Standard Bidding Document

GEOTECHNICAL INVESTIGATIONS - CONSULTANCY SERVICES FOR DESIGNING, PROCUREMENT AND DETAILED SUPERVISION OF INFRASTRUCTURE DEVELOPMENT WORKS OF SECTOR F-12, ISLAMABAD

(Works)

National

Single Stage-One Envelope



October 30, 2026

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REQUEST FOR BIDS

PROCUREMENT OF CIVIL WORKS

1. The **NESPAK (GT&GED)** has reserved Funds for the procurement planned for FY **2026-27**. The **NESPAK (GT&GED)** intends to apply part of the proceeds of this Fund to cover eligible payments under the contract for the " **GEOTECHNICAL INVESTIGATIONS - CONSULTANCY SERVICES FOR DESIGNING, PROCUREMENT AND DETAILED SUPERVISION OF INFRASTRUCTURE DEVELOPMENT WORKS OF SECTOR F-12, ISLAMABAD**" with the reference of "**P179079**".

2. The **NESPAK (GT&GED)** invites sealed Bids from eligible Bidders for procurement of Works **(GEOTECHNICAL INVESTIGATIONS - CONSULTANCY SERVICES FOR DESIGNING, PROCUREMENT AND DETAILED SUPERVISION OF INFRASTRUCTURE DEVELOPMENT WORKS OF SECTOR F-12, ISLAMABAD)** described in the bidding documents on **EPADS v2.0**.

3. **Single Stage-One Envelope** will be used by adopting **Least Cost Based Selection (LCBS)** Technique for the subject procurement, in line with the Public Procurement Rules, 2004 and any Regulations, Regulatory Guides, Procurement Guidelines or Instructions issued by the Authority from time to time.

4. All Bids must be accompanied by a Bid Security amount described in Bid Security Section in Bidding Document in the form of **Bid Security Not Applicable**. Or all bids must be accompanied by bid securing declaration in the format specified in the Bidding documents

5. E-Bidding documents, containing detailed terms & conditions, specifications and requirements etc. are available on **e-Pak Acquisition and Disposal System (EPADS)** at **https://epads.gov.pk/opportunities/federal/procurements/179079** for all the interested bidders registered on **EPADS v2.0**. Bidders are required to get themselves registered on **EPADS v2.0** to participate in Bidding process.

6. The e-bids, prepared in accordance with the instructions in the e-Bidding documents, must be submitted through **EPADS v2.0** on or before **Thursday, November 5, 2026 11:00 AM**. E-bids will be opened by using **EPADS v2.0** on the same day at **Thursday, November 5, 2026 11:30 AM**. Manual submission of Bids shall not be entertained. Those vendor who have not yet registered on the new version of **EPADS v2.0**, may register themselves on **https://vendors.epads.gov.pk/**. A tutorial to explain the registeration process is available at **https://www.youtube.com/watch?v=MNW6T38v7tc.**

In terms of Rules 48 of Public Procurement Rules, 2004 Grievance Redressal Committee (GRC) is notified for the subject procurement and notification copy is available on the procuring agency's website and on Authority's website at (**www.ppra.org.pk**).

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Instructions to Bidders

A. INTRODUCTION

1. **Scope of Bid**

1.1. The Procuring agency/Employer (PA), as indicated in the Bid Data Sheet (BDS) invites Bids for the execution of Works as specified in the BDS and Section V- Works Requirements. The name, identification, and number of lots (contracts) of this National/ International Competitive Bidding process are specified in the BDS.

2. **Source of Funds**

2.1. Source of funds as referred in Clause 2 of Bid Data Sheet.

3. **Eligible Bidders**

3.1. A bidder may be natural person, company or firm or public or semi-public agency of Pakistan or any foreign country, or any combination of them with a formal existing agreement (on Judicial Papers) in the form of a joint venture or consortium. In the case of a joint venture or consortium, all members shall be jointly and severally liable for the execution of the Contract in accordance with the terms and conditions of the Contract. The joint venture or consortium shall nominate a Lead Member as nominated in the BDS, who shall have the authority to conduct all business for and on behalf of any and all the members of the joint venture or consortium during the Bidding process, and in case of award of contract, during the execution of contract. Verifiable copy of the agreement that forms a joint venture, consortium or association shall be required to be submitted as part of the Bid.

Any bid submitted by the joint venture, consortium or association shall indicate the part of proposed contract to be performed by each party and each party shall be evaluated (or post qualified if required) with respect to its contribution only, and the responsibilities of each party shall not be substantially altered without prior written approval of the Procuring Agency and in line with any instructions issued by the Authority.

(The limit on the number of members of JV or Consortium may be prescribed

in BDS, in accordance with the guidelines issued by the PPRA).

3.2. The invitation for bids is open to all prospective bidders subject to any provisions of incorporation or licensing by the respective national/ international incorporating agency or statutory body established for that particular trade or business. Procuring agencies shall specify the registration/licensing requirements for the foreign bidder keeping in view the requirement of that business.

3.3. A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidders may be considered to have a conflict of interest with one or more parties in this Bidding process, if they:

3.3.1. are associated or have been associated in the past, directly or indirectly with a firm or any of its affiliates which have been engaged by the Procuring agency/Employer to provide consulting services for the preparation of design or technical specifications of the works that are the subject of the bid; or

3.3.2. have controlling shareholders in common; or

3.3.3. receive or have received any direct or indirect subsidy from any of them; or

3.3.4. have the same legal representative for purposes of this Bid; or

3.3.5. have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another bidder, or influence the decisions of the Procuring agency/Employer regarding this Bidding process; or

3.3.6. Submit more than one bid in this bidding process.

3.4. A Bidder may be ineligible if –

3.4.1. he is declared bankrupt or, in the case of company or firm, insolvent;

3.4.2. payments in favor of the bidder is suspended in accordance with the judgment of a court of law other than a judgment declaring bankruptcy and resulting (in accordance with the national laws) in the total or partial loss of the right to administer and dispose of its property;

3.4.3. the bidder is convicted, by a final judgment of a Court of Law or relevant Professional Statuary Body, of any offence involving professional conduct;

3.4.4. The bidder is debarred/ blacklisted by a national level Procuring agency/Employer and hence debarred due to involvement in corrupt and fraudulent practices, or performance failure or due to breach of bid securing declaration.

3.5. As and when required, bidders shall provide to the Procuring agency/Employer evidence of their eligibility, proof of compliance with the necessary legal requirements to carry out the contract effectively.

3.6. Bidders shall submit proposal relating to the nature, conditions and modalities of sub-contracting wherever the sub-contracting of any elements of the contract is envisaged.

4. **Eligible Material and Equipment**

4.1. All the material and equipment to be mobilized under the contract shall have their origin in eligible source countries, and all expenditures made under the contract will be limited to such materials and equipment. For this purpose, ineligible countries are stated in the section-IV titled as “Eligible Countries”.

B. BIDDING DOCUMENTS

5. **Contents of Bidding Documents**

5.1. The scope of Works, bidding procedures, and terms and conditions of the contract are prescribed in the bidding documents. In addition to the Invitation for Bids, the bidding documents which should be read in

conjunction with any addenda issued in accordance with ITB 7.1 include:

Section I -Invitation for Bids

Section II Instructions to Bidders (ITBs)

Section III Bid Data Sheet (BDS)

Section IV Eligible Countries

Section V Evaluation and Qualification Criteria

Section VI Works Requirements Technical Specifications & Schedule of Requirements

Section VII Standard Bidding Forms

Section VIII General Conditions of Contract (GCC)

Section IX Particular Conditions of Contract (PCC)

Section X Contract Forms

5.2. The bidder is expected to examine all instructions, forms, specifications, terms and conditions prescribed in the bidding documents. Failure to furnish all the information required in the bidding documents will be at the bidder's risk and may result in the rejection of his bid.

6. **Clarification of Bidding Document, Pre-bid Meeting**

6.1. A prospective bidder requiring any clarification of the bidding document may notify the Procuring agency/Employer through EPADS.

6.2. The Procuring agency/Employer shall respond to the request for clarification in accordance with Rule 31 of the Public Procurement Rules 2004.

6.3. Should the Procuring Agency deem it necessary to amend the BIDDING document as a result of a clarification, it shall do so following the procedure under ITB 7.

6.4. If indicated in the BDS, the bidder's designated representative is invited at the bidder's cost to attend a pre-bid meeting at the place, date and time mentioned in the BDS. During this pre-bid meeting, prospective bidders may request clarification of the schedule of requirement, the evaluation criteria or any other aspects of the bidding documents.

6.5. Minutes of the pre-bid meeting, if applicable, including the text of the questions asked by bidders, including those during the meeting (without identifying the source) and the responses given, together with any responses prepared after the meeting will be uploaded on EPADS. Any modification to the bidding documents that may become necessary as a result of the pre-bid meeting shall be made by the Procuring agency/Employer exclusively through the use of an Addendum pursuant to ITB 7. Non-attendance at the pre-bid meeting will not be a cause for disqualification of a bidder.

6.6. The bidder is advised to visit and examine the Site of Works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the bidder's own expense.

6.7. The bidder and any of its authorized personnel will be granted permission by the Procuring agency/Employer to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the bidder and its personnel will release and indemnify the Procuring agency/Employer 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 the inspection.

7. **Amendment of Bidding Documents**

7.1. The procuring agency may issue notification of any change, addition, modification or deletion in accordance with Rule 23 of the Public Procurement Rules 2004 i.e. Bidding Documents.

7.2. To give prospective bidders reasonable time in which to take an addendum/corrigendum into account in preparing their bids, the Procuring agency/Employer may, at its discretion, extend the deadline for the submission of bids:

Provided that the Procuring agency/Employer shall extend the deadline for submission of bid in pursuance of Rule 27 of the Public Procurement Rules 2004, i.e. Extension of time for submission of bids, if such an addendum is

issued within last three (03) days of the bid submission deadline.

C. PREPARATION OF BIDS

8. **Language of Bid**

8.1. The bid prepared by the bidder, as well as all correspondence and documents relating to the bid exchanged by the bidder and the Procuring agency/Employer shall be written in the English language unless specified in the BDS. Supporting documents and printed literature furnished by the bidder may be in another language provided they are accompanied by an accurate translation of the relevant pages in the English language unless specified in the BDS, in which case, for purposes of interpretation of the bidder, the translation shall govern.

9. **Documents Constituting the Bids**

9.1. The Bids prepared by the Bidder shall constitute of all the documents required in the BDS.

10. **Documents Establishing Eligibility of Material, Equipment and Works, their Conformity to Bidding Documents**

10.1. The bid prepared by the bidder shall constitute the following components: -

10.1.1. Documentary evidence established in accordance with ITB 10 that the material and equipment to be utilized by the Bidder for the executions of works are eligible material and equipment and conform to the Bidding Documents;

10.1.2. Documentary evidence established in accordance with ITB 11 that the bidder has been authorized to carry out the Construction works;

10.1.3. Documentary evidence established in accordance with ITB 11 that the bidder is eligible and/or qualified for the subject bidding process;

10.1.4. Form of Bid and Bid Prices completed in accordance with ITB 12 and 13;

10.1.5. Completed schedules as required, including priced Bill of Quantities in accordance with ITB 13.

10.1.6. Technical Proposal completed in all aspects in accordance with ITB-15.

10.1.7. Bid security or Bid Securing Declaration furnished in accordance with ITB 17;

10.1.8. Any other document required in the BDS.

10.2. In addition to the requirements, bids submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful bid shall be signed by all members and submitted with the bid, together with a copy of the proposed Agreement.

10.3. The bidder shall furnish, as part of its bid, all those documents establishing the eligibility in conformity to the terms and conditions specified in the bidding documents for all material, equipment and works which the bidder proposes to execute.

10.4. The documentary evidence of conformity of the material, equipment and works to the Bidding Documents may be in the form of literature, drawings, and data, and shall consist of:

10.4.1. a detailed description of the work methodology, approach, schedule and resources to be mobilized at site;

10.4.2. an item-by-item commentary on the Procuring agency/Employer’s Technical Specifications demonstrating substantial responsiveness of the material, equipment and works to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications;

10.4.3. any other procurement specific documentation requirement as stated in the BDS.

10.5. The required documents and other accompanying documents must be in English. In case any other language than English is used the pertinent translation into English shall be attached to the original version.

11. **Documents Establishing Eligibility and Qualification of the Bidder**

11.1. The bidder shall furnish, as part of its bid, all those documents establishing the bidder's eligibility to participate in the bidding process and/or its qualification to perform the contract if its bid is accepted.

11.2. The documentary evidence of the bidder's eligibility to bid shall establish to the satisfaction of the Procuring agency/Employer that the bidder, at the time of submission of its bid, is from an eligible country as defined in Section-IV titled as "Eligible Countries".

11.3. The documentary evidence of the bidder's qualification to perform the contract if its bid is accepted shall establish to the satisfaction of Procuring agency/Employer that:

11.3.1. The bidder has the financial and technical capability necessary to perform the Contract, meets the qualification criteria specified in Section-V, Evaluation and Qualification Criteria and BDS.

11.3.2. In the case of a bidder not doing business within Pakistan, the bidder is or will be (if awarded the contract) represented by a local bidder (Joint Venture) in accordance with the PEC works bylaws, and in case of award of works such foreign firm is required to participate in the execution of works to carry out its obligations as prescribed in the Conditions of Contract and /or Technical Specifications.

11.3.3. That the bidder meets the qualification criteria listed in Section-V, Evaluation and Qualification Criteria and BDS.

12. **Forms of Bid**

12.1. The Bidder shall fill the Form of Bids furnished in the bidding documents. The Bids Form must be completed without any alterations to its format and no substitute shall be accepted.

13. **Bid Prices**

13.1. The bid prices quoted by the bidder in the Standard bid Forms, Bill of Quantities and in the Price Schedules shall conform to the requirements specified below or exclusively mentioned hereafter in the bidding documents.

13.2. The bidder shall fill in rates and prices for all items of the Works described in the Bill of Quantities. If a Price Schedule shows items listed but not priced, their prices shall be construed to be included in the prices of other items in the Bill of Quantities and will not be paid for separately by the Procuring agency/Employer.

13.3. Items not listed in the Price Schedule shall be assumed not to be included in the bid, and provided that the bid is still substantially responsive in their absence or due to their nominal nature, the corresponding average price of the respective item(s) of the remaining substantially responsive bidder(s) shall be construed to be the price of those missing item(s):
Provided that:

13.3.1. where there is only one (substantially) responsive bidder, or

13.3.2. where there is provision for alternate proposals and the respective items are not listed in the other bids,
The Procuring agency/Employer may fix the price of missing items in accordance with market survey, and the same shall be considered as final price.

13.4. The Bid price to be quoted in the Form of Bid in accordance with ITB 12 shall be the total price of the bid.

13.5. Unless otherwise specified in the BDS and the Contract, the rates and prices quoted by the bidder are subject to adjustment during the performance of the Contract in accordance with the provisions of the

Conditions of Contract.

13.6. If so specified in ITB 1.1, bids may be invited for individual lots (contracts) or for any combination of lots (packages).

13.7. Prices quoted by the Bidder shall be fixed during the bidder's performance of the contract and not subject to variation on any account. A bid submitted with an adjustable price will be treated as non-responsive and shall be rejected, pursuant to ITB 27, unless otherwise price adjustment is permissible under Conditions of the Contract.

13.8. All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, as of the date twenty-eight (28) days prior to the deadline for submission of bids, shall be included in the rates and prices and the total bid price submitted by the bidder.

14. **Currencies of Bid and Payment**

14.1. Prices shall be quoted in Pakistani Rupees unless otherwise specified in the BDS. Comparison of bids and tie of bid shall be treated in accordance with the Rule 30(2) of Public Procurement Rules, 2004.

15. **Documents Comprising the Technical Proposal**

15.1. The bidder shall furnish a Technical Proposal including a statement of work methods, equipment, personnel, schedule and any other information as stipulated in Section VII – Standard Bid Forms, in sufficient detail to demonstrate the adequacy of the bidder's proposal to meet the work requirements and the completion time.

16. **Bid Validity Period**

16.1. Bids shall remain valid for the period specified in the BDS after the bid submission deadline prescribed by the Procuring agency/Employer. A bid valid for a shorter period shall be rejected by the Procuring agency/Employer as non-responsive. The period of bid validity will be determined from the complementary bid securing instrument i.e. the expiry period of bid security or bid securing declaration as the case may be.

16.2. Under exceptional circumstances, prior to the expiration of the initial Bids/Bid validity period, the Procuring Agency may request the Bidders' consent to an extension of the period of validity of their Bids/Bid. Such request for extension of the period of bid validity shall be carried out in accordance with Rule 26 of the Public Procurement Rules, 2004.

17. **Bid Security or Bid Securing Declaration**

17.1. Pursuant to ITB 11.1 unless otherwise specified in the BDS, the bidder shall furnish as part of its bid, a Bid Security in accordance with Rule 25 of the Public Procurement Rules, 2004 in the amount and currency specified in the BDS or Bid Securing Declaration as specified in the BDS in the format provided in Section VII (Standard Bidding Forms).

In case Procuring agency/Employer is inviting bids in lots / packages, the bidder shall be required to submit his bid security against the respective lot/ package for which he is submitting his bid.

Until the development of functionality of auto verification of financial instrument in EPADS, the scanned copy of bid security or bid securing declaration, as the case may be, shall be uploaded on E-PADS whereas the original instrument to be submitted to the procuring agency before closing of bid submission deadline,

17.2. The Bid Security shall be denominated in the local currency or in another freely convertible currency, and it shall be in the form specified in the **BDS** which shall be in any of the following:

17.2.1. A bank guarantee, an irrevocable letter of credit issued by a Scheduled bank in the form provided in the Bidding Documents or another form acceptable to the Procuring agency/Employer and valid for twenty-eight (28) days beyond the end of the validity of the Bid. This shall also apply if the period for Bid Validity is extended. In either case, the form must include the complete name of the bidder;

17.2.2. A cashier's or certified cheque; or

17.2.3. Another security as indicated in the **BDS**.

17.3. The Bid Security or Bid Securing Declaration shall be in accordance with the Form of the Bid Security or Bid Securing Declaration included in Section VII (Standard Bidding Forms) or another form approved by the Procuring agency/Employer prior to the bid submission.

17.4. The Bid Security shall be payable promptly upon written demand by the Procuring agency/Employer in case any of the conditions listed in ITB 17.9 are invoked.

17.5. Any bid not accompanied by a Bid Security or Bid Securing Declaration in accordance with ITB 17.1 or 17.3 shall be rejected by the Procuring agency/Employer and shall be declared as non-responsive bid, pursuant to ITB 27.

17.6. Unsuccessful bidders' Bid Security will be discharged or returned as promptly as possible, however in no case later than thirty (30) days after the expiration of the period of Bid Validity prescribed by the Procuring agency/Employer pursuant to ITB 16. The Procuring agency/Employer shall make no claim to the amount of the Bid Security, and shall promptly return the Bid Security document, after whichever of the following that occurs earliest:

17.6.1. The expiry of the Bid Security;

17.6.2. The entry into force of a procurement contract and the provision of a performance security (or guarantee), for the performance of the contract if such a security (or guarantee), is required by the Biding documents;

17.6.3. The rejection by the Procuring agency/Employer of all Bids;

17.6.4. The withdrawal of the bid prior to the deadline for the submission of bids, unless the biding documents stipulate that no such withdrawal is permitted.

17.7. The successful bidder's Bid Security will be discharged upon the bidder signing the contract pursuant to ITB 40, or furnishing the performance security (or guarantee), pursuant to ITB 41.

17.8. The Bid Security may be forfeited or the Bid Securing Declaration executed:

17.8.1. if a Bidder:

17.8.1.1. Withdraws its Bid during the period of Bid Validity as specified by the Procuring agency/Employer, and referred by the bidder on the Form of Bid except as provided for in ITB 16.2; or

17.8.2. In the case of a successful bidder, if the bidder fails:

17.8.2.1. to sign the contract in accordance with ITB 40; or

17.8.2.2. to furnish performance security (or guarantee) in accordance with ITB 41.

17.9. In case of Bid Security issued by the foreign bank is allowed by the Procuring agency/Employer, the same should be counter guaranteed by a corresponding bank in Pakistan. Furthermore, in case of joint venture, it should be in the name of Joint venture to ensure joint responsibility. In case the JV is not legally constituted at the time of bid submission, the bid security or bid securing declaration shall be in the names of all future members as named in the letter of bid.

