PORT QASIM AUTHORITY



THE SAFEWAY TO MAHONAL PROSPERTY

BIN QASIM KARACHI- 75020

NOTICE INVITING TENDER

Port Qasim Authority (PQA) invites sealed bids from the reputed Contractors / Firms (i) registered with Pakistan Engineering Council (PEC) in C-5 Category or above, valid up to 31st December, 2024, with specialization code ME-07 & EE-03. (ii) registered with Income Tax Department on Active Tax Payer List (ATL) of Federal Board of Revenue (FBR), (iii) registered for purposes of sales tax with Sindh Revenue Board (SRB) and (iv) also registered with Public Procurement Regulatory Authority (PPRA)'s E-Pak Acquisition & Disposal System (e-PADS) for the work mentioned here under:

| Tender No. | Name of Work | Annual Contract Ceiling | Earnest Money in shape of pay order in favour of PQA | Tender fee by pay order (non refundable) in favour of PQA | Contract Period | Bid submission & Opening Date |
|---------------|--|-------------------------------|--|--|--------------------|-------------------------------------|
| 181 | Annual Running Repair /Maintenance Contract For H.T/L.T Standby Diesel Generating Sets at PQA. | Rs. 26.082 Million | Rs. 600,000/= | Rs. 4,000/= | 12 Months | 25.05.2024 03.07.242 |

- 2. Bidding documents containing detailed Terms & Conditions are available for the interested bidders / firms at the office of Director (M&E), Port Qasim Authority PQA, Bin Qasim, Karachi. The documents shall be provided upon providing evidence for registration in relevant PEC Category & specialization code and upon payment of a non-refundable bid documents price of Rs.4,000/= (Rupees, four thousand only), in the shape of pay order issued by any scheduled bank of Pakistan having "AA" rating located in Karachi. Tender documents can be obtained in any working day during office hours 09:00 AM to 04:00 PM (Monday to Friday) from Director (M&E) office. Bidding documents can be downloaded from PQA / PPRA websites. The bidders are required to submit their bids on e-PADS also.
- 3. The tender documents should be submitted in a Single Stage Two Envelope Procedure, under rule 36(b) of PPRA-2004. One envelope containing information regarding qualification of bidder and respective information shall be clearly marked "Technical Proposal" & second envelope containing the Bid price shall be clearly marked "Financial Proposal". Technical proposal must be containing with earnest money valid for one hundred eighty (180) days amounting to Rs.800,000/= (Rupees six hundred thousand only) in the form of pay order / Bank Guarantee in favour of Port Qasim Authority, issued by a scheduled Bank of Pakistan having "AA" rating located in Karachi. Bids without Bid Security shall be rejected.
- 4. Technical Proposal and Financial Proposal (both envelopes) covered in a single envelope are to be submitted in the office of Director (M&E) on or before at 1130 hours on Bid submission date. Technical proposals only shall be opened on the same date at 1200 hours in the presence of those Bidders who may wish to be present.
- 5. Financial proposal of technically qualified bidders / firms shall be opened in the presence of bidders or their authorized representatives who may wish to attend. The date, time & venue of opening of financial proposals shall be intimated later. The financial proposal of technically non-qualified bidders shall be returned unopened.
- In case of holiday falling on the date of submission/opening of tender, the same will be opened on the next working day at the same time.
- 7. Partial and incomplete Bids shall not be considered.
- Port Qasim Authority reserves the right to accept or reject any or all bids as per PPRA-2004 and no claim whatsoever shall be entertained in this regard. Authority's decision in this respect shall be final and binding upon all bidders / firms.

(Tipu Sultan Shaikh) Secretary

PORT QASIM AUTHORITY



Ministry of Maritime Affairs Government of Pakistan

THE GATEWAY TO NATIONAL PROSPERITY

TENDER & CONTRACT DOCUMENT

FOR

ANNUAL RUNNING REPAIR / MAINTENANCE CONTRACT FOR STANDBY DIESEL GENERATING SETS AT PQA

2024

SUMMARY OF CONTENTS

| | <u>Subject</u> | Page No |
|--------|---|---------|
| (I) | INVITION FOR BIDS | 04-05 |
| (II) | INSTRUCTION TO BIDDERS | 6-21 |
| (III) | BIDDING DATA | 22-24 |
| (IV) | FORM OF TENDER & APPENDICES TO TENDER | 25-35 |
| (V) | STANDARD FORMS | 36-44 |
| (VI) | CONDITION OF CONTRACT & CONTRACT DATA | 45-64 |
| (VII) | TECHNICAL SPECIFICATION & EVALUATION CRITERIA | 65-69 |
| (VIII) | SCOPE OF WORK & BILL OF QUANTITIES | 70-88 |

TABLE OF CONTENTS

| <u>Sr. #</u> | <u>Description</u> | <u> Page #</u> |
|--|---|----------------|
| 1. IN | VITATION FOR TENDER | 05 |
| 2. IN | STRUCTIONS TO BIDDERS / TENDERERS | 06 |
| A. | GENERAL | 07 |
| IB.1 IB.2 IB.3 IB.4 IB.5 IB.6 | Scope of Bid Source of Funds Eligible Bidders One Bid per Bidder Cost of Bidding Site Visit | |
| В. | BIDDING DOCUMENTS | 08 |
| IB.7 IB.8 IB.9 | Contents of Bidding Documents Clarification of Bidding Documents Amendment of Bidding Documents | |
| C. | PREPARATION OF BIDS | 10 |
| IB.11 IB.12 IB.13 IB.14 IB.15 IB.16 | Language of Bid Documents Accompanying the Bid Bid Prices Currencies of Bid and Payment Bid Validity Bid Security Pre-Bid Meeting Format and Signing of Bid | |
| D. | SUBMISSION OF BIDS | 13 |
| IB.19 IB.20 | Sealing and Marking of Bids Deadline for Submission of Bids Late Bids Modification, Substitution and Withdrawal of Bids | |
| E. | BID OPENING AND EVALUATION | 15 |
| IB.23 IB.24 IB.25 IB.26 | Bid Opening Process to be Confidential Clarification of Bids Examination of Bids and Determination of Responsiveness Correction of Errors Evaluation and Comparison of Bids | |

| F. | AWARD OF CONTI | RACT | 17 |
|---|---|---|-------|
| IB.29 IB.30 IB.31 IB.32 IB.33 | Award Employer's Right to Notification of Award Performance Securi Signing of Contract General Performance Integrity Pact | ty Agreement | |
| G. | MISCELLANEOUS | | 19 |
| 35.1 35.2 | Misc. Information Fraud and Corruption Procedures of Open Lowest Evaluated B | Competitive Bidding | |
| 3. BI | DDING DATA & CO | NTRACT DATA | 22-24 |
| 4. FC | RMS OF TENDER A | AND APPENDICES TO TENDER | 25 |
| Ap Ap Ap Ap | pendix "A" pendix "B" pendix "C" pendix "D" pendix "E" pendix "F" pendix "F" | Special Stipulations Bill of Quantities Proposed Construction Schedule Method Statement of Performing the Work List of Intended Sub-Contractor Supervisory Staff and Key Personnel Integrity Pact | |
| 5. FC | ORMS . | | 35 |
| | a. Bid Security / Teb. Performance Sec. Contract Agreemd. Advance Bank G | curity nent | |

INVITATION FOR BID

INSTRUCTIONS TO BIDDERS/TENDERER

INSTRUCTIONS TO BIDDERS/TENDERER

A. GENERAL

IB.1 Scope of Bid

- 1.1 The Employer as defined in the Bidding Data hereinafter called "Port Qasim Authority" wishes to receive bids for the work "ANNUAL RUNNING REPAIR / MAINTENANCE CONTRACT FOR STANDBY DIESEL GENERATING SETS AT PQA" as described in these Bidding Documents, and summarized in the Bidding Data hereinafter referred to as the "Works".
- 1.2 The successful bidder will be expected to complete the Works within the time specified in Appendix-A to Bid.

IB.2 Source of Funds

2.1 The Employer has finances for the cost of the project specified in the Bidding Data and for which these Bidding Documents are issued.

IB.3 Eligible Bidders

- 3.1 This Invitation for Bids is open to firms / companies meeting the requirements. Firms shall have to submit with technical proposal the following:-
 - Duly registered by the registered with Pakistan Engineering Council (PEC) in C-5 Category or above, valid up to 31st December, 2024, with specialization code ME-07 & EE-03, registered with Income Tax Department and on Active Tax payer list (ATL) of Federal Board of Revenue (FBR), registered for purposes of sales tax with Sindh Revenue Board (SBR) and registered with Public Procurement Regulatory Authority (PPRA)'s E-Pak Acquisition & Disposal System (e-PADS).
 - ii) Proof of at least 3 years & above relevant experience in this field.
 - iii) Minimum of 01 (one) completed / on going Contract of Standby Diesel Generating Set of minimum capacity mentioned in technical specification of H.T / L.T Standby Diesel Generating Sets.
- 3.2 In case the bidders/contracts consist of a Joint Venture of more than one entity then each member of the Joint Venture will be jointly and severally bound to the Employer for fulfillment of the terms of the tenders/contract and the Joint Venture shall designate one member to act as leader of the Joint Venture for purpose of representing the Joint Venture.

IB.4 One Bid per Bidder

4.1 Each bidder shall submit only one bid. A bidder who submits or participates in more than one bid 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 Employer will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

IB.6 Site Visit

- 6.1 The bidders are advised to visit and examine the Site of Works and its surroundings and obtain for themselves on their own responsibility all information that may be necessary for preparing the bid and entering into a contract for 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 Employer to enter upon his premises and site for the purpose of such inspection, but only upon the express condition that the bidders, their personnel and agents, will release and indemnify the Employer, 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). Technical Proposal

- 1. Bidding Data
- 2. General Conditions of Contract (GCC).
- 3. Contract Data.
- 4. Specifications.
- 5. Form of Bid & Appendices to Bid.
- 6. Form of Bid Security.
- 7. Form of Contract Agreement.
- 8. Forms of Performance Security

b). Financial Proposal

Bill of Quantities

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.25, bids which are not substantially responsive to the requirements of the Bidding Documents will be rejected.

IB.8 Clarification of Bidding Documents

8.1 Any prospective bidder requiring any clarification (s) in respect of the Bidding Documents may notify the Employer / Engineer in writing at the Employer's address as below:-

Director (M&E)
Mechanical & Electrical Department
Port Qasim Authority, Port Qasim
Karachi. Pakistan

Phone: +92-21-99272183

E-mail: secretary@portqasim.org.com

The Employer / Engineer 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 Bidding Documents, including a description of the enquiry but without identifying its source.

IB.9 Amendment of Bidding Documents

- 9.1 At any time prior to the deadline for submission of bids, the Employer may, for any reason, whether at his own initiative or in response to a clarification requested by a prospective bidder, modify the Bidding Documents by issuing addendum.
- 9.2 Any addendum thus issued shall be part of the Bidding Documents pursuant to IB 7.1 hereof and shall be communicated in writing to all purchasers of the Bidding Documents. Prospective bidders shall acknowledge receipt of each addendum in writing to the Employer.
- 9.3 To afford prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the Employer may at his discretion extend the deadline for submission of bids in accordance with Clause IB.19

C. PREPARATION OF BIDS

IB.10 Language of Bid

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

IB.11 Documents Accompanying the Bid

11.1 Each bidder shall:

- (a) submit a written power of attorney authorizing the signatory of the bid to act for and on behalf of the bidder;
- (b) The bidder shall furnish, as part of its bid, documents establishing the bidder's eligibility to bid and its qualifications to perform the Contract if its bid is accepted
- (c) Bidder/Manufacturer must possess and provide evidence of its capability and the experience as stipulated in Bidding Data and the Qualification Criteria stipulated in the Bidding Documents.
- (d) The documentary evidence of the Works' conformity to the Bidding Documents may be in the form of literature, drawings and data and the bidder shall furnish documentation as set out in Bidding Data.
- (e) Furnish a technical proposal taking into account the various Appendices to Bid and other pertinent information such as mobilization programme etc. The technical proposals shall not indicate the bid price.
- (f) Furnish a financial proposal as per Bill of Quantities.
- 11.2 Bidders shall also submit proposals of work methods and schedule, in sufficient detail to demonstrate the adequacy of the Bidders' proposals to meet the technical specifications and the completion time referred to in Sub-Clause 1.2 hereof.

IB.12 Bid Prices

- 12.1 Unless stated otherwise in the Bidding Documents, the Contract shall be for the whole of the Works as described in Sub-Clause IB 1.1 hereof, based on the unit rates and / or prices submitted by the bidder.
- 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 Employer when executed and shall be deemed covered by rates and prices for other items in the Bill of Quantities.

12.3 All duties, taxes and other levies payable by the Contractor under the Contract, or for any other cause, as on the date 14 days prior to the deadline for submission of bids shall be included in the rates and prices and the total Bid Price submitted by a bidder.

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 only.

IB.14 Bid Validity

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

IB.15 Bid Security

- 15.1 Each bidder shall furnish Rs. 600,000/= bid Security as earnest money in the shape of Pay Order/Bank Guarantee from scheduled bank of Pakistan, Karachi based branch from "AA" rating in favour of Port Qasim Authority to be submitted alongwith Technical Proposal.
- 15.2 The Bid Security shall be, at the option of the bidder, in the form of Pay Order or Bank Guarantee issued by a Scheduled Bank of Pakistan having "AA" rating in favour of the Employer valid for a period 28 days beyond the Bid Validity date.
- 15.3 Any bid not accompanied by an acceptable Bid Security shall be rejected by the Employer as non-responsive.
- 15.4 The bid securities of unsuccessful bidders will be returned as promptly as possible, but not later than 28 days after the expiration of the period of Bid Validity or award of contract whichever is earlier.
- 15.5 The Bid Security of the successful bidder will be returned when the bidder has furnished the required Performance Security and signed the Contract Agreement.

15.6 The Bid Security may be forfeited:

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

IB.16 Pre-Bid Meeting

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

IB.17 Format and Signing of Bid

- 17.1 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.
- 17.2 All appendices to Bid are to be properly completed, signed and stamped.
- 17.3 No alteration is to be made in the Form of Bid nor in the Appendices thereto except in filling up the blanks as directed. If any such alterations be made or if these instructions be not fully complied with, the bid may be rejected.

- 17.4 Each bidder shall prepare by filling out the forms completely and without alterations one (1) original and one (1) copy, specified in the Bidding Data, of the documents comprising the bid as described in Clause IB.7 and clearly mark them "ORIGINAL" and 'COPY" as appropriate. In the event of discrepancy between them, the original shall prevail.
- 17.5 The original and all copies of the bid shall be typed or written in indelible ink (in the case of copies, Photostats are also acceptable) and shall be signed by a person or persons duly authorized to sign on behalf of the bidder pursuant to Sub- Clause 11.1(a) hereof. All pages of the bid shall be initialed and stamped by the person or persons signing the tender / bid.
- 17.6 The bid shall contain no alterations, omissions or additions, except to comply with instructions issued by the Employer, or as are necessary to correct errors made by the bidder, in which case such corrections shall be initialed by the person or persons signing the bid.
- 17.7 Bidders shall indicate in the space provided in the Form of Bid their full and proper addresses at which notices may be legally served on them and to which all correspondence in connection with their bids and the Contract is to be sent.
- 17.8 Bidders should retain a copy of the Bidding Documents as their file copy.

D. SUBMISSION OF BIDS

IB.18 Sealing and Marking of Bids

18.1 The completed Tender marked as 'Original' and one copy are to be inserted in double self-addressed envelope and delivered in person or sent by Registered Air mail / courier so as to reach the:

Director (M&E)
Port Qasim Authority,
P.O. Port Qasim
Bin Qasim Karachi – 75020
Pakistan

Phone: +92-21-99272183

- 18.2 The inner envelope is to bear the name and address of the Tenderer and is to be sealed and inscribed as follow:
 - "ANNUAL RUNNING REPAIR / MAINTENANCE CONTRACT FOR STANDBY DIESEL GENERATING SETS AT PQA."
- 18.3 The ORIGINAL and copy of the completed Tender Set including Appendices and supplementary information and the Tender Bond must reach the Director (M&E) Port Qasim Authority, Bin Qasim, Karachi-75020 before the time and date fixed in the Tender Notice for opening of the Tenders. Tenders received after opening of the Tenders will be rejected and returned unopened.

