



## **INVITATION FOR E-BIDS**

**SURVEYING, ENGINEERING DESIGN, TECHNICAL SPECIFICATIONS AND PREPARATION OF BIDDING DOCUMENT FOR 03 PILOT PLANTS OF WASTEWATER TREATMENT IN PUNJAB**

**GEOTECHNICAL INVESTIGATIONS FOR WASTEWATER TREATMENT PLANT IN VILLAGE SAR KALAN, KALLAR KAHAR**

**National Engineering Services Pakistan (Pvt.) Limited (NESPAK)**, invites bids through EPADs (Technical and financial) for the geotechnical investigations for Wastewater Treatment Plant in Village Sar Kalan, Kallar Kahar from drilling Contractors/Companies, registered with Income Tax and Sales Tax Departments and who are on Active Taxpayers List of Federal Board of Revenue and Provincial Revenue Authority having valid PEC registration in relevant category, for carrying out the geotechnical investigations for the subject project.

E-Bidding documents (i.e. Bid Invitation Letter, BOQ & Qualification Criteria) can be downloaded from **NESPAK ([www.nespak.com.pk](http://www.nespak.com.pk)) and PPRA ([www.ppra.org.pk](http://www.ppra.org.pk)) website or can be accessed through EPADs.**

The bidders shall submit bid securities before the closing time of bid submission. A bid security of **Rs. 25,000/- (Rupees twenty five thousand only)** is required in the form of a pay order or bank draft, payable in favor of M/s NESPAK.

Companies capable of carrying out subject work are requested to furnish complete information in accordance with the requirement of bidding documents. E-Bids (inclusive of all taxes) prepared in accordance with the instructions in the bidding documents, must be submitted through **EPADs** on or before **December 11, 2025** up to **1100 Hours**.

Technical bids would be opened through **EPADs** on the same day at **1130 Hours** after their receipt in the presence of those bidders who wish to be present. Financial bids would be opened after evaluation of Technical bids, at time, date and venue announced and communicated to the technically responsive bidders in advance. NESPAK reserves the right to accept or reject any/all offers according to provision of PPRA Rules

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**SURVEYING, ENGINEERING DESIGN, TECHNICAL SPECIFICATIONS  
AND PREPARATION OF BIDDING DOCUMENT FOR 03 PILOT PLANTS OF  
WASTEWATER TREATMENT IN PUNJAB****WASTEWATER TREATMENT PLANT IN VILLAGE  
SAR KALAN, KALLAR KAHAR****GEOTECHNICAL INVESTIGATIONS****Invitation of Bids for Geotechnical Investigations (Field and Laboratory Works)**

Dear Sir,

Bids (Technical and Financial) are invited through EPADS (in accordance with the BOQ and qualification criteria uploaded on EPADs) 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 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 15 m depth below existing ground level (EGL), by straight rotary drilling / percussion boring method, core drilling in bedrock, performance of SPTs in boreholes, collection of disturbed/undisturbed soil samples, collection of rock core samples, collection of water samples 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 Drilling Rigs/ Percussion Sets Required	Time for Completion of Field Investigations	Time for Completion of Laboratory Testing	Total Time for Completion of Field & Laboratory Investigations
1	1	8 days	10 days	18 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 three days' 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 borehole logs, summary of laboratory test results and detailed laboratory test results to NESPAK, within the contract period. A premium of up to 25 % will be admissible on the official rates of the laboratory, selected for testing of samples. This premium has been allowed as compensation to the Contractor for making advance payment to the laboratory and later following-up for obtaining test results in time. The name of the laboratory should be provided on page 2 of 2 (Annexure-I).

The basis of payment shall be the actual work carried out and approved by the Engineer, as measured by the Contractor and certified by the Engineer and valued at the rate and prices as quoted by you in your bid. The bidders shall submit a bid security amounting to Rs. 25,000/- before the bid submission deadline in the form of pay order or bank draft in favor of M/s NESPAK.

Your most competitive bids (inclusive of all taxes) in accordance with the BOQ and qualification criteria, must be submitted through EPADs by 1100 hours on or before December 11, 2025. Technical bids would be opened on the same day at 1130 hours after their receipt in the presence of those bidders who wish to be present.

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, the final decision to accept/reject any or all the bids as per PPRA rules solely lies with the undersigned. The bidding process and the execution of entire work shall be carried out in accordance with the terms and conditions of the General Bidding Documents for Geotechnical Investigations available at NESPAK website ([www.nespak.com.pk](http://www.nespak.com.pk)).

for National Engineering Services Pakistan (Pvt.) Limited



(MUHAMMAD JAHAN ZEB)  
General Manager/ Head  
Geotechnical & Geoenvironmental Engineering Division

**SURVEYING, ENGINEERING DESIGN, TECHNICAL SPECIFICATIONS AND  
PREPARATION OF BIDDING DOCUMENT FOR 03 PILOT PLANTS OF  
WASTEWATER TREATMENT IN PUNJAB**

**GEOTECHNICAL INVESTIGATIONS FOR WASTEWATER TREATMENT PLANT IN  
VILLAGE SAR KALAN, KALLAR KAHAR**

**1. Qualification Criteria**

Qualification will be based on the criteria given in the following paras regarding the Applicant's experience, personnel and equipment capabilities, 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:

- 1) 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 investigation assignments for NESPAK and have received an unsatisfactory performance certificate within the past six (06) months shall be disqualified.