18. **Withdrawal of Bids**

18.1. Before bid submission deadline, any bidder may withdraw, substitute, or modify its bid after it has been submitted by sending a written notice, duly signed by an authorized representative, and the corresponding must accompany the respective written notice.

19. **Format and Signing of Bid**

19.1. The Bidder shall prepare and submit Bids through EPADS with due diligence after carefully reading all the terms and condition before bid submission deadline.

D. SUBMISSION OF BIDS

20. **Submission of Bids through EPADS v2.0**

20.1. All bids shall be submitted through EPADS v2.0.

21. **Deadline for Submission of Bids**

21.1. All bids shall be received through **EPADS v2.0** not later than bid submission deadline as specified in the **BDS**.

21.2. The Procuring agency/Employer may, under exceptional circumstances and at its discretion, extend the deadline for the submission of bids, pursuant to Rule 27 of the Public Procurement Rules, 2004. Extension of Time for submission of bid, by amending the Bidding Documents in accordance with ITB 7, in which case all rights and obligations of the Procuring agency/Employer and bidders previously subject to the deadline will thereafter be subject to the new deadline.

22. **Substitution and Modification of bids**

22.1. A bidder may substitute or modify his bid after it has been submitted, provided that written notice of the substitution or modification of the bid, is received by the Procuring agency/Employer prior to the deadline for submission of bids.

22.2. Revised bid may be submitted after the substitution or modification made in the original bid in accordance with the provisions referred in **ITB 18** .

E. OPENING AND EVALUATION OF BIDS

23. **Opening of Bids**

23.1. The Procuring Agency will open bids in accordance with Rule 28 of the Public Procurement Rules, 2004 and as specified in the BDS.

24. **Confidentiality**

24.1. Information relating to the examination, clarification, evaluation and comparison of bids and recommendation of contract award shall not be disclosed to bidders or any other persons not officially concerned with such process until the time of the announcement of the respective evaluation report.

25. **Clarification of Bids**

25.1. Clarification of Bidding Documents shall be carried out in accordance with Rule 31 of the Public Procurement Rules, 2004.

25.2. The alteration or modification in the bid which in any case affect the following parameters will be considered as a change in the substance of a bid:

25.2.1. evaluation & qualification criteria;

25.2.2. required scope of work;

25.2.3. contract price;

25.2.4. all securities requirements;

25.2.5. tax requirements;

25.2.6. terms and conditions of bidding documents.

25.2.7. change in the ranking of the bidder

26. **Preliminary Examination of Bids**

26.1. Prior to the detailed evaluation of bids, the Procuring agency/Employer will determine whether each bid:

26.1.1. meets the eligibility criteria defined in **ITB 3** and **ITB 4**;

26.1.2. has been prepared as per the format and contents defined by the Procuring agency/Employer in the bidding documents;

26.1.3. has been properly signed;

26.1.4. is accompanied by the required securities; and

26.1.5. is substantially responsive to the requirements of the bidding documents.

The Procuring agency/Employer's determination of a bid's substantial responsiveness will be based on the contents of the bid itself.

26.2. A substantially responsive Bid is one which conforms to all the terms, conditions, and specifications of the Bidding Documents, without material deviation or reservation. A material deviation or reservation is one that: -

26.2.1. affects in any substantial way the scope, quality, or performance of the Works;

26.2.2. limits in any substantial way, inconsistent with the bidding documents, the Procuring agency/Employer's rights or the bidders' obligations under the Contract; or

26.2.3. if rectified, would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

26.3. The Procuring agency/Employer will confirm that the documents and information specified under ITB 9, 10 and 11 have been provided in the bid. If any of these documents or information is missing, or is not provided in accordance with the Instructions to Bidders, the bid shall be rejected.

26.4. The Procuring agency/Employer may waive-off any minor informality, nonconformity, or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.

Explanation: A minor informality, non-conformity or irregularity is one that is merely a matter of form and not of substance. It also pertains to some immaterial defect in a Bid or variation of a bid from the exact requirements of the invitation that can be corrected or waived without being prejudicial to other bidders. The defect or variation is immaterial when the effect on quantity, quality, or delivery is negligible when contrasted with the total cost or scope of the works. The Procuring agency/Employer either shall give the bidder an opportunity to cure any deficiency resulting from a minor

informality or irregularity in a bid or waive the deficiency, whichever is advantageous to the Procuring agency/Employer. Examples of minor informalities or irregularities include failure of a bidder to –

26.4.1. *Submit the number of copies of signed bids required by the invitation;*

26.4.2. *Furnish required information concerning the number of its employees;*

26.4.3. *the firm submitting a bid has formally adopted or authorized, before the date set for opening of bids, the execution of documents by typewritten, printed, or stamped signature and submits evidence of such authorization and the bid carries such a signature.*

26.5. Provided that a Technical Bid is substantially responsive, the Procuring agency/Employer may request the bidder to submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the Technical Bid related to documentation requirements. Requesting information or documentation on such nonconformities shall not be related to any such aspect of the technical Proposal linked with the ranking of the bidders. Failure of the bidder to comply with the request may result in the rejection of its bid.

26.6. Provided that a Technical Bid is substantially responsive, the Procuring agency/Employer shall rectify quantifiable nonmaterial nonconformities or omissions related to the Financial Proposal. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of the missing or nonconforming item or component.

26.7. If a bid is not substantially responsive, it will be rejected by the Procuring agency/Employer and may not subsequently be evaluated for complete technical responsiveness.

27. **Examination of Terms and Conditions; Technical Evaluation**

27.1. The Procuring agency/Employer shall examine the bid to confirm that all terms and conditions specified in the **GCC** and the **PCC** have been

accepted by the bidder without any material deviation or reservation.

For this purpose:

“Deviation” means departure from the requirements specified in the Bidding Document.

“Reservation” means setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Document.

27.2. The Procuring agency/Employer shall evaluate the technical aspects of the bid submitted in accordance with ITB 30, to confirm that all requirements specified in Section VI – Works Requirement, Technical Specifications of the Bidding Documents have been met without material deviation or reservation.

27.3. If after the examination of the terms and conditions and the technical evaluation, the Procuring agency/Employer determines that the bid is not substantially responsive in accordance with ITB 27, it shall reject the bid.

28. **Correction of Arithmetic Errors**

28.1. Bids determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows: -

28.1.1. if there is a discrepancy between unit prices and the sub-total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the sub-total price shall be corrected, unless in the opinion of the Procuring agency/Employer there is an obvious misplacement of the decimal point in the unit price, in which the total price as quoted shall govern and the unit price shall be corrected;

28.1.2. if there is an error in a total corresponding to the addition or subtraction of sub-totals, the sub-totals shall prevail, and the total shall be corrected; and

28.1.3. where there is a discrepancy between the amounts in figures and in words, the amount in words will govern.

28.1.4. Where there is discrepancy between grand total of price schedule and amount mentioned on the Form of Bid, the amount referred in Price Schedule shall be treated as correct subject to elimination of other errors.

28.2. The amount stated in the Bid will, be rectified by the Procuring agency/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 amount, its bid shall be rejected after forfeiture of Bid Security or execution of the Bid Securing Declaration, as the case may be, in accordance with **ITB 41.3**.

29. **Conversion to Single Currency**

29.1. The unit rates and the prices shall be quoted by the bidder entirely in Pak rupees. A bidder expecting to incur expenditures in other currencies for inputs to the Works from outside the Procuring agency/Employer's country (referred to as the "Foreign Currency Requirements") shall indicate the same in the letter of bid-financial proposal. The proportion of the Bid Price (excluding Provisional Sums) needed by him for the payment of such Foreign Currency Requirements either (i) entirely in the currency of the Bidder's home country or, (ii) at the bidder's option, entirely in Pak rupees provided always that a bidder expecting to incur expenditures in a currency or currencies other than those stated in (i) and (ii) above for a portion of the foreign currency requirements, and wishing to be paid accordingly, shall indicate the respective portions in his bid. Comparison of bids quoted in different currencies and conversion of bids into a single currency shall be carried out in accordance with Rule 30(2) of the Public Procurement Rules, 2004**.**

30. **Evaluation of Bids**

30.1. The Procuring agency/Employer shall evaluate and compare only the bids determined to be substantially responsive, pursuant to **ITB 27**.

30.2. In evaluating the Technical Proposal of each Bid, the Procuring agency/Employer shall use the criteria and methodologies listed in the BDS

and in terms of works requirement. No other evaluation criteria or methodologies shall be permitted.

30.3. The Procuring agency/Employer's evaluation of a bid will take into account:

30.3.1. the bid price, excluding provisional sums and the provision, if any, for contingencies in the summary bill of quantities, but including day work items, where priced competitively;

30.3.2. converting the amount resulting from applying above, if relevant, to a single currency in accordance with ITB 29;

30.4. 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.

30.5. If these bidding documents allow bidders to quote separate prices for different lots, and the award to a single bidder of multiple lots, the methodology of evaluation to determine the lowest evaluated lot combinations in the Form of Bid, is specified in the **BDS**.

30.6. If the bid, which results in the Evaluated Bid Price (Successful Bid), is seriously unbalanced or front loaded in the opinion of the Employer, 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, taking into consideration the schedule of estimated Contract payments, the Employer may require that the amount of the performance security be increased at the expense of the Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract.

Explanation:

"Unbalanced" or "front-loaded" bids consist of deliberately submitting bids with artificially high prices or unit rates for the early stages of a construction project, offset by artificially low prices or unit rates for the later stages of the project, to improve the contractor's cash flow.

31. **Domestic Preference**

31.1. If the **BDS** so specifies, the Procuring agency/Employer will grant a margin of preference to the domestic contractor in line with the rules, regulations, regulatory guides or instructions issued by the Authority from time to time.

32. **Determination of Successful Bid**

32.1. The Procuring agency/Employer shall compare the evaluated bids in accordance with the predefined bidding procedure, of all substantially responsive bids to determine the Successful bidder.

33. **Qualification of Bidder**

33.1. The Procuring agency/Employer shall determine to its satisfaction whether the bidder is substantially responsive and whose bid is declared as Successful bid either continues to meet (if prequalification applies) or meets (if post-qualification applies) the qualifying criteria specified in Evaluation and Qualification Criteria.
Note: In case of international bidding, the parameters for incorporation or licensing within Pakistan may be fulfilled as part of post qualification.

33.2. The determination shall be based upon an examination of the documentary evidence of the bidder’s qualifications submitted by the bidder, pursuant to **ITB 11**.

33.3. Prior to contract award, the Procuring agency/Employer will verify that the successful bidder (including each member of a JV) is not blacklisted/debarred. The Procuring agency/Employer will conduct the same verification for each sub-contractor proposed by the successful bidder.

34. **Sub-Contractors**

34.1. The bidder shall provide details regarding any specialized sub-contractor to the Procuring agency/Employer. In case change of sub-contractors, the bidder shall promptly notify the Procuring agency/Employer and obtain approval for replacement of sub-contractors.

34.2. Bidders may propose sub-contracting up to the percentage of total value of contracts or the volume of works as specified in the **BDS**.

35. **Abnormally Low Financial Bid**

35.1. A procuring Agency may reject abnormally low bids. The decision of the Procuring agency/Employer to reject a bid and reasons for the decision shall be recorded in the procurement proceedings and promptly communicated to the bidder concerned. Moreover, the Procuring agency/Employer shall not incur any liability solely by rejecting abnormally bid

Guidance for Procuring agency/Employer:

An abnormally low bid means, in the light of the Procuring agency/Employer's estimate and of all the bids submitted, the bid appears to be abnormally low by not providing a margin for normal levels of profit. In order to identify the Abnormally Low Bid (ALB) following approaches can be considered to minimize the scope of subjectivity:

35.1.1. Comparing the bid price with the cost estimate;

35.1.2. Comparing the bid price with the bids offered by other bidders submitting substantially responsive bids; and

35.1.3. Comparing the bid price with prices paid in similar contracts in the recent past either government- or development partner-funded.

35.2. The Procuring agency/Employer will determine to its satisfaction whether the bidder that is selected as having submitted the successful bid is qualified to perform the contract satisfactorily, in accordance with the criteria listed in **ITB 11**

35.3. The determination will take into account the bidder's financial and technical capabilities. It will be based upon an examination of the documentary evidence of the bidder's qualifications submitted by the bidder, pursuant to **ITB 11**, as well as such other information as the Procuring agency/Employer deems necessary and appropriate. Factors not included in these bidding documents shall not be used in the evaluation of the bidders' qualifications.

35.4. Procuring agency/Employer may seek “Certificate for Independent Price Determination” from the bidder and the results of reference checks may be used in determining award of contract.

Explanation: The Certificate shall be furnished by the bidder. The bidder shall certify that the price is determined keeping in view of all the essential aspects such as raw material, its processing, value addition, optimization of resources due to economy of scale, transportation, insurance and margin of profit etc.

35.5. An affirmative determination will be a prerequisite for award of the contract to the bidder. A negative determination will result in rejection of the bidder’s bid, in which event the Procuring agency/Employer will proceed to the next ranked bidder to make a similar determination of that bidder’s capabilities to perform satisfactorily.

F. AWARD OF CONTRACT

36. **Criteria of Award**

36.1. Subject to **ITB 36 and 37**, the Procuring agency/Employer will award the Contract to the bidder whose bid has been determined to be substantially responsive to the bidding documents and who has been declared as Successful Bidder, provided that such bidder has been determined to be:

36.1.1. eligible in accordance with the provisions of **ITB 3**;

36.1.2. is determined to be qualified to perform the Contract satisfactorily; and

36.1.3. Successful negotiations have been concluded, if any.

37. **Negotiations**

37.1. The Committee of the Procuring agency/Employer may negotiate with the Most Advantageous Bidder relating to the following areas:

37.1.1. a minor alteration to the technical (drawings, design technical specifications) details of the statement of works;

37.1.2. Methodology, work plan, staffing in view to streamline the work;

37.1.3. a minor amendment to the Particular conditions of Contract;

37.1.4. finalizing payment arrangements;

37.1.5. clarifying details that were not apparent or could not be finalized at the time of Bidding;

37.2. Where negotiation fails to result into an agreement, the Procuring agency/Employer may invite the next ranked bidder for negotiations. Where negotiations are commenced with the next ranked bidder, the Procuring agency/Employer shall not reopen earlier negotiations.

38. **Procuring agency's Right to reject All Bids**

38.1. The procuring agency has the right to reject all bids in accordance with Rule 33 of the Public Procurement Rules, 2004. However, the Authority (i.e. **PPRA**) may call from the Procuring agency/Employer the justification of those grounds.

39. **Notification of Award**

39.1. The procuring agency shall announce and publish the evaluation result in accordance with Rule 35 of the Public Procurement Rules, 2004.

39.2. Where no complaints have been lodged, the bidder whose bid has been accepted will be notified of the award by the Procuring agency/Employer prior to expiration of the bid validity period through EPADS. However, the Procuring agency/Employer shall not award any procurement contract at least for five (05) days after the announcement of final evaluation report. The notification letter (herein after and in the condition of the contract and contract form called “Letter of Acceptance” will specify the sum that the Procuring agency/Employer will pay the successful bidder in consideration for the execution and completion of the

works as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price).

39.3. The notification of award will constitute the formation of the Contract, subject to the bidder furnishing the Performance Security (or guarantee) in accordance with **ITB 41** and signing of the contract in accordance with **ITB 40**.

39.4. Upon the successful bidder’s furnishing of the performance security (or guarantee) pursuant to **ITB 41**, the Procuring agency/Employer will promptly notify each unsuccessful bidder, the name of the successful bidder and the Contract amount and will discharge the Bid Security or Bid Securing Declaration of the bidder(s) pursuant to **ITB 17**.

40. **Signing of Contract**

40.1. Promptly after notification of award, Procuring agency/Employer shall send the successful bidder the draft agreement, incorporating all terms and conditions as agreed by the parties to the contract.

40.2. Immediately after the Redressal of grievance by the **GRC**, and after fulfillment of all conditions precedent of the Contract Form, the successful bidder and the Procuring agency/Employer shall sign the contract.

40.3. Where no formal signing of a contract is required, work order issued to the bidder shall be construed to be the contract.

41. **Performance Security (or Guarantee)**

41.1. After the receipt of the Letter of Acceptance, the successful bidder, within the specified time, shall deliver to the Procuring agency/Employer a Performance Guarantee in the amount and in the form stipulated in the BDS and PCC, denominated in the type and proportions of currencies in the Letter of Acceptance and in accordance with the Conditions of Contract.

41.2. If the Performance Guarantee is provided by the successful bidder and it shall be in the form specified in the BDS which shall be in any of the following:

41.2.1. certified cheque, cashier's or manager's cheque, or bank draft;

41.2.2. irrevocable letter of credit issued by a scheduled bank of Pakistan or in the case of an irrevocable letter of credit issued by a foreign bank, the letter shall be confirmed or authenticated by a scheduled bank of Pakistan;

41.2.3. bank guarantee confirmed by a reputable local bank or, in the case of a successful foreign bidder, bonded by a foreign bank; or

41.2.4. surety bond callable upon demand issued by any reputable surety or insurance company.
Any Performance Guarantee submitted shall be enforceable in Pakistan.

41.3. Failure of the Most Advantageous Bidder to comply with the requirement of **ITB 40** shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security or declare blacklisted (in case bid securing declaration is submitted) in which event the Procuring agency/Employer may make the award to the next most advantageous bidder or reinitiate the procurement process afresh (as a case may be).

42. **Advance Payment**

42.1. Advance payment will be provided to the bidder in percentage and in the manner as agreed by the both parties in terms of Conditions of the Contract.

42.2. The Procuring agency/Employer will provide an advance payment as stipulated in the Conditions of Contract, subject to a maximum amount, as stated and/or Conditions of the Contract. The advance payment request shall be accompanied by an advance payment security (guarantee) in the form provided in Section X. For the purpose of receiving the advance payment, the bidder shall make and estimate of, and include in its bid, the expenses that will relate to the purchase of equipment, machinery, materials, and on the engagement of labor during the first month beginning with the date of the Procuring agency/Employer's "**Notice to Commence**" as specified in the **PCC**.

43. **General Performance of the Bidders**

43.1. The Procuring agency/Employer reserves the right to obtain information regarding performance of the bidders on their previously awarded contracts / works. The Procuring agency/Employer may seek information / report from the previous employer for consideration. However, the Procuring agency/Employer shall incorporate such parameters in the evaluation criteria and accordingly decide the fate of the bid submitted.

44. **Corrupt & Fraudulent Practices**

44.1. Procuring agencies (including beneficiaries of Government funded projects and procurement) as well as Bidders/Suppliers/Contractors under Government financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts, and will avoid to engage in any corrupt and fraudulent practices.

G. GRIEVANCE REDRESSAL & COMPLAINT REVIEW MECHANISM

45. **Grievance Redressal**

45.1. Grievance Redressal shall be carried out in accordance with Rule 48 of the Public Procurement Rules, 2004 i.e. Redressal of grievances by the procuring agency and “Redressal of Grievances Regulations 2021”.

H. MECHANISM OF BLACKLISTING

46. **Mechanism of Blacklisting**

46.1. The Procuring agency/Employer shall proceed Blacklisting of Bidders/Contractors in accordance with Rule 19 of the Public Procurement Rules, 2004 i.e. Blacklisting and “Blacklisting and Debarment of Bidders or Contractors Regulations 2024.

