Large Works are deleted being Not Applicable.

BE-1
Appendix-E to Bid

PROPOSED CONSTRUCTION SCHEDULE

Pursuant to Sub-Clause 7.2 of the Particular Conditions of Contract, the Works shall be completed on or before the date stated in Contract Data.

The Bidder shall provide the Proposed Construction Schedule in the form of “Programme” of Work and Monthly Progress Schedule described as under:-

a. Programme of Work

It shall be submitted in Primavera (level III) or PERT (Programme Evaluation Review Technique) showing the sequence of work items by which he proposes to complete the work of the entire Contract. The programme should indicate the sequence of work items and the period of time during which he proposes to complete the Works including the activities like designing, schedule of submittal of drawings, ordering and procurement of materials, manufacturing, delivering, construction of civil works, erection, testing and commissioning of Works to be supplied under the Contract.

b. Monthly Progress Schedule

A separate Bar Chart Showing “Monthly Progress Schedule” showing major activities related to Cost of Project shall be submitted alongwith Programme of work mentioned above. This Monthly Progress Schedule shall be considered as Scheduled Progress as defined in sub clause 1.16.11 in Particular Conditions of Contract. The scheduled progress shall be referred throughout the currency of contract unless revised with the approval of the Client. Specimen of Monthly Progress Schedule is as under:-

Monthly Progress Schedule

S/No.	Activity	Months											
		1	2	3	4	6	7	8	9	10	11	12	
	ABC												
	XYZ												
Percentage Scheduled Progress		5%	15%	-	-	-	-	-	-	-	-	100%	

Programme of Work and Monthly Progress Schedule shall be finalized upto the satisfaction of the Client before signing of Contract Agreement.

BF-1
Appendix-F to Bid**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 in Pakistan, 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.

BG-1
Appendix-G to Bid**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.].

BG-2
Appendix-G to Bid**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						

BH-1
Appendix-H to Bid**CONSTRUCTION CAMP AND HOUSING FACILITIES**

The Contractor in accordance with Clause 6 of the Conditions of Contract shall provide description of his construction camp's facilities and staff housing requirements.

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.).

BI-1
Appendix-I to Bid**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

BJ-1
Appendix-J to Bid

ESTIMATED PROGRESS PAYMENTS (SAMPLE)

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:

Month	Amounts (in Millions)
1	2
1 st Month	
2 nd Month	
3 rd Month	
4 th Month	
5 th Month	

24 th Month	
Bid Price	

BK-1
Appendix-K to Bid

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

BL-1
Appendix-L to Bid

(INTEGRITY PACT)

**DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC.
PAYABLE BY THE SUPPLIERS OF GOODS, SERVICES & WORKS IN
CONTRACTS WORTH RS. 10.00 MILLION OR MORE**

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 times 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.

.....
[Procuring Agency]

[Contractor]

FORMS
BID SECURITY
PERFORMANCE SECURITY
CONTRACT AGREEMENT
MOBILIZATION ADVANCE GUARANTEE
INDEMNITY BOND FOR SECURED
ADVANCE

BID SECURITY

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 fulfilment 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:

1. _____

Corporate Secretary (Seal)

2. _____

Name, Title & Address

Signature _____

Name _____

Title _____

Corporate Guarantor (Seal)

FORM OF PERFORMANCE SECURITY

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 49, 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 _____

Name _____

Title _____

Corporate Secretary (Seal)

2. _____

Name, Title & Address

Corporate Guarantor (Seal)

FORM OF CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT (hereinafter called the "Agreement") made on the _____ day of _____ (month) 2016 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 Supply and Fixing , viz _____ should be executed by the Contractor and has accepted a Bid by the Contractor for the execution and completion of such Supply and Fixing and the remedying of any defects therein.

NOW this Agreement witnesseth 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 / Clarification as agreed or otherwise, if any, except those parts relating to Instructions to Bidders shall be deemed to form and be read and construed as part of this Contract, viz::
 - a). The Contract Agreement;
 - b). The Letter of Acceptance;
 - c). The completed Form of Bid;
 - d). Specification - Special Provision
 - e). Special Stipulations (Appendix-A to Bid);
 - f). The Particular Conditions of Contract - Part II;
 - g). The General Conditions - Part I;
 - h). Tender Drawings;
 - i). Specifications - Technical Provisions
 - j). The completed Appendices to Bid (B, C, E to N);
 - k). The priced Bill of Quantities (Appendix-D to Bid);
 - l). Programme of Work;
 - m). Monthly Progress Schedule
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 Supply and Fixing 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 Supply and Fixing 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) (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 fulfillment 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 _____ (Date) whichever is earlier.

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 2015 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 Supply and Fixing (hereinafter referred to as the said work):-

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 Supply and Fixing the subject of the said agreement for use in the said Supply and Fixing as he has undertaken 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 Supply and Fixing signed by the contractor.

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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 Supply and Fixing .

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 hereby 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 Supply and Fixing 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 Supply and Fixing 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 Supply and Fixing as aforesaid the said materials shall remain at the site of the said Supply and Fixing in the Contractor's custody and at his own risk and on his own responsibility and shall at all times be open to inspection by (he Divisional Officer or any officer authorized by him. In the event of the said materials of any part (hereof being stolen, destroyed or damaged or becoming deteriorated in a greater degree than is due to reasonable use and wear thereof Contractor will forthwith replace the same with other materials of like quality or repair and make good the same as required by the Divisional Officer and the materials so brought to replace the said materials so repaired and made good shall also be considered as security for the said amount.
- (5) Hurt the said materials shall not on any account be removed from the site of the said Supply and Fixing 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 Supply and Fixing 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 (actually used in the Supply and Fixing 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 (the rates at which the amount of the advances made under these presents were calculated).
- (7) at if the Contractor shall at any time make any default in the performance or observation in any respect of any of the terms and provisions of the said agreement or of these presents the total amount of the advance or advances that may still be owing to the Government shall immediately on the happening of such default be repayable by the Contractor to the Government together with interest thereon at twelve percent per annum from the date or respective dates of such advance or advances to the date of repayment and with all costs, charges, damages and expenses incurred by the Government in or for the recovery thereof or the enforcement of this security or otherwise by reason of (the default of the Contractor and any moneys so becoming due and payable shall constitute a debt due from the Contractor to the Government and the Contractor hereby covenants and agrees with the Government to repay and the same respectively to it accordingly.
- (8) That the Contractor hereby charges all the said materials with the repayment to the Government of the said sum of Rupees (Rs.) and any further sum or sums which may be advanced as aforesaid and all costs charges damages and expenses payable under these present PROVIDED ALWAYS and it is hereby agreed and declared that not, withstanding anything in the said agreement and without prejudice to the powers contained therein if and whether the covenant for payment and repayment hereinbefore contained shall become enforceable and the money owing shall not be paid to accordingly.

Once there with the Government may at any time thereafter adopt all or any of following courses as it may deem best ;-

- (a) Seize and utilize the said materials or any part thereof in the completion of the said Supply and Fixing 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 Supply and Fixing 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.

Signed, sealed and delivered by*
In the presence of



1st witness
2nd witness

Signed, sealed and delivered by*
In the presence of



1st witness
2nd witness

PART I -
GENERAL CONDITIONS OF CONTRACT

Conditions of Contract

For CONSTRUCTION

FOR BUILDING AND ENGINEERING WORKS DESIGNED BY THE EMPLOYER

Multilateral Development Bank Harmonised Edition March 2006

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FEDERATION INTERNATIONALE DES INGENIEURS-CONSEILS
INTERNATIONAL FEDERATION OF CONSULTING ENGINEERS
INTERNATIONAL VEREINIGUNG BERATENDER INGENIEURE
FEDERACION INTERNACIONAL DE INGENIEROS CONSULTORS



The successful Contractor is required to purchase copy of the said document from FIDIC directly prior to signing of contract and the said copy shall be supplied to the Employer for incorporation in the contract. Cost of purchase of the same is deemed to be included in the Contract Price of the Bidder / Contractor.