18.4 Documents submitted by prospective Tenderers or Contractors in connection with the Tender for above named Works will be treated as confidential and will not be returned

IB.19 Deadline for Submission of Bids

- 19.1 (a) Bids must be received by the Employer 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 will be entertained for refund of such expenses.
 - (c) Where delivery of a bid is by mail and the bidder wishes to receive an acknowledgment of receipt of such bid, he shall make a request for such acknowledgment in a separate letter attached to but not included in the sealed bid package.
 - (d) Upon request, acknowledgment of receipt of bids will be provided to those making delivery in person or by messenger.
- 19.2 The Employer may, at his discretion, extend the deadline for submission of bids by issuing an amendment in accordance with Clause IB.9, in which case all rights and obligations of the Employer and the bidders previously subject to the original deadline will thereafter be subject to the deadline as extended.

IB.20 Late Bids

- 20.1 (a) Any bid received by the Employer after the deadline for submission of bids prescribed in Clause IB.19 will be returned unopened to such bidder.
 - (b) Delays in the mail, delays of person in transit, or delivery of a bid to the wrong office shall not be accepted as an excuse for failure to deliver a bid at the proper place and time. It shall be the bidder's responsibility to determine the manner in which timely delivery of his bid will be accomplished either in person, by messenger or by mail.

IB.21 Modification, Substitution and Withdrawal of Bids

- 21.1 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 Employer prior to the deadline for submission of bids.
- 21.2 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.

- 21.3 No bid may be modified by a bidder after the deadline for submission of bids except in accordance with Sub-Clauses 22.1 and 27.2.
- 21.4 Withdrawal of a bid during the interval between the deadline for submission of bids and the expiration of the period of bid validity specified in the Form of Bid may result in forfeiture of the Bid Security in pursuance to Clause IB.15.

E. BID OPENING AND EVALUATION

IB.22 Bid Opening

- 22.1 The Employer will open the bids, including withdrawals, substitution and modifications made pursuant to Clause IB.21, in the presence of bidders' representatives who choose to attend, at the time, date and location stipulated in the Bidding Data. The bidders' representatives who are present shall sign a register evidencing their attendance.
- 22.2 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.21 shall be returned unopened.
- 22.3 The bidder's name, total Bid Price and price of any Alternate Proposal(s), any discounts, bid modifications, substitution and withdrawals, the presence or absence of Bid Security, and such other details as the Employer may consider appropriate, will be announced by the Employer at the opening of bids.
- 22.4 Employer shall prepare minutes of the bid opening, including the information disclosed to those present in accordance with the Sub-Clause 22.3.

IB.23 Process to be Confidential

Information relating to the examination, clarification, evaluation and 23.1 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 which shall be done at least ten (10) days prior to issue of Letter of Acceptance. 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 and a report giving justification for acceptance / rejections of the bids. Any effort by a bidder to influence the Employer'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 not later than fifteen (15) days after the announcement of the bid evaluation report; however mere fact of lodging a complaint shall not warrant suspension of the procurement process. PQA Committee shall investigate and decide upon the complaint within fifteen days of the receipt of the complaint.

IB.24 Clarification of Bids

24.1 To assist in the examination, evaluation and comparison of bids, the Employer may, at his discretion, ask any bidder for clarification of his 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 Employer in the evaluation of the bids in accordance with Clause IB.26.

IB.25 Examination of Bids and Determination of Responsiveness

- 25.1 Prior to the detailed evaluation of bids, the Employer will determine whether each bid is substantially responsive to the requirements of the Bidding Documents.
- 25.2 A substantially responsive bid is one which (i) meets the eligibility criteria; (ii) has been properly signed; (iii) is accompanied by the required Bid Security; and (iv) conforms to all the terms, conditions and specifications of the Bidding Documents, without material deviation or reservation. A material deviation or reservation is one (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 Employer'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.
- 25.3 If a bid is not substantially responsive, it will be rejected by the Employer, and may not subsequently be made responsive by correction or withdrawal of the non-conforming deviation or reservation.

IB.26 Correction of Errors

- 26.1 Bids determined to be substantially responsive will be checked by the Employer for any arithmetic errors. Errors will be corrected by the Employer 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 Employer 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.
- 26.2 The amount stated in the Form of Bid will be adjusted by the Employer in accordance with the above procedure for the correction of errors and with the concurrence of the bidder, 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 IB.15.6(b) hereof.

IB.27 Evaluation and Comparison of Bids

- 27.1 The Employer will evaluate and compare only the Bids determined to be substantially responsive in accordance with Clause IB.25.
- 27.2 In evaluating the Bids, the Employer 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.26;
 - (b) making an appropriate adjustment for any other acceptable variation or deviation.
- 27.3 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.
- 27.4 If the Bid of the successful bidder is seriously unbalanced in relation to the Employer's estimate of the cost of work to be performed under the Contract, the Employer may require the bidder to produce detailed price analyses for any or all items of the Bill of Quantities to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the Employer may require that the amount of the Performance Security set forth in Clause IB.31 be increased at the expense of the successful bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful bidder under the Contract.

F. AWARD OF CONTRACT

IB.28 Award

- 28.1 Subject to Clauses IB.29 and IB.33, the Employer will award the Contract to the bidder whose bid has been determined to be substantially responsive to the Bidding Documents and who has offered the lowest evaluated Bid Price, provided that such bidder has been determined to be eligible in accordance with the provisions of Clause IB.3 and qualify pursuant to Sub-Clause IB 28.2.
- 28.2 The Employer, at any stage of the bid evaluation, having credible reasons for or prima facie evidence of any defect in supplier's or contractor's capacities, may require the suppliers or contractors to provide information concerning their professional, technical, financial, legal or managerial competence whether already pre-qualified or not:

Provided that such post-qualification shall only be laid down after recording reasons therefore in writing. They shall form part of the records of that bid evaluation report.

IB.29 Employer's Right to Accept any Bid and to Reject any or all Bids

29.1 Notwithstanding Clause IB.28, the Employer reserves the right to accept or reject any Bid, and to annul the bidding process and reject all bids, at any time prior to award of Contract, without thereby incurring any liability to the affected bidders or any obligation except that the grounds for rejection of all bids shall upon request be communicated to any bidder who submitted a bid, without justification of grounds. Rejection of all bids shall be notified to all bidders promptly.

IB.30 Notification of Award

- 30.1 Prior to expiration of the period of bid validity prescribed by the Employer, the Employer will notify the successful bidder in writing ("Letter of Acceptance") that his Bid has been accepted. This letter shall name the sum which the Employer will pay 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").
- 30.2 No Negotiation with the bidder having evaluated as lowest responsive or any other bidder shall be permitted, however, Employer may have clarification meetings to get clarify any item in the bid evaluation report.
- 30.3 The notification of award and its acceptance by the bidder will constitute the formation of the Contract, binding the Employer and the bidder till signing of the formal Contract Agreement.
- 30.3 Upon furnishing by the successful bidder of a Performance Security, the Employer will promptly notify the other bidders that their Bids have been unsuccessful and return their bid securities.

IB.31 Performance Security

- 31.1 The successful bidder shall furnish to the Employer a Performance Security in the form and the amount stipulated in the special stipulation Appendix-A to bid and the Conditions of Contract within a period of 7 days after the receipt of Letter of Acceptance.
- 31.2 Bid Security. 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.
- 31.3 The successful Tenderer will be required to furnish a performance Bond in the amount of 10% of the Contract Price mention in the bids at the time of signing the formula Contract Agreement.

IB.32 Signing of Contract Agreement

- 32.1 Within 7 days from the date of furnishing of acceptable Performance Security under the Conditions of Contract, the Employer will send the successful bidder the form of Contract Agreement provided in the Bidding Documents, incorporating all agreements between the parties.
- 32.2 The formal Agreement between the Employer and the successful bidder shall be executed within seven (7) working days of the receipt of the Contract Agreement by the successful bidder from the Employer.

IB.33 General Performance of the Bidders

The Employer reserves the right to obtain information regarding performance of the bidders on their previously awarded contracts/works. The Employer may in case of consistent poor performance of any Bidder as reported by the employers of the previously awarded contracts, interalia, reject his bid and/or refer the case to the Pakistan Engineering Council (PEC). Upon such reference, PEC in accordance with its rules, procedures and relevant laws of the land take such action as may be deemed appropriate under the circumstances of the case including black listing of such Bidder and debarring him from participation in future bidding for similar works.

IB.34. Integrity Pact

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

G. MISCELLANEOUS

IB.35 Misc. Information

35.1 Fraud and Corruption

It is the policy of the PQA to require its staff and its Contractors to observe the highest standard of ethics during the selection and execution of such contracts. In pursuance of this policy, PQA:

- (a) Defines, for the purposes of this provision, the terms set forth below:
 - (i) "Corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, of any thing of value to influence the action of a public official in the selection process or in contract execution; and
 - (ii) "Fraudulent practice" means a misrepresentation or omission of facts in order to influence selection process or the execution of contract;

- (iii) "Collusive practices" means a scheme or arrangement between two or more contractors with or without the knowledge of PQA, designed to establish prices at artificial, noncompetitive levels and to deprive PQA of the benefits of free and open competition;
- (iv) "Coercive practices" 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.
- (b) will reject a Bid for award if it determines that the contractor recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, elusive or coercive practices in competing for the contract in question;
- (c) will sanction contractor, including declaring the contractor ineligible, either indefinitely or for a stated period of time, to be awarded a PQA contract if it at any time determines that the consultant has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices.

35.2 Procedures of Open Competitive Bidding

The following procedures shall be adopted for open competitive Bidding as provided in PPRA Rules 2004, namely:-

single stage - two envelope procedure

- (i) The Bid shall comprise a single package containing two separate envelopes. Each envelope shall contain separately the financial proposal and the technical proposal;
- (ii) The envelopes shall be marked as "FINANCIAL PROPOSAL" and "TECHNICAL PROPOSAL" in bold and legible letters to avoid confusion;
- (iii) Initially, only the envelope marked "TECHNICAL PROPOSAL" shall be opened;
- (iv) The envelope marked as "FINANCIAL PROPOSAL" shall be retained in the custody of the procuring agency without being opened;
- (v) The procuring agency shall evaluate the technical proposal in a manner prescribed in advance, without reference to the price and reject any proposal which does not conform to the specified requirements;

- (vi) During the technical evaluation no amendments in the technical proposal shall be permitted;
- (vii) The financial proposals of Bids shall be opened of the qualified bidders publicly at a time, date and venue announced and communicated to the Bidders in advance;
- (viii) After the evaluation and approval of the technical proposal the procuring agency, shall at a time within the Bid validity period, publicly open the financial proposals of the technically accepted Bids only. The financial proposal of Bids found technically non-responsive shall be returned un-opened to the respective Bidders;
- (ix) The Bid found to be the lowest evaluated Bid shall be accepted.

35.3 Lowest Evaluated Bid

Lowest Evaluated Bid means:

- i) A Bid most closely conforming to evaluation criteria and other conditions specified in the Bidding document; and
- ii) Having lowest evaluated cost;

BIDDING DATA

BIDDDING DATA

Instruction to Bidders Clause Reference

| | <u> </u> |
|-------------|--|
| 1.1 | Name of Employer: |
| | Port Qasim Authority and represented by Director General (Technical) |
| | Brief Description of Works: ANNUAL RUNNING REPAIR / MAINTENANCE CONTRACT FOR STANDBY DIESEL |
| | GENERATING SETS AT PQA |
| | |
| 3.2 | Joint Venture: |
| 0.4 | Joint venture is allowed |
| 8.1 | (a) Employer's address: |
| | Director General (Technical), |
| | Head Office Building, |
| | Port Qasim Authority, Bin Qasim Karachi-75020 Fax. No. 021-34730107 Phone: +92-21-99272150 |
| | |
| | (b) <u>Engineer's address:</u> Director (M&E), |
| | Port Qasim Authority, |
| | Tel.No.99272182 Fax: No. 021-34730107 |
| 10.1 | Bid Language: |
| 10 | English |
| 11.1 | The bidder/manufacturer has the financial, technical and production capability |
| (b) | necessary to perform the Contract as follows: |
| | i. Bank certificate for the year 2024 |
| | ii. CV's of key personal signed by individual, |
| | iii. List of completed / ongoing projects and complete technical |
| 44.4 | information |
| 11.1 (d) | i- A detailed description of the Works, essential technical and performance characteristics. |
| (u) | Characteristics. |
| | ii- Complete set of technical information, description data, literature and drawings |
| | as required in accordance with scope of work & specification data in bill of |
| | quantities in the Tender. This will include but not be limited to a sufficient |
| | number of drawings, photographs, catalogues, illustrations and such other |
| | information as is necessary to illustrate clearly the significant characteristics |
| 13.1 | about the works to be performed. Bid shall be quoted entirely in Pak Rupees. The payment shall be made in Pak |
| 13.1 | Rupees. |
| 14.1 | Period of Bid Validity |
| | 180 days |
| 15.1 | Amount of Bid Security / Earnest Money |
| | Rs.600,000/= of Bid amount in shape of Pay order/ Bank Guarantee in favour of |
| | Port Qasim Authority, issued by a schedule Bank of Pakistan Karachi based |
| | Branch having AA rating from PACRA / JCR to be submitted along with |
| | Technical proposal. |

| 16 | Pre Bid meeting deleted |
|------|--|
| 17.4 | Number of Copies of the Bid to be Submitted |
| 10.1 | One original plus one copy |
| 18.1 | Employer's Address for the Purpose of Bid Submission |
| | Office of the Director (M&E), |
| | Port Qasim Authority, Karachi. |
| 19.1 | Deadline for Submission of Bids |
| | As notified in NIT. |
| 22.1 | Venue, Time, and Date of Bid Opening |
| | As notified in NIT. |
| 25 | Responsiveness of Bids |
| | (i) the Bid is valid till required period, (ii) the Bid prices are firm during currency of contract (if it is a fixed price bid) (iii) completion period offered is within specified limits, (iv) the Bidder/Manufacturer is eligible to Bid and possesses the requisite experience, capability and qualification as per evaluation criteria given with this documents. (v) the Bid does not deviate from basic technical requirements and (vi) the Bids are generally in order, etc. |
| 31.1 | Performance Security |
| | As per special stipulation (Appendix-A to Bid) |

FORM OF TENDER
AND
APPENDICES TO TENDER

FORM OF TENDER

(To be filed in by Bidder)

Director General (Technical) Port Qasim Authority, Bin Qasim

Subject:

8.

may receive.

| Gentle | eman, |
|--------|---|
| 1. | Having examined the Bidding Documents including Instructions to Bidders, Bidding Data, and Conditions of Contract, Specifications, Drawings and Bill of Quantities and Addenda Nos |
| 2. | We understand that all the Appendices attached hereto form part of this Bid. |
| 3. | As security for due performance of the undertakings and obligations of this Bid, we submit herewith a Bid Security in the amount of 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 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 agree to abide by this Bid for the period of 180 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.

