

**Punjab Industrial Estates Development and Management Company**

Head Office: Commercial Area North, Sundar Industrial Estate,  
Sundar Raiwind Road, Lahore

City Office: 3<sup>rd</sup> Floor, One Window Service Center  
Adjacent to BOM Office Quaid-e-Azam Industrial Estate  
Kot Lakhpat, Lahore

## **TENDER DOCUMENTS**

### **TORs / INSTRUCTIONS TO BIDDERS**

#### **GENERAL INFORMATION**

**Services/Work Description:** Geo-Technical Investigation

**Project/Program Title:** Construction of 220 KV Grid Station in Sundar Industrial Estate

**Type of the Contract:** National Bidding

**Bid Validity Period** 60 days

**Expected Start Date:** Immediately after concluding the contract agreement

**Execution Agency** Punjab Industrial Estates Development and Management Company  
(PIEDMC), Commercial Area North, Sundar Industrial Estate,  
Sundar Raiwind Road, Lahore

**Method of Procurement** Single Stage One Envelop Procedure as per PPRA Punjab Rules-2014

## I. BACKGROUND / RATIONALE

The project site is situated in Sundar Industrial Estate on Sundar Raiwind Road Lahore. PIEDMC intends to hire the services of a Firm to carry out the Geotechnical Investigation for above said Project

## II. SCOPE OF THE SERVICE / WORK

The Soil Investigation companies/ Laboratories shall be responsible for carrying out the Soil Bearing Capacity of 132/220 KV Grid Station site as per locations marked on GLO plan, to be provided by Manager (Civil) – NTDC.

All necessary tests including following tests/analysis for **Seven (07) Bore holes** (as per GLO and coordinates) should be carried out and submit comprehensive geotechnical investigation report enclosed with Google image of bore holes plan with coordinates mentioned on Google image and on bore logs to this office

1. SPTs at 1 m interval up to end of bore hole.
2. Soil investigation (USCS) with percentage of gravel, sand silt and clay at different depths.
3. Safe Soil Bearing capacity Curves (Settlement & shear basis) particularly at 1, 2,3,4 & 5 m depth against different pad sizes (1,2, 3, 4,5 6, 7, 8 & 9 m width) at each depth.
4. Shear capacity vs foundation Pad width (1,2, 3, 4,5 6, 7, 8 & 9 m) and settlement (25mm) vs foundation Pad width (1,2, 3, 4,5 6, 7, 8 & 9 m) curve at 1, 2, 3, 4 and 5m depth
5. Unconfined compression test.
6. Values of density (Y), angle of internal friction ( $\phi$ ), co-efficient of volume change (mv), Natural Moisture Content (NMC%), Liquid Limit (L.L.), Plastic Limit (P.L.) and Plasticity Index (P.I.) at 2, 3, 4 and 5 m depth and 5 m interval for continuation of same soil layer upto entire depth of bore hole. If different layers of soil encountered in given bore hole then quote all above mentioned value for each layer.
7. Where rock is encountered in bore hole, perform un-confined compression test / one point load test.
8. Chemical Analysis with permissible limits defined.
9. Generalized Subsurface Geotechnical Models with tables showing soil characteristics for each tower location.
10. Capacity Curves at 2, 3, 4 & 5 m depths and Allowable Load vs foundation width (1,2, 3, 4,5 6, 7, 8 & 9 m) for different Models.
11. Pile Capacity Curves against Compression, Tension and lateral loads for all bore holes along full depth, at 1 m interval, should be included in soil investigation report.
12. General Recommendations for foundation types and types of cement for foundation work

The BOQ for soil investigation is attached at Annexure-I.

## III. EXPECTED OUTPUTS / DELIVERABLES

| No. | Deliverables / Outputs  | Estimated Duration to Complete |
|-----|---|--------------------------------|
| 1.  | Time for completion of Field Investigation                                    | 01 weeks                       |
| 2.  | Time for completion of Laboratory Investigation                               | 02 Weeks                       |
| 3.  | Total Time for completion of Field and Laboratory work including mobilization | 03 Weeks                       |

#### IV. PAYMENT MILESTONES:

| Installment of Payment/ Period | Deliverables or Documents to be Delivered                   | Percentage of Payment |
|--------------------------------|---|-----------------------|
| 1 <sup>st</sup> Installment    | Submission of Draft Geo Technical Investigation Report      | 70%                   |
| 2 <sup>nd</sup> Installment    | Upon Submission of Final Geo-Technical Investigation report | 30%                   |

#### V. MINIMUM REQUIREMENTS

The firm must meet following minimum requirements without which their bid will be rejected

- The bidder should have valid registration with Pakistan Engineering Council (PEC) in soil investigation work.
- The bidder should have a sound experience of having worked on similar assignments. Copies of Completion / Performance certificates for at least five (05) assignments should be attached with the bid.
- Bids / Proposals must be accompanied with Bid Security of Rs. 15,000/- (Rupees Fifteen Thousand Only) in the shape of CDR / Demand Draft / Pay Order in favour of PIEDMC
- The firm must be registered with concerned Tax Authorities (Income tax and sales tax) and Registration certificates must be attached..