General Conditions

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PARTICULAR CONDITIONS OF CONTRACT - PART-II

1.1 DEFINITIONS

1.1.2.2 The Employer is **PROJECT DIRECTOR, SINDH PARLIAMENTARIAN RESIDENCES, KARACHI**. Wherever the term Client or Owner appears in the Tender Document, it shall mean the "Employer".

1.1.2.3 "**Contractor**" means any person or persons, company, corporation, firm or joint venture submitting a Bid Tender.

1.1.2.4 The Engineer is **M/s Osmani & Company (Pvt.) Ltd.**
Consulting Engineers, Osmani House, 245/2K, Block-6, PECHS, Karachi
Phones: 021-34536007 / 008, 34546541 / 42, Fax: 021-34534691
Email: ocl-khi@osmani.com Web: www.osmani.com

or any other competent person appointed by the Employer, and notified to the Contractor, to act in replacement of the Engineer. Provided always that except in cases of professional misconduct, the outgoing Engineer to formulate his certifications / recommendations in relation to all outstanding matter, disputes and claims relating to the execution of the Works during his tenure.

Wherever the term Consultant or Consultants appears in the Bidding Documents, it shall mean the "Engineer" and vice-versa.

1.1.4.2 "**Contract Price**" means the sum stated in the Letter of Acceptance as payable to the Contractor for the execution and completion of the Works subject to such additions thereto or deductions there from as may be made and remedying of any defects therein in accordance with the provisions of the Contract.

1.1.6.10 "**Programme**" means the programme to be submitted by the Contractor in accordance with Sub-Clause 8.3 and any approved revisions thereto.

1.1.6.11 "**Scheduled Progress**" means the Monthly Progress Schedule as described in BE-1 Appendix-E to Bid included in Instruction to Bidder.

1.3 Communications

Existing text is replaced with following:

Wherever these Conditions provide for giving or issuing of approvals, certificates consents, determinations, notices, requests and discharges, these communications shall be:

- a). In writing and delivered by hand (against receipt) on Company or Organization letter head signed by the authorized person of concerned Party i.e. Employer, Engineer or Contractor;
- b). Approvals, certificates, consents and determinations shall not be unreasonably withheld or delayed. When a certificate is issued to a Party, the certifier shall send a copy to the other Party. When a notice is issued to a Party, by the other Party or the Engineer, a copy shall be sent to the Engineer or the other Party, as the case may be.

Following sub clauses 1.3.1 and 1.3.2 are added;

1.3.1 Correspondence to Contractor

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

1.3.2 Correspondence to Employer and Engineer

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

- a) The Employer is **PROJECT DIRECTOR, SINDH PARLIAMENTARIAN RESIDENCES, KARACHI.**
- b) The Engineer is **M/S. OSMANI & COMPANY (PVT.) LTD.** Consulting Engineers, Architects and Planners 245/2-K, Block-6, PECHS, Karachi-75400. Tel: (92-21) 34536007/ 08, 34546541/ 42 Fax: (92-21) 34534691, Email : ocl-khi@osmani.com, Website : www.osmani.com

1.4 Law and Language

- (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

Delete the documents listed at (a) to (i) of the Sub-Clause and substitute with following:-

1. The Contract Agreement;
2. The Letter of Acceptance;
3. Addenda, if any;
4. The completed Form of Bid;
5. Special Stipulations (Appendix-A to Bid);
6. Specifications - Special Provisions
7. The Particular Conditions of Contract - Part II;
8. The General Conditions - Part I;
9. Specifications - Technical Provisions
10. The priced Bill of Quantities (Appendix-D to Bid);
11. The completed Appendices to Bid (B, C, E to L);
12. The Drawings;

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.

1.6 Contract Agreement

In line six (6) replace the words “**Employer**” with “**Contractor**” and add the following sub paragraphs at the end:

The Contract Agreement would be made on stamp paper of an appropriate value under the law. Cost of stamp duty would be borne by the Contractor.

The Contractor shall at his own cost submit 9 x sets of Contract Agreement (photocopies) to employer, or as required by the employer in bound form, duly initialled and stamped by the Employer and the Contractor for the use of the Employer 2 x sets will be provided by the Contractor to the Engineer. Such submission shall be made within seven (7) days of

signing of the Contract Agreement by the Employer and Contractor.

1.9 Delayed Drawing or instruction

Existing clause is deleted;

Following sub-clause 1.9.1 and 1.9.2 are added;

1.9.1 Shop Drawing

The Contractor shall submit to the Engineer for review 3 copies of all shop and erection drawings applicable to this Contract as per provision of relevant Sub-Clause of the Contract.

Review and approval by the Engineer shall not be construed as a complete check but will indicate only that the general method of construction and detailing is satisfactory and that the Engineer's review or approval shall not relieve the Contractor of any of his responsibilities under the Contract.

1.9.2 As-Built Drawings

At the completion of the Works under the Contract, the Contractor shall furnish to the Engineer 6 copies and one reproducible of all drawings amended to conform with the Works as built. The price of such Drawings shall be deemed to be included in the Contract Price.

3.1 Engineer's Duties and Authority

Add following after last Para;

The following provisions shall also apply;

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

- (i) Consenting to the sub-letting of any part of the Works under Sub-Clause 4.4 "Subcontractors".
- (ii) Certifying additional cost determined under Sub-Clause 4.12 "Unforeseeable Physical Conditions".
- (iii) Any action under Sub-Clause 4.2 "Performance Security" and Clause 18 "Insurance" of sorts.
- (iv) Any action under Sub-Clause 8.8 "Suspension of Work".
- (v) Any action under Sub-Clause 8.4 "Extension of Time for Completion".
- (vi) Any action under Sub-Clause 8.7 "Delays Damages".
- (vii) Issuance of "Taking Over Certificate".
- (viii) Issuing a Variation Order under Clause 13 "Variations and Adjustments": except:
 - a) in an emergency* situation, as stated here-below, or
 - 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.

- (x) Extra payment as a result of Contractor's claims.
- (xi) Release of Retention Money to the Contractor Sub-Clause 14.9 "Payment of Retention Money"
- (xii) Issuance of "Final Payment Certificate" under Sub-Clause 14.13
- (xiii) Issuance of "Defect Liability Certificate".

* (If in the opinion of the Engineer an emergency occurs 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 52 and shall notify the Contractor accordingly, with a copy to the Employer.)

3.4 Replacement of the Engineer

The Clause is deleted and replaced with the following:

If the Employer intends to replace the Engineer, the Employer shall, not less than 14 days before the intended date of replacement, give notice to the Contractor, of the name, address and relevant experience of the intended replacement Engineer. The Employer shall not replace the Engineer with a person against whom the Contractor raises reasonable objection by notice to the Employer, with supporting particulars.

4.2 Performance Security

The text is deleted and substituted with the following:

The contractor shall provide Performance Security to the procuring agency in the prescribed form from the schedule Bank of Pakistan or from a foreign bank duly counter guaranteed by a Scheduled Bank in Pakistan. The Performance Security shall be 5% of the Contract Price stated in the Letter of Acceptance.

Besides obtaining 5% as Performance Security, the Security Deposit at rate of 5% will also be deducted from running bills, thus amount equal to 10% of the Contract Price is obtained from contractor i.e. 5% as performance security and 5% security deposit As Retention Money. Deductions from interim/running bills will be made from successful bidder after the bidder has furnished the required performance security and signed the contract agreement.

The cost of complying with requirements of this Sub-Clause (performance security) shall be borne by the contractor.

4.10 Site Data

Existing first paragraph is deleted and replaced with following;

The contractor shall obtain Base data from all available sources including the Employer. However, responsibility of its confirmation, completion and correction rest upon the contractor.