Bid Data Sheet

Bids Data Sheet (BDS)

The following specific data for the procurement of Goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

BDS Clause Number	ITB Number	Amendments of, and Supplements to, Clauses in the Instruction to Bidders
A. Introduction		
1	**1.1**	Name of Procuring Agency:**NESPAK (GT&GED)** The subject of procurement is:**GEOTECHNICAL INVESTIGATIONS - CONSULTANCY SERVICES FOR DESIGNING, PROCUREMENT AND DETAILED SUPERVISION OF INFRASTRUCTURE DEVELOPMENT WORKS OF SECTOR F-12, ISLAMABAD** Expected commencement date: **Sunday, November 29, 2026**
2.	**2.1**	Financial year for the operations of the Procuring Agency:**2026-27** Name and identification number of the Contract: **P179079**
3.	**3.1**	JV/Consortium or AssociationAllowed: **Yes** Number of JV/Consortium Members: **1**
B. Bidding Documents		

4.	**6.2 & 6.4**	The Bidders may seek clarifications through **EPADS v2.0**: Clarification Date: Monday, November 2, 2026
5.	**7.2**	Any addendum, in case issued, shall be published on **NESPAK (GT&GED)** website and on **EPADS v2.0**.
C. Preparation of Bids		
6.	**8.1**	List of documents required along with the bid: 1. Registration certificates must include: - Valid registration with Pakistan Engineering Council (PEC) - Valid registration with Federal Board of Revenue (FBR) - Valid registration with concerned Provincial Revenue Authority (PRA) - Proof of active taxpayer of FBR & PRA 2. Attach CVs of the Key Staff Members 3. Attach copy of Letter of Awards / Project Completion Certificates for any five (5) latest projects involving bulk of geotechnical investigations within the last three (03) years 4. Financial soundness certificate from the bank(s) must be provided by the Applicant 5. Attach HSE Policies
7.	**9.1**	The qualification criteria to establish the supply / production capability of the bidder. *see Eligibility Criteria*

8.	**11.2**	**Works and Their relateddocuments:** *See section Required Scope of Work*
9.	**11.1**	Price schedule will be provided according to the format defined and acquired. *see section price schedule.*
10.	**11.4**	**Specifications:** *see section of specifications.*
11.	**11.5 & 13.5**	The price shall be **Fixed**. The bid price shall be adjusted in accordance with Appendix provided – Formula for Price Adjustment.
12.	**14.1**	Currency of the Bids shall be : **PKR**
13.	**16.1**	The Bids/Bid Validity period shall be: **90 Days**
14.	**17.1**	The amount of Bid Security shall be as defined in Bid Security Section for items and lots given in **BDS 6**
15.	**17.2**	The Bid Security shall be in the form of:
16.	**15.1**	Alternative Bids to the requirements of the bidding documents willnot be permitted.

D. Submission of Bids

17.	**18.1 & 21.1**	Bid shall be submitted online on EPADS v2.0 whereas hard copy of the bid security should be submitted to the following; **NESPAK HOUSE 1-C, BLOCK N, MODEL TOWN EXTENSION, LAHORE** Bids that are not submitted on EPADS v2.0 shall be disqualified. The deadline for Bids submission is: **Thursday, November 5, 2026 11:00 AM**

E. Opening and Evaluation of Bids

18.	**24.1**	The Bids opening shall take place on **EPADS v2.0**. Day *: **Thursday*** Date:***November 05, 2026*** Time *: **11:30 AM***
19.	**30.2**	Selection technique adopted will be: **Least Cost Based Selection (LCBS)** *see Evaluation Criteria*

F. Award of Contract

20.	**41.1 & 41.2**	The Performance guarantee shall: **0%**. The Performance Guarantee shall be acceptable in the form of:**Nil**
21.	**45.1**	Arbitrator shall be appointed by mutual consent of the both parties.

G. Review of Procurement Decisions

22.	**37**	Grievance against this procurement shall be submitted online on EPADS v2.0.

Eligibility Criteria

All Active Taxpayers shall be eligible to participate in the procurement process, unless expressly excluded or otherwise restricted under the Eligibility Criteria specified by the Procuring Agency.

Required Registration
NADRA CITIZENSHIP (CNIC/NICOP) FBR (NTN) Punjab (PRA) PEC

Eligibility Criteria	Document
Proof of Active Taxpayer on PRA and FBR	Yes

Evaluation Criteria

Least Cost Based Selection (LCBS)

Weightage

Technical Evaluation %
100

Technical Marks	100
Passing Marks	**100**
Technical Evaluation Criteria	
Experience of the Firm in Geotechnical Investigation Works at least five (05) projects in last three (03) Years (Quantitative)(Doc Required)	15
Qualification and Relevant Experience of Proposed Key Personnel (Quantitative)(Doc Required)	15
Availability of Geotechnical Investigation Equipment (Quantitative)(Doc Required)	15
No unsatisfactory performance certificate issued by NESPAK within last six (06) months (Quantitative)(Doc Required)	15
1) Average annual turnover which is also termed as income from contracting for procurement of geotechnical investigations and is defined as billing for works completed during the last three (3) years of at least Rs. 5.0 million or the said figure has been achieved in any year during the last three (03) years. (Quantitative)(Doc Required)	15

The Applicant should provide accurate information on any litigation or arbitration resulting from Contracts completed or under execution over the last three (03) years. A consistent/ overwhelming history of litigation against the Applicant may result in rejection of the application. In case an Applicant claims Nil litigation, he shall submit the same statement on the letter head of his company. (Quantitative)(Doc Required)	15
HSE Policies (Quantitative)(Doc Required)	10

Jobs/Lots

Jobs Without Lots :

Job	Delivery Schedule	Quantity	Bid Security
CONSULTANCY SERVICES FOR DESIGNING, PROCUREMENT AND DETAILED SUPERVISION OF INFRASTRUCTURE DEVELOPMENT WORKS OF SECTOR F-12, ISLAMABAD	Address: NESPAK HOUSE 1-C, BLOCK N, MODEL TOWN EXTENSION, LAHORE Schedule: 25 Days Quantity: 1/Qty	1/Qty	0 PKR

Related Services :

No

Work Specifications and Market Rates

Jobs Without Lots :

Job: CONSULTANCY SERVICES FOR DESIGNING, PROCUREMENT AND DETAILED SUPERVISION OF INFRASTRUCTURE DEVELOPMENT WORKS OF SECTOR F-12, ISLAMABAD

Specifications / Requirements:

Sr. No	Sr. No.	Description	Unit	Qty	Rate		Amount

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

1	A1	Mobilization and demobilization of at least One (01) straight rotary drilling rig / percussion boring equipment alongwith allied accessories at site including setting-up and shifting of equipment from one investigation point to another. The equipment shall be adequate in quantity to meet the time schedule.	L.S.	Job	150000	Rs. Only	150000

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

2	A2	Execution of Six (06) boreholes of 20 m - 25 m depth below NSL in overburben soils or upto rock strike level, whichever is met earlier, by straight rotary drilling / precussion boring method including backfilling of boreholes to their original position using cement-sand-bentonite mix. Minimum permissible diameter of borehole is 200 mm for precussion	L.M.	100	4500	Rs. Only	450000

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

3	A3	Continuous core drilling (NX / NQ size in general) in bedrock up to a maximum depth of 5 m below rock strike level or as directed by Engineer, including preservation of core samples in core boxes, waxing of core samples, photography of rock cores and transportation of core samples to the laboratory.	L.M.	30	10000	Rs. Only	300000

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

4	A4	Performance of Standard Penetration Tests (SPTs) in boreholes generally at 1 m depth interval or as necessary along with collection of SPT samples, including their labelling, packing, storage & transportation to an approved testing laboratory.	No.	92	900	Rs. Only	82800

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

5	A5	Collection of relatively undistrubed soil samples from boreholes through Denison/ Pitcher/ Shelby sampler, including their waxing, labelling, packing, storage & transportation to an approved testing laboratory.	No.	8	3000	Rs. Only	24000

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

6	A6	Excavation of Six (6) testpits up to a maximum depth of 1.5 m below NSL or up to rock strike level, whichever is met earlier at proposed road locations inclusing backfilling of pits to original condition.	L.M.	9	2500	Rs. Only	22500

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

7	A7	Performance of field density tests by sand replacement method in testpits generally @ 1 test/pit at selected horizons in testpits including determination of in-situ bulk and dry density and collection of small disturbed samples in moisture tins for moisture content determination in laboratory by oven drying method.	No.	6	2000	Rs. Only	12000

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

8	A8	Collection of composite bulk soil samples from onsite testpits including their labeling, packing, storage & transportation to an approved testing laboratory.	No.	5	3000	Rs. Only	15000

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

9	A9	Collection of composite bulk soil samples (minimum weight 50-100 kg.) from Borrow Areas including their labelling, packing, storage & transportation to an approved laboratory.	No.	3	3000	Rs. Only	9000

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

10	A10	Collection of water samples (if encountered) from boreholes & testpits including their labelling, packing, storage & transportation to an approved testing laboratory.	No.	4	550	Rs. Only	2200
11	B1	Sieve Analysis	No.	35	800	Rs. Only	28000
12	B2	Hydrometer Analysis	No.	15	800	Rs. Only	12000
13	B3	Liquid and Plastic Limits	No.	20	875	Rs. Only	17500

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

14	B4	Natural Moisture Content	No.	20	300	Rs. Only	6000
15	B5	Bulk & Dry density	No.	20	500	Rs. Only	10000
16	B6	Consolidation with Swell Pressure Measurement	No.	4	4500	Rs. Only	18000
17	B7	Unconfined Compression	No.	4	1500	Rs. Only	6000
18	B8	Uniaxial Compression	No.	6	2500	Rs. Only	15000
19	B9	Point Load Strength Index	No.	6	2500	Rs. Only	15000
20	B10	Direct Shear	No.	4	2500	Rs. Only	10000
21	B11	Modified AASHTO Compaction	No.	8	2000	Rs. Only	16000

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

22	B12	3-point soaked CBR	No.	8	4000	Rs. Only	32000
23	B13	Chemical Analysis of Soil Sample i/c sulpahte content, chloride content, organic matter	No.	4	2500	Rs. Only	10000
24	B14	Chemical Analysis of Water Samples i/c TDS, Cl, SO4, pH etc.	No.	4	3000	Rs. Only	12000
						GRAND TOTAL:	Rs1,275,000.00

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Scope of Work

Bids (Technical and Financial) are invited through EPADS v2.0 in accordance with the attached BOQ and qualification criteria uploaded on EPADS v2.0 from drilling Contractors/Companies for carrying out the geotechnical investigations for the subject project.

The companies capable of carrying out subject work are requested to provide their Company’s Profile and the following documents along with their sealed bids:

1. PEC Registration Certificate
2. FBR & PRA Registration Certificates
3. List of Similar Projects completed during last three years
4. Financial Capability
5. Equipment Capability
6. Personnel Capability
7. Litigation History
8. HSE Policies

The work comprises; execution of boreholes up to maximum depth of 25.0 m below natural surface level (NSL) by Straight Rotary/heavy percussion machine, continuous coring in bedrock, excavation of testpits performance of SPTs in boreholes, collection of disturbed/undisturbed soil samples, performance of field density tests in testpits, collection of water samples from boreholes/ testpits and laboratory testing of selected soil/rock/ water samples. The field and laboratory work shall have to be completed according to the following time schedule:

Sr. No. Minimum No. of Straight Rotary Rigs/ Heavy Percussion Machine Required Time for Completion of Field Investigations Time for Completion of Laboratory Testing Total Time for Completion of Field & Laboratory Investigations
1 1 15 Days 10 Days 25 Days

Your bid shall be valid for a time period of ninety (90) days after the bid opening. The work shall be executed under the instructions and full-time supervision of NESPAK engineers/geologists and the successful bidder shall mobilize to the site on one (01) day notice after issuance of Letter of Award/Acceptance.

The coordinates and ground elevations of all the investigation points by total station shall have to be provided to NESPAK before completion of investigation at site by the Contractor. The approved laboratory, where testing is to be carried out, shall be pursued by the successful bidder for timely completion of the assigned laboratory testing.

The successful bidder shall be responsible for providing the factual geotechnical investigation report (including borehole/ testpit logs, summary of samples recovered, summary of laboratory test results and detailed laboratory test result sheets) to NESPAK, within the contract period.

The bidders shall submit a bid securing declaration amounting to PKR 50,000/- before the bid submission deadline at the address of the undersigned.

Your most competitive bids (inclusive of all taxes) in accordance with the BOQ and qualification criteria, must be submitted through EPADS v2.0 by 1100 hours on or before November 05, 2026. Technical bids would be electronically opened on the same day at 1130 hours.

Financial bids would be opened after evaluation of Technical bids, at a time, date and venue announced and communicated to the technically responsive bidders in advance. However, Final decision to accept/reject any or all the bids as per PPRA rules solely lies with the undersigned. The entire work shall be carried out in accordance with the attached Technical Specifications.

Price Schedule

For Individual Jobs

#	Job Title	Quantity	Unit Price (PKR)	Total Price (PKR)	Delivery Location	Delivery Period / Year	Country of Origin
1							
2							

For Lots

#	Lot Title	Total Lot Price (PKR)	Country of Origin
1	[Lot 1 Title]		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

General Conditions of Contract

A. General

1. **Definitions**

1.1. Unless the context otherwise requires, the following terms whenever used in this Contract shall have the same meaning and shall be interpreted as indicated

1.1.1. “Applicable Law” means the laws and any other instruments having the force of law in the Government’s Country, or in such other country as may be specified in the Special Conditions of the Contract (SC), as they may be issued and in force from time to time;

1.1.2. “The Contract” means an agreement enforceable by law;

1.1.3. “The Contract Price” means the price payable to the Contractor under the Contract for the full and proper performance of its contractual obligations;

1.1.4. “The Services” means the work to be performed by the Contractor pursuant to this Contract and as prescribed in the Specifications and Schedule of Activities included in the Contractor’s Bid;

1.1.5. “Ancillary Services” means those services ancillary to the provision of Services, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Contractor covered under the Contract;

1.1.6. “GCC” means the General Conditions of Contract contained in this section;

1.1.7. “SCC” means the Special Conditions of Contract by which the GCC may be amended or supplemented;

1.1.8. **“**Day” means calendar day unless indicated otherwise;

1.1.9. “Effective Date” means the date on which this Contract comes into force and effect;

1.1.10. “The Contractor” means the individual or corporate body whose Bids to provide the Services has been accepted by the Procuring Agency;

1.1.11. “The Project Site,” where applicable, means the place or places named in Bid Data Sheet and technical Specifications;

1.1.12. “Government” means the Government of Pakistan;

1.1.13. “Local Currency” means the currency of Pakistan;

1.1.14. “In Writing” means communicated in written form with proof of receipt;

1.1.15. “Completion Date” means the date of completion of the Services by the Contractor as certified by the Procuring Agency;

1.1.16. “Foreign Currency” means any currency other than the currency of the country of the Procuring Agency;

1.1.17. “Party” means the Procuring Agency or the Contractor, as the case may be, and “Parties” means both of them;

1.1.18. "Service" means any object of procurement other than goods or works;

1.1.19. “Subcontractor” means any entity to which the Bidder subcontracts any part of the Services.

2. **Applicable Law**

2.1. The contract shall be governed and interpreted in accordance with the laws of Pakistan, unless otherwise specified in SCC.

3. **Language**

3.1. The Contract as well as all correspondence and documents relating to the Contract exchanged between the Contractorand the Procuring Agency, shall be written in the **English language** unless otherwise stated in the **SCC** . Supporting documents and printed literature that are part of the Contract may be in another language provided these are accompanied by an accurate translation of the relevant passages in English, in which case, for purposes of interpretation of the Contract, this translation shall govern.

4. **Notices**

4.1. Any notice, request, or consent made pursuant to this Contract shall be in writing and shall be deemed to have been made when delivered in person to an authorized representative of the Party to whom the communication is addressed, or when sent by registered mail, telex, telegram, or facsimile to such Party at the address specified in the **SCC**.

5. **Location**

5.1. The Services shall be performed at such locations as the Procuring Agency may approve and as specified in **SCC.**

5.2. A {DOCUMENTS}

6. **Authorized Representatives / Authority of Member in charge**

6.1. Any action required or permitted to be taken, and any document required or permitted to be executed, under this Contract by the Procuring Agency or the Contractor may be taken or executed by the officials specified in the **SCC**.

B. Commencement, Completion, Modification, and Termination of Contract

7. **Effectiveness of Contract**

7.1. This Contract shall come into effect on the date the Contract is signed by both parties and such other later date as may be stated in the **SCC.**

8. **Commencement of Services**

8.1. The Contractor shall confirm availability of Key Experts and begin carrying out the Services not later than the number of days after the Effective Date specified in the **SCC.**

9. **Program schedule**

9.1. Before commencement of the Services, the Contractor shall submit to the Procuring Agency for approval a Program showing the general methods, arrangements, order and timing for all activities. The Services shall be carried out in accordance with the approved Program as updated.

10. **Starting Date/Expiration Date**

10.1. The Contractor shall start carrying out the Services Five (05) days after the date the Contract becomes effective, or at such other date as may be specified in the **SCC.**

10.2. Unless terminated earlier pursuant to Clause **GCC 14** hereof, this Contract shall expire at the end of such time period after the Effective Date as specified in the **SCC.**

11. **Entire Agreement**

11.1. This Contract contains all covenants, stipulations and provisions agreed by the Parties. No agent or representative of either Party has authority to make, and the Parties shall not be bound by or be liable for, any statement, representation, promise or agreement not set forth herein.

12. **Modification**

12.1. Any modification or variation of the terms and conditions of this Contract, including any modification or variation of the scope of the Services, may only be made by written agreement between the Parties. However, each Party shall give due consideration to any modification(s) or variation(s) made by the other Party.

12.2. In cases of any modification(s) or variation(s), the prior written consent of the Procuring Agency is required.

13. **Force Majeure**

13.1. **Definition**

For the purposes of this Contract, “Force Majeure” means an event which is beyond the reasonable control of a Contractor and which makes a Contractor’s performance of its obligations under the Contract impossible or so impractical as to be considered impossible under the circumstances.

13.2. **No Breach of Contract**

The failure of a Party to fulfill any of its obligations under the contract shall not be considered to be a breach of, or default under, this Contract in so far as such inability arises from an event of Force Majeure, provided that the Party affected by such an event (a) has taken all reasonable precautions, due care and reasonable alternative

measures in order to carry out the terms and conditions of this Contract, and (b) has informed the other Party as soon as possible about the occurrence of such an event.

13.3. **Extension of Time**
Any period within which a Contractor shall, pursuant to this Contract, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure.

13.4. **Payments**
During the period of their inability to perform the Services as a result of an event of Force Majeure, the Contractor shall be entitled to continue to be paid under the terms of this Contract, as well as to be reimbursed for additional costs reasonably and necessarily incurred by them during such period for the purposes of the Services and in reactivating the Service after the end of such period.

14. **Termination**

14.1. **By the Procuring Agency**
The Procuring Agency may terminate this Contract in case of the occurrence of any of the events specified in paragraphs (a) through (e) of this Clause. In such an occurrence the Procuring Agency shall give at least thirty (30) calendar days' written notice of termination to the Contractor in case of the events referred to in (a) through (d); at least sixty (60) calendar days' written notice in case of the event referred to in (e);

14.1.1. If the Contractor fails to remedy a failure in the performance of its obligations hereunder, as specified in a notice of suspension;

14.1.2. If the Contractor becomes (or, if the Contractor consists of more than one entity, if any of its members becomes) insolvent or bankrupt or enter into any agreements with their creditors for relief of debt or take advantage of any law for the benefit of debtors or go into liquidation or receivership whether compulsory or voluntary;

14.1.3. If the Contractor fails to comply with any final decision reached as a result of arbitration proceedings;

14.1.4. If, as the result of Force Majeure, the Contractor is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days;

14.1.5. If the Procuring Agency, in its sole discretion and for any reason whatsoever, decides to terminate this Contract;

14.2. **By the Contractor**
The Contractor may terminate this Contract, by not less than thirty (30) calendar days' written notice to the Procuring Agency, in case of the occurrence of any of the events specified in paragraphs (a) through (d) of this Clause.

14.2.1. If the Procuring Agency fails to pay any money due to the Contractor pursuant to this Contract and not subject to dispute within forty-five (45) calendar days after receiving written notice from the Contractor that such payment is overdue;

14.2.2. If, as the result of Force Majeure, the Contractor is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days;

14.2.3. If the Procuring Agency fails to comply with any final decision reached as a result of arbitration;

14.2.4. If the Procuring Agency is in material breach of its obligations pursuant to this Contract and has not remedied the same within forty-five (45) days (or such longer period as the Bidder may have subsequently approved in writing) following the receipt by the Procuring Agency of the Contractor's notice specifying such breach.

C. Obligations of the Contractor

15. **General**

15.1. **Standard of Performance**

15.1.1. The Contractor shall perform the Services and carry out the Services with all due diligence, efficiency and economy, in accordance with generally accepted professional standards and practices, and shall observe sound management practices, and employ appropriate technology and safe and effective equipment, machinery, materials and methods. The Contractor shall always act, in respect of any matter relating to this Contract or to the Services, as a faithful adviser to the Procuring Agency, and shall at all times support and safeguard the Procuring Agency's legitimate interests in any dealings with the third parties;

15.1.2. The Contractor shall employ and provide such qualified and experienced Experts and Sub-Contractors as are required to carry out the Services.

15.2. **Law Applicable to Services**

The Contractor shall perform the Services in accordance with the Contract and in accordance with the Law of Pakistan and shall take all practicable steps to ensure that any of its Experts and Sub-Bidders, comply with the Applicable Law.