**1.4 Personnel Capabilities**

The Applicant must have in his employment, suitably qualified and 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 Experience (Years)
1	Technical Manager	B.Sc. Civil Engg.	1	5
2	Site Geologist/ Supervisor / Engineer	B.Sc. Geology/ B.Sc. Civil Engg. / B.Sc. Geological Engg.	1	2



Sr. No.	Position	Qualification*	No.	Minimum 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 sufficient 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 sets having various diameters for all types of boring at least 15 m in length with casing bits	1
4	Core barrels (single tube & double tube) including coring and casing bits	1 each
5	Standard penetration test equipment complete in all respects including all rods, split spoon sampler, hammer and containers etc.	1
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 samples and rock cores	As required
11	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.

### 1.6 Financial Capabilities

The Applicant shall meet the following minimum criteria:

- 1) 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. 10 million. Documentary proofs 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.



## 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



### Experience of the Firm

*Name of Applicant:* \_\_\_\_\_

*\*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.*



### Application Form A-3

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## Personnel Capabilities

*Name of Applicant:* \_\_\_\_\_

*\*Attach CVs of the Key Staff Members.*



## Equipment Capabilities

*Name of Applicant:* \_\_\_\_\_



**Financial Capabilities**

*Name of Applicant:* \_\_\_\_\_

Year	Annual Turnover (in PKR)
2023 – 2024	
2022 – 2023	
2021 – 2022	

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



## Litigation History

*Name of Applicant:* \_\_\_\_\_



## **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**

### **C. Details of SOPs of the Contractor**

Please attach the copies of SOPs



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**GEOTECHNICAL INVESTIGATIONS FOR WWTP IN VILLAGE SAR KALAN, KALLAR KAHAR**  
**BILL OF QUANTITIES**

Sr. No.	Description	Unit	Qty.	Rate	Amount
				(Rs.)	(Rs.)
<b>A. FIELD INVESTIGATIONS</b>					
A1	Mobilization and demobilization of at least One (01) straight rotary drilling rig / percussion boring equipment alongwith allied accessories at site including making temporary access to investigation points (if required), setting-up of drilling equipment and shifting of equipment from one investigation point to another. The equipment shall be adequate in quantity to meet the time schedule. Preparation of temporary access route (if needed) from one investigation point to another is also included in this item.	L.S.	Job		
A2	Execution of Two (02) boreholes of 15 m depth and Two (02) boreholes of 10 m depth below NSL in overburden soils or up to rock strike level, whichever is met earlier, by straight rotary drilling / percussion boring method including backfilling of boreholes to their original position using cement-sand-bentonite mix. Minimum permissible diameter of borehole is 200 mm for percussion method and 100 mm for straight rotary method.	L.M.	35		
A3	Continuous core drilling (NX / NQ size in general) in bedrock up to a maximum depth of 5 m below rock strike level, 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.	15		
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.	30		
A5	Collection of relatively undisturbed soil samples from boreholes through Denison/ Pitcher/ Shelby sampler, including their waxing, labelling, packing, storage & transportation to an approved testing laboratory.	No.	5		
A6	Collection of water samples (if encountered) from boreholes including their labelling, packing, storage & transportation to an approved testing laboratory.	No.	2		
		<b>Sub-Total A =</b>			

Establishment of coordinates and ground elevations of all the boreholes using total station 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 and in 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 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.



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**GEOTECHNICAL INVESTIGATIONS FOR WWTP IN VILLAGE SAR KALAN, KALLAR KAHAR  
BILL OF QUANTITIES**

Sr. No.	Description	Unit	Qty.	Rate	Amount
				(Rs.)	(Rs.)
<b>B. LABORATORY TESTING</b>					
B1	Sieve Analysis	No.	10		
B2	Hydrometer Analysis	No.	4		
B3	Liquid and Plastic Limits	No.	6		
B4	Natural Moisture Content	No.	10		
B5	Bulk & Dry density	No.	10		
B6	Consolidation with Swell Pressure Measurement	No.	2		
B7	Unconfined Compression	No.	3		
B8	Uniaxial Compression	No.	4		
B9	Point Load Strength Index	No.	2		
B10	Direct Shear	No.	2		
B11	Chemical Analysis of Soil Sample i/c sulphate content, chloride content, organic matter	No.	3		
B12	Chemical Analysis of Water Samples i/c TDS, Cl, SO <sub>4</sub> , pH etc.	No.	2		
	<b>Sub-Total B =</b>				
	<b>Total (A+B)=</b>				
Name of Laboratory: _____					