4.12 Unforeseeable Physical Conditions

Existing last para is deleted and replaced with following:

The decision of the Engineer regarding / existence of enforceable physical conditions and impact interim of cost or extension of time for completion shall be considered final and binding on contractor to accept the same.

4.17 Contractor's Equipment

Add the following paragraph at the end:

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.

4.20 Employer's Equipment and Free-Issue Materials

Existing Clause is deleted.

Add following Sub Clauses 4.25, 4.25.1, 4.25.2, 4.25.3, 4.25.4, 4.25.5 and 4.25.6:

4.25 Compliance with Statutes Regulations and Laws

The Employer presupposes that the Contractor has cognizance of all laws of Pakistan pertaining to the execution of the work. The Contractor shall confirm in all respects with the provisions of any such statute, ordinance or law as aforesaid and the regulations or by-laws of any local or other duly constituted authority which may be applicable to the works or public bodies and companies as aforesaid and shall keep the Employer indemnified against all penalties and liability of every kind for breach of any such statute, ordinance, law regulation or by-law. If the Contractor observes that the drawings and specifications are at variance therewith, he shall promptly notify the Employer / Engineer in writing and any necessary changes shall be adjusted as provided in the Contract for changes in the work. If the Contractor performs any work knowing it to be contrary to such laws, ordinance, rules and regulations and without such notice to the Employer he shall bear all costs arising there from.

The Contractor and his sub-contractors shall convey, store and make use of all explosives, dangerous petroleum acetylene, carbide or calcium and other similar material provided by them for use in or on the works in strict accordance with the provision of all laws, orders and regulations that are in force at the Site or may be issued from time to time by the Government.

Following sub clause 4.25.1 and 4.25.2 are added:

4.25.1 Notice to Adjoining Property Owners

The Contractor shall send or cause to be sent written notices to Owners of property adjacent to the Site or which may be affected in any way by the performance of the work contemplate notifying them as to the extent of the work included in so far as it affect surrounding property and complying with local ordinance and law.

4.25.2 Giving of Notices and Payment Fees

The Contractor shall give all notices and pay all fees and charges required to be given or paid be any national or state statute, ordinance or other law or any regulation or by- law of any local or other duly constituted authority in relation to the execution of the work or of any temporary works and by the rule and regulations of all public bodies and companies whose property of rights are affected or may be affected in any way by the works or any temporary works.

4.25.3 Supply of Water

The Contractor shall, so far as is reasonably practicable, having regard to local conditions, provide on the Site, to the satisfaction of the Engineer or his representative, adequate supply of drinking and other water for the use of his staff and labour.

4.25.4 Arms and Ammunition

The Contractor shall not give, or otherwise dispose of to any person or persons, any arms or ammunition of any kind or permit or suffer the same as aforesaid.

4.25.5 Day and Night Work and Work on Sundays or Holidays

Unless otherwise stated in the Contract, the Works shall be executed in the day only within normal working hours. No work shall be carried out on Site on Sundays (locally recognised as day of rest) and on gazetted holidays, without the consent in writing of the Engineer except if the work is unavoidable or absolutely necessary for the saving of life or property or for the safety of the works in which case the Contractor shall immediately advise the Engineer. The Engineer shall not unreasonably withhold any such consent save in exceptional circumstances, nor do so if work on rest days or on gazetted holidays is considered by the Contractor to be necessary to meet the Time for Completion.

In case the contractor needs to work after normal working hours or on Sunday or holidays, he shall get specific approval before hand from the Engineer giving at least 2 days advance written notice. In such case, the contractor undertakes his liability to pay the Engineer for such extra working hours (beyond normal working hours) calculated on the basis of actual extra hours at the rate of 1.5 times of approved man-month rate of the Engineer's staff on duty on overtime payable to the Engineer by the 15th day of next month.

If the contractor works in night then he will have sufficient lighting arrangement at site of work and at way leaves also. He will also take necessary measures to avoid any accident.

4.25.6 Reporting of Accidents

The Contractor shall report to the Engineer details of any accident as soon as possible after its occurrence. In the case of any fatality or serious accident, the Contractor shall, in addition notify the Engineer immediately by the quickest available means.

5.2 Objection of Nomination

Replace this clause with the following:-

- a). The Employer may invite offer for performance by sub-contractor of any works in satisfaction of prime cost sums included in the tender documents. In the exercise of his options, offer will be made in writing to the accepting authority (Employer) who shall select the firm to do the work and inform the contractor who will be required to conclude the contract with the nominated sub-contractor for the execution of the work as specified by the Accepting Authority (Employer) to the Sub- Contractor. The Employer shall not nominate any sub-contractor. Against whom the Contractor shall make reasonable objection.
- b). The Contractor shall be reasonable for any sub-contractor or contractor who may carryout any work or supply any material in connection with the contract, whether such person be selected by the Employer or by Contractor. The Contractor shall make good any loss or damage suffered by Employer by reason of default neglect or failure on the part of such person in relation to such work or material.

- c). Nothing herein contained shall relieve the Contractor of his liability and obligation under the contract or in any way affect the contractor's direct responsibilities to Employer nor shall it render Employer in any way responsible to such sub-contractor (s).

5.3 Payments to Nominated Sub-Contractors

The Contractor shall pay to the nominated Subcontractor the amounts which the Engineer certifies to be due in accordance with the subcontract. These amounts plus other charges shall be included in the Contract Price in accordance with Sub-Clause 13.5 [Provisional Sums], except as stated in Sub-Clause 5.4 [Certification of Payments].

6.3 Persons in the Service of Employer

Add "and Engineer Personnel" after the end of the Clause.

6.10 Records of Contractor's Personnel and Equipment

Existing Clause is deleted and replaced with following:

The Contractor shall submit to the Engineer detail showing number of each class of contract personnel and each type of Contractor Equipment (Stating workability Condition of each) on the site on daily basis and such detail will be recorded in and work diary which will be signed by the Contractor's and the Engineer's on daily basis. The record will be produced as and when demanded.

6.12 Foreign Personnel

Replaced existing last line with following text:

be responsible for making appropriate security arrangements for their return at appropriate time and burial.

7.4 Testing

Add additional sub-clause 7.4.1

7.4.1 Factory Visits and Inspections

The Contractor shall arrange at-least Two (2) visits (for selection/ inspection and pre-shipment) for all imported equipment and One (1) visit for Sump Model Test these visits should comprise at-least Eight (08) Officers including 4 x Officers of the Employer and the Engineer each, for a minimum period of Ten (10) days which may be extended as per the requirement of Testing procedure, if needed. These visits shall be programmed as per the work schedule of the Contractor. The Contractor shall identify the Timing of the visits at least Four (04) weeks in advance for providing sufficient time to the Employer for according necessary approvals. The visits shall also include independent inspection by an approved third party inspection agency (Lloyds or equivalent).

The Contract price shall be deemed to have included all the expenses of the above arrangements with and including the arranging the relevant visas for designated officers/ Engineers of the Employer and the Engineer, their visa fees, Air Tickets (Business Class), boarding, lodging, transport costs in independent vehicles etc., as well as cost of third party inspection.

8.1 Commencement of Works

Existing text is replaced with:

The Contractor shall commence the Works on Site from the date of receipt by him from

the Engineer a written Notice to Commence. Thereafter, the Contractor shall proceed with the Works with due expedition and without delay.

8.3 Programme

Existing text is replaced with following:-

The Contractor shall submit the programme of work within 14 days from the date of receipt of Letter of Acceptance/ Commencement or before date of signing of Agreement whichever is earlier, on bar chart and Primavera (level-III). The Contractor must also attach monthly progress schedule in terms of Percentage of project as described in Appendix-E to Bid (BE-1) which will be considered as "Scheduled Progress".

The time schedule may be adjusted from time to time but the contractual/ completion date shall remain unchanged unless extension of time is approved by the Employer in accordance with the contract conditions.

The approval by the Engineers of the programme shall not relieve the Contractor or the Employer from any obligation under the contract.