We understand that you are not bound to accept the lowest or any Bid you

| Dated this | day of | 20 | | |
|----------------------|-----------------------|-----------------|-----------------|-------------|
| | | | | |
| Signature: | | _ | | |
| in the capacity of _ | duly authoriz | ed to sign Bids | s for and on be | half of |
| | | | | |
| (Nan | ne of Bidder in Block | Capitals) | | |
| | (Seal) | | | |
| Address: | | | | |
| | | | | |
| | | | | |
| | | | | |
| Witness: | | | | |
| Signature: | | | | |
| Name: | | | | |
| | | | | |
| Address. | | | | |
| | | | | |
| | | | | |
| Occupation | | | | |

Appendix-A to Bid

SPECIAL STIPULATIONS Clause Conditions of Contract

| 1. | Amount of Performance Bond | 4.4 | 10% of Contract Price in shape of Bank guarantee/pay order in favour of Port Qasim Authority, issued by a scheduled Bank of Pakistan Karachi based Branch having AA rating from PACRA / JCR Performance bond shall be released after completion of maintenance period. |
|-----|---|-------|--|
| 2. | Time for Furnishing Programme | 7.2 | 14 days from the date of receipt of Letter of Acceptance. |
| 3. | Minimum amount of Third Party Insurance | 14.1 | Rs. 300,000/= |
| 4. | Submission of Insurance Policies | 14 | Insurance policies may be submitted from National Insurance Company Ltd. |
| 5. | Period of Commencement | 1.1.7 | 14 Calendar Days from the Employer's order to commence the work. |
| 6. | Stipulated time of completion Whole of the Works | 1.1.9 | Contract period 12 months from the date of award |
| 7. | Amount of Liquidated Damages for late completion after due date for completion. | 7.4 | Delay: 0.1% of Contract Price/day for late completion of work. Maximum 10% of the Contract price stated in the letter of Acceptance |
| 8. | Defect Liability Period | 9.1 | Up to completion of maintenance period i.e 12 months from the date of Taking Over Certificate issued under sub clause-9 GCC. |
| 9. | Mode of Payment | 11.6 | 100% in local Currency |
| 10. | Percentage of Retention Money | 11.4 | 5% of all payments made to Contractor retention money shall be released after completion of maintenance period. |

| 11. | Time within which payment to be made after submission of certificate from Engineer | | 45 Calendar Days |
|-----|--|-----|--|
| 12. | Maintenance period | 9.1 | 12 calendar months after date of Taking Over Certificate issued under sub clause-8.2 GCC |

| Signature: _ | | |
|--------------|--|--|
| Name: | | |
| Date: | | |

BILL OF QUANTITIES

Financial Proposal

Refer: Tender Document

The rates or prices shall be entered against each item in the Bill of Quantities

Appendix-C to Bid

PROPOSED SCHEDULE

Pursuant to Sub-Clause 43.1 of the General Conditions of Contract, the Works shall be completed on or before the date stated in Appendix-A to Bid. The Bidder shall provide as Appendix-E to Bid, the schedule in the bar chart showing the sequence of work items and the period of time during which he proposes to complete each work item in such a manner that his proposed programme for completion of the whole of the Works and parts of the Works may meet Employer's completion targets on the date noted below and counted from the date of receipt of Engineer's Notice to Commence (Attach sheets as required for the specified form of Schedule):

Sr. # Work Site

Date for Completion

1) MDS

METHOD STATEMENT 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. The method of executing the Works for "Annual Running Repair / Maintenance Contract for Standby Diesel Generating Sets".

LIST OF INTENDED SUB-CONTRACTORS

We intend to engage the following firms as sub-contractors experienced in their respective field as mentioned against their names for executing the works specified below:

| S. No. | Name and address of Into Sub-Contractors | ended | Type of work | Reason for sub- letting |
|--------|---|-----------|--------------|----------------------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | S | ignature: | | |
| | N | ame: | | |

Date:

CONTRACTOR'S SUPERVISORY STAFF AND KEY PERSONNEL

- 1. The following personnel would comprise the supervisory staff to be assigned by us to the construction site for fulfillment of the Contract.
- 2. The biographical data with relevant testimonials and details of experience of the above key personnel are attached to our Tender.

| S. No. | Proposed Assignment | Full Name | Age | Nationality |
|--------|---------------------|-----------|-----|-------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Signature: | |
|------------|------|
| Name: | |
| Date: | |

(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

| CONTRACTS WORTH RS. 10.00 | MILLION OR MORE |
|--|---|
| Contract No: Contract Value: | |
| Contract Title: " | |
| obtained or induced the procurement of obligation or benefit from Government | Supplier] hereby declares that it has not any contract, right, interest, privilege or other tof Pakistan (GOP) or any administrative other entity owned or controlled by GOP |
| warrants that it has fully declared the payable to anyone and not given or agive to anyone within or outside Pakis natural or juridical person, including its director, promoter, shareholder, sp gratification, bribe, finder's fee or kickba otherwise, with the object of obtaining | pregoing, [name of Supplier] represents and a brokerage, commission, fees etc. paid or greed to give and shall not give or agree to stan either directly or indirectly through any affiliate, agent, associate, broker, consultant, bonsor or subsidiary, any commission, ack, whether described as consultation fee or or inducing the procurement of a contract, ion or benefit in whatsoever form from GOP, eclared pursuant hereto. |
| agreements and arrangements with a | made and will make full disclosure of all ll persons in respect of or related to the en any action or will not take any action to sentation or warranty. |
| declaration, not making full disclosure, likely to defeat the purpose of this declar that any contract, right, interest, privileg procured as aforesaid shall, without p | ibility and strict liability for making any false misrepresenting facts or taking any action ration, representation and warranty. It agrees ge or other obligation or benefit obtained or rejudice to any other rights and remedies ract or other instrument, be voidable at the |
| Supplier] agrees to indemnify GOP for a of its corrupt business practices and furt equivalent to ten time the sum of any contick kickback given by [name of Supplier] a | s exercised by GOP in this regard, [name of any loss or damage incurred by it on account ther pay compensation to GOP in an amount ommission, gratification, bribe, finder's fee or as aforesaid for the purpose of obtaining or ct, right, interest, privilege or other obligation |
| Name of Buyer:Signature: | Name of Seller/Supplier: Signature: |

FORMS

TENDER BOND / BID SECURITY
PERFORMANCE SECURITY
CONTRACT AGREEMENT
ADVANCE BANK GUARNTEE

BID SECURITY (Bank Guarantee)

| Security Executed on | |
|--|---|
| | (Date) |
| Name of Surety (Bank) with Address: | |
| <u> </u> | (Scheduled Bank in Pakistan) |
| Name of Principal (Bidder) with Address | |
| | |
| Penal Sum of Security Rupees | (Rs) |
| Bid Reference No. | |
| KNOW ALL MEN BY THESE PRESENT | TS, 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 | |
| • • • | sum stated above for the payment of which |
| sum well and truly to be made, we bind o | ourselves, our heirs, executors, |
| administrators and successors, jointly an | d severally, firmly by these presents. |
| THE CONDITION OF THIS OR ICATION | NICCIOLI that what are a that Didden has |
| THE CONDITION OF THIS OBLIGATION | • |
| submitted the accompanying Bid dated _ | |
| (Particulars of Bid) to the said Employer: | and |

WHEREAS, the Employer 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 Employer, 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 Employer, notice of which extension(s) to the Surety is hereby waived:
- (2) that the Bid Security of unsuccessful Bidders will be returned by the Employer 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 Employer 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 Employer 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 Employer 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 Employer the said sum upon first written demand of the Employer (without cavil or argument) and without requiring the Employer to prove or to show grounds or reasons for such demand, notice of which shall be sent by the Employer by registered post duly addressed to the Surety at its address given above.

PROVIDED ALSO THAT the Employer 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 Employer forthwith and without any reference to the Principal (Bidder) or any other person.

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

SURETY (Bank)

| WITNESS: | Signature |
|----------------------------|----------------------------|
| 1 | Name |
| | Title |
| Corporate Secretary (Seal) | Corporate Guarantor (Seal) |
| 2 | |
| Name, Title & Address | |

FORM OF PERFORMANCE SECURITY (Bank Guarantee)

| | Guarantee No |
|---|---|
| | Executed on |
| | Expiry date |
| [Letter by the Guarantor to the Employer] | |
| Name of Guarantor (Bank) with address: | |
| | (Scheduled Bank in Pakistan) |
| Name of Principal (Contractor) with Address | <u>:</u> |
| Penal Sum of Security (express in words and | d figures) |
| Letter of Acceptance No | Dated |
| KNOW ALL MEN BY THESE PRESENTS Bidding Documents and above said Lette Documents) and at the request of the sanamed, are held and | r of Acceptance (hereinafter called the aid Principal we, the Guarantor above firmly bound unto the |
| the Employer) in the penal sum of the amou sum well and truly to be made to the said executors, administrators and successors, presents. | Employer, we bind ourselves, our heirs, |
| THE CONDITION OF THIS OBLIGATION IS accepted the Employer's above said (Name | • |
| (Nan | ne of Project). |

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the Employer, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue till all requirements of Clause 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 Employer without delay upon the Employer's |
| first written demand without cavil or arguments and without requiring the Employer to |
| prove or to show grounds or reasons for such demand any sum or sums up to the |
| amount stated above, against the Employer's written declaration that the Principal |
| has refused or failed to perform the obligations under the Contract which payment |
| will be effected by the Guarantor to Employer's designated Bank & Account Number. |
| PROVIDED ALSO THAT the Employer shall be the sole and final judge for deciding whether the Principal (Contractor) has duly performed his obligations under the Contract or has defaulted in fulfilling said obligations and the Guarantor shall pay without objection any sum or sums up to the amount stated above upon first written demand from the Employer forthwith and without any reference to the Principal or any other person. |

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

| VAC- | Guarantor (Bank) |
|----------------------------|----------------------------|
| Witness: 1 | Signature |
| Corporate Secretary (Seal) | Name |
| | Title |
| 2 | |
| Name, Title & Address | Corporate Guarantor (Seal) |

FORM OF CONTRACT AGREEMENT

| THIS | CONTRACT A | AGREEME day | NT (here | | alled the (month) | "Agreem 20_ | ent") ma —— | ade on the between |
|--------|--|---|--|--|-------------------|------------------|----------------|-----------------------|
| | (hereafter | called | the " | Employer (ł | , | | | part and tractor") of |
| the ot | her part. | | | | | | | , |
| should | REAS the Emd be executed xecution and n. | by the Co | ntractor | and has a | ccepted | a Bid by | | |
| NOW | this Agreemer | nt witnesse | d as follo | ows: | | | | |
| 1. | In this Agree are respectiv referred to. | | | • | | | | _ |
| 2. | The following parts relating and construe | to Instruct | ions to E | Bidders sh | ıall be de | | | |
| | (b) The L (c) The c (d) Spec (e) The F (f) The C (g) The F (h) The C | Contract Accepter of Accepter | cceptance Form of I ions (App Conditions anditions of Quantitions Appendic | e; Bid; pendix-A t s of Contr – Part I; ties; | act – Pa ; | rt II; other) | | |
| 3. | In considera | | | | | - | | |

- 3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy defects therein in conformity and in all respects with the provisions of the Contract.
- 4. The Employer hereby covenants to pay the Contractor, in consideration of the execution and completion of the Works as per provisions of the Contract, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

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

| Signature of the Contactor | Signature of Employer | | |
|-------------------------------------|---------------------------|--|--|
| (Seal) | (Seal) | | |
| Signed, Sealed and Delivered in the | presence of: | | |
| Witness: | Witness: | | |
| (Name, Title and Address) | (Name, Title and Address) | | |

NOT APPLICABLE

FORM OF BANK GUARANTEE FOR ADVANCE PAYMENT

| Guarantee No | | | | | | | | | |
|----------------|------------------------|--------------------|--|----------|--------------------------|-------------------------|--------------|-----------------------------|--------|
| | | | | | E | xecuted o | on | | |
| (Letter by the | Guaranto | to the | e Employer) | | | | | | |
| WHEREAS | the | | | | | | | | |
| (hereinafter | called | the | Employer) | has | entered | into | a | Contract | for |
| | | | | | (Pa | articulars | of | Contract), | with |
| | | | (here | einafter | called the | Contracto | or). | | |
| | | - | yer has agreed | | | | | | |
| | | | ed to the Contr | | | | | | |
| | | | yer has asked to formance of his | | | | | | re the |
| | alled the Creeing to r | | tor) at the required he above adva | | | | n coi | | of the |
| advance for t | he purpose any of hi | e of ab s oblig | arantor hereby ove mentioned gations for whi | Contra | act and if he advance pa | e fails, an yment is | nd co mad | ommits defa de, the Guar | ult in |

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

Corporate Guarantor (Seal)

This Guarantee shall come into force as soon as the advance payment has been credited to the

account of the Contractor.

(Name, Title & Address)

CONDITIONS OF CONTRACT

TABLE OF CONTENTS

CONDITIONS OF CONTRACT

| Clause No. | Description | Page No. |
|---------------------------|----------------------|----------|
| | | |
| 1. General Provisions | | 47 |
| 2. The Employer | | 49 |
| 3. Engineer's/Employe | er's Representatives | 49 |
| 4. The Contractor | | 50 |
| 5. Design by Contracto | or | 50 |
| 6. Employer's Risks | | 51 |
| 7. Time for Completio | n | 52 |
| 8. Taking Over | | 52 |
| 9. Remedying Defects | | 53 |
| 10. Variations And Claims | | 53 |
| 11. Contract Price And | Payment | 55 |
| 12. Default | | 56 |
| 13. Risks And Responsi | bilities | 57 |
| 14. Insurance | | 58 |
| 15. Custom Duties and | Γaxes | 58 |
| 16. Resolution of Dispu | tes | 59 |
| 17. Integrity Pact | | 59 |

CONDITIONS OF CONTRACT

1. GENERAL PROVISIONS

1.1 **Definitions**

In the Contract as defined below, the words and expressions defined shall have the following meanings assigned to them, except where the context requires otherwise:

The Contract

- 1.1.1 "Contract" means the Contract Agreement and the other documents listed in the Contract Data.
- 1.1.2 "Specifications" means the document as listed in the Contract Data, including Employer's requirements in respect of design to be carried out by the Contractor (if any), and any Variation to such document.
- 1.1.3 "Drawings" means the Employer's drawings of the Works as listed in the Contract Data, and any Variation to such drawings.

Persons

- 1.1.4 "Employer" means the person named in the Contract Data and the legal successors in title to this person, but not (except with the consent of the Contractor) any assignee.
- 1.1.5 "Contractor" means the person named in the Contract Data and the legal successors in title to this person, but not (except with the consent of the Employer) any assignee.
- 1.1.6 "Party" means either the Employer or the Contractor.

Dates, Times and Periods

- 1.1.7 "Commencement Date" means the date fourteen(14) days after the date the Contract comes into effect or any other date named in the Contract Data.
- 1.1.8 "Day" means a calendar day
- 1.1.9 "Time for Completion" means the time for completing the Works as stated in the Contract Data (or as extended under Sub-Clause 7.3), calculated from the Commencement Date.

Money and Payments

1.1.10 "Cost" means all expenditure properly incurred (or to be incurred) by the Contractor, whether on or off the Site, including overheads and similar charges but does not include any allowance for profit.

Other Definitions

- 1.1.11 "Contractor's Equipment" means all machinery, apparatus and other things required for the execution of the Works but does not include Materials or Plant intended to form part of the Works.
- 1.1.12 "Country" means the Islamic Republic of Pakistan.
- 1.1.13 "Employer's Risks" means those matters listed in Sub-Clause 6.1.
- 1.1.14 "Force Majeure" means an event or circumstance which makes performance of a Party's obligations illegal or impracticable and which is beyond that Party's reasonable control.
- 1.1.15 'Materials' means things of all kinds (other than Plant) to be supplied and incorporated in the Works by the Contractor.
- 1.1.16 "Plant" means the machinery and apparatus intended to form or forming part of the Works.
- 1.1.17 "Site" means the places provided by the Employer where the Works are to be executed, and any other places specified in the Contract as forming part of the Site.
- 1.1.18 "Variation" means a change which is instructed by the Engineer/Employer under Sub-Clause 10.1.
- 1.1.19 'Works' means any or all the works whether Supply, Installation, Construction etc. and design (if any) to be performed by the Contractor including temporary works and any variation thereof.
- 1.1.20 "Engineer" means the person notified by the Employer to act as Engineer for the purpose of the Contract and named as such in Contract Data.