16. **Conflict of Interests**

16.1. **Contractor Not to Benefit from Commissions and Discounts**

The remuneration of the Contractor shall constitute the Contractor's sole remuneration in connection with this Contract or the Services, and the Contractor shall not accept for their own benefit any trade commission, discount, or similar payment in connection with activities pursuant to this Contract or to the Services or in the discharge of their obligations under the Contract, and the Contractor shall use their best efforts to ensure that the Personnel, any Subcontractors, and agents of either of them similarly shall not receive any such additional remuneration.

16.2. **Contractor and Affiliates Not to be Otherwise Interested in Project**

The Contractor agree that, during the term of this Contract and after its termination, the Contractor and its affiliates, as well as any Subcontractor and any of its affiliates, shall be disqualified from providing Services (other than the Services and any continuation thereof) for any project resulting from or closely related to the Services.

16.3. **Prohibition of Conflicting Activities**

Neither the Bidder nor its Subcontractors nor the Personnel shall engage, either directly or indirectly, in any of the following activities:

16.3.1. during the term of this Contract, any business or professional activities in the Government's country which would conflict with the activities assigned to them under this Contract;

16.3.2. during the term of this Contract, neither the Contractor nor their Subcontractors shall hire public employees in active duty or on any type of leave, to perform any activity under this Contract;

16.3.3. after the termination of this Contract, such other activities as may be specified in the **SCC.**

17. **Insurance to be Taken Out by the Contractor**

17.1. The Contractor(a) shall take out and maintain, and shall cause any Subcontractors to take out and maintain, at its (or the Sub-contractors', as the case may be) own cost but on terms and conditions approved by the Procuring Agency, insurance against the risks, and for the coverage, as shall be specified in the **SCC**; and (b) at the Procuring Agency's request, shall provide evidence to the Procuring Agency showing that such insurance has been taken out and maintained and that the current premiums have been paid.

18. **Contractor's Actions Requiring Procuring Agency's Prior Approval**

18.1. The Contractor shall obtain the Procuring Agency's prior approval in writing before taking any of the following actions:

18.1.1. appointing such members of the Personnel not provided by the Contractor;

18.1.2. changing the Program of activities; and

18.1.3. any other action that may be specified in the **SCC.**

19. **Reporting Obligations**

19.1. The Contractor shall submit to the Procuring Agency the reports and documents in the numbers, and within the periods as prescribed by the Procuring Agency.

20. **Liquidated Damages**

20.1. **Payments of Liquidated Damages**

The Contractor shall pay liquidated damages to the Procuring Agency at the rate per day stated in the **SCC** for each day that the Completion Date is later than the Intended Completion Date. The total amount of liquidated damages shall not exceed the amount defined in the **SCC**. The Procuring Agency may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not affect the Contractor's liabilities.

20.2. **Correction for Over-payment**

If the Intended Completion Date is extended after liquidated damages have been paid, the Procuring Agency shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment certificate. The

Contractor shall be paid interest on the overpayment, calculated from the date of payment to the date of repayment, at the rates specified in **SCC.**

20.3. **Lack of performance penalty**
If the Contractor has not corrected a Defect within the time specified in the Procuring Agency's notice, a penalty for Lack of performance will be paid by the Contractor. The amount to be paid will be calculated as a percentage of the cost of having the Defect corrected, assessed as specified in the Contractor

21. **Performance Guarantee**

21.1. Within the time stipulated in the acceptance letter from the Procuring Agency, the successful Bidder shall furnish the Performance Guarantee in shape and amount **specified in SCC.**

21.2. The proceeds of the Performance Guarantee shall be payable to the Procuring agency as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

21.3. The Performance Guarantee shall be denominated in the currency of the Contract, or in a freely convertible currency acceptable to the Procuring agency and shall be in the acceptable form as specified in **SCC**.

21.4. The Performance Guarantee will be discharged by the Procuring agency and returned to the Supplier not later than thirty (30) days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless otherwise **specified in SCC.**

22. **Sustainable Procurement**

22.1. The Contractor shall conform to the sustainable procurement contractual provisions, if and as specified in the **SCC.**

D. Contractor's Personnel

23. **Description of Personnel**

23.1. The titles, agreed job descriptions, minimum qualifications, and estimated periods of engagement in the carrying out of the Services of the Contractor's Key Personnel. The Key Personnel listed by title as well as by name are hereby approved by the Procuring Agency.

24. **Removal and / or Replacement of Personnel**

24.1. Except as the Procuring Agency may otherwise agree, no changes shall be made in the Key Personnel. If, for any reason beyond the reasonable control of the Contractor, it becomes necessary to replace any of the Key Personnel, the Contractor shall provide as a replacement a person of equivalent or better qualifications.

24.2. If the Procuring Agency finds that any of the Personnel have (i) committed serious misconduct or have been charged with having committed a criminal action, or (ii) have reasonable cause to be dissatisfied with the performance of any of the Personnel, then the Contractor shall, at the Procuring Agency's written request specifying the grounds thereof, provide as a replacement a person with qualifications and experience acceptable to the Procuring Agency.

24.3. The Contractor shall have no claim for additional costs arising out of or incidental to any removal and/or replacement of Personnel.

E. Obligations of the Procuring Agency

25. **Change in the Applicable Law**

25.1. If, after the date of this Contract, there is any change in the Applicable Law with respect to taxes and duties which increases or decreases the cost of the Services rendered by the Contractor, then the remuneration and reimbursable expenses otherwise payable to the Contractor under this Contract shall be increased or decreased accordingly by agreement between the Parties, and corresponding adjustments shall be made to the amounts referred in the **SCC.**

26. **Services and Facilities**

26.1. The Procuring Agency shall make available to the Contractor and the Experts, for the purposes of the Services and free of any charge, the services, facilities and property described in the Terms of Reference, at the times and in the manner specified in the Terms of Reference.

26.2. In case that such services, facilities and property shall not be made available to the Contractor, the Parties shall agree on (i) any time extension that it may be appropriate to grant to the Contractor for the performance of the Services, (ii) the manner in which the Contractor shall procure any such services, facilities and property from other sources, and (iii) the additional payments, if any, to be made to the Contractor as a result thereof.

F. Payments to the Contractor

27. **Contract Price**

27.1. The price payable shall be in Pakistani Rupees unless otherwise specified in the **SCC**.

28. **Terms and Conditions of Payment**

28.1. Payments will be made to the Contractor according to the payment schedule stated in the **SCC** and as per actual invoice submitted by the Contractor.

28.2. Unless otherwise stated in the **SCC**, the advance payment shall be made against the provision by the Contractor of a bank guarantee for the same amount, and shall be valid for the period stated in the **SCC.** Any other payment shall be made after the conditions listed in the **SCC** for such payment have been met, and the Contractor have submitted an invoice to the Procuring Agency specifying the amount due.

29. **Quality Control Identifying Defects**

29.1. The principle and modalities of Inspection of the Services by the Procuring Agency shall be as indicated in the **SCC.** The Procuring Agency shall check the Contractor’s performance and notify him of any Defects that are

found. Such checking shall not affect the Contractor's responsibilities. The Procuring Agency may instruct the Contractor to search for a Defect and to uncover and test any service that the Procuring Agency considers may have a Defect. Defect Liability Period is as defined in the **SCC**.

29.2. A {INSPECTION}

30. **Correction of Defects, and Lack of Performance Penalty**

30.1. The Procuring Agency shall give notice to the contractor of any Defects before the end of the Contract. The Defects liability period shall be extended for as long as Defects remain to be corrected.

30.2. Every time notice a Defect is given; the contractor shall correct the notified Defect within the length of time specified by the Procuring Agency's notice.

30.3. If the contractor has not corrected a Defect within the time specified in the Procuring Agency's notice, the Procuring Agency will assess the cost of having the Defect corrected, the contractor will pay this amount, and a Penalty for Lack of Performance.

31. **Settlement of Disputes Amicable Settlement**

31.1. The Parties shall use their best efforts to settle amicably all disputes arising out of or in connection with this Contract or its interpretation.

32. **Dispute Settlement**

32.1. **Arbitration**

If any dispute of any kind whatsoever shall arise between the procuring agency and the contractor in connection with or arising out of the Contract, including without prejudice to the generality of the foregoing, any question regarding its existence, validity or termination, or the execution of the contract, the parties shall seek to resolve any such dispute or difference by mutual consultation. If the parties fail to resolve such a dispute or difference even after negotiations or mediation, then the dispute shall be referred within fourteen (14) days in writing by either party to the Arbitrator, with a copy to the other party.

Any dispute in respect of which a notice of intention to commence arbitration has been given, in accordance with **GCC sub-clause 32.1**, shall be finally settled by arbitration. Arbitration may be commenced prior to or after completion of the Contract. Arbitration proceedings shall be conducted in accordance with Arbitration Act 1940. Notwithstanding any reference to arbitration herein, the parties shall continue to perform their respective obligations under the Contract unless otherwise agreed. The Procuring Agency shall continue to pay the Contractor any undisputed amounts due under the Contract during the resolution of any dispute.

Special Conditions of Contract

SECTION VIII. SPECIAL CONDITIONS OF CONTRACT

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the Conditions of Contract. The corresponding clause number of the GCC is indicated in parentheses.

Number of GC Clause

Amendments of, and Supplements to, Clauses in the General Conditions of Contract

Number of GC Clause 1

Definitions

The Procuring Agency is: NESPAK (GT&GED), PRINCIPAL ENGINEER NESPAK HOUSE 1-C, BLOCK N, MODEL TOWN EXTENSION, LAHORE

The Supplier is:

The title of the subject procurement is: GEOTECHNICAL INVESTIGATIONS - CONSULTANCY SERVICES FOR DESIGNING, PROCUREMENT AND DETAILED SUPERVISION OF INFRASTRUCTURE DEVELOPMENT WORKS OF SECTOR F-12, ISLAMABAD

Number of GC Clause 2

Applicable/Governing Law:

The Contract shall be interpreted in accordance with the laws of Islamic Republic of Pakistan

Number of GC Clause 3

Language:

The language of the Contract, all correspondence and communications to be given, and all other documentation to be prepared and supplied under the Contract shall be in **English.**

Number of GC Clause 4

Notices:

The addresses for the notices are:

Procuring Agency:

NESPAK (GT&GED), PRINCIPAL ENGINEER
NESPAK HOUSE 1-C, BLOCK N, MODEL TOWN EXTENSION, LAHORE
+92-322-475-0510
muhammad.ali@nespak.com.pk

Contractor/ Bidder:

[Name, address and telephone number]

The Contractor/ Bidder’s Representative(s)

[Name, address, telephone number and e-mail address]

Number of GC Clause 6.1

The Authorized Representatives are:

For the Procuring Agency:

NESPAK (GT&GED), PRINCIPAL ENGINEER
NESPAK HOUSE 1-C, BLOCK N, MODEL TOWN EXTENSION, LAHORE
+92-322-475-0510
muhammad.ali@nespak.com.pk

For the Bidder:

Name: ……

Designation: ……..

Address: ……..

Number of GC Clause 7

Effectiveness of the contract

The Contractor/Bidder shall be effective within ….. days from the date of signature of the Contract by both parties

Number of GC Clause 8

Commencement of Contract:

The Contractor/Bidder shall provide Non-Consultancy Services from the effective date of contract.

Number of GC Clause 10.2

Expiration of Contract:

The time period shall be ……

Number of GC Clause 14

Termination

In the event of termination of the contract due to any reason as already defined in the General Conditions of Contract, the Bidder shall be responsible for providing to the Authority the Goods till the time of alternate arrangements.

Number of GC Clause 16

Conflict of Interest:

The Procuring Agency reserves the right to determine on a case-by-case basis whether the Bidder should be disqualified from providing goods or services due to a conflict of a nature described in Clause GCC 17.

Number of GC Clause 20

Liquidated Damages

If the Bidder fails to provide services as required under the contract or in case of any data loss/data breach or any incident compromising the data security or other such failures related to any services, the Bidder shall pay to the Procuring Agency as Liquidated Damages at a rate of **1.00%** to **10.00%** of the Contract value, in accordance with the extent of performance failure & the cost of investigating such incidents as judged by the Authority.

Number of GC Clause 21

Performance Guarantee:

The amount of performance guarantee shall be **0%** of the contract price in acceptable form of **Nil**

Number of GC Clause 27

Currency of Payment:

All the payment to be released to the contractor/Bidder shall be in Pakistani Rupees.

Number of GC Clause 28

Payment terms:

Payment will be made to the Bidder against the procured Goods and services according to the actual invoice or running bills submitted by the Bidder against the services provided within the time given in the conditions of the contract.

Number of GC Clause 29

Identifying Defects:

The Authority reserves the right at any time to inspect the premises of the provider to inspect the goods and monitor the goods being provided.

Delivery & Documents

The successful bidder shall be responsible for providing the factual geotechnical investigation report (including borehole/ testpit logs, summary of samples recovered, summary of laboratory test results and detailed laboratory test result sheets) to NESPAK, within the contract period.

Number of GC Clause 31

Following is the guidance for Dispute Resolution

i. If any dispute of any kind whatsoever shall arise between the Authority and the Bidder in connection with or arising out of the Contract... (full clause unchanged)

ii. At future of negotiation the dispute shall be resolved through mediation...

iii. At failure of mediation, arbitration under Arbitration Act 1940...

iv. Cost sharing equally...

v. Proceedings may commence before/after completion...

Notwithstanding any reference to the arbitration herein, the parties shall continue to perform their respective obligations under the Contract.

Rules of procedure for arbitration proceedings:

Any dispute between the Authority and a Bidder shall be referred to arbitration under the laws of Pakistan including Arbitration Act 1940.

Place of Arbitration and Award:

The arbitration shall be conducted in English language and place shall be Islamabad. The award shall be final and binding.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Bid Securing Declaration

Form 9: Bid Securing Declaration

Date: *[insert date (as day, month and year)]*

Bid No.:***P179079***

To: **NESPAK (GT&GED), PRINCIPAL ENGINEER NESPAK HOUSE 1-C, BLOCK N, MODEL TOWN EXTENSION, LAHORE**

We, the undersigned, declare that:

We understand that, according to your conditions, Bids must be supported by a Bid Securing Declaration.

We accept that we will be blacklisted and henceforth cross debarred for participating in respective category of public procurement proceedings for a period of (not more than) six months, if fail to abide with a bid securing declaration, however without indulging in corrupt and fraudulent practices, if we are in breach of our obligation(s) under the Bid conditions, because we:

1. have withdrawn or modified our Bid during the period of Bid Validity specified in the Form of Bid;

2. Disagreement to arithmetical correction made to the Bid price; or

3. having been notified of the acceptance of our Bid by the Procuring Agency during the period of Bid Validity, (i) failure to sign the contract if required by Procuring Agency to do so or (ii) fail or refuse to furnish the Performance Security or to comply with any other condition precedent to signing the contract specified in the Bidding Documents.

We understand this Bid Securing Declaration shall expire if we are not the successful

Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) twenty-eight (28) days after the expiration of our Bid.

Contract Form

SECTION IX: CONTRACT FORMS

THIS AGREEMENT made the _____ day of _____ 20_____ between **NESPAK (GT&GED), PRINCIPAL ENGINEER NESPAK HOUSE 1-C, BLOCK N, MODEL TOWN EXTENSION, LAHORE**

(hereinafter called "the Procuring Agency") of the one part and *[name of Bidder]* of *[city and country of Bidder]* (hereinafter called "the Bidder") of the other part:

WHEREAS the Procuring Agency invited Bids for provision of goods, viz., **GEOTECHNICAL INVESTIGATIONS - CONSULTANCY SERVICES FOR DESIGNING, PROCUREMENT AND DETAILED SUPERVISION OF INFRASTRUCTURE DEVELOPMENT WORKS OF SECTOR F-12, ISLAMABAD (*P179079*)** and has accepted a Bids by the Bidder for the provision of Goods in the sum of *[contract price in words and figures]* (hereinafter called "the Contract Price").

NOW THIS CONTRACT WITNESSETH AS FOLLOWS:

1. In this Contract words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.

2. The following documents shall be deemed to form and be read and construed as part of this Contract, In the event of any ambiguity or conflict between the Contract Documents listed below, the order of precedence shall be the order in which the Contract Documents are listed below:-

1. This form of Contract;
2. the Form of Bids and the Price Schedule submitted by the Bidder;
3. the Schedule of Requirements;
4. the Technical Specifications;
5. the Special Conditions of Contract;
6. the General Conditions of the Contract;
7. the Procuring Agency's Letter of Acceptance; and
8. [*add here: any other documents*]

3. In consideration of the payments to be made by the Procuring Agency to the Bidder as hereinafter mentioned, the Bidder hereby covenants with the Procuring Agency to provide the Goods related services and to remedy defects therein in conformity in all respects with the provisions of the Contract.

4. The Procuring Agency hereby covenants to pay the Bidder in consideration of the provision of Goods and the remedying of defects therein, 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 Contract to be executed in accordance with their respective laws the day and year first above written.

Signed, sealed, delivered by _____the _____ (for the Procuring Agency)

Witness to the signatures of the Procuring Agency:

……

Signed, sealed, delivered by _____the _____ (for the Procuring Agency)

Witness to the signatures of the Bidder: ……

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Integrity Pact

Integrity Pact

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

Contract Number: Contract Value: Contract Title:

Dated:

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

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

[Name of Supplier] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoP and has not taken any action or will not take any action to circumvent the above declaration, representative or warranty.

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

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

Performance Guarantee Form

Performance Guarantee Form

To: **NESPAK (GT&GED), PRINCIPAL ENGINEER NESPAK HOUSE 1-C, BLOCK N, MODEL TOWN EXTENSION, LAHORE**

WHEREAS *[name of Bidder]* (hereinafter called "the Bidder") has undertaken, in pursuance of Contract No. *[reference number of the contract]* dated *[insert date]* for provision of Goods*(*hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said Contract that the Bidder shall furnish you with a Bank Guarantee by a reputable bank for the sum specified therein as security for compliance with the Bidder's performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Bidders guarantee:

THEREFORE, WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Bidder, up to a total of *[amount of the guarantee in words and figures]*, and we undertake to pay you, upon your first written demand declaring the Bidder to be in default under the Contract and without cavil or argument, any sum or sums within the limits of *[amount of guarantee]* as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the: *[insert date]*

Signature and seal of the Guarantors

_____

[name of bank or financial institution]

_____

[address]

_____

[date}

Annexure

Bidding Document

Information (Read-Only)

See Form Under Additional Forms and Documents: **Bidding Document** (page number: 91)

A-1

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **A-1** (page number: 105)

A-2

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **A-2** (page number: 106)

A-3

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **A-3** (page number: 107)

A-4

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **A-4** (page number: 108)

A-5

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **A-5** (page number: 109)

A-6

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **A-6** (page number: 110)

A-7

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **A-7** (page number: 111)

Technical Specifications

Information (Read-Only)

See Form Under Additional Forms and Documents: **Technical Specifications** (page number: 112)

Procurement Forms

Past Construction Experiences

The Applicant shall meet the following minimum criteria:

Successful experience as contractor in the execution of at least five (5) projects involving bulk of geotechnical investigations within the last three (03) years. This experience should specifically be of geotechnical investigations of similar nature.
Firms that have previously undertaken geotechnical investigations assignments with NESPAK and have received unsatisfactory performance certificate within last six (06) months shall be disqualified.

See Form Under Additional Forms and Documents: **Past Construction Experiences** (page number: 144)

Contractor's Key Personnel Representative and Their Schedules

The Applicant must have in his employment, suitably qualified and relevant experience personnel to fulfill the positions tabulated below. The Applicant will supply information as per the format specified in the Application Form A-3 attached in Annex-A.

Sr. No.	Position	Qualification	No.	Minimum relevant Experience (Years)
1	Technical Manager	B.Sc. Civil Engg.	1	5
2	Site Geologist/ Supervisor / Engineer	M. Sc. Geology/ B.Sc. Civil Engg. / B.Sc. Geological Engg. or Equivalent	1	2
3	HSE Supervisor	HSE Certification course	1	1
4	Driller	Literate	1	3
5	Skilled Labour	-	As Required	-

See Form Under Additional Forms and Documents: **Contractor's Key Personnel Representative and Their Schedules** (page number: 150)

Past Experience and Completed Contracts

Attach copy of Letter of Awards / Project Completion Certificates for any five (5) latest projects involving bulk of geotechnical investigations within the last three (03) years.

See Form Under Additional Forms and Documents: **Past Experience and Completed Contracts** (page number: 154)

Historical Contract Non-Performance, and Pending Litigation and Litigation History

The Applicant should provide accurate information on any litigation or arbitration resulting from Contracts completed or under execution over the last three (03) years.A consistent/ overwhelming history of litigation against the Applicant may result in rejection of the application. In case an Applicant claims Nil litigation, he shall submit the same statement on the letter head of his company.