8.6 Rate of Progress

Existing text is replaced with following:

The Contractor Shall ensure that rate of progress does not fall below 20% of Scheduled Progress as reflected in the Monthly Progress Schedule (submitted and finalized before signing of Contract Agreement).

If for any reason, which does not entitle the Contractor to an extension of time, the rate of progress of the Works or any Section is at any time, in the opinion of the Engineer, is below 20% of Scheduled Progress as reflected in the Monthly Progress Schedule, then the Client will have prerogative to either terminate the contract or reduce/delete portion of work if the contractor fails to improve the progress within 30 days of receipt of notice under this Clause. The Engineer shall so notify the Contractor who shall thereupon take such steps as are necessary, subject to the consent of the Engineer, to expedite progress. The Contractor shall not be entitled to any additional payment for taking such steps. If, as a result of any notice given by the Engineer under this Clause, the Contractor considers that it is necessary to do any work at night or on locally recognized days of rest, he shall be entitled to seek the consent of the Engineer so to do. Provided that if any steps, taken by the Contractor in meeting his obligations under this Sub-Clause, involve the Employer in additional supervision costs, such costs shall, after due consultation with the Employer and the Contractor, be determined by the Engineer and shall be recoverable from the Contractor by the Employer, and may be deducted by the Employer from any moneys due or to become due to the Contractor and the Engineer shall notify the Contractor accordingly, with a copy to the Employer.

8.7 Delay Damages

Add following text in the beginning:

If the Contractors fails to follow to "**Scheduled progress**" as submitted in accordance with Appendix-E to Bid (BE-1) and falls below 20% of Schedule Progress than the Employer may reduce the work or terminate the Contract after given 30 days prior notice.

8.11 Prolonged Suspension

Replace "84 days" by "120 days".

13.4 Payment in Applicable Currencies

Existing text is replaced with following:
Payment shall be made in Pak Rupees only.

Add following Sub Clauses 13.9 to 13.13:

13.6 Day work

In line one of after word "Engineer" add "with consent of Employer".

13.9 Sources of Indices and Weightages

The sources of indices shall be those listed in Appendix-C to Bid, as approved by the Engineer. As the proposed basis for price adjustment, the Contractor shall have submitted with his bid the tabulation of Weightages and Source of Indices if different than those given in Appendix-C to Bid, which shall be subject to approval by the Engineer.

13.10 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.

13.11 Adjustment after Completion

If the Contractor fails to complete the Works within the Time for Completion prescribed under Clause 43, adjustment of prices thereafter until the date of completion of the Works shall be made using either the indices or prices relating to the prescribed time for completion, or the current indices or prices, whichever is more favorable to the Employer, provided that if an extension of time is granted pursuant to Clause 44, the above provision shall apply only to adjustments made after the expiry of such extension of time.

13.12 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 51. Such adjustment(s) shall have to be agreed in the variation order.

13.13 Payment of Income Tax

The Contractor, Subcontractors and their employees shall be responsible for payment of all their income tax, super tax and other taxes on income arising out of the Contract and the rates and prices stated in the Contract shall be deemed to cover all such taxes.

14.2 Advance Payment

Existing text is replaced with following:
Advance Payment shall be made available to the Contractor by the Employer as following:

- (a) Mobilization Advance of 10% of the Contract Price stated in the Letter of Acceptance shall be paid by the Employer to the Contractor in two equal parts upon submission by the Contractor of a Mobilization Advance Guarantee for the full amount of the Advance in the specified form from a Scheduled/ Commercial Bank in Pakistan acceptable to the Employer:

- (1) First part within 14 days after signing of the Contract Agreement or date of receipt of Engineer's Notice to Commence, whichever is earlier; and
- (2) Second part within 42 days from the date of payment of the first part, subject to;
 - i). Satisfaction of Engineer regarding mobilization of contractor on site.
 - ii). Provision of Engineer facilities as per Bill No. 1: Preliminary & General Items except permanent site office.
 - iii). Erection of Sign Board as per sub-clause 9.2 of Specifications - Special Provisions.
 - iv). Provision of First aid facilities
 - v). Maintenance of Site Order Book as per Clause 37 of Specifications – Special Provisions.
 - vi). Submission of construction schedule as per Clause 8.3 of PCC.
 - vii). Submission of Programme of work and Monthly Progress Schedule as per Appendix-E to Bid (BE) upto the satisfaction of the Engineer/ Client.
- (b) This Advance shall be recovered in equal installments; first installment at the expiry of third month after the date of payment of first part of Advance and the last installment two months before the date of completion of the Works as per Clause 43 hereof.

On full recovery of the Mobilization Advance, the Employer will return the said Guarantee to the Contractor duly discharge. However, the Employer will be at liberty to encash the Bank Guarantee of the Contractor, if the Contractor fails to extend the said guarantee 15 days before the expiry date of the guarantee.

- (c) Contractor shall pay interest on the mobilization advance at the rate of 10% per annum on the advance;

14.3 Application for Interim Payment Certificates

Add following text at the end:

After verification by the Engineer, the Contractor shall make six (6) copies at his own cost and submit the same to the Engineer for further processing.

14.5 Plants and Materials intended for Works

Add the following paragraph as:

- (d) for Secured Advance on non-perishable materials and sub-clauses (a), (b) and (c) will be applicable for plants only:-
 - (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/ Assistant Engineer 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;
- (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.

(II) Recovery of Secured Advance

Secured Advance paid on non-perishable materials to the Contractor under the above provisions shall be effected 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);

Following sub-clause is added:

14.9.1 Payment of Retention Money

Upon the issue of the Taking-Over Certificate with respect to the whole of the Works, one half of the Retention Money or upon the issue of a Taking-Over Certificate with respect to a Section or part of the Permanent.

Works only such proportion thereof as the Engineer determines having regard to the relative value of such Section or part of the Permanent Works, shall be certified by the Engineer for payment to the Contractor.

- (a) Upon the expiration of the Defects Liability Period for the Works the other half of the Retention Money shall be certified by the Engineer for payment to the Contractor. Provided that, in the event of different Defects Liability Periods having become applicable to different Sections or part of the Permanent Works, the expression "expiration of the Defects Liability Period" shall, for the purposes of this Sub-Clause, be deemed to mean the expiration of the latest of such periods. Provided also that if at such time, there shall remain to be executed by the Contractor any work instructed, in respect of the Works, the Engineer shall be entitled to withhold certification until completion of such work of so much of the balance of the Retention Money as shall, in the opinion of the Engineer, represent the cost of the work remaining to be executed.

14.15 Currencies of Payment

Existing text is replaced with following:

Payment shall be made in Pak Rupees only

15.2 Termination by Employer

Add following after sub para (f):

(g) If the rate of progress below than 20% of Scheduled Progress.

18.1 General Requirements for Insurances

At the end of the Clause add following:

Insurance company operating in Pakistan having atleast AA rating from PACRA/ JCR.

The cost of complying with requirements of this Clause shall be borne by the Contractor. The Contractor shall be liable for deductible losses not covered by insurance. The Insurance Policy shall state:-

- a. The Employer shall receive at least 30 calendar days written notice of Intended Cancellation or change effect in coverage.
- b. The Contractor is fully responsible to provide full indemnity to Employer in respect of liability against loss or damage.

Following Sub Clauses will be considered as deleted:

20.2, 20.3, 20.4, 20.7 and 20.8

20.5 Amicable Settlement

Following text is deleted from the first line:

Under sub clause 20.4 above.

20.6 Arbitration

Existing text is replaced with following:

Disputes not settled amicably shall be settled under the provisions of the Arbitration Act 1940 or any statutory modification or any enactment for the time being enforced. The place of arbitration shall be Karachi.