1.2 **Interpretation**

Words importing persons or parties shall include firms and organizations. Words importing singular or one gender shall include plural or the other gender where the context requires.

1.3 **Priority of Documents**

The documents forming the Contract are to be taken as mutually explanatory of one another. If an ambiguity or discrepancy is found in the documents, the priority of the documents shall be in accordance with the order as listed in the Contract Data.

1.4 Law

The law of the Contract is the relevant Law of Islamic Republic of Pakistan.

1.5 Communications

All Communications related to the Contract shall be in English language.

1.6 **Statutory Obligations**

The Contractor shall comply with the Laws of Islamic Republic of Pakistan and shall give all notices and pay all fees and other charges in respect of the Works.

2. THE EMPLOYER

2.1 **Provision of Site**

The Employer shall provide the Site and right of access thereto at the times stated in the Contract Data.

2.2 **Permits etc.**

The Employer shall, if requested by the Contractor, assist him in applying for permits, licenses or approvals which are required for the Works.

2.3 Engineer's/Employer's Instructions

The Contractor shall comply with all instructions given by the Employer or the Engineer, if notified by the Employer, in respect of the Works including the suspension of all or part of the Works.

2.4 Approvals

No approval or consent or absence of comment by the Engineer/Employer shall affect the Contractor's obligations.

3. ENGINEER'S/EMPLOYER'S REPRESENTATIVES

3.1 **Authorized Person**

The Employer shall appoint a duly authorized person to act for him and on his behalf for the purposes of this Contract. Such authorized person shall be duly identified in the Contract Data or otherwise notified in writing to the Contractor as soon as he is so appointed. In either case the Employer shall notify the Contractor, in writing, the precise scope of the authority of such authorized person at the time of his appointment.

3.2 Engineer's/Employer's Representative

The name and address of Engineer's/Employer's Representative is given in Contract Data. However the Contractor shall be notified by the Engineer/Employer, the delegated duties and authority before the Commencement of Works.

4. THE CONTRACTOR

4.1 **General Obligations**

The Contractor shall carry out the Works properly and in accordance with the Contract. The Contractor shall provide all supervision, labour, Materials, Plant and Contractor's Equipment which may be required.

4.2 Contractor's Representative

The Contractor shall appoint a representative at site on full time basis to supervise the execution of work and to receive instructions on behalf of the Contractor but only after obtaining the consent of the Employer for such appointment which consent shall not be unreasonable withheld by the Employer. Such authorized representative may be substituted/replaced by the Contractor at any time during the Contract Period but only after obtaining the consent of the Employer as aforesaid.

4.3 **Subcontracting**

The Contractor shall not subcontract the whole of the Works. The Contractor shall not subcontract any part of the Works without the consent of the Employer.

4.4 **Performance Security**

The Contractor shall furnish to the Employer within fourteen(14) days after receipt of Letter of Acceptance a Performance Security at the option of the bidder, in the form of Bank Draft or Bank Guarantee or an insurance company having at least AA rating from PACRA/JCR for the amount and validity specified in Contract Data.

5. DESIGN BY CONTRACTOR

5.1 Contractor's Design

The Contractor shall carry out design to the extent specified, as referred to in the Contract Data. The Contractor shall promptly submit to the Engineer/Employer all designs prepared by him. Within fourteen(14) days of receipt the Engineer/Employer shall notify any comments or, if the design submitted is not in accordance with the Contract, shall reject it stating the reasons. The Contractor shall not construct any element of the Works

designed by him within fourteen(14) days after the design has been submitted to the Engineer/Employer or which has been rejected. Design that has been rejected shall be promptly amended and resubmitted. The Contractor shall resubmit all designs commented on taking these comments into account as necessary.

5.2 Responsibility for Design

The Contractor shall remain responsible for his bided design and the design under this Clause, both of which shall be fit for the intended purposes defined in the Contract and he shall also remain responsible for any infringement of any patent or copyright in respect of the same. The Engineer/Employer shall be responsible for the Specifications and Drawings.

6. EMPLOYER'S RISKS

6.1 The Employer's Risks

The Employer's Risks are:-

- a) war, hostilities (whether war be declared or not), invasion, act of foreign enemies, within the Country;
- b) rebellion, terrorism, revolution, insurrection, military or usurped power, or civil war, within the Country;
- c) riot, commotion or disorder by persons other than the Contractor's personnel and other employees including the personnel and employees of Sub-Contractors, affecting the Site and/or the Works;
- d) ionising radiations, or contamination by radio-activity from any nuclear fuel, or from any nuclear waste from the combustion of nuclear fuel, radio-active toxic explosive, or other hazardous properties of any explosive nuclear assembly or nuclear component of such an assembly, except to the extent to which the Contractor/Sub-Contractors may be responsible for the use of any radio-active material;
- e) Pressure waves caused by aircraft or other aerial devices travelling at sonic or supersonic speeds;
- f) use or occupation by the Employer of any part of the Works, except as may be specified in the Contract;
- g) late handing over of sites, anomalies in drawings, late delivery of designs and drawings of any part of the Works by the Employer's personnel or by others for whom the Employer is responsible;

- h) a suspension under Sub-Clause 2.3 unless it is attributable to the Contractor's failure; and
- i) physical obstructions or physical conditions other than climatic conditions, encountered on the Site during the performance of the Works, for which the Contractor immediately notified to the Employer and accepted by the Employer.

7. TIME FOR COMPLETION

7.1 Execution of the Works

The Contractor shall commence the Works on the Commencement Date and shall proceed expeditiously and without delay and shall complete the Works, subject to Sub-Clause 7.3 below, within the Time for Completion.

7.2 **Programme**

Within the time stated in the Contract Data, the Contractor shall submit to the Engineer/Employer a programme for the Works in the form stated in the Contract Data.

7.3 Extension of Time

The Contractor shall, within such time as may be reasonable under the circumstances, notify the Employer/Engineer of any event(s) falling within the scope of Sub-Clause 6.1 or 10.3 of these Conditions of Contract and request the Employer/Engineer for a reasonable extension in the time for the completion of Works. Subject to the aforesaid, the Employer/Engineer shall determine such reasonable extension in the time for the completion of Works as may be justified in the light of the details/particulars supplied by the Contractor in connection with the such determination by the Employer/Engineer within such period as may be prescribed by the Employer/Engineer for the same; and the Employer shall extend the Time for Completion as determined.

7.4 **Late Completion**

If the Contractor fails to complete the Works within the Time for Completion, the Contractor's only liability to the Employer for such failure shall be to pay the amount stated in the Contract Data for each day for which he fails to complete the Works.

7.5 Extension of Contract

The validity of contract may be extended for further period of one year on same terms and conditions at the option of PQA and / or with such modification as may be mutually agreed.

8. TAKING-OVER

8.1 **Completion**

The Contractor may notify the Engineer/Employer when he considers that the Works are complete.

8.2 **Taking-Over Notice**

Within fourteen (14) days of the receipt of the said notice of completion from the Contractor the Employer/Engineer shall either takeover the completed Works and issue a Certificate of Completion to that effect or shall notify the Contractor his reasons for not taking-over the Works. While issuing the Certificate of Completion as aforesaid, the Employer/Engineer may identify any outstanding items of work which the Contractor shall undertake during the Maintenances Period.

9. REMEDYING DEFECTS

9.1 **Remedying Defects**

The Contractor shall for a period stated in the Contract Data from the date of issue of the Certificate of Completion carry out, at no cost to the Employer, repair and rectification work which is necessitated by the earlier execution of poor quality of work or use of below specifications material in the execution of Works and which is so identified by the Employer/Engineer in writing within the said period. Upon expiry of the said period, and subject to the Contractor's faithfully performing his aforesaid obligations, the Employer/Engineer shall issue a Maintenance Certificate whereupon all obligations of the Contractor under this Contract shall come to an end.

Failure to remedy any such defects or complete outstanding work within a reasonable time shall entitle the Employer to carry out all necessary works at the Contractor's cost. However, the cost of remedying defects not attributable to the Contractor shall be valued as a Variation.

9.2 **Uncovering and Testing**

The Engineer/Employer may give instruction as to the uncovering and/or testing of any work. Unless as a result of an uncovering and/or testing it is established that the Contractor's design, Materials, Plant or workmanship are not in accordance with the Contract, the Contractor shall be paid for such uncovering and/or testing as a Variation in accordance with Sub-Clause 10.2.

10. VARIATIONS AND CLAIMS

10.1 **Right to Vary**

The Employer/Engineer may issue Variation Order(s) in writing. Where for any reason it has not been possible for the Employer/Engineer to issue such Variations Order(s), the Contractor may confirm any verbal orders given by the Employer/Engineer in writing and if the same are not refuted/denied by the Employer/Engineer within seven (7) days of the receipt of such confirmation the same shall be deemed to be a Variation Orders for the purposes of this Sub-Clause.

10.2 Valuation of Variations

Variations shall be valued as follows:

- a) at a lump sum price agreed between the Parties, or
- b) where appropriate, at rates in the Contract, or
- c) in the absence of appropriate rates, the rates in the Contract shall be used as the basis for valuation, or failing which
- d) at appropriate new rates, as may be agreed or which the Engineer/Employer considers appropriate, or
- e) if the Engineer/Employer so instructs, at day work rates set out in the Contract Data for which the Contractor shall keep records of hours of labour and Contractor's Equipment, and of Materials, used.

10.3 Early Warning

The Contractor shall notify the Engineer/Employer in writing as soon as he is aware of any circumstance which may delay or disrupt the Works, or which may give rise to a claim for additional payment.

To the extent of the Contractor's failure to notify, which results to the Engineer/Employer being unable to keep all relevant records or not taking steps to minimise any delay, disruption, or Cost, or the value of any Variation, the Contractor's entitlement to extension of the Time for Completion or additional payment shall be reduced/rejected.

10.4. Valuation of Claims

If the Contractor incurs Cost as a result of any of the Employer's Risks, the Contractor shall be entitled to the amount of such Cost. If as a result of any Employer's Risk, it is necessary to change the Works, this shall be dealt with as a Variation subject to Contractor's notification for intention of claim to the Engineer/Employer within fourteen(14) days of the occurrence of cause.

10.5 Variation and Claim Procedure

The Contractor shall submit to the Engineer/Employer an itemised make-up of the value of variations and claims within twenty eight(28) days of the instruction or of the event giving rise to the claim. The Engineer/Employer shall check and if possible agree the value. In the absence of agreement, the Employer shall determine the value.

11. CONTRACT PRICE AND PAYMENT

11.1 (a) Terms of Payments

The amount due to the Contractor under any Interim Payment Certificate issued by the Engineer pursuant to this Clause, or to any other terms of the Contract, shall, subject to Clause 47, be paid by the Employer to the Contractor within 30 days after such Interim Payment Certificate has been jointly verified by Employer and Contractor, or, in the case of the Final Certificate referred to in Sub Clause 8.1&8.2, within 60 days after such Final Payment Certificate has been jointly verified by Employer and Contractor; Provided that the Interim Payment shall be caused in 42 days and Final Payment in 60 days in case of foreign funded project.

(b) Valuation of the Works

The Works shall be valued as provided for in the Contract Data, subject to Clause 10.

11.2 Monthly Statements

The Contractor shall be entitled to be paid at monthly intervals:

- a) the value of the Works executed; and
- b) The percentage of the value of Materials and Plant reasonably delivered to the Site, as stated in the Contract Data, subject to any additions or deductions which may be due.

The Contractor shall submit each month to the Engineer/Employer a statement showing the amounts to which he considers himself entitled.

11.3 Interim Payments

Within a period not exceeding seven (7) days from the date of submission of a statement for interim payment by the Contractor, the Engineer shall verify the same and within a period not exceeding thirty (30) days from the said date of submission by the Contractor, the Employer shall pay to the Contractor the sum verified by the Engineer less retention money at the rate stated in the Contract Data.

11.4 Retention

Retention money shall be paid by the Employer to the Contractor within (Thirty Days) 30 days after either the expiry of the period stated in the Contract Data, or the remedying of notified defects, or the completion of outstanding work, all as referred to in Sub-Clause 9.1, whichever is the later.

11.5 Final Payment

Within twenty one (21) days from the date of issuance of the Maintenance Certificate the Contractor shall submit a final account to the Engineer to verify and the Engineer shall verify the same within fourteen (14) days from the date of submission and forward the same to the Employer together with any documentation reasonably required to enable the Employer to ascertain the final contract value.

Within sixty (60) days from the date of receipt of the verified final account from the Engineer, the Employer shall pay to the Contractor any amount due to the Contractor. While making such payment the Employer may, for reasons to be given to the Contractor in writing, withhold any part or parts of the verified amount.

11.6 Currency

Payment shall be in the currency stated in the Contract Data. 11.6

12. **DEFAULT**

12.1 **Default by Contractor**

If the Contractor abandons the Works, refuses or fails to comply with a valid instruction of the Engineer/Employer or fails to proceed expeditiously and without delay, or is, despite a written complaint, in breach of the Contract, the Employer may give notice referring to this Sub-Clause and stating the default.

If the Contractor has not taken all practicable steps to remedy the default within fourteen(14) days after receipt of the Employer's notice, the Employer may by a second notice given within a further twenty one(21) days, terminate the Contract. The Contractor shall then demobilise from the Site leaving behind any Contractor's Equipment which the Employer instructs, in the second notice, to be used for the completion of the Works at the risk and cost of the Contractor.

12.2 **Default by Employer**

If the Employer fails to pay in accordance with the Contract, or is, despite a written complaint, in breach of the Contract, the Contractor may give notice referring to this Sub-Clause and stating the default. If the default is not remedied within fourteen(14) days after the Employer's receipt of this notice, the Contractor may suspend the execution of all or parts of the Works.

If the default is not remedied within twenty eight(28) days after the Employer's receipt of the Contractor's notice, the Contractor may by a second notice given within a further twenty one (21) days, terminate the Contract. The Contractor shall then demobilise from the Site.

12.3 Insolvency

If a Party is declared insolvent under any applicable law, the other Party may by notice terminate the Contract immediately. The Contractor shall then demobilise from the Site leaving behind, in the case of the Contractor's insolvency, any Contractor's Equipment which the Employer instructs in the notice is to be used for the completion of the Works.

12.4 Payment upon Termination

After termination, the Contractor shall be entitled to payment of the unpaid balance of the value of the Works executed and of the Materials and Plant reasonably delivered to the Site, adjusted by the following:

- a) any sums to which the Contractor is entitled under Sub-Clause 10.4,
- b) any sums to which the Employer is entitled,
- c) if the Employer has terminated under Sub-Clause 12.1 or 12.3, the Employer shall be entitled to a sum equivalent to twenty percent(20%) of the value of parts of the Works not executed at the date of the termination, and
- d) if the Contractor has terminated under Sub-Clause 12.2 or 12.3, the Contractor shall be entitled to the cost of his demobilisation together with a sum equivalent to ten percent(10%) of the value of parts of the Works not executed at the date of termination.

The net balance due shall be paid or repaid within twenty eight(28) days of the notice of termination.

13. RISKS AND RESPONSIBILITIES

13.1 Contractor's Care of the Works

Subject to Sub-Clause 9.1, the Contractor shall take full responsibility for the care of the Works from the Commencement Date until the date of the Employer's/Engineer's issuance of Certificate of Completion under Sub-Clause 8.2. Responsibility shall then pass to the Employer. If any loss or damage happens to the Works during the above period, the Contractor shall rectify such loss or damage so that the Works conform with the Contract.

Unless the loss or damage happens as a result of any of the Employer's Risks, the Contractor shall indemnify the Employer, or his agents against all claims loss, damage and expense arising out of the Works.