See Form Under Additional Forms and Documents: **Historical Contract Non-Performance, and Pending Litigation and Litigation History** (page number: 155)

Financial Capacity and Net Worth Evaluation Form

The Applicant shall also provide evidence of financial health such as bank account statements, available line of credits, etc., to show the soundness of the Applicant's financial position for procurement of geotechnical investigations works. The Applicant will provide annual turnover of the geotechnical investigation works carried out by him during the last three years.

See Form Under Additional Forms and Documents: **Financial Capacity and Net Worth Evaluation Form** (page number: 157)

Average Annual Turnover

The Applicant shall meet the following minimum criteria:

Average annual turnover which is also termed as income from contracting for procurement of geotechnical investigations and is defined as billing for works completed during the last three (3) years of at least Rs. 5.0 million or the said figure has been achieved in any year during the last three (03) years. Documentary proof of the same shall be submitted in the form of Letter of Awards, completion certificates etc.

See Form Under Additional Forms and Documents: **Average Annual Turnover** (page number: 159)

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

Additional Forms and Documents

NATIONAL ENGINEERING SERVICES PAKISTAN (PVT) LIMITED
NESPAK HOUSE: 1-C, Block-N, Model Town Extension, Lahore - 54700, Pakistan
Established in 1973

Ref: 4861/024/MAN/01/0719 Date: October 29, 2026

CONSULTANCY SERVICES FOR DESIGNING, PROCUREMENT AND DETAILED SUPERVISION OF INFRASTRUCTURE DEVELOPMENT WORKS OF SECTOR F-12, ISLAMABAD

Invitation of Bids for Geotechnical Investigations (Field and Laboratory Works)

Dear Sir,

Bids (**Technical and Financial**) are invited through **EPADS v2.0** in accordance with the attached **BOQ** and **qualification criteria** uploaded on EPADS v2.0 from drilling Contractors/Companies for carrying out the geotechnical investigations for the subject project.

The companies capable of carrying out subject work are requested to provide their Company's Profile and the following documents along with their sealed bids:

1. PEC Registration Certificate
2. FBR & PRA Registration Certificates
3. List of Similar Projects completed during last three years
4. Financial Capability
5. Equipment Capability
6. Personnel Capability
7. Litigation History
8. HSE Policies

The work comprises; execution of boreholes up to maximum depth of 25.0 m below natural surface level (NSL) by Straight Rotary/heavy percussion machine, continuous coring in bedrock, excavation of testpits performance of SPTs in boreholes, collection of disturbed/undisturbed soil samples, performance of field density tests in testpits, collection of water samples from boreholes/ testpits and laboratory testing of selected soil/rock/ water samples. The field and laboratory work shall have to be completed according to the following time schedule:

Sr. No.	Minimum No. of Straight Rotary Rigs/ Heavy Percussion Machine Required	Time for Completion of Field Investigations	Time for Completion of Laboratory Testing	Total Time for Completion of Field & Laboratory Investigations
1	1	15 Days	10 Days	25 Days

Your bid shall be valid for a time period of ninety (90) days after the bid opening. **The work shall be executed under the instructions and full-time supervision of NESPAK engineers/geologists and the successful bidder shall mobilize to the site on one (01) day notice after issuance of Letter of Award/Acceptance.**

The coordinates and ground elevations of all the investigation points by total station shall have to be provided to NESPAK before completion of investigation at site by the Contractor. The approved laboratory, where testing is to be carried out, shall be pursued by the successful bidder for timely completion of the assigned laboratory testing.

The successful bidder shall be responsible for providing the factual geotechnical investigation report (including borehole/ testpit logs, summary of samples recovered, summary of laboratory test results and detailed laboratory test result sheets) to NESPAK, within the contract period.

Telephone : +92-42-99090000 Fax : +92-42-99231950
E-mail : info@nespak.com.pk P.O.Box : 1351, Lahore, Pakistan
Website : www.nespak.com.pk

TÜV AUSTRIA

The bidders shall submit a bid securing declaration amounting to PKR 50,000/- before the bid submission deadline at the address of the undersigned.

Your **most competitive** bids (**inclusive of all taxes**) in accordance with the BOQ and qualification criteria, must be submitted through **EPADS v2.0** by 1100 hours on or before **November 05, 2026.** Technical bids would be electronically opened on the same day at 1130 hours.

Financial bids would be opened after evaluation of Technical bids, at a time, date and venue announced and communicated to the technically responsive bidders in advance. However, Final decision to accept/reject any or all the bids as per PPRA rules solely lies with the undersigned. The entire work shall be carried out in accordance with the attached Technical Specifications.

for National Engineering Services Pakistan (Pvt.) Limited

(MUHAMMAD ABDUL NASIR)
General Manager/Head
Geotechnical & Geoenvironmental Engineering Division, NESPAK

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

CONSULTANCY SERVICES FOR DESIGNING, PROCUREMENT AND DETAILED SUPERVISION OF INFRASTRUCTURE DEVELOPMENT WORKS OF SECTOR F-12, ISLAMABAD

GEOTECHNICAL INVESTIGATIONS
BILL OF QUANTITIES

Sr. No.	Description	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
A.	**FIELD INVESTIGATIONS**				
A1	Mobilization and demobilization of at least One (01) straight rotary drilling rig / percussion boring equipment alongwith allied accessories at site including setting-up and shifting of equipment from one investigation point to another. The equipment shall be adequate in quantity to meet the time schedule.	L.S.	Job		
A2	Execution of Six (06) boreholes of 20 m - 25 m depth below NSL in overburden soils or upto rock strike level, whichever is met earlier, by straight rotary drilling / precussion boring method including backfilling of boreholes to their original position using cement-sand-bentonite mix. Minimum permissible diameter of borehole is 200 mm for precussion method and 100 mm for straight rotary method.	L.M.	100		
A3	Continuous core drilling (NX / NQ size in general) in bedrock up to a maximum depth of 5 m below rock strike level or as directed by Engineer, including preservation of core samples in core boxes, waxing of core samples, photography of rock cores and transportation of core samples to the laboratory.	L.M.	30		
A4	Performance of Standard Penetration Tests (SPTs) in boreholes generally at 1 m depth interval or as necessary along with collection of SPT samples, including their labelling, packing, storage & transportation to an approved testing laboratory.	No.	92		
A5	Collection of relatively undistrubed soil samples from boreholes through Denison/ Pitcher/ Shelby sampler, including their waxing, labelling, packing, storage & transportation to an approved testing laboratory.	No.	8		
A6	Excavation of Six (6) testpits up to a maximum depth of 1.5 m below NSL or up to rock strike level, whichever is met earlier at proposed road locations inclusing backfilling of pits to original condition.	L.M.	9		
A7	Performance of field density tests by sand replacement method in testpits generally @ 1 test/pit at selected horizons in testpits including determination of in-situ bulk and dry density and collection of small disturbed samples in moisture tins for moisture content determination in laboratory by oven drying method.	No.	6		
A8	Collection of composite bulk soil samples from onsite testpits including their labeling, packing, storage & transportation to an approved testing laboratory.	No.	5		
A9	Collection of composite bulk soil samples (minimum weight 50-100 kg.) from Borrow Areas including their labelling, packing, storage & transportation to an approved laboratory.	No.	3		
A10	Collection of water samples (if encountered) from boreholes & testpits including their labelling, packing, storage & transportation to an approved testing laboratory.	No.	4		
	Sub-Total A =				

Establishment of coordinates and ground elevations of all the boreholes and testpits using Total Station / Differential GPS is included in the scope of work. The coordinates should be provided with reference to a permanent bench mark established at site.

Straight rotary drilling method will be used for execution of borehole in sandy / clayey soil & bedrock. However, percussion method of boring will be required if gravelly strata encountered

Contractor will be responsible for arrangement of Personnel Protective Equipments (PPEs) such as safety helmets, masks and jackets for NESPAK site supervisory / visiting staff.

All soil / rock / water samples must be labelled, stored and transported as per ASTM requirements. The area and clearance ratio of thin walled tubes should be in strict compliance with relevant ASTM standard.

CONSULTANCY SERVICES FOR DESIGNING, PROCUREMENT AND DETAILED SUPERVISION OF INFRASTRUCTURE DEVELOPMENT WORKS OF SECTOR F-12, ISLAMABAD

GEOTECHNICAL INVESTIGATIONS
BILL OF QUANTITIES

Sr. No.	Description	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
B.	**LABORATORY TESTING**				
B1	Sieve Analysis	No.	35		
B2	Hydrometer Analysis	No.	15		
B3	Liquid and Plastic Limits	No.	20		
B4	Natural Moisture Content	No.	20		
B5	Bulk & Dry density	No.	20		
B6	Consolidation with Swell Pressure Measurement	No.	4		
B7	Unconfined Compression	No.	4		
B8	Uniaxial Compression	No.	6		
B9	Point Load Strength Index	No.	6		
B10	Direct Shear	No.	4		
B11	Modified AASHTO Compaction	No.	8		
B12	3-point soaked CBR	No.	8		
B13	Chemical Analysis of Soil Sample i/c sulpahte content, chloride content, organic matter	No.	4		
B14	Chemical Analysis of Water Samples i/c TDS, Cl, SO4, pH etc.	No.	4		
	Sub-Total B =				
	Total (A+B)=				

Name of Laboratory:_____

CONSULTANCY SERVICES FOR DESIGNING, PROCUREMENT AND DETAILED SUPERVISION OF INFRASTRUCTURE DEVELOPMENT WORKS OF SECTOR F-12, ISLAMABAD

1. Qualification Criteria

Qualification will be based on the criteria given in the following paras regarding the Applicant's experience, personnel and equipment capabilities, past performance with NESPAK, financial position and litigation history, as demonstrated by the Applicant's responses in the Forms attached as Annex-A to this Document. The Employer reserves the right to waive minor deviations, if these do not materially affect the capability of an Applicant to perform the contract by the Applicant.

Experience and resources of the Company intended to be employed as sub-contractor shall not be taken into account in determining the Applicant's compliance with the qualifying criteria. However, for joint venture, collective experience, resources and financial soundness of all partners shall be considered.

1.1 General Information

The Applicant shall provide general information of his firm as per the format specified in the Application Form A-1 attached in Annex-A.

1.2 Experience of the Firm

The Applicant shall meet the following minimum criteria:

Successful experience as contractor in the execution of at least five (5) projects involving bulk of geotechnical investigations within the last three (03) years. This experience should specifically be of geotechnical investigations of similar nature. The Applicant will supply information as per the format specified in the Application Form A-2 attached in Annex-A.

1.3 Eligibility Based on Past Performance with NESPAK

Firms that have previously undertaken geotechnical investigations assignments with NESPAK and have received unsatisfactory performance certificate within last six (06) months shall be disqualified

1.4 Personnel Capabilities

The Applicant must have in his employment, suitably qualified and relevant experience personnel to fulfill the positions tabulated below. The Applicant will supply information as per the format specified in the Application Form A-3 attached in Annex-A.

Sr. No.	Position	Qualification	No.	Minimum relevant Experience (Years)
1	Technical Manager	B.Sc. Civil Engg.	1	5
2	Site Geologist/ Supervisor / Engineer	M. Sc. Geology/ B.Sc. Civil Engg. / B.Sc. Geological Engg. or Equivalent	1	2

Sr. No.	Position	Qualification	No.	Minimum relevant Experience (Years)
3	HSE Supervisor	HSE Certification course	1	1
4	Driller	Literate	1	3
5	Skilled Labor	-	As Required	-

1.5 Equipment Capabilities

The Applicant should own, or have assured access to the following key items of equipment in full working order, and must demonstrate that, based on known commitments, these will be available for deployment on the proposed works.

Sr. No.	Equipment Type & Characteristics	Minimum Number Required
1	Straight Rotary Drilling rig complete in all respects including drilling rods, bits, mud pumps etc. along with at least one stand-by rig. The equipment shall be capable to obtain core recovery more than 80 percent and to complete the investigations within the time schedule.	1
2	Percussion Boring Set (>250 mm diameter), complete in all respects including tripod, chisel / bit etc.	1
3	Casing set having various diameters for all types of boring at least 25 m in length with casing bits.	1
4	Standard penetration test equipment complete in all respects including all rods, split spoon sampler, hammer and containers etc.	1
5	Core barrels (double tube) (NX Size) including coring bits.	As required
6	Shelby/Denison/Pitcher samplers	1 each
7	UDS tubes & Split Spoon Samplers	As Required
8	Hydraulic jacks with all accessories for the extraction of casings	1
9	Electrically operated sounder for groundwater level measurement	1
10	Wooden box for the preservation of undisturbed soil/rock samples	As required
11	Test pit excavation equipment/hand tools complete in all respect	1
12	Field density test apparatus (with 6 and 12 inches dia. cone) complete in all respect	1 each
13	Transport for mobilization of equipment	As required

The Applicant will supply information as per the format specified in the Application Form A-4 attached in Annex-A.

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1.6 Financial Capabilities

The Applicant shall meet the following minimum criteria:

1) Average annual turnover which is also termed as income from contracting for procurement of geotechnical investigations and is defined as billing for works completed during the last three (3) years of at least Rs. 5.0 million or the said figure has been achieved in any year during the last three (03) years. Documentary proof of the same shall be submitted in the form of Letter of Awards, completion certificates etc.

The Applicant shall also provide evidence of financial health such as bank account statements, available line of credits, etc., to show the soundness of the Applicant's financial position for procurement of geotechnical investigations works. The Applicant will provide annual turnover of the geotechnical investigation works carried out by him during the last three years. The Applicant will supply annual turnover information as per the format specified in the Application Form A-5 attached in Annex-A.

1.7 Litigation History

The Applicant should provide accurate information on any litigation or arbitration resulting from Contracts completed or under execution over the last three (03) years. The Applicant will supply information as per the format specified in the Application Form A-6 attached in Annex-A. A consistent/ overwhelming history of litigation against the Applicant may result in rejection of the application. In case an Applicant claims Nil litigation, he shall submit the same statement on the letter head of his company.

1.8 Application of Health, Safety and Environmental Standards

The Applicant should provide the HSE Policies and supporting documentary evidence for the following:

i) First Aid Box
ii) Personnel Protective Equipments (PPEs)
iii) Standard Operating Procedures (SOPs)
iv) Health, Safety and Environmental (HSE) Policies
v) HSE staff

The Applicant will supply information as per the format specified in the Application Form A-7 attached in Annex-A.

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Annex-A

Application Form A-1 **Page___ of ____Pages**

General Information

All individual Applicants applying for qualification are requested to complete the information in this form. Nationality information (if applicable) is also to be provided for foreign owners as required under the PEC Bye-Laws as a Partnership.

1.	Name of Firm	
2.	Head Office Address	
3.	Telephone	Contact Person: Name: Title: Cell No.
4.	Fax	E-mail
5.	Place of Incorporation/Registration Certificates of the firm*	Year of incorporation/registration

*** Registration certificates must include:**

- Valid registration with Pakistan Engineering Council (PEC)
- Valid registration with Federal Board of Revenue (FBR)
- Valid registration with concerned Provincial Revenue Authority (PRA)
- Proof of active taxpayer of FBR & PRA

Application Form A-2 **Page___ of ____Pages**

Experience of the Firm

Name of Applicant: _____

Sr. No.	Name of Project	Value of Geotech Contract* (Pak Rs.)	Contract Duration

Attach copy of Letter of Awards / Project Completion Certificates for any five (5) latest projects involving bulk of geotechnical investigations within the last three (03) years.

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Application Form A-3 **Page___ of ____Pages**

Personnel Capabilities

Name of Applicant: _____

Sr. No.	Name of Person	Qualification	Designation/ Position*	Total Experience

Attach CVs of the Key Staff Members.

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Application Form A-4 **Page___ of ____Pages**

Equipment Capabilities

Name of Applicant: _____

Sr. No.	Equipment Description	Capacity	Number of Equipment	Working Condition a) Very good b) Good c) Satisfactory	Current Location

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Application Form A-5 **Page___ of ____Pages**

Financial Capabilities

Name of Applicant: _____

Year	Annual Turnover (in PKR)
2024 – 2025	
2023 – 2024	
2022 – 2023	

Note: Financial soundness certificate from the bank(s) as specified in section 1.6 must be provided by the Applicant

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Application Form A-6 **Page___ of ____Pages**

Litigation History

Name of Applicant: _____

Year	Award for or against Applicant	Name of Client, cause of litigation, and matter in dispute	Disputed amount (current value Pak Rs. or equivalent)

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Health, Safety and Environmental (HSE) Policies Personal Protective Equipment (PPE) and Standard Operating Procedures (SOP) of the Contractor

Name of Applicant: _____

The Applicant should provide the following policies/supporting documentary evidence as required in Para 1.8.

A. HSE Policies

Please attach HSE Policies

B. Details of PPE Available with the Contractor

Sr. No.	Type of PPE	Total Number

C. Details of SOPs of the Contractor

Please attach the copies of SOPs

Annex-A

Application Form A-1 **Page___ of ____Pages**

General Information

All individual Applicants applying for qualification are requested to complete the information in this form. Nationality information (if applicable) is also to be provided for foreign owners as required under the PEC Bye-Laws as a Partnership.

1.	Name of Firm	
2.	Head Office Address	
3.	Telephone	Contact Person: Name: Title: Cell No.
4.	Fax	E-mail
5.	Place of Incorporation/Registration Certificates of the firm*	Year of incorporation/registration

*** Registration certificates must include:**

- Valid registration with Pakistan Engineering Council (PEC)
- Valid registration with Federal Board of Revenue (FBR)
- Valid registration with concerned Provincial Revenue Authority (PRA)
- Proof of active taxpayer of FBR & PRA

Application Form A-2 **Page___ of ____Pages**

Experience of the Firm

Name of Applicant: _____

Sr. No.	Name of Project	Value of Geotech Contract* (Pak Rs.)	Contract Duration

Attach copy of Letter of Awards / Project Completion Certificates for any five (5) latest projects involving bulk of geotechnical investigations within the last three (03) years.

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Application Form A-3 **Page___ of ____Pages**

Personnel Capabilities

Name of Applicant: _____

Sr. No.	Name of Person	Qualification	Designation/ Position*	Total Experience

Attach CVs of the Key Staff Members.

Application Form A-4 **Page___ of ____Pages**

Equipment Capabilities

Name of Applicant: _____

Sr. No.	Equipment Description	Capacity	Number of Equipment	Working Condition a) Very good b) Good c) Satisfactory	Current Location

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Application Form A-5 **Page___ of ____Pages**

Financial Capabilities

Name of Applicant: _____

Year	Annual Turnover (in PKR)
2024 – 2025	
2023 – 2024	
2022 – 2023	

Note: Financial soundness certificate from the bank(s) as specified in section 1.6 must be provided by the Applicant

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Application Form A-6 **Page___ of ____Pages**

Litigation History

Name of Applicant: _____

Year	Award for or against Applicant	Name of Client, cause of litigation, and matter in dispute	Disputed amount (current value Pak Rs. or equivalent)

Application Form A-7 **Page___ of ____Pages**

Health, Safety and Environmental (HSE) Policies Personal Protective Equipment (PPE) and Standard Operating Procedures (SOP) of the Contractor

Name of Applicant: _____

The Applicant should provide the following policies/supporting documentary evidence as required in Para 1.8.

A. HSE Policies

Please attach HSE Policies

B. Details of PPE Available with the Contractor

Sr. No.	Type of PPE	Total Number

C. Details of SOPs of the Contractor

Please attach the copies of SOPs

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TECHNICAL SPECIFICATIONS

GEOTECHNICAL INVESTIGATIONS

1. GENERAL

1.1 Brief description of the site

_____

1.2 Access to the site

_____

1.3 Scope of the contract

The purpose of the work specified herein is to determine the type, nature, thickness, structure and texture of the various subsurface strata and the conditions and the engineering characteristics of the subsurface materials as they exist to the depth and at the locations specified. This is to be accomplished by means of light percussion boring/hand augering/straight rotary drilling, and excavation of test pits, in situ testing and collection of disturbed/undisturbed samples from the project site. The selected samples of soil and water shall be tested in the approved laboratory for their physical, chemical and engineering properties. The Bill of Quantities for geotechnical investigations is given in Bidding Data/Bill Invitation Letter. The locations of boreholes and testpits will be finalized by the Engineer in the field.

1.4 Work under instructions of engineer

The contractor shall carry out the specified works under the supervision of the Engineer, his Representative or the Representative's assistants.