SPECIFICATION -
SPECIAL PROVISION

SPECIFICATIONS - SPECIAL PROVISIONS

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SPECIFICATIONS - SPECIAL PROVISIONS

1. DESCRIPTION OF PROJECT

1.1. General

The Employer intends to construct residences for Sindh Parliamentarians at Karachi.

2. THE SITE

2.1. Site of Works

The Site of the Works is the area for construction lying within the right-of-way lines, boundaries and limits shown on the Drawings and any such additional areas adjacent thereto as may be designated by the Engineer from time to time for the construction to be performed under the Contract, and all such areas and additional areas shall be comprised in the Site as defined in Clause 1 of the Conditions of Contract.

The Employer will give to the Contractor possession of the area designated and defined as the Site and shown on the drawing as may be required to implement as much of the Works, when the Engineer's Notice to Commence the Works is given.

3. WORK UNDER THE CONTRACT

3.1. General Description

The Contract comprises the execution and completion of the Works, remedying of any defects therein, maintenance of utility services, and the provisions of all labour, materials, equipment, plant and everything whether of a temporary or permanent nature required in and for such execution, completion, remedying and maintenance so far as the necessity for providing the same is specified or can reasonably be inferred from the Contract.

The following description of the Works to be performed under this Contract is general in nature and is not intended to describe all of the facilities to be provided under this Contract.

CONSTRUCTION OF SINDH PARLIAMENTARIANS RESIDENCES, KARACHI

4. GENERAL RULES OF SPECIFICATIONS

a) Specification or as Specified

"Specification" or "as specified" refers to the specifications outlined in these Documents and where no specifications are available for any work or where the same are found not applicable then the relevant applicable ASTM or BSS specifications or equivalent standards shall apply in the same order.

Any item for which no specifications are outlined but which are identified on drawings, shall be completed according to the standards as per ASTM / BSS, these include items that may be added in the future. The Employer / Employer's Representative may supplement such specifications during the progress of work. All materials and processes used for these items shall be subjected to standard testing and, if found below the pertinent ASTM / BSS standards, shall be removed from the site immediately at Contractor's expense.

b) Standards and Codes

Wherever reference is made in the specifications to the respective standards and codes in accordance to which goods and materials are to be furnished, and work is to be performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly set forth in the Contract.

c) Materials and Processes

All goods and materials to be incorporated in the Works shall be new, unused, of the most recent or current models and incorporate all recent improvements in design and materials unless provided otherwise in the Contract.

d) Equivalent Materials, Processes, etc.

Where specific materials, processes, etc. are specified and the same are not available other alternative materials and processes which ensure an equal or higher quality than those specified will be accepted subject to the Employer / Employer's Representative's prior review and written approval. The Contractor has to establish the non-availability of specified material prior to applying for equivalent differences between the those specified and the proposed alternatives must be fully described in writing by the Contractor and submitted to the Employer / Employer's Representative at least 30 days prior to the date when the Contractor desires the Employer / Employer's Representative's approval who may give such approval after determining that the alternative proposed ensures equal or higher quality.

e) Approved, Directed, Instructed

Approved, directed, instructed means the approval, etc. of the Employer / Employer's Representative unless otherwise stated.

f) Alternatives

Where alternative materials, processes etc., are specified the selection will depend on local conditions and discretion rests with the Employer / Employer's Representative whose decision shall be final and binding.

g) Catalogues / Standards / Manufacturer's Instructions, etc.

Wherever the manufacturer's/supplier's instructions, manuals, guarantees and ASTM/BSS Standards are referred to in the specifications and details of Bills of Quantities; all such literature shall be submitted by the Contractor to the Employer / Employer's Representative for due checking, approval and record.

h) Applicability

Unless stated or specified else-where to the contrary these General Rules shall apply to all sections of work irrespective of their sequence, location and description.

5. DRAWINGS

5.1. Bid Drawings

Bid Drawings issued with the Bid Documents, called the Bid Drawings, show scope of the work to be performed by the Contractor. The Drawings are generally in sufficient detail so as to be used as a basis for construction, fabrication and for placing orders for materials subject to corrections based on the future issue of supplementary Drawings as provided under Sub-Clause 5.2 hereof.

5.2. Construction Drawings, Supplementary Drawings

After award of Contract, the Contractor shall carry out "Joint Survey" at Site of Works in pursuance to Sub-Clause 6.4, Specifications - Special Provisions. The Contractor shall submit to the Engineer "Joint Survey", duly signed, dated and stamped by the representatives of the Employer, Consultant and Contractor.

Simultaneously, the Contractor shall submit to the Engineer detailed "Work Programme" in terms of Sub-Clause 14.1 Conditions of Contract.

After receipt of "Joint Survey" and "Work Programme" from the Contractor, the Engineer will start issuing Construction Drawings to the Contractor. The Engineer shall have authority to issue to the Contractor, from time to time, such Supplementary Drawings and instructions as shall be necessary for the purpose of the proper and adequate execution and completion of the Works and the remedying of any defects therein. The Contractor shall follow these Drawings.

The Contractor shall give notice to the Engineer regarding the part of the Drawings which in his opinion contain discrepancies or are not clear. The Engineer shall issue necessary clarifications or Supplementary Drawings in greater details as required to execute the Works. These Supplementary Drawings showing changes from the Bid Drawings, in the opinion of the Contractor, shall be reviewed by the Engineer for his determination of adjustment of the Contract Price under Clause 51 and 52 of the Conditions of Contract.

5.3. Definition of Term Drawings

The term Drawings as used in the Specifications means the Drawings referred in Clauses 5.1 and 5.2 hereof.

5.4. Checking of Drawings

The Contractor shall check all Drawings carefully as soon as practicable after receipt thereof, and shall promptly notify the Engineer of any errors discovered.

5.5. Copies of Drawings

Drawings will be issued to the Contractor as described below.

5.5.1. Bid Drawings

One (1) set of the Bid Drawings will be issued to the Contractor alongwith Bid Documents. Additional sets will be provided at cost of reproduction upon written request of the Contractor.

5.5.2. Construction Drawings / Supplementary Drawings

One (1) print of each Construction Drawings / Supplementary Drawing will be issued to the Contractor free of charge. Additional sets will be provided at cost of reproduction upon written request of the Contractor.

5.6. Drawings to be Furnished by the Contractor / As-Built Drawings

The Contractor shall submit to the Engineer for review of such drawings as required under the Contract, sufficiently in advance of the work intended to be executed.

The Contractor shall, at all times, keep on Site a separate set of prints on which all significant changes between the work shown on the Drawings and that which is actually constructed, shall be noted neatly, accurately and promptly as the work progresses. The Subcontractor(s) for plumbing, mechanical and electrical shall, at all times, keep on Site,

a separate set of prints of the drawings (showing their parts of the Works) on which all significant changes between the work shown on the Drawings and that which is actually constructed, shall be noted neatly, accurately and promptly as the work progresses. Such drawings shall show the exact physical location and configuration of the works as actually installed.

The Contractor shall, within fourteen (14) days of issuance Taking-Over Certificate for whole of the Works, furnish to the Engineer for his approval two (2) copies of such marked up drawings. One (1) copy of each of the marked up drawings approved by the Engineer shall be returned to the Contractor by the Engineer and these shall be used for the preparation of the As - Built Drawings.

The Contractor shall furnish to the Engineer six (6) complete sets of all As -Built Drawings as well as AutoCAD soft copy within thirty (30) days of receipt of drawings stated above, from the Engineer.

5.7. Shop Drawings & Design

The Contractor to prepare and provide detailed shop drawings & design, for all the required items as per the instructions and approval of the Employer/ Engineer and as mentioned in Bidding documents and drawings including but not limited to Architectural, Structural, Road works, Hard & Soft Landscaping, Electrical, Water Supply, Drainage, ICT or any related electro-mechanical works apart from Bar-bending schedule, etc. All drawings should be prepared based on the rules, regulation and requirements of the concerned departments and should be prepared electronically on latest version of AutoCAD, hard copies along with soft copies on CD's shall be submitted for the approval of Engineer as per the Nos. required in Scope of Work

6. SETTING OUT OF WORK AND SURVEY

6.1. Reference Points, Lines

The Contractor shall establish bench marks and / or reference line at the Site in accordance with the instructions of the Engineer. The Contractor shall set out its work from these bench marks and / or lines.