13.2 Force Majeure

If the event continues for a period of eighty four (84) days, either Party may then give notice of termination which shall take effect twenty eight (28) days after the giving of the notice.

After termination, the Contractor shall be entitled to payment of the unpaid balance of the value of the Works executed and of the Materials and Plant reasonably delivered to the Site, adjusted by the following:

- a) any sums to which the Contractor is entitled under Sub-Clause 10.4,
- b) the cost of his demobilization, and
- c) less any sums to which the Employer is entitled.

The net balance due shall be paid or repaid within thirty five (35) days of the notice of termination.

14. INSURANCE

14.1 **Arrangements**

The Contractor shall, prior to commencing the Works, effect insurances of the types, in the amounts and naming as insured the persons stipulated in the Contract Data except for items (a) to (e) and (i) of the Employer's Risks under Sub-Clause 6.1. The policies shall be issued by insurers and in terms approved by the Employer. The Contractor shall provide the Engineer/Employer with evidence that any required policy is in force and that the premiums have been paid.

14.2 **Default**

If the Contractor fails to effect or keep in force any of the insurances referred to in the previous Sub-Clause, or fails to provide satisfactory evidence, policies or receipts, the Employer may, without prejudice to any other right or remedy, effect insurance for the cover relevant to such as a default and pay the premiums due and recover the same plus a sum in percentage given in Contractor Data from any other amounts due to the Contractor.

15. Customs Duties & Taxes

The Contractor shall obtain all information as to any all taxes including sales Tax, Company Tax and other taxes FBR & SRB, import duties, port handling charges etc and be responsible for include same in the prices sated in his tender. No extra claim in this respect will be entertained. The clearance through customs of the material (All Types of Diesel Generating Sets mentioned in BOQ with accessories) and other things required for the works is the responsibility of Contractor. The contract price shall include cost of material, installation, insurance, custom duty & taxes/levies payable by the Contractor.

16. RESOLUTION OF DISPUTES

16.1 Engineer's Decision

If a dispute of any kind whatsoever arises between the Employer and the Contractor in connection with the Works, the matter in dispute shall, in the first place, be referred in writing to the Engineer, with a copy to the other party. Such reference shall state that it is made pursuant to this Clause. No later than the twenty eight (28) days after the day on which he received such reference, the Engineer shall give notice of his decision to the Employer and the Contractor. Unless the Contract has already been repudiated or terminated, the Contractor shall, in every case, continue to proceed with the Work with all due diligence, and the Contractor and the Employer shall give effect forthwith to every such decision of the Engineer unless and until the same shall be revised, as hereinafter provided in an arbitral award.

16.2 **Notice of Dissatisfaction**

If a Party is dissatisfied with the decision of the Engineer or if no decision is given within the time set out in Sub-Clause 15.1 here above, the Party may give notice of dissatisfaction referring to this Sub-Clause within fourteen(14) days of receipt of the decision or the expiry of the time for the decision. If no notice of dissatisfaction is given within the specified time, the decision shall be final and binding on the Parties. If notice of dissatisfaction is given within the specified time, the decision shall be binding on the Parties who shall give effect to it without delay unless and until the decision of the Engineer is revised by an arbitrator.

16.3 **Arbitration**

A dispute which has been the subject of a notice of dissatisfaction shall be finally settled as per provisions of Arbitration Act 1940 (Act No. X of 1940) and Rules made there under and any statutory modifications thereto. Any hearing shall be held at the place specified in the Contract Data and in the language referred to in Sub-Clause 1.5.

17 INTEGRITY PACT

- 17.1 If the Contractor, or any of his Sub-Contractors, agents or servants is found to have violated or involved in violation of the Integrity Pact signed by the Contractor as Schedule-F to his Bid, then the Employer shall be entitled to:
 - (a) recover from the Contractor an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by the Contractor or any of his Sub-Contractors, agents or servants;
 - (b) terminate the Contract; and

c) recover from the Contractor any loss or damage to the Employer as a result of such termination or of any other corrupt business practices of the Contractor or any of his Sub-Contractors, agents or servants.

On termination of the Contract under Sub-Para (b) of this Sub-Clause, the Contractor shall demobilize from the Site leaving behind Contractor's Equipment which the Employer instructs, in the termination notice, to be used for the completion of the Works at the risk and cost of the Contractor. Payment upon such termination shall be made under Sub-Clause 12.4, in accordance with Sub-Para (c) thereof, after having deducted the amounts due to the Employer under Sub-Para (a) and (c) of this Sub-Clause.

CONDITIONS OF CONTRACT

CONTRACT DATA

Sub-Clauses of Conditions of Contract

| | District Additional Ad |
|--------|--|
| 1.1.1 | Bidding Data Clause 1.1 |
| 1.1.3 | Employer's Drawings, if any |
| | (To be listed by the Employer) |
| 1.1.4 | The Employer means |
| | Port Qasim Authority and represented by Director General (Technical) |
| 1.1.5 | The Contractor means:- |
| | |
| 1.1.7 | Commencement Date means the date of issue of Engineer's Notice to Commence |
| | the work, which shall be issued within fourteen (14) days of the signing of the |
| | Contract Agreement. |
| 1.1.9 | Time for Completion: |
| | (The time for completion as notified in NIT). Twelve (12) Months |
| 1.1.20 | Engineer/E.R |
| | Director (M&E), Port Qasim, Karachi & E.Representative |
| 1.3 | Documents forming the Contract listed in the order of priority: |
| | The Contract Agreement |
| | Letter of Acceptance |
| | The completed Form of Bid |
| | Contract Data |
| | Conditions of Contract |
| | The completed Schedules to Bid including Schedule of Prices/BOQ. |
| | The specifications |
| | Special stipulation |
| | The Drawings, if any |
| 2.1 | Provision of Site: On the commencement date |
| 3.1 | Authorized person: To be notified |
| 3.2 | Name and address of Engineer's/Employer's representative |
| | Director (M&E) Port Qasim Authority |
| 4.4 | Performance Security: |
| | 10% of the Bid Amount/Contract Cost. |
| | The Performance Security shall be valid up to completion of maintenance/defects |
| | liability period of the contract. |
| | (Form: As provided under Standard Forms of these Documents) |
| 5.1 | Required for Contractor's design (if any): |
| 0 | Specification Clause No's |
| 7.2 | Programme: |
| | Time for submission: Within (14) days of the Commencement Date. |
| | Form of programme: Bar Chart (Bar Chat/CPM/PERT or other) |
| 7.4 | Liquidated Damages |
| | Amount payable due to failure to complete the work shall be 0.1 % per day up to a |
| | maximum of (10%) of contract sum stated in the Letter of Intent /Acceptance |
| | maximum 3. (1070) of contract carrier clated in the Lotter of intent // toooptanoo |
| 9.1 | Period for remedying defects/ Defects liability period: |
| 0.1 | 12 Calendar months of contract period. After expiry of contract period the |
| | performance Bond furnished shall be released on the request of contractor. |
| 10.2 | (e) Variation procedure: |
| 10.2 | Day work rates (details) |
| | As per Clause 10.2 (b) _ rates in Contract |
| | As per Clause 10.2 (b) _ rates III Cultitact |
| | |

11.1 (a) | (i)Terms of payments:

Payment of Contract Price shall be made in the following manners:

The Engineer after examining each work statement certify the amount of payment of the contractor which he shall consider reasonable and proper in respect thereof subject to retention of percentage of Retention money and deduction of any such sum which may have become due to payable by the contractor to the Authority.

For all payments made to the Contractor, a deduction of five percent shall be made from each bill as Retention Money. The Retention Money deducted from payment bill shall be refunded to the Contactor after issuance of work completion certificate .The amount due to the Contractor under any certificate duly certificate for payment by the Engineer pursuant to this clause or to any terms of the Contract, shall be paid by the Authority to the Contractor after such certification.

The amount due to the Contractor under any certificate for payment by the Engineer pursuant to this clause or to any terms of the Contract, shall be paid by the Authority to the Contractor after such certification.

All contents in them payment certificate issued by the Engineer and also by the payments that have been made shall be considered partial and provisional and nor final and on account, of any mistake in measurement or computation in the payment certificate shall be corrected and payment be adjusted accordingly.

(ii) Final Payment

Not later than one month after the completion of the Contract period, the Contractor shall submit to the Engineer a statement of final account with supporting documents showing the value of the work done in accordance with the Contract together with all further sums which the Contractor to be due to him under the Contract within one month after the receipt of his final account and of all information reasonably required for its verification. The Engineer shall issue a final certificate stating:

a) The amount which in his opinion is finally due under the Contract and after giving credit to the Authority for all amounts previously paid by the Authority and for all sums to which the Authority is entitled under the Contract.

| 11.2 | Percentage of value of Materials and plant: |
|------|---|
| | Materials Ninety (90%) |
| | Plant Ten (10%) |
| 11.4 | Percentage of retention money: five percent (5%) |
| 11.6 | Currency of Payment: Pak. Rupees |
| 14.1 | Insurances: |
| | Type of cover: Contractor's All Risk Policy |
| | Amount of cover: |
| | The sum stated in the Letter of Acceptance plus fifteen percent (15%) |
| | Type of cover |

| | Contractor's Equipment: Amount of cover Full replacement cost Type of cover Third Party-injury to persons and damage to property. (The minimum limit amount of third party insurance should be Rs. 300,000/- each occurrence). Workers: Other covers (In each case name of insured is Contractor and Employer) Type of cover: Workmen's compensation policy |
|------|---|
| 14.2 | Amount to be recovered Premium plus fifteen percent (15%) |
| 16.3 | Arbitration Place of Arbitration: Karachi |
| | Flace of Arbitration. Nataoni |

TECHNICAL SPECIFICATION & EVALUATION CRITERIA

1- TECHNICAL SPECIFICATION OF H.T / L.T STANDBY DIESEL GENERATING SETS AT PQA

| S.# | DESCRIPTION | MAKE | QTY | LOCATION | CONSUMPTION PER HOUR | REMARKS |
|-----|---|--|-----|-------------------------|----------------------|---|
| 01 | 1250 KVA,11KV (H.T),3 Phase, 50 Hz, DG Set | MGS-1200HV Mitsubishi, Heavy industrial Ltd: Japan | 01 | M.D.S | 235 Ltrs. | Supplied & installed in the year 2009 |
| 02 | 1000 KVA,11KV (H.T),3 Phase, 50 Hz, DG Set | KTA-50 G1,Dawson Keith, England | 01 | M.D.S | 210 Ltrs | Supplied & Installed in the year 1987 under UC-23 |
| 03 | 250KVA ,3 Phase, 50 Hz, DG Set | GPD-250 Power Master (Doosan) | 01 | Chairman Secretariat | 35 Ltrs. | Supplied in the year 2013 |
| 04 | 150 KVA (L.T), 3 Phase 50 HZ, DG Sets | L-413 Duetz, Germany | 02 | IOCB | 40 Ltrs. | Supplied & Installed in the year 1979 |
| 05 | 125KVA(L.T) Mobile, 3 Phase, 50 Hz, DG Sets | CPC-125 Dawson Keith England | 02 | M.D.S & KDL building | 50 Ltrs. | One number Shifted to DG Port & Shipping Wing 1987 |
| 06 | 100 KVA (L.T) Mobile DG Set | 1104 C-44TA Perkins (U.K) | 01 | M.D.S | 12 Litrs. | Supplied in the year 2022 |
| 07 | 65KVA(L.T), 3 Phase, 50 Hz, DG Set | A-4135D China | 01 | Telephone Exchange | 25 Ltrs. | Supplied & Installed in the year 1986 |
| 80 | 50 KVA (L.T) Mobile DG Set | 1103A-33T Perkins (U.K) | 01 | M.D.S | 07 Litrs | Supplied in the year 2022 |
| 09 | 20 KVA L.T DG Set | 06560667 Lister Peter/3 | 01 | PQA House | 07 Ltrs. | Supplied & Installed in the year 2006 |
| 10 | 20 KVA (L.T) Mobile DG Sets | 404A-22 Perkins (U.K) | 02 | M.D.S | 4 Ltrs | Supplied in the year 2022 |
| 11 | 10 KVA Petrol Generator | Angel | 01 | PQA Hut | 1.5 Ltrs | Supplied in the year 2022 |

2- EVALUATION CRITERIA

The Tenderer shall submit, design details of the proposed works, (a narrative work methodology), relevant production assessment figures, and other items required by Employer's Requirement (Refer to Specifications), all of which is considered part of the Contract.

| SL.# | Description | Max. Point | | |
|------|---|------------------------|--|--|
| | Mandatory Firms shall have to submit with Technical Bid the following :- | 100 | | |
| 1) | Duly licensed by the Pakistan Engineering Council (PEC) in the Category C-5 and above with code ME-07 & EE-03 valid upto 31st December, 2024. | | | |
| 2) | Registration with Federal Board of Revenue (FBR) and Sindh Revenue Board (SRB) on active Tax Payer list (ATL), Registered with Public Procurement Regularity Authority (PPRA), E-PaK Acquisition & Disposal System (E-PADS) | | | |
| 3) | Credentials of the firms/companies, head office & branch offices addresses, telephone, fax, e-mail address of the firms/companies. | | | |
| 4) | Minimum 50% score in each section of Evaluation Criteria is mandatory to qualify and minimum aggregate of 65 points are required for qualifying of the firm / company. | | | |
| 01 | Qualification of the firm | 10 Points | | |
| a) | Break-up of Points Constitution of the firm | | | |
| | i- Public Limited Company | 10 | | |
| | ii- Private Limited Company /Partnership/Joint Venture | 08 | | |
| | iii- Sole Proprietorship | 05 50 Points | | |
| 02 | Experience of the firm "Annual Running Repair / Maintenance Contract for the Standby Diesel Generator Sets" | | | |
| | Contract for the Standby Dieser Generator Sets | | | |
| | Break-up of points | | | |
| a) | i- Experience in the relevant field for 05 years | 10 | | |
| | ii- Experience in the relevant field for 03 years | 07 | | |
| | iii- Experience in the relevant field for 02 years | 05 | | |
| | iv- Experience in the relevant field for 01 year | 03 | | |
| b) | List of completed projects / on-going projects for Annual Running Repair / Maintenance Contract for Standby Diesel Generating Sets of minimum capacity matching as desired in NIT. i- Minimum one (01) project and for each project 20 points up to maximum 40 points ii- Certificates of completion & notice to commence / work order be included. | 40 Points | | |

| 03 | FINANCIAL SOUNDNESS | 25 Points | | |
|----|--|-------------------------------------|--|--|
| a) | Average Working Capital for last Three (03) years audited account i- Minimum working Capital Rs. 05 Million ii- For each additional Rs.1 Million = 01 point (Subject to maximum 5 Million or above) | 10 Points 05 Points 05 Points | | |
| b) | Average Gross Revenue for last Three (03) years audited account. i- Minimum Gross Revenue Rs.10 Million ii- For each additional Rs. 5 Million = 01 point (Subject to maximum 25 Million or above) | 10 Points 05 Points 05 Points | | |
| c) | Available bank Credit Line (Updated) i- Bank certificate / indicating acceptable financial soundness of firm / company. | | | |
| 04 | QUALIFICATION OF KEY PERSONAL | 15 Points | | |
| | 1)- Mechanical Engineer 2)- Electrical / Electronic Engineer | 7.5 Points 7.5 Points | | |
| | i- Qualification ii- Relevant Experience iii- Permanency with the firm | 40% 40% 20% | | |
| | i)- <u>Qualifications</u> B.E in relevant field DAE in relevant field | 03 Points 100% 75% | | |
| | ii)- Relevant Experience up to 05 years and above up to 03-04 years up to 01-02 years | 03 Points 100% 75% 50% | | |
| | iii)- Permanency with the firm up to 36 months and above up to 24-35 months up to 12-23 months | 1.5 Points 100% 75% 50% | | |
| | Grand Total | 100 | | |

Note:

- i- CV must be provided duly and signed by the Employee himself and authorized officer of the firm/company.
- ii- The intention of the Port Qasim Authority is setting up such Criteria for evaluation of firms/companies for short listing is solely to give a fair and just opportunity to each and every firm to evaluate itself and will establish the necessary Transparency to the Evaluation process.