1.5 Mobilization

Within two (02) days of receiving a written order to commence the works or as per letter of award, the contractor shall mobilize to site for the execution of work as per agreed schedule. Mobilization shall consist of the delivery at the site of all plant, equipment, accessories, spares, materials, and supplies to be furnished by the Contractor; the complete assembly of all such plant and equipment in a satisfactory working order and satisfactory storage at the Site of all materials and supplies. The equipment mobilized shall include but not limited to the items listed in Clause 1.6.

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1.6 List of equipment which must be included but not limited to in items mobilized by the Contractor.

	Description	Minimum quantity
1)	Rotary/Percussion drilling rig capable of drilling down to maximum required depth with water or bentonite mud, complete with all necessary casing, tools, rods and drilling equipment e.t.c.	As mentioned in bill of quantities
2)	Casing of different diameters capable of boring/drilling upto maximum required depth in overburden. Minimum diameter of hole shall not be less than 6 inch at the bottom of the hole.	As per project requirement
3)	Hydraulic jacks with all accessories and spares for the extraction of casings after completion of holes.	As per project requirement
4)	Hand auger with all accessories capable to drill a borehole upto maximum required depth	As per project requirement
5)	Denison sampler	As per project Requirement
6)	Pitcher sampler	As per project requirement
7)	Soil sampling tubes for Denison & Pitcher samplers	As per project requirement
8)	Open drive sampler tubes, shelby tubes	As per project requirement
9)	Standard penetration test equipment including AW, B rods and split spoon samplers and containers for sample preservation	As per project requirement
10)	Electrically operated sounder for groundwater level measurements	As per project requirement
11)	Field density test apparatus with accessories	As per project requirement
12)	Wooden box for the preservation of block samples	As per project requirement

1.7 Permission to start the works

The Contractor shall not be allowed to commence the works until he has mobilized all the equipment required to complete works as per BOQ and any delay caused thereby shall not be allowed as a basis of a claim for additional expenditure or an extension of

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the time for completion of the Contract.

1.8 Demobilization

Demobilization shall consist of the removal from the site of all plant and equipment after completion of the work and leaving the site clear, clean and tidy to the satisfaction of the Engineer. Engineer's permission shall be sorted before demobilization from the site.

1.9 Plant and equipment

The Contractor shall keep on the site sufficient plant to meet the requirements of the work. The plant and equipment shall be in good operating condition and capable of efficiently performing the work as set forth.

1.10 Drillers and supervisory staff

The Contractor shall have on site, at all times, qualified, experienced, orderly and thoroughly competent persons including geotechnical engineers or engineering geologist who shall conduct and supervise drilling, boring operations, sampling, logging and in situ testing. The Contractor shall remove from the site any of his employees that in the opinion of the Engineer do not meet these requirements.

1.11 Setting up at each hole

The Contractor shall make all the necessary arrangements for setting up at the location of each hole, everything necessary for carrying out the work specified at that hole, and for the preparation and reinstatement of the work areas, improvement to access routes and all other temporary works.

1.12 Housing and storage

The Contractor shall make his own arrangements for housing of his personnel and storage of the equipment and supplies at the site. However, the Contractor shall provide a temporary site office properly furnished for the Engineer or Engineer's Representative.

1.13 Health, Safety and Environmental (HSE) Measures

a) The Contractor shall ensure that all necessary measures are undertaken to maintain good health of its staff and hygienic conditions at the job site.

b) The Contractor shall ensure the safety of all the personnel engaged in the WORK including the Employer and engineer supervising staff, and shall take necessary precautions and preventive measures to that end including the use of personal protective equipment (PPE) and safe working procedures.

c) The Contractor shall take effective steps to assure that during the Work no air, water or soil pollution is generated

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1.14 Interference with others

It is possible that the Engineer may engage some other agency for the executions of other investigations at the Project site, which will start within the period of this contract. The Contractor shall ensure that neither he nor his staff cause any interference with as well as delays to any other agency working on or near the site and that his plant and equipment or supplies shall not prevent or hinder the movement of personnel or of plant, equipment or supplies belonging to others who are lawfully in the area. If the Contractor receives any complaint either verbally or in writing that his operations have caused or causing delays or hindrance to others, he shall inform the Engineer immediately and pass on the original or a copy of any written complaint received. Likewise the Engineer shall inform the Contractor of such complaint which he has received concerning the Contractor's operations.

1.15 Measurement of quantities

The quantities shown in Bill of Quantities are only approximate. The payment shall be made on the basis of actual work performed in accordance with the specifications.

1.16 Submission of Field Data

The Contractor shall supply complete field investigation data to the Engineer within the two (02) days after the completion of field work. This data shall include copies of all approved logs and test records prepared during the course of the contract including any alterations or amendments required by the Engineer. No separate payment shall be made for this work.

1.17 Order of work

The order of the execution of the work will be specified by the Engineer.

2 DEFINITIONS

2.1 Holes

Any borehole or drill hole is referred to generally as a hole

2.2 Boring

Boring shall mean advancing a hole using machine-driven bailer, chisel or clay-cutter. The rig used shall be called a boring rig and the hole formed shall be called a borehole.

2.3 Drilling

Drilling shall mean the use of a machine-driven rig for advancing a hole in rock or soil required with a rotary cutting tool. The hole formed shall be called a drill hole and the rig used shall be called a drilling rig, which term shall include a boring rig with auxiliary equipment for drilling.

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2.4 Sample tube

A 'Sample tube' shall mean the container into which undisturbed soil is forced during sampling and in which the soil is extracted from the ground and stored, after sealing, against loss of moisture.

2.5 Sampler

A 'sampler' shall mean the sample tube and all the accessories that are required to obtain the disturbed or undisturbed sample of soil.

3. METHODS OF WORKING

3.1 Areas to be investigated

The limits of the project site and the approximate locations of the boreholes and tespits shall be indicated on Drawing, but the Engineer may change the locations within the limits of the area to be investigated during the progress of the work. The Engineer will specify from time to time during the Contract period the exact location and reference number of all holes/testpits, but locating the holes/testpits accurately in the field shall be the Contractor's responsibility.

3.2 Boring

The Engineer will indicate the type and maximum depth likely for each hole before it is started, and the Contractor shall use the equipment necessary for continuing the hole to that depth.

3.3 Casing

A hole shall be cased in any stratum which is not sufficiently strong to stand unsupported, or when directed by the Engineer's Representative.

The Contractor shall ensure that casings are of a suitable size and are inserted in such a manner so as to render them recoverable. The Contract Rates for boring and drilling shall be deemed to include the supply, insertion and recovery of casing and any damage, loss or delay caused by difficulty or failure in recovery of casing.

3.4 Removal of casing

Casing shall not be removed from any hole nor any filling introduced into a hole until permission is given by the Engineer. This permission will normally be given as soon as work in the hole is completed and the groundwater level has been measured in accordance with Clause 3.8 of Technical Specifications.

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3.5 Display of material removed

The material removed from all holes, except for disturbed samples in their containers and undisturbed samples in their samplers shall be laid out in sequence on a clean dry board for examination by the Engineer. The material shall be displayed in such a manner that, when required by the Engineer, further small, disturbed samples can be taken unmixed with other material. No material shall be removed from the board until authorized by the Engineer. All the material displayed shall be protected from adverse effects of the weather including hot sun and rain.

3.6 Supplementary holes

Holes that are abandoned shall be supplemented by other holes adjacent to the original location. In addition, holes from which unsatisfactory samples have been obtained and/or in which unsatisfactory field tests have been performed due to the negligence of the Contractor shall be supplemented by other holes adjacent to the original location. The exact location of such supplementary holes shall be specified by the Engineer in the field.

Penetration to the depth where the unacceptable holes were abandoned or to the depths where unsatisfactory samples were obtained or unsatisfactory field testing was performed may be made by any method selected by the Contractor that in the opinion of the Engineer will permit satisfactory field testing and sampling below those depths. The deepening of the supplementary hole below the depth at which original hole was abandoned shall be carried out using only the specified method of advancing the hole.

No payment will be made for that portion of the supplementary hole above the depth paid for in the unacceptable hole.

3.7 Daily field records

Each day during the work on the Site, the Contractor shall hand over to the Engineer the original and a legible copy of the records of the previous day's work containing the following information in respect of each hole where work in progress.

a) Name of Contract.

b) Number, type and size of the hole

c) Date and hours worked on the Site

d) Brief description of the weather

e) Total depth of hole at the beginning and end of each shift

f) Make and type of machine in use

g) The groundwater levels in accordance with Clause 3.8 and the depths at which water inflows were encountered.

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h) The approximate quantity of water poured into a hole and the time when it was done.

i) Diameter of the hole and depths of any reduction in diameter.

j) The length of hole for which casing was used and the diameter of such casing.

k) A full geotechnical description of each stratum encountered.

l) Depth below ground of each change of stratum

m) Reference number, depths and other details of all small and large disturbed samples, field moisture content samples and undisturbed samples (giving serial number and type of the sampler, length of sample recovered and number of blows used if driven).

n) Commencing and terminating depths of each drilling run, details of type of bit used and length of samples recovered.

o) Data obtained during in situ tests, together with the water level in the hole during the test on specified proformas.

p) Details of any instrumentation installed

q) Details of backfilling and grouting including the quantity of material used.

r) Details of delays and breakdowns.

s) Any other relevant information and details of any other operation for which the Contractor may require additional payments.

3.8 Ground Water level

Readings of groundwater levels in all holes and that the depth of the hole in progress shall be taken with an electrically operated sounder and by other means recorded in the daily field records and logs at the following times:-

a) Before work commences in the morning.

b) After work has finished in the evening, both before and after water (if any) is added to stabilize the hole.

c) When a hole has been completed.

d) Immediately prior to backfilling a hole

e) At the time of undisturbed sampling and standard penetration and other in situ tests.

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f) At the completion of the field work.

An electrically operated sounder in proper working order shall be maintained at each hole where work is in progress whether or not water has previously been observed in that hole.

The level of the bottom of the hole and the bottom of the casing, if any, shall be measured and recorded at the same time as each water level reading.

The times when water levels are measured shall also be recorded.

If, at any time, the level of the water in a hole fluctuates, a record shall be kept of the fluctuation. If the hole 'makes or 'loses' water the Engineer shall be informed immediately.

Any addition of water to assist the advance of a hole shall be recorded and any extraordinary smell or color of the water and any other unusual circumstances shall be reported. Water shall not be added or removed from a hole when in the opinion of the Engineer such action might adversely affect undisturbed sampling and the results of in situ tests.

3.9 No additional payment for water level observations

The Contract Rates for drilling and boring shall be deemed to include the cost of taking and recording all water levels as specified in Clause 3.8.

3.10 Backfilling of holes

Boreholes shall be backfilled with grout as explained below or as directed by the Engineer: -

Grouting for backfilling holes shall consist of a mud formed by mixing one part by weight of bentonite with 10 parts of water, to which shall be added two parts by weight of cement after the bentonite and water have been thoroughly mixed. Alternatively, holes may be backfilled with purpose- made pellets of bentonite or bentonite/cement, provided they are of a size which, in the opinion of the Engineer is compatible with the size of hole. If there is no standing water in the hole, grout may be poured in from the top. If there is standing water in the hole, the grout shall be fed into the bottom of the hole by a tremie pipe, the end of which shall always be below the groundwater junction while grouting is being carried out.

Grout backfill shall be taken up to 30 cm below the original ground level. Any apparent loss of grout due to leakage or consolidation within one week shall be made-up with fresh grout and then the remaining depth of the hole shall be filled with concrete. No separate payment shall be made for this work and the contract rates for drilling shall be deemed to include cost of backfilling of boreholes.

3.11 Logs

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Logs of boreholes/ drill holes/ testpits shall be provided on forms specified by the Engineer. They shall include descriptions of all strata including details of the soil macrofabric (such as frequency, orientation and nature of discontinuities) and details of samples taken, and an account of all observations and field tests. Logs of drill holes and boreholes shall include notes on the nature, quantity and color of the drilling fluid returns. All logs shall be subject to the approval of the Engineer and one draft copy shall be submitted to the Engineer, not more than two days after the hole is backfilled. Soil descriptions shall conform to ASTM designation D 2488-84 and classified according to ASTM designation D 2487-85. All depths and thicknesses of topsoil and strata shall be recorded in meters and all reduced levels shall be recorded in meters with respect to mean sea level.

3.12 Contractor's responsibility for records

The presence of the Engineer or any of his staff and their keeping separate drilling records shall not relieve the Contractor of any of his responsibilities for keeping records.

4. DRILLING

4.1 Depth of drilling

Drilling will be done to a maximum required depth at a minimum nominal hole size of 6 inches or as approved by the Engineer; boreholes shall be continued as drill holes when directed by the Engineer.

4.2 Accuracy of alignment of drill holes

Drill holes shall be within 1 degree of the required angle

4.3 Drilling plant

Drilling rigs shall be of the hydraulic feed type capable of using a rotary cutting tool, tipped with diamonds or other hard material and casing shall conform to B.S. 4019; Part I; 1974 or ASTM-2113-84 or an approved equivalent.

4.4 Drilling/ Boring procedure

The method of drilling may be any approved standard and accepted method of straight rotary drilling/wash boring or the combination of two methods by means of which a hole of specified diameter is extended to the desired depth. Rotary cum wash boring method of drilling shall be used in soils or overburden for the purpose of advancing the hole by washing the interval between designated depths at which sampling and testing is to be undertaken.

During drilling the Contractor shall regulate the drilling at such speeds and control, the drilling fluid at such pressures which will ensure the minimum disturbance in the underlying material in which the in situ testing and sampling is to be carried out.

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4.5 Drilling Procedure, Core Recovery (Boulders / Rocky Strata)

Drilling in rock/ hard strata shall be for the purpose of recovering cores. Drilling shall be carried out in such a manner and using such sizes of bits, that the maximum of core is recovered. This requires close surveillance of flushing media, drilling pressures, lengths and runs and all other factors relevant to the nature of the material drilled. The drill bit shall be withdrawn and the core removed as often as may be necessary to secure the maximum possible amount of core. In soft or friable formations dry drilling techniques may be required using single tube core barrels with tungsten carbide bits as directed by the Consultant's Representative. Length of Coring Runs (Boulders / Rocky Strata)

4.6 Coring Runs

Coring runs shall be limited to a maximum depth as mentioned in Bidding Data/ Bill of Quantities or as directed by the Consultant's Representative. When less than 80 percent of the core is recovered from a run the length of the following run shall be reduced to 50 per cent of the previous length unless otherwise directed by the Consultant's Representative.

4.7 Casing Advance

In all boreholes, casing shall be advanced in sequence with each run.

4.8 Removal of Cores on Blocking (Boulders / Rocky Strata)

The core shall be removed from the drill hole immediately if blocking of the bit or grinding of the core is apparent, regardless of the length of run which has been made.

4.9 Flushing Media

Clean water shall be the flushing medium in the drill holes unless the Engineer's Representative directs that bentonite mud shall be used.

4.10 Unusual Coring Experiences (Boulders/Rocky Strata)

As the function of drilling includes determination of width, orientation, extent and spacing of fissures, fractures or voids, the Contractor shall exercise particular care in recording water losses, artesian pressures, rod jerks or any other unusual coring experiences which will supplement the core record and further document the nature and extent of fracturing or voids.

4.11 Drilling through Gravels in Rock (Boulders / Rocky Strata)

Where gravels are encountered within the bedrock the Contractor may cross the full depth of the gravel bed by using core drilling. Accurate record of these strata should be kept.

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4.12 Stabilizing holes in loose soil

Drilling mud of suitable consistency shall be used to stabilize the walls of bore holes and to prevent caving and disturbance of the materials to be sampled. The drilling mud shall be a mixture of bentonite and water with approved chemical additives if required, to assist in modifying its density and viscosity.

Where drilling mud is not effective, casing of appropriate size and strength may be used subject to the approval of the Engineer. It will be the responsibility of the contractor to use appropriate means to stabilize the walls of the boreholes. The level of drilling mud shall at all time be maintained at the top of the borehole.

It shall be ensured that there is no jetting action of the drilling fluid. The minimum amount of drilling fluid necessary to carry away the cuttings shall be used. During drilling the Contractor shall regulate the pressure of the drilling fluid to ensure minimum disturbance in the underlying material in which the in situ testing and sampling is to be carried out.

5. SAMPLING

5.1 General

The Contractor shall take samples from any hole when ordered to do so by the Engineer. This shall include the provision of all necessary sampling equipment, tubes and containers crates and boxes, as well as handling and transportation to the approved laboratory or store.

5.2 Approval of equipment

No equipment or containers shall be used unless approved by the Engineer.

5.3 Care of samples

The Contractor shall be responsible for the safe keeping of samples of all kinds until they have been handed over to the Engineer or disposed off on the Engineer's instructions as the case may be. Any sample damaged or showing signs of deterioration while in the Contractor's care shall be replaced by the Contractor at no expense to the Engineer as specified by the Engineer. All samples shall be prepared and packed as quickly as possible after removal from the ground to preserve the natural condition of the soil.

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5.4 Numbering of samples

The Contractor shall assign a reference number to each soil and water sample taken from holes. The number shall be unique for that hole and shall be in order of depth below ground level.

5.5 Labeling samples

All disturbed and undisturbed soil samples and water samples taken from holes shall be clearly labeled. Each label shall include the following information:-

a) Name of Contract

b) Reference number of the hole

c) Reference number of the sample

d) Date of sampling

e) Brief description of the sample (e.g. stiff blue silty clay)

f) Depth of the top and bottom of the sample below ground level.

g) Number of the sampler tube.

Tubes and crates for undisturbed samples shall be labeled 'Do not jar or vibrate' and 'Haul and transport in a horizontal position'.

5.6 Small disturbed soil samples

In all the holes, small, disturbed samples shall be taken at the top of each stratum, and at intervals as directed by the Engineer. Material from the cutting shoes of open drive undisturbed samples, and from the split spoon sampler used for Standard penetration tests shall also be taken as disturbed samples.

Disturbed samples shall be truly representative of the composition of the in situ soil. When the samples have been taken from the hole, they shall be placed without delay in airtight container of not less than 1 kg capacity. The container shall be labeled in accordance with Clause 5.5

5.7 Large disturbed soil samples

Large truly representative disturbed samples at least weighing 60 kg shall be taken from the testpits from the layer of sands and cohesive soils or as directed by the Engineer. At the same time, small, disturbed samples of the same material shall be taken, in accordance with Clause 5.6.

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5.8 Sealing, labeling and dispatch of large disturbed soil samples to the approved laboratory

All large samples shall be sealed into heavy duty plastic bags of at least 500 gauge thicknesses immediately after they are taken. The sealed bag shall then be placed inside another similar plastic bag. Each outer bag shall be labeled in accordance with Clause 5.5 and a second label giving the same information shall be placed inside the outer bag. These samples shall be transported to the approved testing laboratory.

5.9 Field moisture content samples

Field moisture content samples shall be taken with (and separate from) each small disturbed sample or as otherwise directed by the Engineer. The samples shall be placed in airtight containers immediately after sampling. One sample shall be enough to fill the container.

They shall be kept wrapped in damp cloths in boxes and delivered to the laboratory within twenty four hours of sampling or as directed by the Engineer.

5.10 Open drive undisturbed sampling in holes

Contractor shall clean the hole to the prescribed sampling elevation by means of rotary drilling or washing ensuring that the material to be sampled is not disturbed by the drilling and clean out operation. To minimize the compacting effect of casing driving the bottom of the casing shall be kept as high above the soil zone to be sampled as the conditions permit. Above the water table samples shall be obtained from a dry hole. Below the water table, water shall be maintained within the hole at or above groundwater level.

Sampling with the open drive sampler (Shelby tube) will consist of lowering the sampler to the bottom of the hole and forcing the thin walled cylindrical tube into the soil in one continuous push, without rotation, using the hydraulic feed and weight of the drill rig. The sampling tube shall not be hammered into the material being sampled. The length of the undisturbed sample thus shall not be less than 30 cm.

5.11 Withdrawing the sampler

Before withdrawal of an open drive sampler the sampler shall (if practicable) be rotated through one complete revolution to shear the soil horizontally at the bottom of the sampler. The sampler shall then be withdrawn smoothly so as to cause the minimum disturbance to the sample. The total length of the sample shall be measured and recorded and, if any of the soil has fallen out of the bottom of the tube, this fact shall also be recorded.

5.12 Unsuccessful open drive sampling

There shall be no payment for a failure to obtain an open drive undisturbed sample and will be paid if the sample recovered is not less than 5 inch long, or the Engineer is satisfied that the failure was in no way caused by negligence of the Contractor.