6.2. Verification

The Engineer may make checks as the work progress to verify lines and grades established by the Contractor and to determine the conformance of the work as it progresses with the requirements of the Drawings and Specifications. Such checking by the Engineer shall not relieve the Contractor of his responsibility to perform all work in accordance with the Drawings and Specifications and the lines and grades given therein.

6.3. Survey Instruments

The Contractor shall maintain at the Site the requisite surveying instruments in perfect working conditions for the use of the Engineer's Representative to check levels and lines of the work at all times. These instruments shall include (but not limited to) One Total Station, Adequate nos. of Levels, theodolites, Tapes, etc.

6.4. No work without Joint Survey

The Contractor shall not start any physical work on site until the Joint Survey has been done to establish the existing ground levels.

7. APPROVAL OF MATERIALS AND PLANT

7.1. Quality of Materials

All materials, fixtures, fittings, supplies and plant furnished under the Contract shall be new and unused, standard first grade quality and of the best workmanship and design. No inferior or low-grade materials, supplies or articles will be either approved or accepted, and all work of assembly and construction shall be done in a first-class and workmanlike manner. In asking for prices for materials intended for delivery to the Site and incorporation in the Works under any portion of these Specifications, the Contractor shall provide the manufacturer or supplier with complete information as may be necessary to secure compliance to this Clause and, in every case, he shall quote this Clause in full to each such manufacturer or supplier.

7.2. Submission of Samples and Data

The Contractor shall submit within 02 months of award of Contract, for the approval of the Engineer, required shop drawings, catalogues, samples and other descriptive data for all mechanical, electrical, architectural and such other materials and plant designated by the Engineer, which the Contractor proposes for use under this Contract. For certain materials and plant, data may be required to be submitted in accordance with a detail form furnished by the Engineer. Samples of materials (2 sets) shall be submitted by the Contractor to the Engineer at Contractor's cost for approval sufficiently in advance of the materials intended to be incorporated in the Works.

The required shop drawings and samples are not provided by the Contractor, Employer will deduct sufficient amount from the monthly IPC of Contractor.

7.3. Testing

Testing, except as otherwise specified herein, shall be performed by a testing agency as proposed by the Contractor and approved by the Engineer, at no extra cost to the Employer. The Engineer may require all testing to be carried out under his supervision only.

The quality control testing shall be performed by the Contractor's competent personnel in accordance with a site testing as approved by the Engineer. The Contractor shall keep a complete record of all quality tests programme performed on Site.

7.4. Testing Laboratory Certificates

The Engineer may accept a certificate from a commercial testing laboratory, satisfactory to him, certifying that the product has been tested within a period acceptable to the Engineer and that it conforms to the requirements of these Specifications.

7.5. Inspection

All material and Plant furnished and all work performed under this Contract will be subject to inspection by the Engineer at all times and in all states of completion both off-Site and on-Site. The Contractor shall furnish promptly without additional charge, all facilities, labour and materials reasonably needed for performing such inspection and testing as may be required by the Engineer.

7.6. Approved Sample at Site

The Contractor shall, at all times, keep on the Site approved samples. All such samples shall be made available to the Engineer/ Employer as and when required.

7.7. Site Laboratory

The Contractor shall establish a Site laboratory for the purpose of necessary testing. The laboratory equipment shall remain the Contractor's property at all times.

8. CONSTRUCTION SCHEDULE

8.1. Submittal Date

The programme of Works submitted by the Contractor in accordance with Clause 14 "Programme to be Submitted", of the Conditions of Contract shall be submitted in the form of a detailed schedule based on a computerized network analysis covering all construction activities indicating critical activities with critical path, resource scheduling for Contractor's Equipment, material and labour, within the period stated in the Appendix A to Bid. All the milestone shall be clearly identified.

8.2. Requirements

The detailed submittal shall consist of schedules, network analysis tabulations and narrative descriptions of the proposed construction programme.

Each summary or detailed schedule shall consist of a bar chart and a time-scaled network. The scheduled start and finish times for all activities on the bar chart shall agree with those on the network. All inter-relationships and inter-dependencies between structures shall be clearly indicated on the schedules.

The network shall show the order and interdependence of activities planned by the Contractor, and shall be time-scaled according to calendar dates.

8.3. Monthly Reports

Each month, the Contractor shall submit a report consisting of:

- Copies of the bar charts for the current phase with both actual progress and scheduled progress shown.
- Network analysis tabulations as in Sub-Clause 8.3 above, reflecting actual start and finish dates where applicable.
- A narrative report discussing any significant deviations from the schedule and, if necessary, explaining the steps proposed to be taken to maintain the approved schedule.

In case of failure of submission the monthly progress reports in due time, the Payment of the monthly bill will be withheld till its submission.

9. NOT USED

10. SITE OFFICE AND TEMPORARY FACILITIES PROVIDED BY THE CONTRACTOR

10.1. Contractor's Office, Facilities etc.

The Contractor shall establish and maintain a Site office. The Contractor shall provide all facilities in connection with the execution, completion, of the Works, remedying defects therein and maintenance of the utilities services. The facilities shall, not be limited to, the Contractor's Site Office, labour camps, workyard and storage areas, temporary water supply, waste water disposal, temporary electricity, medical unit, temporary roads, fire protection and fire fighting equipment etc.

The Contractor shall be solely responsible for arranging the facilities. The Contractor shall arrange his labour camp, work yard, storage area, site office within the area available at the Site.

10.2. Notice Board

The Contractor shall erect and maintain at the Site in a location to be approved by the Engineer, 3 Nos. Sign Boards 4.45M height and 2 M wide for writing the name of Work, name of Employer, name of Consultants, name of Contractor and Project Cost. The notice board shall comprise of the following;

- Frame of 3" dia GI Pipe properly painted as per the direction of the Consultants/ Engineer and as per drawing.
- 2 Nos. Posts of 3" dia GI Pipe 4.45M above ground and 1M below ground embedded in 1:2:4 CC 2'x2'x4' with proper arrangements of anchorage and brasses. Pipes painted with anti-rust as directed by the Engineer.
- 4 Nos. Steel Sheets 0.6M high and 2M wide fixed on both sides with 50mm gap between each. The background of plates is of white color whereas the writing would be black or red color (as approved by the Engineer)
- White imported 3M sheet used as background. The color of monogram would be, green, red or black etc. (as approved by the Engineer)
- Alphabets of appropriate size as approved by the Engineer in 3M reflective sheet in blue/ black color.

The Contractor shall maintain the display of the notice boards at his own cost throughout the length of the project.

10.3 Engineer's Office

The Contractor shall provide, operate and maintain the following facilities within 1 week of the Engineer's Order to Commence the Works for the Engineer:-

- The Contractor shall provide temporary site office accommodation consisting of 3 Steel Containers of 40ft x 8ft office, each office shall contain the following detail for the complete duration of the project.

• Office Detail

Sr. No.	Item Description	Qty.	Unit
1.	Office Fabricated from sea container, insulated from 1" thick thermopole sheets and 12mm thick MDF lamination.	03	Nos.
2.	Accessories		
a)	Aluminum window 3ft x ft	02	Nos.
b)	Entrance Door (Aluminum) with locks and door closer	01	No.
c)	Internal Door (Aluminum) with locks	03	No.
d)	Toilet of 6' x 3.5' each containing WCs, Basin, Shower tray etc. i/c. all required accessories.	02	Nos.
e)	Basic Electrification with proper lightening & power points		Job

• Office Furniture (Master or equivalent)

Sr. No.	Item Description	Qty.	Unit
1.	Manager Tables	1	No.
2.	Manager Chairs	1	No.