#### VI. BID Validity

- Bids shall remain valid for a period of ninety (90) days after opening of Bid on the date prescribed by the Procuring Agency. A bid valid for a shorter period shall be rejected by the Procuring Agency as non-responsive.
- The Tendering Agency shall ordinarily be under an obligation to process and evaluate the bid within the stipulated bid validity. However, under exceptional circumstances and for reasons to be recorded in writing, if an extension is considered necessary, all those who have submitted their bids shall be asked to extend their respective bid validity period. Such extension shall be for not more than the period equal to the period of the original bid validity.
- Bidders who,
  - agree to the Procuring Agency's request for extension of bid validity period shall not be permitted to change the substance of their bids; and
  - Do not agree to an extension of the bid validity period shall be allowed to withdraw their bids, if any.

## **VII. BID WILL BE REJECTED IF;**

- It does not meet the requirements given at para V above.
- It is received after the time and date fixed for its receipt
- The tender is unsigned
- The offer is ambiguous
- The bid is incomplete not covering the whole scope
- The offer is conditional
- The offer is from a firm black-listed or suspended by any Govt./semi Govt./ autonomous organization.
- The offer is received by telegram / fax / email.
- Offer received with shorter validity than required in tender enquiry

## **VIII. AFFIDEVIT FOR NON-BLACK LISTING**

The Applicant shall submit an affidavit on stamp paper duly attested by Oath Commissioner that they have never been black listed from any Govt. / Semi Govt. / Public Sector / Private Sector Organization.

## **IX. OTHER TERMS AND CONDITIONS**

- Bidders are advised to visit the sites at their own cost to determine the scope of work, prior to the submission of bids.
- The bids shall be priced in Pak Rupees inclusive of all applicable taxes and complete in all respect and all payments shall be made in the same currency through Cheques in favour of successful bidder as per payment schedule.
- On constitute of event of default, the company / person will be blacklisted from PIEDMC and his / her name will be circulated in all Govt. Departments. If at any stage it will found that the Firm is black listed from any Government agency, the award letter will stand cancelled.

## **X. DATE, TIME AND VENUE FOR BID SUBMISSION AND OPENING**

Bids / Proposals must reach to the

**City Office PIEDMC  
3rd Floor, One Window Service Center  
Adjacent to BOM Office Quaid-e-Azam Industrial Estate,  
Kot Lakhpat, Lahore**

up to **21<sup>st</sup> April 2020 by 1500 hours**. The bids shall be opened on the same day at 1530 hours in Board Room of PIEDMC's City Office in the presence of bidders or their authorized representative who choose to be present.

## **XI. BID SECURITY**

Bids / Proposals must be accompanied with Bid Security of Rs. 15,000/- (Rupees Fifteen Thousand Only) in the shape of CDR / Demand Draft / Pay Order from a Scheduled Bank in Pakistan in favour of PIEDMC

If you have any query or you intend to peruse the terms and conditions, please contact **Mr. Ahmad Ali, Manager Contracts, PIEDMC on cell No.0320-0840678 or through email ahmad.ali @pie.com.pk**

Tender document can be downloaded from PIEDMC website [www.pie.com.pk](http://www.pie.com.pk) and PPRA websites [www.ppra.punjab.gov.pk](http://www.ppra.punjab.gov.pk)