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5.13 Undisturbed sampling with Pitcher/Denison sampler

When directed by the Engineer the Contractor shall core in drill holes with Pitcher/Denison sampler. The Pitcher/Denison sampler shall be capable of recovering cores with minimum diameter of NX size and a minimum length of 60 cms. Sampling with Pitcher sampler will consist of lowering it to the bottom of the hole and rotation coring in the normal manner. After completion of the drive, the sampler shall be withdrawn from the hole, extreme care being taken to avoid disturbance. The liners containing the core shall be separated from the barrel without jarring the core. The maximum possible length of core shall be obtained through each sampling operation. The core sample shall not be removed from the liner. The soil in the liner at the ends shall be trimmed to a depth of about 2 inches to a smooth flat surface, which shall be painted with warm liquid wax. A wooden filler block previously waxed shall be placed inside the liner tube at each end and covered with melted wax. The soil retained in the inner shoe and that removed from the top of the core shall be used for field identification and moisture content determination when directed by the Engineer.

The samples shall be labeled in accordance with Clause 5.5 and will be stored in the manner prescribed for undisturbed samples in Clause 5.14.

5.14 Sealing, labeling and storing undisturbed samples

After removing the cutting shoe and the adaptor head with the disturbed material which they contain, the visible ends of the sample shall each be trimmed of any wet disturbed soil and then immediately coated with not less than four layers of just molten microcrystalline wax or other similar material approved by the Engineer. A metal foil disc 0.6 inch greater diameter than the tube shall then be added and followed by more molten wax to give a total thickness of not less than 1 inch. Any space remaining in the ends of the sample tube shall be filled with damp sawdust or other material approved by the Engineer and the ends of the sample tube shall be covered with tight fitting plastic caps.

The sample tube shall immediately be labeled in accordance with Clause 5.5. A second label giving the same information shall be placed inside the sample tube at the top end.

The sample tubes shall be protected from adverse effects of the weather and must be stored as per ASTM standard.

5.15 Core Boxes

The Contractor shall provide wooden boxes for preserving cores. The cores boxes with two (2) cm thick partition shall be of sound construction made of two (2) cm thick good quality timber free of rot, knots and other defects. The timber shall be treated with termite resistant chemicals such as Shelldrite or equivalent. The bottoms shall be screwed on and covers shall be hinged and provided with screw plates and screws to keep the cover closed. Partitions shall be arranged for convenient marking and interpretation of cores. Partitions may be placed in the field to accommodate the

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size of cores being taken so that continuous core may be available for each drill hole in any one box even if the core size is changed. The core boxes shall become the property of the Consultant/Client when the core has been permanently placed therein.

5.16 Cores

The cores obtained from drill holes shall be carefully removed from the core barrel by means of a hydraulic or pneumatic core extruder and placed on plastic sheeting in core boxes. The plastic sheeting shall then be wrapped over the top of the core and sealed with adhesive tape so as to preserve its moisture. Field moisture samples shall be taken as directed by the Consultant's Representative.

Core shall be placed in the boxes in the correct sequence, with increasing depth from left to right in the box and from the hinged side to the hasp side of the box.

Fractured material which can be reassembled to form clearly defined core shall be reassembled and packed securely. Material which does not conform to the definition of core shall be spread throughout its length and packed securely. Core losses shall be shown by wooden blocks of a square cross section of approximately the same area and of a length equal to that of the core lost; these should be inserted immediately after the core is placed in the core box.

Each core run shall be segregated by labelled wooden blocks 2.5 cm thick and the depth of the bottom of each run shall be marked on the partitions in the core box with paint.

No box shall contain more than three (3) meters of core.

5.17 Marking of Core Boxes

The core boxes shall be marked prominently on the top sides and ends or as directed by the Consultant's Representative using waterproof jet black paint. The markings shall include the name of the Contract, the working area, the drill hole number, box number and the total number of boxes for the drill hole. The same markings shall be painted inside the lid so as to be read when the lid is open, by someone standing at the hasp side of the box.

5.18 Storing and Disposal of Core Boxes

Before the completion of a drill hole the cores from that hole shall be stored neatly at the drill hole locations in such a manner that inspection of the cores can be made easily. The boxes containing the cores shall be stored under cover and protected from the weather, to the satisfaction of the Consultant's Representative. The Drilling Contractor shall transport all boxes containing cores from the site to an approved agency when directed by the Consultant's Representative.

5.19 Core Samples

Lengths of core not less than 25 cm and not more than 50 cm long shall be taken for use as samples for laboratory testing when directed by the Engineer's Representative.

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Such samples shall be cut from the core as it is extruded from the core barrel and a spacer bearing the sample number shall be placed in the core box.

5.20 Waxing Core Samples

Immediately they are taken core samples shall be cleared of any loose sludge and coated with microcrystalline wax and cheese cloth or other similar material approved by the Engineer's Representative. The coating shall be built up in layers of both wax and cloth to a total thickness of not less than 25mm in order to seal the samples against loss of moisture by evaporation. The samples shall then be packed with straw or sawdust in wooden boxes and transported the same day to the laboratory. The wooden boxes shall become the property of the Consultant. The samples shall be stored in the manner prescribed for undisturbed samples in Clause 5.14.

5.21 Labelling Core Samples

The top of the core sample shall be clearly marked before it is waxed and on the outside of the wax. Labels in accordance with Clause 4.5 shall be placed inside the wax, outside the wax and on the wooden box.

5.22 Photography of Cores

The Contractor shall take colour photographs (with Digital Camera Device) of the core boxes containing the cores from vertically above so that the markings on the inside of the lid and on the partitions and blocks are legible in the photographs. The plastic wrapping shall be folded back out of sight, and shall be replaced and sealed again with adhesive tape after the photographs have been taken. A Grey Step wedge from the Kodak Colour Separation Guide shall be displayed with the cores and shall be included in each photograph.

The photography shall be taken from a close distance in order to show the core details. If the core has dried out it shall be sprayed lightly or wetted with a damp cloth to accentuate the colour of the core.

Every month and latest when finishing the Field Works, the Drilling Contractor shall furnish the electronic files of all pictures taken on core boxes during the field work.

5.23 Water samples

The Contractor shall take water samples from holes when directed by the Engineer, before the addition of water to the hole unless this is impossible. If necessary the hole shall be bailed out before taking the sample to ensure that any potential contaminant is removed. No fuel or other potential contaminant shall be allowed to enter the hole. The method of sampling shall be to the approval of the Engineer. Samples shall only be stored in approved airtight and scrupulously clean containers, and shall not be less than 1.0 liter in volume. Water samples shall be transported to the approved laboratory.

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5.24 Transport of samples

All samples shall be transported to the store at the site the day the sample is collected. Samples in tubes shall be transported with the tubes in a horizontal position. Selected samples shall be transported by the Contractor to the laboratory approved by the Engineer.

Every precaution shall be taken to avoid damage to the undisturbed samples during transportation. Samples including tube samples shall be transported in wooden boxes made from 5/8 inch or heavier timber, and with a capacity of holding six (6) samples. The samples shall be well packed in suitable material to protect the samples against vibration. The Contractor shall not expose sealed and coated samples to direct sunlight or extreme temperatures.

6. FIELD TESTING

6.1 Standard Penetration Test (SPT)

When directed by the Engineer, the Contractor shall carry out Standard Penetration Test (SPT) in any type of material. The penetration resistance 'N' shall be expressed as the number of blows of a 140 lbs hammer dropping freely from height of 30 inches to force the standard split barrel sampler 18 inches into the soil. The penetration resistance 'N' shall be expressed as the number of blows of the hammer required to force the sampler the last 12 inches into the soil.

Equipment to be furnished by the Contractor for carrying out SPT shall include split tube sampler, drive shoe with core catcher, 'A' or 'AW' rods (OD 1.718 inches, ID 1.344 inches) for depth less than 50 ft and 'N' or 'NW'; rods for greater depth, 140 lbs weight donut type hammer, manila rope and free running pulley, guide pipe and driving head supplies, all casing, pumps, power tools for sampling and containers for preserving tools for sampling and containers for preserving samples. The anvil in all respects shall conform to ASTM Designation D 1586-99.

The beveled edge of the drive shoe shall be maintained in good condition and if excessively worn, shall be resharpened to the satisfaction of the Engineer. Damaged or bent drive shoe of the sampler shall not be used; it shall be replaced if damaged in such a manner as to cause projections within the interior surface of the shoe. A core catcher consisting of thin flexible flaps which fold back flush with the inner surface of the sampler during driving shall be fitted above the drive shoe or within the shoe.

Standard penetration tests shall be carried out in the holes as and when directed by the Engineer during the progress of work. If the Engineer or Contractor has reason to believe that the hole has entered a layer which consists predominantly of sand or finer soil, boring shall be stopped after cleaning the bottom of the hole taking utmost care to bail out all the loosened material which could have remained in the hole from the zone above the test level. Then rotary rig shall be installed for drilling 4 inches to 6 inches diameter holes, and smaller diameter casing (4 inch – 6 inch) fitted with a casing bit at the bottom shall be lowered to the bottom of the hole, the hole should then be drilled using mud and tricone bit or any other bit with upward discharging device 8 inch below the bottom of the hole. The smaller dia casing shall then be

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advanced to this depth by rotating with wrench. If unable to do so with wrench, rotary rig may be utilized to advance the casing. In no case will the casing be driven by hammering. Sounding of the hole shall then be made and further drilling, if required, shall be performed with tricone bit using mud for flushing to ensure the hole is open to the base of the casing but no deeper. Casing shall remain filled with mud slurry all the time to the top. During the process of boring, washing or cleaning the hole, utmost care shall be exercised to ensure that the material to be tested and sampled has not been disturbed by these operations. The casing shall not be in advance of the bottom of the hole where the test is to be conducted.

The split barrel sampler attached to drill rod shall then be lowered to the bottom of the hole. The drive weight shall then be allowed to fall on the anvil freely until the sampler has penetrated 6 inches into the soil (the seating drive). The penetration test shall then be started and the number of blows for each 3 inches penetration shall be recorded until 18 inches penetration is achieved.

In case, the driving of the shoe cannot be achieved even by performing one of the following efforts:

- A total of 50 blows have been applied during any one of the three 6 inches increments.
- A total of 100 blows have been applied (including the seating drive) or
- There is no observed advance of the sampler during the application of 10 successive blows of the hammer.

Then, the test shall be considered as presenting Refusal to Penetration and shall be terminated even if the required Penetration of the sampler has not been obtained. In such cases the number of blows and the penetration attained shall be recorded. Immediately after each test, the sampler shall be carefully disassembled and any soil sample collected classified. The most representative portion of the soil sample from the bottom of the 12 inches drive shall be placed in an airtight container. This soil sample shall be made for the collection and preservation of such disturbed samples. The cost of such sampling shall be deemed to be included in the unit rate for performance of standard penetration test. After performing the first test in this way the hole shall be drilled with tricone bit using mud, and sounding shall be taken to ensure that the hole is clean to the bottom of the previous test. Then a second SPT shall be performed in the same manner as described above or undisturbed samples shall be collected as directed by the Engineer.

During the performance of SPT, including the seating drive, extreme care must be exercised in obtaining an accurate 30 inches free fall of the hammer. The rod above the hole collar should be held in vertical position to prevent energy loss due to rod whip or buckling uniformity must be obtained in all SPTs to be done. The rate of application of hammer blows should be between 10 and 20 blows/minute.

In case of gravelly soil the SPT shoe should be replaced by the solid cone with apex at 60^0 in accordance with BS 5930. (1981)

The test data obtained shall be recorded in the field and shall include the following:

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i. Test number and depth
ii. Description of soil
iii. Thickness of layer
iv. Depth of water level; time at which test was made.
v. Number of blows for each 3 inch penetration and total length of penetration.
vi. Penetration resistance 'N' value.

One copy of the field data for each test shall be supplied to the Engineer within 24 hours of completing the test.

6.2 Field Permeability Tests

When directed by the Consultant, the Drilling Contractor shall carryout permeability tests in boreholes. These tests would be carried out by Constant Head / Falling Head method under flush bottom conditions or by lifting the casing (Column method), or as approved by Consultant.

When directed by the Consultant's Representative the Drilling Contractor shall carry out variable head (rising or falling) or constant head permeability tests to determine the in-situ permeability of the soils. The Contractor shall place a quantity of approved gravel or sand filter material in the hole sufficient to fill the hole to 1 m above the bottom of the hole and to raise the casing of the borehole a small distance prior to starting the test, if directed by the Consultant's Representative. The water in the hole shall then be allowed to reach a steady level, which shall be recorded. Only clear water shall be used in the hole for the test. The depth of the hole shall be sounded immediately before and immediately after each field permeability test.

In the falling head permeability tests, the casing is filled with water which is then allowed to seep into the soil. The rate of drop of the water level in the casing is observed by measuring the depth of the water surface below the top of the casing at 1, 2 and 5 minutes after the start of the test and at 5-minute intervals thereafter. These observations are made until the rate of drop becomes negligible or until sufficient readings have been obtained to satisfactorily determine the permeability, in the opinion of the Consultant's Representative.

The rising head permeability test consists of bailing the water out of the casing and observing the rate of rise of the water level in the casing at intervals until the rise in water level becomes negligible. The rate of rise is observed by measuring the depth of the water surface below the top of the casing at 1, 2, and 5 minutes after the start of the test and at 5 minute intervals thereafter. These observations are made until the rate of rise becomes negligible or until sufficient readings have been obtained to satisfactorily determine the permeability.
In the constant head permeability test water is added to the casing at a rate sufficient to maintain a constant water level at or near the top of the casing for a period of not less than 10 minutes. The water may be added by pouring from calibrated containers or by pumping through a water meter. The data recorded should consist of the amount of water added to the casing at 1, 2 and 5 minutes after the start of the test and at 5 minute intervals thereafter until an adequate determination of the permeability has been made, in the opinion of the Consultant's Representative.

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The following data must be recorded for all field permeability tests in addition to the readings specified.

Steady, ground water level before test.
Internal diameter of casing.
Height of casing above ground level.
Depths of other casing below ground level.
Depth of smallest casing below ground level.
Depth of hole below ground level.
Diameter of hole below casing.

At the start of the test, date and time must be recorded.

Two copies of the field data for each test recorded on forms (approved by the Consultant's Representative) shall be supplied to the Consultant's Representative immediately after performance of test and two preliminary copies of the results of each test shall be submitted to the Consultant on the next working day.

6.3 Electrical Resistivity Survey

Electrical Resistivity Survey will be carried out along the pipeline route for the determination of soil corrosion potential.

6.4 Seismic Refraction Survey

Seismic Refraction Survey will be done at the AGI locations and major crossings where rock is expected at shallow depth.

7. EXCAVATION OF TEST PITS

7.1 Areas to be investigated

The limits of the project site and the approximate locations of the tespits shall be indicated on Drawing, but the Engineer may change the locations within the limits of the area to be investigated during the progress of the work. The Engineer will specify from time to time during the contract period the exact location and reference number of all test pits, but locating the test pits accurately in the field shall be the Contractor's responsibility.

7.2 Excavation

7.2.1 Excavation method

The Contractor shall perform excavation in test pits to final dimensions, lines and depths as specified or approved by the Engineer. The Contractor will be free to choose any method of excavation with prior approval of the Engineer. The Contractor shall be entirely responsible for the success of the method of excavation used regardless of approval by the Engineer. The Contractor shall carry out his excavation operations in a manner so as to cause least disturbance to the in situ material outside the lines of excavation

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7.2.2 Excavation extent

The testpits shall be up to a maximum of 3.0 m depth or as specified in BOQ at least 1.0 m x 1.0 m throughout their depth or as directed by the engineer. The Contractor shall excavate testpit so as not to have any protrusions inside the clear section. Excess excavation performed by the Contractor for any purpose or reason, except that ordered in writing by the Engineer, shall be at the expense of the Contractor. The Contractor shall keep the walls and floor of the test pits accessible and clean for inspection by the Engineer. The Contractor will prepare a detailed testpit log of the strata encountered as directed by the Engineer.

7.2.3 Removal and Disposal of Excavated Materials

The Contractor shall remove all excavated materials and any caved in debris from the testpits and shall be responsible for disposal of such excavated material away from top of the test pits as directed by the Engineer.

7.3 Supports of test pits excavation

The Contractor shall properly support the testpit excavation as and when instructed by the Engineer in writing. The Contractor alone shall be responsible for the adequacy of the supports regardless of the approval by the Engineer. Timber supports shall be used and left in place after completion of test pits for sampling and logging. The Contractor shall be free to use his own system of timber supports with the approval of Engineer. However nothing contained in this clause shall relieve the contractor of his responsibilities in respect of adequacy of supports of the excavations. If necessary, the Engineer shall direct the Contractor to install additional supports or to abandon an unsafe pit without any payment to the Contractor. The support system shall be removed before backfilling of Test pits.

7.4 Rain and surface water

Surface water shall be prevented from entering the test pit. For this purpose suitable earth dykes or interceptor ditches shall be constructed by the Contractor around the testpit at suitable locations with the approval of the Engineer. The Contractor shall also remove any accumulated water from within the pits.

7.5 Hoisting arrangements

7.5.1 Hoisting equipment

The Contractor shall provide, install, operate and maintain hoisting equipment wherever required as approved by the Engineer and operate such equipment for removal of excavated material and all other related purposes.

7.5.2 Mucking buckets

The Contractor shall provide, install, maintain and operate mucking buckets. The buckets shall be of suitable size and sound construction as approved by the Engineer.

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In addition, the Contractor will provide such other equipment, as he may deem necessary for efficient handling and disposal of excavated material.

7.6 Blasting in test pit

Blasting shall not be allowed for breaking up material encountered in a test pit except with the written permission of the Engineer. Such permission shall only be given if a boulder with diameter larger than half the width of the pit is encountered.

7.7 Supplementary test pit

Test pits that are abandoned due to fault of the Contractor shall be supplemented by other test pits adjacent to the original location. The exact location of such supplementary test pits shall be specified by the Engineer in the field.

No payment will be made for the portion of supplementary test pit above the depths paid for the unacceptable test pit.

7.8 Daily field records

Each day during the work on the Site, the Contractor shall hand over to the Engineer the original and a legible copy of the records of the previous day's work containing the following information in respect of each test pit where work was in progress.

a. Name of Contract
b. Number, and size of the testpit
c. Date and hours worked on the site
d. Brief description of the weather
e. Total depth of testpit at the beginning and end of each shift.
f. Reference number, depths and other details of all small and large disturbed samples.
g. Description of material encountered.
h. Details of backfilling if any
i. Details of reasons of delays
j. Any other relevant information and details of any other operation.

7.9 Backfilling testpits

When instructed by the Engineer, the Contractor shall backfill the Test pits. The materials for backfilling shall come from material excavated and the procedures shall be approved by the Engineer.

7.10 Logging, collection of samples and in situ testing

The Engineer or his staff shall inspect strata exposed by the excavation to prepare testpit logs on approved forms and direct the contractor to collect disturbed and undisturbed samples during the progress of excavation. Whenever the Engineer or his staff enters a test pit the Contractor shall temporarily suspend his operations inside the test pit and shall provide to Engineer or his staff all facilities including labor and access through ladders into and out of the pit.

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7.11 Contractor's responsibility for records

The presence of the Engineer or any of his staff and their keeping separate test pit excavation records shall not relieve the Contractor of any of his responsibilities for keeping records.

7.12 Field testing and sampling in test pits

7.12.1 Field density

Field density tests shall generally be carried out in the test pits at depths below the natural ground surface as specified by the Engineer.

Field density test shall be carried out in accordance with ASTM D 2937 (Density of soil in place by Drive Cylinder Method) or D 1556 (Density of soil in place by the Sand Cone Method) appropriate to the site conditions. The Engineer will examine and decide which method of field density test is most suitable for the site. Moisture content test shall be carried out by laboratory oven method or speedy moisture tester or as directed by the Engineer.

7.12.2 Sampling

a) Disturbed samples

Disturbed samples shall be collected for carrying out classification test at the depth and location to be specified by the Engineer at the site.

b) Undisturbed block samples

In cohesive stratum, hand cut undisturbed block samples 12 inches cube shall be collected at the locations and depths specified by the Engineer at the time of excavation. Samples shall be collected in accordance with the procedures and provision given in Earth Manual of U.S.B.R.

c) Composite samples

Composite samples shall generally be collected in those horizons where field density tests are carried out. The quantity of each sample shall be enough to allow carrying out classification and laboratory compaction test.