3.	Guest Chairs	4	Nos.
4.	Office Tables	4	Nos.
5.	Office Chairs	4	Nos.
6.	Conference Table with chairs for 6 personals	1	Set
7.	Wooden & Glass Partition	2	Nos.
8.	1.5 Ton ACs	2	Nos.

In case of non-provision of above facilities by the Contractor, the Employer/ Engineer is entitled to deduct an amount of Rs. 200,000/- per container per month from the amount due to the Contractor i.e. Mobilization Advance or the running bills.

- b). The Contractor shall maintain the existing office accommodation of the Engineer including but not limited to expenses for Electricity, telephone, water supply, sewerage, janitorial services, 02 Nos. messenger, 02 Nos. tea boy (including tea making items) and 04 Nos. Armed Security Guards etc. All appointments shall be made by the Engineer and Contractor shall be responsible for all salaries, benefits etc. of the appointed people.
- c). 03 Nos. **Sony or Toshiba** Intel Core i7 Ultrathin (4th Generation Processor), 8GB System DDR-3 RAM, 1GB Dedicated Graphic Card, 32GB Solid Drive + 750GB SATA Hard Drive, 15.6" HD Screen, Camera, Biometric Reader Bluetooth, Gigabit Ethernet LAN, Card Reader, WIFI 802.11b/g alongwith genuine/ licensed touch & type with Microsoft Windows 8 operating system and Microsoft Office Professional Edition latest version.
- d). 09 Nos. **Desktop Dell or HP** Computer each configured with Intel Core i7, 3.4 Ghz or higher (4th Generation Processor), 16 GB RAM (DDR-III) original Intel Motherboard complete with key board, mouse, 19" color LCD, DVD Writer, 1 TB HDD (SATA) alongwith genuine/ licensed latest version Microsoft Windows operating system, Microsoft Office Professional Edition latest version.
- e). 09 Nos. USB Flash Drive - 64 GB each.
- f). 09 Nos. UPS
- g). 02 Nos. Multimedia Projector Project 3M Optoma 5000 Lumens, Network Control (RJ45), Sound, IDMI Point, USB Port with Sealing Mount & Installation.
- h). 02 No. A3 Size Color Printer HP-5225 or equivalent with Color Toners. The contractor will provide Printer Color Toner till the completion of work.
- i). 02 Nos. Digital Camera (16 Mega Pixel) built-in GPS alongwith 4 GB Card, Rechargeable Cell (04 Nos.), Battery charger, Pouch, Tripod etc. NIKON Coolpix S800c or equivalent.
- j). 04 Nos. Mobile Phone - Samsung Galaxy S4 Active.
- k). 01 No. Brand new latest model Photocopy machine alongwith Sorter and ADF, as approved by the Engineer.
- l). 01 No. brand new Diesel Generator Set 100 KVA, 80 KW prime power 1500 RPM at 0.80 PF 415/220 volts, 3 phase 50 Hz output stand by Diesel Generator set Caterpillar, FG Wilson or Yanmar directly coupled with Alternator, sound proof canopy complete in all respect as per approved technical specification with & i/c. changeover switch, ATS, control cable, Providing, laying, connecting and testing of 3½ core 10mm² plus 1 x 10mm² PVC cable for earth, copper conductor cable of required length as per site conditions and Providing, installing, connecting and testing of 18" x 18" x 1/8" thick copper plate buried 15 ft deep in the ground to the depth of water

level, to be installed by the Contractor at the designated place instructed by the Engineer alongwith 01 No. full time Generator Operator.

The Contractor shall also provide 1,000 Litres of Hi-Speed Diesel per month to the Engineer by 5th of each month in advance for complete duration of work including any extended period.

- m). The Contractor shall provide an average cost of Rupees Twenty-Five thousand only (Rs. 25,000/-) per month pertaining to mobile telephone use in shape of Prepaid Mobile Cards.
- n). Providing stationery and consumable items like pen, pencils, papers, binder cards, plastics, staples, etc. upto Rs. 5,000/- p.m.

The above equipments shall be in use of the Engineer and shall become property of the Employer after completion of the project.

In case of non-provision of above facilities, the Employer / Engineer shall deduct from any money due / becoming due to the Contractor by the Employer appropriate amount till these facilities are provided satisfactorily to the Engineer.

Cost of all above facilities are deemed to be included in the Contract Price and no additional payment shall be made by the Employer to the Contractor under any circumstances.

11. OTHER FACILITIES FOR ENGINEER'S PERSONNEL PROVIDED BY THE CONTRACTOR

The Contractor shall provide, operate and maintain the following transpiration facility within one week of Engineer's issue of commencement letter and shall continue uninterrupted till the completion of works:

- a). The Contractor shall cause to furnish, operate and maintain 02 Nos. Toyota Corolla 1.3L GLI Car (Air-Conditioned). The vehicles shall be brand new, latest model with Driver, registered and insured to the name of the Employer. The above all vehicles are for the exclusive use of the Engineer / Engineer's supervision team to meet their transportation needs. The use of such transportation facilities shall be exclusively under the control of the Engineer and the contractor shall be wholly responsible for furnishing at all times above said facilities.

The above vehicle shall be in use of the Employer/ Engineer and shall become property of the Employer and as-such will be handed-over to the Employer in good working condition on completion of the project.

- b). The Contractor shall furnish, supply and provide, without specific direction of the Engineer all lubricants, tyres, other supplies, regular service and maintenance at all times for the above vehicles till the issue of the Completion Certificate of the contract.
- c). The Contractor shall provide an amount equivalent to 1,000 Litres (500 for each Toyota Corolla GLI) of Hi-Super Petrol per month to the Engineer by 5th of each month in advance for complete duration of work including any extended period.

The above equipments shall be in use of the Engineer and shall become property of the Employer after completion of the project.

In case of non-provision of above facilities, the Employer / Engineer shall deduct from any money due / becoming due to the Contractor by the Employer appropriate amount till these facilities are provided satisfactorily to the Engineer.

Cost of all above facilities are deemed to be included in the Contract Price and no additional payment shall be made by the Employer to the Contractor under any circumstances.

12. SAFETY

12.1. Accident Prevention, Protective Equipment

The Contractor shall comply and enforce compliance by all his Subcontractors with the highest standards of safety and accident prevention in compliance with all applicable laws, ordinance and statutory provisions. Where overhead work is being carried out, warning/ safety signs shall be installed at ground level clearly warning of the overhead work.

All warning/ safety signs shall be in two languages, English and Urdu, and shall at all times be maintained in a clean and legible condition, to the satisfaction of the Engineer. Trash shall be removed at frequent intervals to the satisfaction of the Engineer.

The Contractor shall provide protective equipments to their staff at site in a manner that all the officers of the Contractor must wear the safety shoe and safety cap and the labour must wear the safety shoes, coverall (dangary) and safety caps.

The warning/ safety signs and protective equipments would not be provided by the Contractor, Employer will deduct sufficient amount from the monthly IPC of Contractor.

13. PAYMENT FOR WORK REQUIRED BY SPECIAL PROVISIONS

Unless otherwise specifically stated in the Contract, the price of all work required by the Special Provisions shall be considered to be included in the Contract Price.