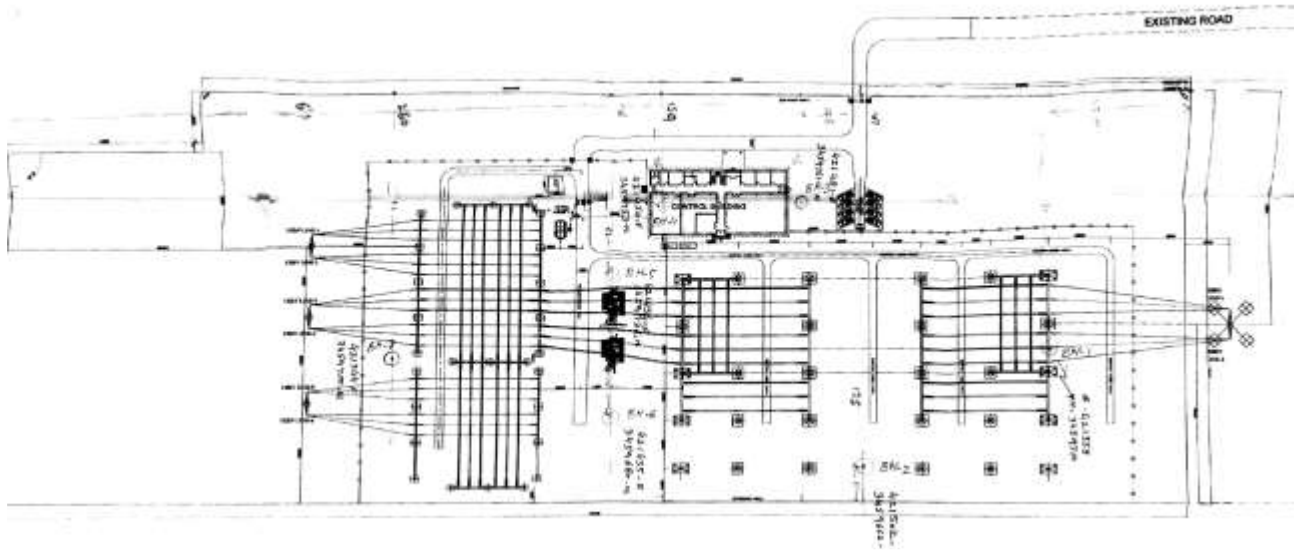
PIEDMC has the right to accept or reject all bids/proposals at any time prior to the acceptance of a bid or proposal as per PPRA Punjab Rules.

All sealed bids / tender documents should be addressed to

**General Manager (Planning and Contracts)**  
**City Office PIEDMC, 3rd Floor, One Window Operation Center,**  
**Adjacent to BOM Office Quaid-e-Azam Industrial Estate,**  
**Kot Lakhpat, Lahore**

**COORDINATES FOR BOREHOLES LOCATIONS AND G.L.O. PLAN**

| Bore Hole No. | Bore Hole Depth (m) | Northing (m) | Easting (m) |
|---------------|---------------------|--------------|-------------|
| BH-01         | 20                  | 3459700      | 421558      |
| BH-02         | 15                  | 3459662      | 421502      |
| BH-03         | 20                  | 3459751      | 421481      |
| BH-04         | 20                  | 3459753      | 421450      |
| BH-05         | 20                  | 3459726      | 421434      |
| BH-06         | 15                  | 3459680      | 421435      |
| BH-07         | 20                  | 3459700      | 421344      |



## LOCATION PLAN OF SITE FOR GRID STATION



## BID SUBMISSION FORM

[Location, Date]

To:

General Manager (Planning and Contracts)  
City Office PIEDMC, 3rd Floor, One Window Operation Center, Adjacent  
to BOM Office Quaid-e-Azam Industrial Estate,  
Kot Lakhpat, Lahore

Dear Sirs:

We, the undersigned, offer to provide the Geo Technical Investigation services for [*Insert title of assignment*] in accordance with your Request for Proposal dated [*Insert Date*] and our Proposal. We are hereby submitting our Proposal, which includes this Technical Proposal, and a Financial Proposal sealed<sup>1</sup> under a separate envelope.

We hereby declare that all the information and statements made in this Proposal are true and accept that any misinterpretation contained in it may lead to our disqualification.

If negotiations are held during the period of validity of the Proposal, we undertake to negotiate on the basis of the proposed personnel. Our Proposal is binding upon us and subject to the modifications resulting from Contract negotiations.

We undertake, if our Proposal is accepted, to initiate the services related to the assignment not later than the date indicated in the tender document.

We understand you are not bound to accept any Proposal you receive.

We remain,

Yours sincerely,

Authorized Signature [*In full and initials*]: \_\_\_\_\_

Name and Title of Signatory: \_\_\_\_\_

Name of Firm: \_\_\_\_\_

Address: \_\_\_\_\_

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<sup>1</sup> If FBS, LCS or QCBS.

**ANNXURE-I**

**GEOTECHNICAL INVESTIGATIONS FOR 132/220 KV GRID STATION  
IN SUNDAR INDUSTRIAL ESTATE**

**BILL OF QUANTITIES**

| <b>S, No,</b> | <b>Description</b>  | <b>Amount (Pak Rupees)</b> |
|---------------|---|----------------------------|
| 1             | Lump Sum fee for carrying out Geotechnical Investigations as per scope of services given in the para II of Bidding documents inclusive of all applicable Federal, Provincial, and PRA Taxes |                            |