- iii- It is also required that the firms/Companies applying for tender documents must provide reliable and true information about itself and its key personnel.
- iv- The information requested for and provided by the firms/Companies with regards the firm's qualification must be signed individually by the authorized person himself certifying that the information supplied is true and factual.
- v- In case any information supplied by the firm with regards to anything or its own experience or that of its key personnel is determined to be false, the firms will automatically be liable to be disqualified, debarred and its proposal rejected outright Contract terminated.

SCOPE OF WORK & BILL OF QUANTITIES

SCOPE OF WORK

THE ANNUAL RUNNING REPAIR / MAINTENANCE CONTRACT FOR STANDBY DIESEL GENERATING SETS WOULD COVER THE FOLLOWING AT PQA

- (1) Posting of two trained / skilled Generator operators for regular operation & maintenance at site duly approved by PQA on round O'clock basis service to ensure prompt attendance of any defect and operation of HT/LT DG Sets with the view to ensure uninterrupted standby power supply in case of failure of KE.
- (2) Checking and maintenance of electric control wiring including VCB panels, circuit breakers, changeovers, contactors and control panel installed at DG Sets etc.
- (3) In frame overhauling / major overhaul of DG Sets would be paid extra by PQA.
- (4) Major repairs requiring dismantling of any parts i.e replacement & servicing of Injectors, Radiators, Calibration of fuel pumps and major modifications, if required in existing standby power supply system when carried out by the contractor's Engineers/representatives would be paid extra by PQA.
- (5) Available drawing, technical manuals and other relevant literature shall be provided for servicing and defect rectification of equipments.
- (6) Routine maintenance and defect rectification of the equipments at site will be ensured by the contractor.
- (7) Three routine visits per month and as whenever required by the Contractor's Engineers for checking and servicing of each DG Sets mentioned in attached Technical Specification without any cost addition.
- (8) Any modification to the equipments or provision of other facilities shall be carried out by the Engineers outside the scope of this maintenance contract at rates to be mutually agreed upon.
- (9) Though every endeavor will be made firm to ensure defect rectification of the Diesel Generating Sets in minimum time.
- (10) The contractor required to prepare routine maintenance of existing DG Sets for smooth operation as per standard of provision of Contract.
- (11) All spare parts, tools & equipment approved by the Engineer shall be available at the site all times and shall not be removed from site without information and consent of Engineer. The said repaired material/spare parts should be operated & guaranteed for 12 months period if any fault occurred will be responsible for contractor at their risk & cost.

PORT QASIM AUTHORITY (MECHANICAL & ELECTRICAL DEPARTMENT)

BILL OF QUANTITIES

Name of Work: ANNUAL RUNNING REPAIR/MAINTENANCE CONTRACT FOR STANDBY DIESEL GENERATING SETS AT PQA.

| S.No. | Description of Work | Qty | Unit | Rate in (Rs.) | Total Amount in (Rs.) |
|-------|--|-----|--------|------------------|-----------------------------|
| | Providing, Fixing, Installation, Testing & Commissioning of the following Mechanical & Electrical material / accessories including labour charges etc for HT / LT Generators as per specification & directed by the Engineer:- | | | | |
| 01 | Two trained / skilled Generator Operators for regular operation & maintenance of HT/LT Generating Sets for round o'clock basis. | 12 | Months | | |
| 02 | 1250 KVA, 11 KV (H.T) STANDBY DG SET MITSUBISHI JAPAN (01 NO) INSTALLED AT MDS | | | | |
| i | Oil Filter LF-670 (Fleet Guard or equivalent make) | 8 | Nos | | |
| ii | Oil by pass Filter LF-777 (Fleet Guard or equivalent make) | 2 | Nos | | |
| iii | Air Filter P-182040 (Fleet Guard or equivalent make) | 4 | Nos | | |
| iv | Fuel Filter FF-202 (Fleet Guard or equivalent make) | 4 | Nos | | |
| V | Repair maintenance of Water Body | 1 | Job | | |
| vi | Repair Maintenance of self starter | 1 | Job | | |
| vii | Repair Maintenance of silencer | 1 | Job | | |
| viii | Servicing / washing of Radiator (Quarterly) | 4 | Jobs | | |
| ix | Providing & Changing of Radiator coolant fleet guard EG-Premix 50/50 (Original) | 200 | Ltrs | | |
| х | Battery Exide N-250 plus 12V/31 plate (AGS or equivalent make) | 6 | Nos | | |
| хi | Battery Distilled Water (AGS) | 60 | Ltrs | | |
| xii | Replacement of Lifting Pump | 1 | Job | | |
| xiii | Replacement of complete Lifting Pump Set | 1 | Set | | |
| xiv | Engine Oil (Delo Gold Ultra 15W / 40 or equivalent make) | 300 | Ltrs | | |
| XV | Generator routine inspection / servicing charges including replacement of Filters & engine Oil (Provided by PQA)-250 hrs or 6-months whichever earlier. | 2 | Jobs | | |
| 03 | 1000 KVA, 11 KV (H.T) STANDBY DG SET DOWSON KEITH ENGLAND (01 NO) INSTALLED AT MDS | | | | |
| i | Air Filter AF-872 (Fleet Guard or equivalent make) | 4 | Sets | | |
| ii | Fuel Filter FF-202 (Make: Fleet Guard or equivalent make) | 4 | Nos | | |
| iii | Oil Filter LF-3325 (Fleet Guard or equivalent make) | 10 | Nos | | |
| iv | Water filter WF-2075 (Fleet guard or equivalent make). | 4 | Nos | | |
| ٧ | Repair Maintenance of Water Body | 1 | Job | | |

| S.No. | Description of Work | Qty | Unit | Rate in (Rs.) | Total Amount in (Rs.) |
|-------|---|-----|------|---------------|-----------------------------|
| vi | Repair Maintenance of self starter | 1 | Job | | |
| vii | Repair Maintenance of silencer | 1 | Job | | |
| viii | Servicing / washing of Radiator (Quarterly) | 4 | Jobs | | |
| ix | Providing & Changing of Radiator coolant fleet guard EG-Premix 50/50 (Original) | 200 | Ltrs | | |
| Х | Battery Exide N-250 plus 12V/31 plate (AGS or equivalent make) | 6 | Nos | | |
| xi | Battery Distilled Water (AGS) | 60 | Ltrs | | |
| xii | Engine Oil (Delo Gold Ultra 15W / 40 or equivalent make) | 320 | Ltrs | | |
| xiii | Replacement of Water Jacket Brass (Tickly) | 1 | Job | | |
| xiv | Generator routine inspection / servicing charges including replacement of Filters & engine Oil (Provided by PQA)-250 hrs or 6-months whichever earlier. | 2 | Jobs | | |
| XV | Painting of engine Base frame | 1 | Job | | |
| 04 | 250 KVA (L.T) STANDBY DG SET POWER MASTER DOOSAN (01 NO) INSTALLED AT CHAIRMAN SECRETRIATE | | | | |
| i | Fuel Filter FF-185 (Fleet Guard or equivalent make) | 1 | No | | |
| ii | Oil Filter LF-734 (Fleet Guard or equivalent make) | 2 | Nos | | |
| iii | Air Filter A-25763 (Fleet Guard or equivalent make) | 2 | Nos | | |
| iv | Repairing & repainting of canopy complete in all respect. | 1 | Job | | |
| ٧ | Repair Maintenance of Water Body | 1 | Job | | |
| vi | Repair Maintenance of self starter | 1 | Job | | |
| vii | Repair Maintenance of silencer | 1 | Job | | |
| viii | Servicing / washing of Radiator (Quarterly) | 4 | Jobs | | |
| хi | Providing & Changing of Radiator coolant fleet guard EG-Premix 50/50 (Original) | 60 | Ltrs | | |
| Х | Providing & Fixing of XP-145 Phoenix/18 plates (Exide, AGS or equivalent make) | 2 | Nos | | |
| xi | Battery Distilled Water (AGS) | 15 | Ltrs | | |
| xii | Engine Oil (Delo Gold Ultra 15W / 40 or equivalent make) | 60 | Ltrs | | |
| xiii | Generator routine inspection / servicing charges including replacement of Filters & engine Oil (Provided by PQA)-250 hrs or 6-months whichever earlier | 2 | Jobs | | |
| xiv | Servicing of fuel injectors and calibration of fuel pump | 1 | Job | | |
| xv | Replacement of Lifting Pump | 1 | Job | | |

| S.No. | Description of Work | Qty | Unit | Rate in (Rs.) | Total Amount in (Rs.) |
|-------|---|-----|------|---------------|-----------------------------|
| 05 | 150KVA (L.T), 3-PHASE, 50HZ, No.5390325 &5390326 L413 DEUTZ GERMANY STANDBY DG SET (02 NOS) INSTALLED AT IOCB | | | | |
| i | Cleaning of dry air cleaner Compatible | 4 | Jobs | | |
| ii | Oil Filter (W-962)-compatible | 4 | Nos | | |
| iii | Diesel Filter (WK-940/5)-Compatible | 4 | Nos | | |
| iv | Repair Maintenance of Water Body | 2 | Jobs | | |
| V | Repair Maintenance of self starter | 2 | Jobs | | |
| vi | Repair Maintenance of silencer | 2 | Jobs | | |
| vii | Providing & fixing of Battery Exide N-250 plus 12/31 plates (AGS or equivalent make) | 4 | Nos | | |
| viii | Battery Distilled Water (AGS) | 40 | Ltrs | | |
| ix | Engine Oil (Delo Gold Ultra 15W / 40 or equivalent make) | 224 | Ltrs | | |
| Х | Generator routine inspection / servicing charges including replacement of Filters & engine Oil (Provided by PQA)-250 hrs or 6-months which ever earlier | 4 | Jobs | | |
| xi | Servicing of fuel injectors and calibration of fuel pump | 2 | Jobs | | |
| 06 | 125KVA (L.T) MOBILE STANDBY DG SETS DOWSON KEITH ENGLAND (02 NOS) AT MDS & KDL BUILDING | | | | |
| i | Fuel Filter FF-108 (Fleet Guard or equivalent make) | 2 | Nos | | |
| li | Oil Filter LF-516 (Fleet Guard or equivalent make) | 4 | Nos | | |
| iii | Air Filter AC-2210 (Fleet Guard or equivalent make) | 4 | Nos | | |
| iv | Repair Maintenance of Water Body | 2 | Jobs | | |
| V | Repair Maintenance of self starter | 2 | Jobs | | |
| vi | Repair Maintenance of silencer | 2 | Jobs | | |
| vii | Servicing / washing of Radiator (Quarterly) | 8 | Jobs | | |
| viii | Providing & Changing of Radiator coolant fleet guard EG-Premix | 50 | Ltrs | | |
| хi | 50/50 (Original) Battery Exide N-180 plus heavy duty/21 plates (AGS or equivalent make) | 04 | Nos | | |
| Х | Battery Distilled Water (AGS) | 30 | Ltrs | | |
| хi | Engine Oil (Delo Gold Ultra 15W / 40 or equivalent make) | 100 | Ltrs | | |
| xii | Generator routine inspection / servicing charges including replacement of Filters & engine Oil (Provided by PQA)-250 hrs or 6-months which ever earlier | 4 | Jobs | | |

| S.No. | Description of Work | Qty | Unit | Rate in (Rs.) | Total Amount in (Rs.) |
|-------|---|-----|------|---------------|-----------------------------|
| xiii | Providing & replacement of existing Radiator assembly size 33"x33" copper brass as per original sample, complete in all respect. | 1 | Job | | |
| xiv | Servicing of fuel injector and calibration of fuel pump | 2 | Jobs | | |
| xv | WF-2076 water filter fleet guard or equivalent make | 2 | Nos | | |
| xvi | Replacement of Hand Lifting Pump | 1 | Job | | |
| 07 | 100KVA (L.T) MOBILE STANDBY DG SET PERKINS UK (01 NO) AT MDS | | | | |
| i | Fuel Filter-4816636 (Perkins/Fleet Guard or equivalent Make) | 1 | No | | |
| ii | Oil Filter-265407 (Perkins/Fleet Guard or equivalent Make) | 2 | Nos | | |
| iii | Air Filter-26510380 (Perkins/Fleet Guard or equivalent Make) | 2 | Nos | | |
| iv | Repair Maintenance of self starter | 1 | Job | | |
| V | Servicing / washing of Radiator (Quarterly) | 4 | Jobs | | |
| vi | Providing & Changing of Radiator coolant fleet guard EG-Premix 50/50 (Original) | 30 | Ltrs | | |
| vii | Battery Exide N-180 plus heavy duty/21 plates (AGS or equivalent make) | 2 | Nos | | |
| viii | Battery Distilled Water (AGS) | 25 | Ltrs | | |
| ix | Engine Oil (Delo Gold Ultra 15W / 40 or equivalent make) | 16 | Ltrs | | |
| Х | Generator routine inspection / servicing charges including replacement of Filters & engine Oil (Provided by PQA)-250 hrs or 6-months which ever earlier | 2 | Jobs | | |
| 08 | 65 KVA (L.T) STANDBY DG SET (CHINA) INSTALLED AT TELEPHONE EXCHANGE BUILDING | | | | |
| i | Providing & Fixing of Flexible Conduit | 1 | Job | | |
| ii | Providing and fixing of water Hose pipe | 1 | Set | | |
| iii | Providing and fixing of Frequency Meter | 1 | Job | | |
| iv | Providing & Fixing of Hose pipe with Clamp | 1 | Job | | |
| V | Fuel Filter (Compatible) | 1 | No | | |
| vi | Air Filter (Compatible) | 2 | Nos | | |
| vii | Strainer oil filter (Compatible) | 2 | Nos | | |
| viii | Replacement of complete Lifting Pump Set | 1 | Set | | |
| xi | Repair Maintenance of Water Body | 1 | Job | | |
| Х | Repair Maintenance of self starter | 1 | Job | | |

| S.No. | Description of Work | Qty | Unit | Rate in (Rs.) | Total Amount in (Rs.) |
|-------|---|-----|------|---------------|-----------------------------|
| хi | Repair Maintenance of silencer | 1 | Job | | |
| xii | Servicing / washing of Radiator (Quarterly) | 4 | Jobs | | |
| xiii | Providing & Changing of Radiator coolant fleet guard EG-Premix 50/50 (Original) | 50 | Ltrs | | |
| xiv | Battery Exide N-180 plus heavy duty/21 plates (AGS or equivalent make) | 2 | Nos | | |
| XV | Battery Distilled Water (AGS) | 20 | Ltrs | | |
| xvi | Engine Oil (Delo Gold Ultra 15W / 40 or equivalent make) | 44 | Ltrs | | |
| xvii | Generator routine inspection / servicing charges including replacement of Filters & engine Oil (Provided by PQA)-250 hrs or 6-months which ever earlier | 2 | Jobs | | |
| xviii | Providing & replacement of existing Radiator assembly size 26"x26" copper brass as per original sample, complete in all respect. | 1 | Job | | |
| xix | WF-2075 water filter fleet guard or equivalent make | 1 | No | | |
| 09 | 50KVA (L.T) MOBILE STANDBY DG SET PERKINS UK (01 NO) AT MDS | | | | |
| i | Fuel Filter-4461492 (Perkins/Fleet Guard or equivalent Make) | 1 | No | | |
| ii | Oil Filter-2654403 (Perkins/Fleet Guard or equivalent Make) | 2 | Nos | | |
| iii | Air Filter-26510337 (Perkins/Fleet Guard or equivalent Make) | 2 | Nos | | |
| iv | Repair Maintenance of self starter | 1 | Job | | |
| V | Servicing / washing of Radiator (Quarterly) | 4 | Jobs | | |
| vi | Providing & Changing of Radiator coolant fleet guard EG-Premix 50/50 (Original) | 25 | Ltrs | | |
| vii | Battery Exide N-150/19 plates (AGS, Phoenix or equivalent make) | 1 | No | | |
| viii | Battery Distilled Water (AGS) | 20 | Ltrs | | |
| ix | Engine Oil (Delo Gold Ultra 15W / 40 or equivalent Make) | 16 | Ltrs | | |
| х | Generator routine inspection / servicing charges including replacement of Filters & engine Oil (Provided by PQA)-250 hrs or 6-months which ever earlier | 2 | Jobs | | |
| 10 | 20 KVA L.T-06560667-PETER/3 SIEMENS STANDBY DG SET (01 NO) INSTALLED AT PQA HOUSE | | | | |
| i | Air Filter A-7003 (Compatible) | 2 | Nos | | |
| ii | Oil Filter (Compatible) | 2 | Nos | | |
| iii | Fuel Filter 26561117 (Compatible) | 1 | No | | |
| iv | Repairing of coupling plate | 1 | Job | | |
| V | Denting / Painting of canopy, complete in all respect | 1 | Job | | |
| vi | Repair Maintenance of Water Body | 1 | Job | | |