- 14.** The Bided Rates shall be inclusive of all lead and lift and no additional payment for this item shall be admissible.
- 15.** The Contractor's rates shall include all incidental charges in connection with the work such as the cost of removing trees, shrubs, grass, etc., which interfere with the execution of the work which will be carried out by the Contractor upto the satisfaction of the Engineer prior to the earthwork. No extra payment for these items will be paid by the Employer.
- 16.** No alterations or additions shall be made by the Contractor in the Bill of Quantities and rates must be filled in ink or typed out both in figures and words clearly and legibly in the columns provided in the schedule of quantities. All corrections must be initialed by the contractors. Any Bid which does not comply with this condition will be liable to be summarily rejected and not taken into account when preparing comparative statement.
- 17.** Materials obtained from excavations will be the property of the Employer. Serviceable materials are to be stacked in places pointed out by Engineer-in-charge. The Contractor undertakes to have the site clean and free from rubbish to the satisfaction of the Engineer. All surplus materials, rubbish, etc., will be removed to places to be fixed by the Engineer and nothing extra will be paid for this.
- 18.** On completion of the work or earlier as directed by the Engineer, the Contractor shall remove all temporary structure (Godowns, site offices, etc.), erected by him at the site of work. He shall fill tanks dug out by him at site, remove all debris and other materials like surplus sand, stone ballast, rubbish, etc.; and in short, shall leave the site in a neat and tidy condition. Cost of these works shall be deemed to be included in the Contract Price and no payment shall be made by the Employer on this account.

19. The contractors in the course of their works should understand that all material (e.g. , stone and other materials) obtained in the work or dismantling, excavation, etc., will be considered as Employer's property and issued to the contractors (if they require the same for their own use) at rates approved by the Engineer. If the materials are not required by them they will be disposed off in the interest of Employer.
20. The contractor shall inspect the site of works and acquaint himself with the nature and requirements of the work, facilities of access for materials, removal of rubbish, cost of carriage, nature of strata, etc., before submitting his Bid.
21. The contractor shall have to make temporary approach roads, etc., at his own cost to facilitate movement of materials, such approach roads shall be aligned in a manner approved by the Engineer.
22. The contractor shall have to make proper arrangements for road crossing barriers during working hours in the day time as well as in the night when danger lights will have to be provided on either ends at his own cost and no extra cost will be paid. Sufficient barricades and red lights will be provided by the Contractor where required to avoid the chances of accidents. In case an accident occurs for failure on the part of the contractor, he shall be entirely responsible for the consequences.
23. The Contractor shall have to make arrangements for diversions for traffic wherever necessary and shall have to provide diversion and caution boards as per directions of the Engineer at his own cost for which no extra cost will be paid. The diversion shall be watered and consolidated as per directions of the Engineer.
24. No material shall be removed from the site without the written permission of the Engineer.
25. Dewatering including shoring wherever so required pumping, bailing out water, drainage of water within plot areas if any shall be deemed to have been included in the rates quoted by the Bidders and no extra payment will be made. The rates shall be deemed inclusive of such incidental charges.
26. The Contractors shall execute all works at their own cost for diversion of water away from the plot as per site requirements to have full satisfaction of Engineer and no additional payment will be made on this account.
27. The Engineer reserves the right to select all materials and the type, grade, heating capacity and quantity of proportion of any or all materials as required for a particular work. The decision of Engineer in this respect shall be final and binding on the Contractor. The rejects on materials must be carted at his own cost. If the rejected materials are not removed within one month of its rejection the materials will become the property of the Employer or will be removed at Contractors cost.

28. ATTENDANCE OF MEETINGS

The Contractor shall attend and shall cause his Sub-Contractors to attend any or all meetings when called by the Employer or the Engineer or his Representative to discuss progress of the work and other matters related to the work and the Contract, without any compensation from the Employer.

- a). The Contractor shall bear all expenses of the Employer and his agents and representatives and the Engineer, his agents and representatives if requested by the Contractor for any meetings, instructions and approvals away from the Site.
- b). The proceedings of the meetings shall be recorded by the Engineer which shall be circulated to all the participants including those of the Contractor. All decisions taken in the meetings shall be binding on the Contractor and shall form part of the Contract.

29. DOCUMENTS NOT TO BE ALTERED OR MUTILATED

No alteration or mutilation (other than filling in all the blanks intended to be filled in) shall be made in the form of Bid or in any of the documents attached to it. Any comments which it is desired to make shall not be placed on any of the documents attached hereto, but shall take the form of a separate statement which shall be as brief as possible and referenced to items, clauses and pages of the annexed documents.

Such statements shall not qualify the acceptance of the Bid based upon a proposed change or changes in the annexed documents, nor shall be binding upon the Employer in any way in making the award. Alterations of already written prices must be signed in the place of alteration by the Bidder or his legally authorized representative.

30. PERSONAL LIABILITY OF PUBLIC OFFICIALS OR ENGINEER

In carrying out any of the provisions of these specifications, or in exercising any power of authority granted to them by or within the scope of the Contract, there shall be no liability upon the Employer or his authorized representatives or the Engineer or his authorized representatives their personally or in their official capacity, it being understood that in all matters they act solely as agents and representatives of the Employer.

31. ACCESS AND EXISTING ROADS

If the Contractor finds it necessary or elects to use existing roads, the Contractor shall make all necessary arrangements and obtain all permits from the relevant departments for travel over and use of such roads. The Contractor shall observe all rules regulations of the concerned department regarding the use of said roads. The cost of maintaining all necessary safety measures and temporary structures and making any necessary repairs, replacements or similar operations and all or any other costs required by reason of his use of such roads shall be borne by the Contractor and the Contractor shall save harmless and indemnify the Employer in respect of all claims, demands proceedings, damages, costs, charges and expenses whatsoever arising out of or in relation to any such operation or interference.

32. FIRST AID FACILITIES

The Contractor shall provide and maintain adequate First Aid Facilities at all times, convenient to the Site to the approval of the Employer.

33. FINAL HAND-OVER

At the end of the Period of Maintenance stipulated in the contract, the Employer on application of the Contractor, shall decide the members of the final hand over committee and announce the same to the Contractor. The committee, after inspection of Work, if satisfied that there are no deficiencies or defects due to work of the Contractor shall certify the final hand-over, and the Employer will then issue a final Certificate of Completion of Work within thirty (30) calendar days thereafter.

34. EMPLOYER AND ENGINEER NOT PERSONALLY LIABLE

No member or officer of the Government or the Employer or the Employer's Representative or the Engineer or his representatives or any one of their respective staffs or their employees shall be in anyway personally bound or liable for the acts or obligations of the contractor under the contract or answerable for any default or omission in the observance or performance of any of the acts, matters or things which are herein, contained.

35. PROGRESS PHOTOGRAPHS

The contractor shall furnish to the Employer and to the Engineer every two weeks at least six photographs to clearly show the progress of construction. The photographs shall be submitted in glossy prints 20 cm x 20 cm. Each print shall be marked on the back with the date and serial number. There shall be no writing, lettering or marking on the face of the photographs. The set of photographs of the Engineer should accompany respective negatives.

36. SITE ORDER BOOK

The Contractor shall maintain site order book {of triplicate leaves} at the Site, for taking down instructions of the Engineer and/ or the Employers, with out any obligation and charges to the Employer / Engineer.

37. BAR BENDING SCHEDULES

The contractor shall be responsible for the preparation of all bar bending schedules at his own cost which shall be based on structural drawings supplied by the Engineer and shall get them approved before the actual execution of work.

38. REPORT ON PROGRESS OF WORK AND PHOTOGRAPHS

The Contractor shall, during the execution of the work, submit to the Employer (3 copies) and ENGINEER (2 copies) so as to reach them in the first week of every calendar month, a report on the actual progress of the works attained by him during the preceding month fully supported with colour photographs of (5"x7") size, at least 15, depicting the complete stages of the works. Each photograph should be properly pasted on A-4 size paper, indicating the location and other relevant information of the area photographed. The report will be submitted on the standard format to be supplied later on. In case the Supervision Engineer are different from the Design Engineer, one copy each of photographs should be sent to both the Engineer.

The set of photographs for the Design Engineer should be submitted with respective negatives.

39. OBTAINING OF NOC FROM THE CONCERNED AUTHORITIES

The contractor shall have to acquire prior NOC from the concerned authorities prior to start/ execution of work. Without taking NOC the Contractor will be responsible for any mishap / damage.

The entire activity can only be carried out in presence of the concerned authorities representative after issuance of NOC.