8. LABORATORY TESTING

8.1 Approved Laboratory

The soil / water samples shall be tested at a local approved laboratory. The Engineer shall have access to the laboratories to supervise and check the laboratory testing of the samples. The testing shall be carried out in accordance with ASTM, BS or AASHTO Standards or as directed by the Engineer.

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8.2 Testing Program

The Contractor shall arrange to carry out the laboratory tests on the specified samples of the subsoil materials and water. The Engineer shall issue particular instructions for any tests, if required. The samples to be tested and the tests to be carried out for each sample shall be specified by the Engineer.

8.3 Type of Tests

The testing in the laboratory shall comprise, but not limited to, the following tests:

1. Grain size Analysis
2. Hydrometer Analysis
3. Atterberg Limits (LL,PL)
4. Specific Gravity
5. Unconfined Compression test
6. Unconsolidated undrained direct shear test on soil
7. Natural Moisture Content and Bulk Density
8. Consolidation with swell potential determination
9. 3 Point Soaked CBR
10. Modified AASHTO Compaction
11. Sulphate content of soil/water
12. Chloride content of soil / water
13. pH value of water
14. Organic matter content of soil
15. Total Dissolved Salts in water

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LIST OF APPROVED LABORATORIES

Employer's approved laboratories have been listed hereunder:

1. SOILCON Geotechnical Testing Laboratories, 18- Km, Multan Road Lahore.
(Tel # 042-7510942, Fax # 042-7510944)

2. Central Materials Testing Laboratories (CMTL) WAPDA, Near Muhammad Pura Village P.O Thokar Niaz Baig, Lahore.
(Tel # 042-5300922, Fax # 042-5302921)

3. Soil Mechanics Laboratory Civil Engineering Department, UET, Lahore.
(Tel # 042-9029273, Fax # 042-9029202)

4. Firm DECON International (Pvt.) Ltd., 17 kilometer Shahdara, Kalakhatai/Narang Mandi Road Opposite Police Post Laban wala Tehsil Ferozewala District Sheikhupura.
(Tel # 0347-4625111)

5. Berkeley Associate, 316-D, OPF Housing Colony, Raiwind Road, Lahore.
(Tel # 042-8452273, Fax # 042-5323316)

6. National University of Science and Technology, Islamabad.
NUST Institute of Civil Engineering (NICE), NUST H-12 Sector, Islamabad
(Tel # 051-90854629 / 051-90854583)

If the Contractor intends to acquire the services of any testing laboratory other than the laboratories mentioned above, he shall obtain approval of the Engineer and will be responsible for arranging to provide all relevant data required by the Engineer for the approval of the Engineer.

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9. REPORTS AND RECORDS

9.1. Introduction

The Contractor shall prepare and submit to the Engineer, one copy of a report/data on all work at site and such other details as required by the Engineer appropriate to the work performed.

9.2. Daily Report

The Contractor shall prepare a Daily Report signed by the Contractor's agent or representative on site for each exploratory hole/testpits, which shall be submitted to the Engineer within 24 hours of the completion of the exploration to which they refer and contain the following information where relevant.

i General

(a) Job name, location and coordinates.
(b) Rig foreman's name.
(c) Exploratory hole reference number and level.
(d) Visitors to rig site (including Contractor's head office staff).
(e) Name of Supervisory Staff.

ii Rotary Borings

(a) Rate of penetration
(b) Diameters and depths of all casings used
(c) Any addition of water to the boring
(d) Method of penetration and flushing system
(e) Type of bit used

iii Excavation of testpits

(a) Elevation of top of testpit
(b) Records of groundwater, if any
(c) Depth at the end of each working day or shift
(d) Depth to each change of stratum
(e) Description of subsoil strata encountered.
(f) Details of obstructions and time spent in and method of overcoming them.
(g) Details of backfill

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(h) Depth of bottom of tespit

9.3. Submission of complete field and laboratory data

The results of each borehole, testpit and field tests carried out shall be communicated to the Engineer as follows:

i) Oral reports as the work proceeds.
ii) One set of complete data of the work in the form of a bound document, which shall contain but not limited to:

(a) A site plan showing the position of the boreholes and testpits and giving their map reference.
(b) The borehole and testpits logs.
(c) Complete results of field tests.
(d) Complete results of Laboratory tests.
(e) Comments on any point, which the Engineer has put to the contractor for inquiry and investigation during the works..

9.4 Payment for reports

No separate payment will be made for the reports the cost of which shall be deemed to be included in the other items of work.

9.5 Detailed Geotechnical Investigations Report

The Contractor shall be responsible for preparation of detailed geotechnical investigations report if required in Bid Invitation Letter and Bill of Quantities. The report will include but not limited to the following information:

a) Brief detail of the project including location plan and geotechnical investigation plan
b) Information regarding geology, seismicity, topography & subsurface lithology of the area
c) Details of field and laboratory works
d) Necessary geotechnical recommendations for design of foundation and road works

10. MEASUREMENT AND PAYMENT

BOQ Item A-1 Mobilization and demobilization

a) Measurement

No quantity measurement will be made of the work under this item and payment shall be based on the completion of work as specified herein.

b) Payment

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The payment shall constitute full compensation for all costs for mobilization and demobilization. The contract rates shall be deemed to include all costs for providing, transporting, operating and maintaining all the equipment and plant necessary for site investigation work along with providing water, power, providing all insurance covers, providing any other expense not covered in the item rates of the BOQ and shifting and setting up at each borehole location.

BOQ Item A2-A3 Drilling of bore hole:

a) Measurement

The actual quantity shall consist of the full depth of acceptable vertical drill hole as measured along the line of the hole.

b) Payment

All the necessary operations done to accomplish drilling as specified shall be deemed to be part of this item. The casing of the drill holes or boreholes, taking and recording of water levels in holes, supply of daily field record and drill / borehole logs and all associated costs shall be deemed to be included in the contract rate. No separate payment shall be made for backfilling of holes and drilling of angle holes.

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BOQ Item A4 Carrying out standard penetration tests (SPT) in drill / boreholes

a) Measurement

The measurement for standard penetration tests shall be made as number of standard penetration tests actually performed on the instructions of the Engineer in a drill hole or a bore hole.

b) Payment

Payment shall be made as a unit for each test. The contract rate shall be deemed to include all labour and equipment required to perform the tests including standing time of labour and plant while the test is being set up and dismantled or in progress and the preparation and supply to the Engineer of any preliminary copies of test data and results as well as all the costs for providing jars, labeling, preservation and transportation of samples to the laboratory.

BOQ Item A5 Collection of undisturbed Soil samples from boreholes using Shelby tube/Pitcher/Denison sampler etc.

a) Measurement

Measurement shall be made as number of acceptable undisturbed open drive tube samples Pitcher/Denison samples separately and actually recovered on the instructions of the Engineer.

b) Payment

Payment shall be made as a unit for each undisturbed sample successfully recovered. The contract rate for these items shall be deemed to include the cost of any incidental delay of standing time of labour and plant, for the cost of taking, sealing, labeling, transporting samples and the cost of supply of all approved tubes, containers, crates and boxes which shall become the property of the Engineer after delivery to the approved laboratory.

BOQ Item A6 &7 Excavation of testpits for foundation and construction materials

a) Measurement

Measurement under this item will be computed by actual measurement methods and will be made of number of linear meters actually excavated below ground surface (according to a specified size and depth). Measurement will be correct to a centimeter. This also includes backfilling after logging.

b) Payment

Payment shall be made at the Contract unit price for this item and shall constitute full compensation for the tools, plant labour etc. required to excavate the test pit and later

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on backfill the testpit

BOQ Item A8 Performance of field density test in test pits

a) Measurement

Measurement for field density tests shall be made as number of field density tests actually performed on the instructions of the Engineer. Determination of moisture content shall be considered inclusive in the field density test

b) Payment

Payment shall be made as a unit for each test. The contract rate shall be deemed to be include all labour and equipment required to perform the tests including standing time of labour and plant while the test is being performed and preparation and supply to the Engineer preliminary copies of the test data as well as cost of containers for NMC and transportation of samples to the laboratory and performance of NMC in the laboratory.

BOQ Item A9 Extraction of hand-cut block sample from test pits

a) Measurement

Measurement shall be made as number of block samples actually taken on the instructions of the Engineer.

b) Payment

Payment shall be made as a unit for each block sample. All the costs incurred on providing equipment material and labour etc. for extraction, labeling, storage and transportation as well as the cost of containers and boxes shall be deemed to be included in the contract value.

BOQ Item A10 Collection of composite bulk sample from test pits

c) Measurement

Measurement shall be made as number of bulk samples actually taken on the instructions of the Engineer.

d) Payment

Payment shall be made as a unit for each bulk sample. All the costs incurred on providing equipment material and labour etc. for collection labeling, storage and transportation as well as the cost of bags containers and boxes shall be deemed to be included in the contract value.

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BOQ Item A11 Collection and preservation of groundwater samples from boreholes/Testpits

a) Measurement

Measurement shall be made as number of water samples actually taken on the instructions of the Engineer.

b) Payment

Payment shall be made as a unit for each water sample. All costs incurred for providing equipment, material, labour and bailing out of the hole, if necessary and taking sealing, labeling, transporting the water samples as well as the cost of the containers shall be deemed to be included in the contract rate for water sampling.

BOQ Item B1-B13 Laboratory testing

a) Measurement

Measurement under the item "Laboratory Testing" shall be made as per actual number of laboratory tests performed according to ASTM, AASHTO or the equivalent British Standards, or as directed by the Engineer.

b) Payment

Payment shall be made for number of laboratory test actually performed in the laboratories approved by the Engineer according to the price bid by the Contractor in the Bill of Quantities as a lump sum for each test. The lump sum shall be deemed to include complete laboratory testing for the specified test according to ASTM, AASHTO or British Standards and presentation of reports in standard form as directed by the Engineer.

BOQ Item C Detailed Geotechnical Investigations Report

a) Measurement

Measured under the item "Detailed Geotechnical Investigations Report" shall be made as per requirements mentioned in Clause 9.5.

b) Payment

Payment shall be made as per bid submitted by the Contractor subjected that the work is carried out to the entire satisfaction of the Engineer/Employer.

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DRAWINGS

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CONSTRUCTION EXPERIENCE

Form EXP - 4.1
General Construction Experience

Bidder's Name: _____
Date: _____
JV Member's Name_____
Bid Reference No. (if any) and title: _____
Page _____of _____pages

Starting Year	Ending Year	Contract Identification	Role of Bidder
		Contract name: _____ Brief Description of the Works performed by the Bidder: _____ Amount of contract: _____ Name of EMPLOYER: _____ Address: _____	
		Contract name: _____ Brief Description of the Works performed by the Bidder: _____ Amount of contract: _____ Name of EMPLOYER: _____ Address: _____	
		Contract name: _____ Brief Description of the Works performed by the Bidder: _____ Amount of contract: _____ Name of EMPLOYER: _____ Address: _____	

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Form EXP - 4.2(a)

Specific Construction and Contract Management Experience

Bidder's Name: _____
Date: _____
JV Member's Name_____
Bid Reference No. (if any) and title: _____
Page _____of _____pages

Similar Contract No.	**Information**			
Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor ☐	Member in JV ☐	Management Contractor ☐	Sub-contractor ☐
Total Contract Amount			PKR equivalent	
If member in a JV or sub-contractor, specify participation in total Contract amount				
EMPLOYER's Name:				
Address: Telephone/fax number E-mail:				

Form EXP - 4.2(a) (cont.)
Specific Construction and Contract Management Experience (cont.)

Similar Contract No.	**Information**
Description of the similarity in accordance with Sub-Factor 4.2(a) of Section III:	
1. Amount	
2. Physical size of required works items	
3. Complexity	
4. Methods/Technology	
5. Construction rate for key activities	
6. Other Characteristics	

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Form EXP - 4.2(b)
Construction Experience in Key Activities

Bidder's Name: _____
Date: _____
Bidder's JV Member Name: _____
Sub-contractor's Name (if any): _____
Bid Reference No. (if any) and title: _____

Page _____of _____pages

All Sub-contractors for key activities must complete the information and Qualification Criteria and Requirements, Sub-Factor 4.2.

1. Key Activity No One: _____

	Information			
Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor ☐	Member in JV ☐	Management Contractor ☐	Sub-contractor ☐
Total Contract Amount			PKR equivalent	
Quantity (Volume, number or rate of production, as applicable) performed under the contract per year or part of the year	Total quantity in the contract (i)	Percentage participation (ii)		Actual Quantity Performed (i) x (ii)
Year 1				
Year 2				
Year 3				
Year 4				
EMPLOYER's Name:				
Address: Telephone/fax number				

	Information
E-mail:	

2. Activity No. Two

3. ……

	Information
Description of the key activities in accordance with Section III:	

Form EXP - 4.2 (c)
Specific Experience in Managing ES aspects

[The following table shall be filled in for contracts performed by the Bidder, and each member of a Joint Venture]

Bidder's Name: *[insert full name]*
Date: *[insert day, month, year]*
Joint Venture Member Name: *[insertfull name]*
Bid Reference No. (if any) and title: *[insert ICB/NCB number and title]*
Page *[insert page number]* of *[insert total number]* pages

1. Key Requirement no 1 in accordance with 4.2 (c): _____

Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor ☐	Member in JV ☐	Management Contractor ☐	Subcontractor ☐
Total Contract Amount			PKR	
Details of relevant experience				

2. Key Requirement no 2 in accordance with 4.2 (c): _____

3. Key Requirement no 3 in accordance with 4.2 (c): _____

4. [PA define key requirements]

Contractor's Representative and Key Personnel Schedule

Bidders should provide the names and details of the suitably qualified Contractor's Representative and Key Personnel to perform the Contract. The data on their experience should be supplied using the Form PER-2 below for each candidate.

Contractor' Representative and Key Personnel

1.	**Title of position:**	
	Name of candidate:	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]
2.	**Title of position:**	
	Name of candidate:	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]
3.	**Title of position:**	
	Name of candidate:	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]
4.	**Title of position:**	
	Name of candidate:	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]

	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]
5.	**Title of position:**	
	Name of candidate	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]
6.	**Title of position:** *[insert title]*	
	Name of candidate	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]

Form PER-2:
Resume and Declaration
Contractor's Representative and Key Personnel

Name of Bidder

Position [*#1*]: [*title of position from Form PER-1*]		
Personnel information	**Name:**	**Date of birth:**
	Address:	**E-mail:**
	Professional qualifications:	
	Academic qualifications:	
	Language proficiency:*[language and levels of speaking, reading and writing skills]*	
details		
	Address of Employer:	
	Telephone:	**Contact (manager / personnel officer):**
	Fax:	
	Job title:	**Years with present Employer:**

Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

Project	**Role**	**Duration of involvement**	**Relevant experience**
[main project details]	*[role and responsibilities on the project]*	*[time in role]*	*[describe the experience relevant to this position]*

Declaration

I, the undersigned *[insert either "Contractor's Representative" or "Key Personnel" as applicable]* , certify that to the best of my knowledge and belief, the information contained in this Form PER-2 correctly describes myself, my qualifications and my experience.

I confirm that I am available as certified in the following table and throughout the expected time schedule for this position as provided in the Bid:

Commitment	**Details**
Commitment to duration of contract:	*[insert period (start and end dates) for which this Contractor's Representative orKey Personnel is available to work on this contract]*
Time commitment:	*[insert period (start and end dates) for which this Contractor's Representative orKey Personnel is available to work on this contract]*

I understand that any misrepresentation or omission in this Form may:

(a) be taken into consideration during Bid evaluation;

(b) result in my disqualification from participating in the Bid;

(c) result in my dismissal from the contract.

Name of Contractor's Representative or **Key Personnel: [*insert name*]**

Signature: _____

Date: (day month year): _____

Countersignature of authorized representative of the Bidder:

Signature: _____

Date: (day/month/year): _____

Past Experience / Contracts

Contracts over *[insert amount]* during the last three years:				
Procuring Agency	Value	Year	Goods/Services Supplied	Country of Destination

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Historical Contract Non-Performance, and Pending Litigation and Litigation History

[The following table shall be filled in for the Applicant and for each member of a Joint Venture]

Applicant's Name: *[insert full name]*
Date: *[insert day, month, year]*
Joint Venture Member Name: *[insert full name]*
IFP No. and title: *[insert IFP number and title]*
Page *[insert page number]* of *[insert total number]* pages

☐ Not debarred due to deviation from commitment of Bid Securing Declaration-☐ Not debarred due to non-performance			
Year	**Non-performed portion of contract**	**Contract Identification**	**Total Contract Amount (current value, currency, exchange rate and PKR equivalent)**
[insert year]	*[insert amount and percentage]*	Contract Identification: *[indicate complete contract name/ number, and any other identification]* Name of Procuring Agency: *[insert full name]* Address of Procuring Agency: *[insert street/city/country]* Reason(s) for nonperformance: *[indicate main reason(s)]*	*[insert amount]*
Pending Litigation, in accordance with Section III, Qualification Criteria and Requirements			
☐ Pending litigation in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.3 as indicated below.			

Year of dispute	**Amount in dispute (currency)**	**Contract Identification**	**Total Contract Amount (currency), ~~US$~~ PKR Equivalent (exchange rate)**

[insert year]	*[insert amount]*	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Procuring Agency: *[insert full name]* Address of Procuring Agency: *[insert street/city/country]* Matter in dispute: *[indicate main issues in dispute]* Party who initiated the dispute: *[indicate "Procuring Agency" or "Supplier"]* Status of dispute: *[Indicate if it is being treated by the Adjudicator, under Arbitration or being dealt with by the Judiciary]*	*[insert amount]*

☐ No consistent history of court/arbitral award decisions in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.4.

☐ Consistent history of court/arbitral award decisions in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.4 as indicated below.

Year of award	**Outcome as percentage of Net Worth**	**Contract Identification**	**Total Contract Amount (currency), PKR Equivalent (exchange rate)**
[insert year]	*[insert percentage]*	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Procuring Agency: *[insert full name]* Address of Procuring Agency: *[insert street/city/country]* Matter in dispute: *[indicate main issues in dispute]* Party who initiated the dispute: *[indicate "Procuring Agency" or "Supplier"]* Court/ arbitral award decision: *[Indicate if the award decision was against the Applicant or any member of a joint venture.]y]*	*[insert amount]*

Financial Situation and Performance

[The following table shall be filled in for the Applicant and for each member of a Joint Venture]

Applicant's Name: *[insert full name]*
Date: *[insert day, month, year]*
Joint Venture Member Name: *[insert full name]*
IFP No. and title: *[insert IFP number and title]*
Page *[insert page number]* of *[insert total number]* pages

1. Financial data

Type of Financial information in (currency)	**Historic information for previous _[insert number] years, [insert in words] (amount in currency, currency, exchange rate*, PKR equivalent)**				
	Year 1	Year 2	Year 3		
Statement of Financial Position (Information from Balance Sheet)					
Total Assets (TA)					
Total Liabilities (TL)					
Total Equity/Net Worth (NW)					
Current Assets (CA)					
Current Liabilities (CL)					
Working Capital (WC)					
Information from Income Statement					
Total Revenue (TR)					
Profits Before Taxes (PBT)					
Cash Flow Information					
Cash Flow from Operating Activities					

* Refer ITA 14 for the exchange rate

3. Financial documents

The Applicant and in case of JV, members of JV shall provide copies of financial statements for *[number]* years pursuant Section III, Qualifications Criteria and Requirements. The financial statements shall:

(a) reflect the financial situation of the Applicant or in case of JV member, and not an affiliated entity (such as parent company or group member).

(b) be independently audited or certified in accordance with local legislation.

(c) be complete, including all notes to the financial statements.

(d) correspond to accounting periods already completed and audited.

☐ Attached are copies of financial statements[1] for the *[number]* years required above; and complying with the requirements.

[1] If the most recent set of financial statements is for a period earlier than 12 months from the date of Application, the reason for this should be justified.

Average Annual Turnover (Annual Sales Value)

[The following table shall be filled in for the Applicant and for each member of a Joint Venture]

Applicant's Name: *[insert full name]*
Date: *[insert day, month, year]*
Joint Venture Member Name: *[insert full name]*
IFP No. and title: *[insert IFP number and title]*
Page *[insert page number]* of *[insert total number]* pages

Annual Turnover Data			
Year	**Amount** **Currency**	**Exchange rate*** **(If applicable)**	**PKR equivalent**
[indicate calendar year]	*[insert amount and indicate currency]*		
		Average Annual Turnover **	

* Refer ITA for date and source of exchange rate.

** Total PKR equivalent for all years divided by the total number of years. See Section III, Qualification Criteria and Requirements, ITA.