| S.No. | Description of Work | Qty | Unit | Rate in (Rs.) | Total Amount in (Rs.) |
|-------|--|-----|------|---------------|-----------------------------|
| vii | Repair Maintenance of self starter | 1 | Job | | , , |
| viii | Repair Maintenance of silencer | 1 | Job | | |
| ix | Servicing / washing of Radiator (Quarterly) | 4 | Jobs | | |
| Х | Providing & Changing of Providing & Changing of Radiator coolant fleet guard EG-Premix 50/50 (Original) | 30 | Ltrs | | |
| xi | Battery Exide N-150/19 plates (AGS, Phoenix or equivalent make) | 1 | No | | |
| xii | Replacement of Complete Lifting Pump Set | 1 | Set | | |
| xiii | Battery Distilled Water (AGS) | 20 | Ltrs | | |
| xiv | Engine Oil (Delo Gold Ultra 15W / 40 or equivalent make) | 16 | Ltrs | | |
| XV | Generator routine inspection / servicing charches including replacement of Filters & engine Oil (Provided by PQA)-250 hrs or 6-months which ever earlier | 2 | Jobs | | |
| xvi | Servicing of fuel injectors and calibration of fuel pump | 1 | Job | | |
| 11 | 20 KVA (L.T) MOBILE STANDBY DG SETS SERIAL NO. GV83540U920041H & GV83440U922843H PERKINS UK (02 NOS) AT MDS | | | | |
| i | Fuel Filter-26560017 (Perkins/Fleet Guard or equivalent make) | 2 | Nos | | |
| ii | Oil Filter-140517050 (Perkins/Fleet Guard or equivalent make) | 4 | Nos | | |
| iii | Air Filter-5543095 (Perkins/Fleet Guard or equivalent make) | 4 | Nos | | |
| iv | Repair Maintenance of self starter | 2 | Jobs | | |
| V | Servicing / washing of Radiator (Quarterly) | 8 | Jobs | | |
| vi | Providing & Changing of Radiator coolant fleet guard EG-Premix 50/50 (Original) | 30 | Ltrs | | |
| vii | Providing & fixing of Battery Exide N-150/19 plates (AGS, Phoenix or equivalent make) | 2 | Nos | | |
| viii | Battery Distilled Water (AGS) | 40 | Ltrs | | |
| ix | Engine Oil (Delo Gold Ultra 15W / 40 or equivalent make) | 32 | Ltrs | | |
| Х | Generator routine inspection / servicing charges including replacement of Filters & engine Oil (Provided by PQA)-250 hrs or 6-months which ever earlier | 4 | Jobs | | |
| 12 | 10 KVA (L.T) GENERATING SET (ANGEL) INSTALLED AT PQA HUT. | | | | |
| i | Replacement of AVR | 01 | Job | | |
| ii | Replacement of Router | 01 | Job | | |
| iii | Replacement of Electric motor field | 01 | Job | | |
| iv | Battery OSAKA S-50 L+(AGS 50 amp or equivalent make) | 01 | No | | |
| V | Rewinding of router including disconnection removing, re-fixing complete in all respect | 01 | Job | | |

| S.No. | Description of Work | Qty | Unit | Rate in (Rs.) | Total Amount in (Rs.) |
|--------|--|-----|------|---------------|-----------------------------|
| vi | Rewinding of motor including disconnection removing, re-fixing complete in all respect | 01 | Job | | , , |
| vii | Replacement of plug (Japan) | 01 | Job | | |
| viii | Replacement of Starting Coil | 01 | Job | | |
| ix | Repair / Maintenance of valve | 02 | Sets | | |
| Х | Repair / Maintenance of valve guide | 01 | Set | | |
| xi | Replacement of valve seet | 01 | Set | | |
| xii | Replacement of valve seal | 02 | Sets | | |
| xiii | Replacement of valve spring cachar complete set | 01 | Set | | |
| xiv | Replacement of valve spring complete set | 01 | Set | | |
| XV | Replacement of valve rocker complete set | 01 | Set | | |
| xvi | Replacement of valve push guide complete set | 01 | Set | | |
| xvii | Replacement of Piston Standard Size China | 01 | Job | | |
| xviii | Replacement of over size Piston | 01 | Job | | |
| xix | Replacement of Piston Ring Standard size Set | 01 | Set | | |
| XX | Replacement of over size piston Ring | 01 | Job | | |
| xxi | Replacement of piston liner Standard size | 01 | Job | | |
| xxii | Replacement of piston Liner over size | 01 | Job | | |
| xxiii | Replacement of Connecting Rod with pin Standard size | 01 | Set | | |
| xxiv | Replacement of connecting rod over size | 01 | Job | | |
| XXV | Replacement of Crank shaft Standard size | 01 | No | | |
| xxvi | Replacement of Crank shaft over size including grinding Work | 01 | Job | | |
| xxvii | Replacement of existing Head | 01 | Job | | |
| xxviii | Replacement of existing complete engine,complete in all respect | 01 | Job | | |
| xxix | Repair Maintenance of Self Starter | 01 | Job | | |
| XXX | Replacement of Silencer | 01 | Job | | |
| xxxi | Replacement of router Bearing | 01 | Job | | |
| xxxii | Replacement of router Bearing Hosing | 01 | Job | | |
| xxxiii | Engine Oil Hevoline 10w/40 or equivalent make | 02 | Ltrs | | |
| xxxiv | Replacement of sponge Air Filter (Compatible) | 01 | No. | | |

| S.No. | Description of Work | Qty | Unit | Rate in (Rs.) | Total Amount in (Rs.) |
|---------|---|-----|------|---------------|-----------------------------|
| XXXV | Battery Distilled Water (AGS) | 01 | Ltr | | |
| xxxvi | Replacement of Self Starter | 01 | Job | | |
| xxxvii | Replacement of injector VM Company or equivalent make | 01 | Job | | |
| xxxviii | Replacement of Fuel Pump Kit VM Company or equivalent make | 01 | Job | | |
| xxxix | Generator routine inspection / servicing charges including replacement of Filters & engine Oil (Provided by PQA)-250 hrs or 6-months which ever earlier | 02 | Jobs | | |

| (A) | TOTAL ESTIMATED COST OF BOQ | Rs |
|-----|-----------------------------|----|
|-----|-----------------------------|----|

PORT QASIM AUTHORITY (MECHANICAL & ELECTRICAL DEPARTMENT)

LIST OF SPARE PARTS FOR HT / LT STANDBY DIESEL GENERATING SETS AT PQA

| S.No | Description of Work | QTY | Unit | Rate in (Rs.) | Total Amount in (Rs.) |
|------|---|-----|------|---------------|-----------------------------|
| | Providing, Fixing, Installation/Testing & Commissioning of the following Mechanical & Electrical material / accessories including labour charges etc for HT / LT Generators as per specification directed by the Engineer:- | | | | |
| 1 | Providing & fixing ¼" dia pipe for air compressor Tank | 50 | Rft | | |
| 2 | Providing and fixing of Jubilee clip S.S 1/4" dia | 25 | Nos | | |
| 3 | Providing & fixing oil pressure sensor for H.T/L.T Generator | 4 | Jobs | | |
| 4 | Providing & fixing water temperature sensor for H.T /L.T Generator | 4 | Jobs | | |
| 5 | Providing & fixing Oil pressure gauge for H.T/L.T Generator | 4 | Jobs | | |
| 6 | Providing & fixing Water temperature gauge for H.T/L.T Generator | 4 | Jobs | | |
| 7 | Providing & fixing control fuses-0.5A-10A | 10 | Jobs | | |
| 8 | Providing & fixing control fuses-10A-15A | 05 | Jobs | | |
| 9 | Providing & fixing control fuses-15A-20A | 05 | Jobs | | |
| 10 | Servicing including oil replacement of mobile Air Compressor (Meiji) complete in all respect | 1 | Job | | |
| 11 | Providing and fixing Power cable, 600/1000 Volts, 4-core, copper conductor (M/s Pakistan cables or equivalent make) with following sizes:- | | | | |
| i- | 16 sqmm | 25 | RM | | |
| ii- | 25 sqmm | 25 | RM | | |
| iii- | 70 sqmm | 25 | RM | | |
| 12 | Providing & fixing cable, single core, copper conductor Pakistan cable or equivalent make with following sizes:- | | | | |
| i- | 1.5 sqmm | 90 | RM | | |
| ii- | 2.5 sqmm | 90 | RM | | |
| iii- | 4 sqmm | 90 | RM | | |
| iv- | 6 sqmm | 90 | RM | | |
| 13 | Providing & fixing copper cable Lugs of following sizes:- | | | | |
| i- | 240 sqmm | 20 | Nos | | |
| ii- | 50 sqmm | 25 | Nos | | |
| iii- | 25 sqmm | 25 | Nos | | |
| iv- | 16 sqmm | 25 | Nos | | |
| V- | 6 sqmm | 25 | Nos | | |
| vi- | 4 sqmm | 25 | Nos | | |

| S.No. | Description of Work | Qty | Unit | Rate in (Rs.) | Total Amount in (Rs.) |
|-------|---|-----|------|---------------|-----------------------------|
| vii- | 2.5 sqmm | 25 | Nos | | |
| viii- | 1.5 sqmm | 25 | Nos | | |
| 14 | Providing & fixing MCCB (Tera Saki or equivalent make):- | | | | |
| i- | 400Amp, 4-pole | 1 | No | | |
| ii- | 250Amp, 4-pole | 1 | No | | |
| iii- | 200Amp, 4-pole | 1 | No | | |
| iv- | 120Amp, 4-pole | 2 | Nos | | |
| V- | 60Amp 3 pole | 2 | Nos | | |
| vi- | 16 Amp single pole | 4 | Nos | | |
| vii- | 6 Amp single pole | 5 | Nos | | |
| 15 | Providing the Rubber Matt for Generator Room | 250 | Sqft | | |
| 16 | Providing & Fixing Volt Meter 0-15 3x3 | 4 | Jobs | | |
| 17 | Providing & fixing Ampere Meter 0-200 3x3 100/5 | 4 | Jobs | | |
| 18 | Providing & fixing selector switch for KV Meter | 2 | Jobs | | |
| 19 | Providing & fixing push button ON / OFF | 5 | Jobs | | |
| 20 | Providing & fixing VCB bottles 11 KV, 630 Amp (Siemens) | 1 | Set | | |
| 21 | Providing & fixing Bus Bars 11KV, 630 Amp | 2 | Sets | | |
| 22 | Providing & fixing tripping coil 110 volt | 3 | Nos | | |
| 23 | Providing & fixing on coil DC 110 volt | 3 | Nos | | |
| 24 | Providing & fixing Insulator 6" | 1 | Set | | |
| 25 | Providing & fixing Insulator 8" | 1 | Set | | |
| 26 | VCB panel control wiring and testing including material complete in all respect | 1 | Job | | |
| 27 | Providing & fixing bottle fuse with cover | 10 | Jobs | | |
| 28 | Providing & fixing rotary ON/OFF switch 0-1 | 2 | Jobs | | |
| 29 | Providing & fixing Motor starter 220 Volt (Panasonic or equivalent make) | 1 | Job | | |
| 30 | Nylon pipe 1"1/4 dia for diesel suction | 50 | Rft | | |
| 31 | Repair Maintenance of canopy door with painting for L.T Generator, complete in all respect. | 4 | Jobs | | |
| 32 | Providing & fixing separator Assembly | 1 | Job | | |
| 33 | Providing & fixing relay 24V DC | 10 | Jobs | | |

| S.No. | Description of Work | Qty | Unit | Rate in (Rs.) | Total Amount in (Rs.) |
|-------|--|-----|------|---------------|-----------------------------|
| 34 | Providing & fixing Battery Terminal Brass | 50 | Sets | | , |
| 35 | Providing & fixing of Jubilee Clamp S.S 4" dia | 10 | Jobs | | |
| 36 | Providing & Fixing of Hose Pipe 4" dia radiator bottom & top side for Generator | 10 | Rft | | |
| 37 | Providing & fixing Alternator bearing (SKF or equivalent make) | 2 | Jobs | | |
| 38 | Providing & fixing 4" dia UPVC incoming pipe for underground diesel Tank (Pak Arab or equivalent make) | 50 | Rft | | |
| 39 | Providing & fixing Elbow G-I 1" inch dia | 8 | Nos | | |
| 40 | Providing & fixing UnionG-I 1" inch dia | 8 | Nos | | |
| 41 | Providing & fixing Socket G-I 1" inch dia | 8 | Nos | | |
| 42 | Providing & fixing Reducer G-I 1" inch dia 1"x3/4" dia | 8 | Nos | | |
| 43 | Providing & fixing Dead Plug G-I 1" inch dia | 8 | Nos | | |
| 44 | Providing & fixing Tee G-I 1" inch dia | 8 | Nos | | |
| 45 | Providing & fixing G-I pipe 1" inch dia (STEELLEX or equivalent make) | 8 | R.M | | |
| 46 | Providing & fixing Ball valve (handle valve) 1inch dia imported | 8 | Nos | | |
| 47 | Providing & fixing Barrel nipple G.I 1" inch dia | 8 | Nos | | |
| 48 | Providing & fixing Elbow UPVC 1" inch dia | 8 | Nos | | |
| 49 | Providing & fixing Union UPVC 1" inch dia | 8 | Nos | | |
| 50 | Providing & fixing Socket UPVC 1" inch dia | 8 | Nos | | |
| 51 | Providing & fixing Reducer UPVC 1" inch dia | 8 | Nos | | |
| 52 | Providing & fixing Dead Plug UPVC 1" inch dia | 8 | Nos | | |
| 53 | Providing & fixing Tee UPVC 1" inch dia | 8 | Nos | | |
| 54 | Providing & fixing UPVC pipe 1" inch dia | 40 | Rft | | |
| 55 | Providing & fixing Bush UPVC 1/2"x3/4" dia | 8 | Nos | | |
| 56 | Providing & fixing 4" dia UPVC handle valve | 4 | Nos | | |
| 57 | Providing & fixing 21/2" Motor coupling pulley set | 1 | Set | | |
| 58 | Providing & fixing 21/2" Rubber coupling set | 2 | Nos | | |
| 59 | Providing & fixing Elbow 4" dia UPVC | 4 | Nos | | |
| 60 | Providing & fixing Union 4" dia UPVC | 4 | Nos | | |
| 61 | Providing & fixing Socket 4" dia UPVC | 4 | Nos | | |
| 62 | Providing & fixing Reducer 4" dia UPVC 4"x3" | 4 | Nos | | |

| S.No. | Description of Work | Qty | Unit | Rate in (Rs.) | Total Amount in (Rs.) |
|-------|--|-----|-------|---------------|-----------------------------|
| 63 | Providing & fixing Dead plug 4" dia UPVC | 4 | Nos | | |
| 64 | Providing & fixing Tee 4" dia UPVC | 4 | Nos | | |
| 65 | Providing & fixing bush 4" dia UPVC 4"x3" | 4 | Nos | | |
| 66 | Cotton Rags for Cleaning of Generators | 100 | Kgs | | |
| 67 | Repair / Maintenance of portable copper winding Battery charger, 30 Amp | 1 | Job | | |
| 68 | Providing & Fixing 06 PLY Tyre with tube 6.00-16 SL (General tyre or equivalent make) | 4 | Nos | | |
| 69 | Providing & Fixing tube 6.00-16 SL General or equivalent make | 4 | Nos | | |
| 70 | Providing & Fixing selector switch 0-0123 4 Ampere Meter | 2 | Jobs | | |
| 71 | Provide & Fixing of Timer (24V) | 3 | Nos | | |
| 72 | Provide & Fixing of Emergency Push Button | 2 | Nos | | |
| 73 | Provide & Fixing of Static 24V Battery Charger 5 Amp with warranty for H.T/L.T Generator | 4 | Nos | | |
| 74 | Replacement of Canopy Roof including painting for L.T Generator complete in all respect. | 1 | Job | | |
| 75 | Providing & fixing of Control Relay Bosch 5-pin, 24v | 4 | Nos | | |
| 76 | Electric Compressor servicing including replacement of Air Filter, Oil filter, Engine Oil & Leakage Testing. | 1 | Job | | |
| 77 | Cleaning & servicing of Air compressor Tanks & leakage testing. | 1 | Job | | |
| 78 | Painting of Air compressor Tanks with accessories | 1 | Job | | |
| 79 | Painting of Electric compressor with accessories | 1 | Job | | |
| 80 | Diesel Engine Air compressor servicing including replacement of Air filter, Fuel filter, Oil filter, Engine Oil & leakage testing. | 1 | Job | | |
| 81 | Painting of Diesel Engine Air compressor with all accessories | 1 | Job | | |
| 82 | Cleaning & service & greasing of Hoist 3 M.Tons Block of 1250 KVA DG set | 1 | Job | | |
| 83 | Cleaning & servicing & greasing of Hoist 02 M.Tons Block of 1000 KVA DG set | 1 | Job | | |
| 84 | Providing & fixing Shilling wire of Hoist | 15 | R.M | | |
| 85 | Providing & fixing Conduit pipe ½" dia | 20 | RM | | |
| 86 | Providing & fixing Hose Pipe 2½" dia radiator Bottom side to Engine side | 2 | 1 set | | |
| 87 | Providing & fixing V-Belt B-38 | 4 | Nos | | |
| 88 | Providing & fixing V-Belt C-48 | 4 | Nos | | |
| 89 | Providing & fixing Belt-178438 | 4 | Nos | | |
| 90 | Providing & fixing PVC Tape Red / Yellow / Blue / Black | 20 | Nos | | |

| S.No. | Description of Work | Qty | Unit | Rate in (Rs.) | Total Amount in (Rs.) |
|-------|---|-----|------|---------------|-----------------------------|
| 91 | Providing & fixing cable Tie 8" | 5 | Pkts | | , |
| 92 | Providing & fixing Battery Terminal lead 70mm single core | 30 | Rft | | |
| 93 | Providing & fixing Battery Terminal lead 35mm single core | 40 | Rft | | |
| 94 | Providing & fixing Cap of Engine Oil Chamber | 4 | Nos | | |
| 95 | Providing & fixing Hose pipe 2½" dia Radiator (delivery side) | 8 | Jobs | | |
| 96 | Providing & fixing Oil cooler water pipe 1" dia | 8 | Jobs | | |
| 97 | Providing & fixing Oil cooler Water pipe 1½" dia connect to Engine | 8 | Jobs | | |
| 98 | Providing & fixing Flexible pipe injector to Diesel Tank return pipe as per sample | 20 | Rft | | |
| 99 | Providing & fixing Providing & Fixing Indication Light (Red, Green, Blue) | 15 | Nos | | |
| 100 | Providing & fixing Hydraulic pipe ½" dia diesel filter to Injector | 2 | Jobs | | |
| 101 | Providing & fixing Bearing 6212 A-2Z (SKF or equivalent make) | 4 | Nos | | |
| 102 | Providing & fixing Bearing 208003 | 4 | Nos | | |
| 103 | Providing & fixing On /Off switch Rotary type | 2 | Nos | | |
| 104 | Providing & fixing 1 HP Electrical Motor Re-winding with copper wire including opening & re-fixing | 1 | Job | | |
| 105 | Providing & fixing 1 HP Mono Block (Siemens or equivalent make) | 1 | No | | |
| 106 | Fuel Tank Cleaning & washing, Complete in all respect | 1 | Job | | |
| 107 | Puncture repair of Tyre including opening & re-fixing | 10 | Jobs | | |
| 108 | Providing of Air Gun for air pressure pipe | 1 | No | | |
| 109 | Servicing / over hauling of VCB panel including mechanism VCB bottle, insulators etc complete in all respect. | 1 | Job | | |
| 110 | Painting of Diesel Day Tank for H.T Generator including Girding, Brushing, Cleaning & scraping with one coat red oxide two coat ICI / Berger oil paint complete in all respect. | 1 | Job | | |
| 111 | Providing the High pressure Exhaust Fan, 3000rpm, 3 feet | 1 | No | | |
| 112 | Providing the Tyre pressure induction pump | 1 | No | | |
| 113 | Providing the battery load Testing Meter | 1 | Job | | |
| 114 | Providing the HZ Checking Manual Meter | 1 | Job | | |
| 115 | Providing the karcher machine | 1 | No | | |
| 116 | Providing Battery electrolyte level tester | 1 | No | | |
| 117 | Providing Blower high pressure | 1 | No | | |

| S.No | Description of Work | QTY | Unit | Rate in (Rs.) | Total Amount in (Rs.) |
|------|--|-----|------|---------------|-----------------------------|
| 118 | Provide the Battery Acid 1250 gravity | 100 | Ltrs | | |
| 119 | Repair/Maintenance of 1HP existing Electric Motor / Mono block pump set including servicing, Greasing removing & re- fixing complete in all respect. | 1 | Job | | |
| 120 | Replacement Bearing of existing Electric Motor 1HP including removing & re-fixing etc complete in all respect. | 1 | Job | | |
| 121 | Replacement of existing 1HP pump Bearing including disconnection removing, re-fixing complete in all respect | 1 | Job | | |
| 122 | Replacement of 1HP existing pump Impeller including removing and re-fixing complete in all respect. | 1 | Job | | |
| 123 | Replacement of Pump & 1HP Motor coupling pulley set 2BM including removing and re-fixing complete in all respect. | 1 | Job | | |
| 124 | Replacement of Brass bush of Pumps including removing and re-fixing complete in all respect. | 1 | Job | | |
| 125 | Replacement of existing 1HP pump oil seal including removing and re-fixing etc, complete in all respect. | 1 | Job | | |
| 126 | Replacement of 1HP Motor fan including removing, re-fixing etc complete in all respect. | 1 | Job | | |
| 127 | Repair & Maintenance of Control wiring of electric panel for L.T Generator at IOCB including servicing with material and testing, complete in all respect. | 2 | Jobs | | |
| 128 | Replacement of packing sheet of 1HP pumps including removing and re-fixing etc complete in all respect. | 1 | Job | | |
| 129 | Replacement of 1HP pump shaft S.S including removing and refixing testing of Pump complete in all respect | 1 | Job | | |
| 130 | Gland cup of Pump, including Nuts / Bolts, packing removing & re-fixing complete in all respect. | 1 | Job | | |
| 131 | Repair steel foundation of pump & 1HP motor with MS Chaquared plate, Breaket with rawal bolt fixing in wall complete in all | 1 | Job | | |
| 132 | Replacement of 1HP Electric Motor shaft including removing and re-fixing complete in all respect | 1 | Job | | |
| 133 | Repair / Maintenance Trolly wheels etc with welding work complete in all respect | 1 | Job | | |
| 134 | Supply of HSD oil for HT/LT Standby Diesel Generating Sets at sites i.e. PQA site & PQA House Gizri DHA or any other premises on emergency basis. | 1 | Ltr | | |
| 135 | Fuel Solenoid Switch 24v DC for H.T Generator Set | 1 | Job | | |
| 136 | Fuel Solenoid Switch 24v DC for L.T Generator Set | 1 | Job | | |
| 137 | Self Starter Solenoid 24v DC for H.T / L.T Generator Set | 2 | Jobs | | |
| 138 | Providing & Fixing Exhaust line bellow for H.T Generator Set | 1 | Job | | |

| S.No | Description of Work | QTY | Unit | Rate in (Rs.) | Total Amount in (Rs.) |
|------|---|-----|------|---------------|-----------------------------|
| 139 | Providing & Fixing Exhaust line bellow for L.T Generator Set | 1 | Job | | |
| 140 | Providing & Fixing Exhaust Unit bellow for H.T Generator Set | 1 | Job | | |
| 141 | Providing & Fixing Exhaust Unit below for L.T Generator Set | 1 | Job | | |
| 142 | Providing & fixing of Thermostat for H.T Generator | 1 | Job | | |
| 143 | Servicing and rewarnish of H.T Generator's Alternator with assembling & disassembling including transportation & repair charges, complete in all respect. | 1 | Job | | |
| 144 | Providing & fixing of Current Transfer (C.T) for H.T Generator | 1 | Job | | |
| 145 | Providing & fixing of self starter for H.T Generator | 1 | Job | | |
| 146 | Providing and fixing of Silencer for H.T Generator, complete in all respect | 1 | Job | | |
| 147 | Servicing / Repairing & pressure testing of Oil cooler for H.T Generator | 1 | Job | | |
| 148 | Repairing & Servicing of DC Charger for H.T Generator | 1 | Job | | |
| 149 | Servicing of Radiator for H.T Generator including cleaning of tubes along with top & Bottom dismantling & refitting complete in all respect | 1 | Job | | |
| 150 | Providing & fixing of Engine Dynamo Belt for H.T Generator | 1 | Job | | |
| 151 | Providing & fixing of PMG Coupling for H.T Generator complete in all respect | 1 | Set | | |
| 152 | Providing & fixing of MPU for H.T Generator | 1 | Job | | |
| 153 | Providing & fixing of AVR for H.T Generator (STANFORD or equivalent make) | 1 | Job | | |
| 154 | Providing & fixing engine controller module, Deep sea-DSE-7320 for H.T Generator | 1 | Job | | |
| 155 | Providing & fixing of Diode set for H.T Generator | 1 | Job | | |
| 156 | Heat resistance painting of engine & all accessories for H.T Generator | 1 | Job | | |
| 157 | Providing and fixing Auxiliary Contactor 110VAC (LOVATO) for H.T Generator | 1 | No | | |
| 158 | Providing and fixing Auxiliary Contactor 24VDC (LOVATO) for H.T Generator | 1 | No | | |
| 159 | Renewal of control wiring of H.T Panel including material & complete in all respect | 1 | Job | | |
| 160 | Providing & fixing of Rubber Foundation for Engine for L.T Generator | 6 | Jobs | | |
| 161 | Providing & fixing of Rubber Foundation for panel for L.T Generator | 4 | Jobs | | |

| S.No | Description of Work | QTY | Unit | Rate in (Rs.) | Total Amount in (Rs.) |
|------|---|-----|------|---------------|-----------------------------|
| 162 | Providing & fixing of Flexible Pipe for Silencer for L.T Generator | 1 | Job | | |
| 163 | Repair & Maintenance of Radiator Fan for L.T Generator | 1 | Job | | |
| 164 | Servicing and rewarnish of L.T Generator's Alternator with disassembling & assembling & including transportation & repair charges, complete in all respect. | 1 | Job | | |
| 165 | Providing & fixing of Current Transfer (C.T) for L.T Generator | 3 | Jobs | | |
| 166 | Providing and fixing of self starter for L.T Generator | 2 | Jobs | | |
| 167 | Servicing & Repairing of DC Charger for L.T Generator | 3 | Jobs | | |
| 168 | Repairing & Servicing of Turbo charger for L.T Generator. | 2 | Jobs | | |
| 169 | Servicing of Radiator for L .T Generator including cleaning of tubes along with top & Bottom dismantling & refitting complete in all respect | 1 | Job | | |
| 170 | Servicing of Turbo charger for L.T Generator. | 1 | Job | | |
| 171 | Providing & fixing of engine controller module, Deep sea-DSE-6120 for L.T Generator. | 2 | Jobs | | |
| 172 | Providing & Fixing of Diode Set for L.T Generator | 3 | Jobs | | |
| 173 | Providing & fixing of AVR for L.T generator (Stanford or equivalent make) | 2 | Jobs | | |
| 174 | Heat resistance painting of engine for L.T generator & all accessories | 2 | Jobs | | |
| 175 | Replacement of DC Charger for L.T Generator | 2 | Jobs | | |
| 176 | Providing & fixing of Exhaust Manifold Gas kit for L.T Generator | 2 | Jobs | | |
| 177 | Providing & fixing of Turbo Charger Gas Kit for L.T Generator | 2 | Jobs | | |
| 178 | Providing & fixing of Volt Meter 24V for L.T Generator | 2 | Jobs | | |
| 179 | Providing & fixing of Fuel Level Gauge for L.T Generator | 2 | Jobs | | |
| 180 | Providing & fixing of Radiator Hose pipe with Jubilee clamps for L.T Generator | 2 | Jobs | | |
| 181 | Providing and fixing of Fan Belt-A type quality for L.T Generator. | 3 | Jobs | | |
| 182 | Providing & Fixing of Breather Pipe for L.T Generator | 2 | Jobs | | |
| 183 | Providing & Fixing of Exhaust Silencer Lapping for L.T Generator | 2 | Jobs | | |
| 184 | Providing & fixing of Gasket for Tappet Covers for L.T Generator | 2 | Jobs | | |
| 185 | Providing & fixing of Seal For Oil Cooler Pipe for H.T Generator | 2 | Jobs | | |
| 186 | Providing & Fixing of fan pulley for L.T Generator | 2 | Jobs | | |
| | | | | 1 | 87 |

| S.No. | Description of Work | Qty | Unit | Rate in (Rs.) | Total Amount in (Rs.) |
|-------|--|-----|------|---------------|-----------------------------|
| 187 | Repairing of axle stud & wheel for L.T Generator | 2 | Jobs | | |
| 188 | Repair & Maintenance of Radiator for L.T DG Set including dismantling & re-fixing, complete in all respect | 2 | Jobs | | |
| 189 | Repair / Maintenance & Denting / Painting of 04 Nos wheel guard for L.T Generator. | 1 | Job | | |
| 190 | Providing & fixing of tyre with tube 6.50-14 for L.T Generator (General or equivalent make) | 4 | Nos | | |
| 191 | Providing & fixing tube of tyre 6.50-14 for L.T Generator (General or Equivalent make) | 8 | Nos | | |
| 192 | Repair Maintenance and denting / painting of Canopy including inside & outside of L.T Generator | 1 | Job | | |
| 193 | Providing & fixing of Contract Relay with Base for L.T Generator | 6 | Jobs | | |
| 194 | Providing and fixing of Ampere Meter 4x4 size for L.T Generator | 1 | Job | | |
| 195 | Providing and fixing of Water Body for L.T Generator | 1 | Job | | |
| 196 | Repair Maintenance of Battery Pole | 1 | Job | | |

| (B) Estimated Cost of Spare | Parts | | =Rs |
|---|------------|-----|--------|
| (A) Estimated Cost of BOQ | | (+) | =Rs |
| Total Estimated Cost of A-Inclusive all taxes i.e Incor | | | =Rs |
| Total Value of BOQ | | | =Rs |
| Total Value of BOQ in Wor | ds (Rupees | | |
| | | | only). |