



INVITATION FOR BIDS

FOR GEOTECHNICAL INVESTIGATIONS

FEASIBILITY STUDIES FOR ESTABLISHMENT OF 50-BEDDED BHURBAN HOSPITAL BHURBAN U/C RAWAT TEHSIL & DISTRICT MURREE

National Engineering Services Pakistan (Pvt.) Limited (NESPAK), invites sealed bids (Technical and Financial in separate sealed envelopes) 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.

Bidding documents (i.e. Bid Invitation Letter, BOQ & Qualification Criteria) containing detailed terms and conditions can be downloaded from NESPAK (www.nespak.com.pk) and PPRA (www.ppra.org.pk) website or can be obtained on submission of a written application from the address mentioned below.

The bidders shall submit a bid security amounting to PKR 75,000/- at the time of submission of bids in the form of pay order or bank draft 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 document. Sealed bids (inclusive of all taxes) prepared in accordance with the instructions in the bidding documents, must be submitted on or before **May 19, 2025 up to 1400 hours** at the address mentioned below.

Technical bids would be opened on the same day at **1430 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. NESPAK reserves the right to accept or reject any/all bids according to provisions of Public Procurement Rules 200.

General Manager/Head
Geotechnical & Geoenvironmental Engineering Division
NESPAK House, 1-C, Block-N,
Model Town Extension, Lahore Pakistan – 54700
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Ref: 156-02/024/MJZ/01/ 1282

Date: April 29, 2025

**FEASIBILITY STUDIES FOR ESTABLISHMENT OF 50-BEDDED BHURBAN
HOSPITAL BHURBAN U/C RAWAT TEHSIL & DISTRICT MURREE
Invitation of Bids for Geotechnical Investigations (Field and Laboratory Works)**

Dear Sir,

Scaled bids (**Technical and Financial in separate sealed envelopes**) are invited in accordance with the attached **BOQ** and **qualification criteria** 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 20 m depth below natural surface level (NSL) in overburden soils/rocks by Straight Rotary/heavy percussion drilling rig, core drilling, excavation of test pits, performance of SPTs in boreholes, collection of disturbed/undisturbed soil/rock samples, performance of field density tests, 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 Rig Required	Time for Completion of Field Investigations	Time for Completion of Laboratory Testing	Total Time for Completion of Field & Laboratory Investigations
1	2	18 Days	14 Days	32 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 (03) 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 field borehole/test pit 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 soil 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 bidders shall submit a bid security amounting to PKR 75,000/- at the time of submission of bids in the form of pay order or bank draft in favor of M/s NESPAK.

Your most competitive sealed bids (inclusive of all taxes) in accordance with the BOQ and qualification criteria, should reach the office of the undersigned by 1400 hours on or before May 19, 2025. Technical bids would be opened on the same day at 1430 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 entire work shall be carried out in accordance with the requirements of the General Bidding Documents for Geotechnical Investigations available at NESPAK website (www.nespak.com.pk).

for National Engineering Services Pakistan (Pvt.) Limited



(MUHAMMAD JAHAN ZEB)

General Manager/Head

Geotechnical & Geoenvironmental Engineering Division



**FEASIBILITY STUDIES FOR ESTABLISHMENT OF 50-BEDDED BHURBAN
HOSPITAL BHURBAN U/C RAWAT TEHSIL & DISTRICT MURREE**

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 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	M. Sc. Geology/ B.Sc. Civil Engg. / B.Sc. Geological Engg. Or Equivalent	2	2
3	HSE Supervisor	HSE Certification course	1	1
4	Driller	Literate	2	3
5	Skilled Labor	-	As Required	-



1.4 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.	2
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 20 m in length with casing bits.	2
4	Standard penetration test equipment complete in all respects including all rods, split spoon sampler, hammer and containers etc.	2
5	Core barrels (preferably triple tube tube) including coring and casing bits.	As required
6	Shelby/Denison/Pitcher samplers	2 each
7	UDS tubes & Split Spoon Samplers	As Required
8	Hydraulic jacks with all accessories for the extraction of casings	2
9	Electrically operated sounder for groundwater level measurement	2
10	Test pit excavation equipment/hand tools complete in all respect	As Required
11	Field density test apparatus (with 6 and 12 inches dia. cone) complete in all respect	1 each
12	Wooden box for the preservation of undisturbed soil/rock samples	As required
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.

1.5 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. 6.0 million.

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.

1.6 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.

1.7 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.

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

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.*

Personnel Capabilities*Name of Applicant:* _____

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

**Attach CVs of the Key Staff Members.*

Equipment Capabilities*Name of Applicant:* _____

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

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 1.5 must be provided by the Applicant

**Application Form A-6
Litigation History**

Page ___ of ___ Pages

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)



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 1.7.

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

FEASIBILITY STUDIES FOR ESTABLISHMENT OF 50-BEDDED BHURBAN HOSPITAL BHURBAN U/C RAWAT TEHSIL & DISTRICT MURREE					
GEOTECHNICAL INVESTIGATIONS BILL OF QUANTITIES					
Sr. No.	Description	Unit	Qty.	Rate	Amount
A.	FIELD INVESTIGATIONS				
A1	Mobilization and demobilization of at least two (02) straight rotary/heavy percussion drilling rigs along with allied accessories at site including shifting from one site to another and from one investigation point to another. The equipment shall be adequate in quantity to meet the time schedule.	L.S.	Job		
A2	Execution of i) Three (03) boreholes up to maximum depth of 20 m ii) Six (06) boreholes up to maximum depth of 15 m iii) Two (02) boreholes up to maximum depth of 8 m in overburden soils or up to the bedrock, whichever is met earlier by straight rotary/heavy percussion drilling 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 101 mm for straight rotary method.	L.M.	116		
A3	Continuous core drilling (NX Size)* in bedrock upto maximum depth of 5.0 m below rock strike level using preferably triple tube core barrel with core orientation, including extraction, preservation of core samples in core boxes, waxing, packing, preservation of core samples, photography of rock cores and transportation of core samples to the laboratory.	L.M.	50		
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 labeling, packing, storage & transportation to an approved testing laboratory.	No.	100		
A5	Collection of relatively undisturbed soil samples from boreholes through Denison/ Pitcher/ Shelby sampler, including their waxing, labeling, packing, storage & transportation to an approved testing laboratory.	No.	16		
A6	Excavation of two (02) test pits up to a maximum depth of 1.5 m at parking location in overburden soils or up to the bedrock, whichever is met earlier including backfilling of pits to original condition.	L.M.	3		
A7	Performance of field density tests by sand replacement method in test pits generally @ 1 test/pit at selected horizons, 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 as well as labelling, packing, storage & transportation to an approved testing laboratory.	No.	2		
A8	Collection of bulk composite soil samples (60 kg for sandy/clayey soils) from onsite testpits including their labelling, packing, storage & transportation to an approved testing laboratory.	No.	2		
A9	Collection of water samples from borehole/test pits (if encountered) including their labeling, packing, storage & transportation to an approved testing laboratory.	No.	3		
A10	Installation of three (03) stand pipe piezometers (GI Pipe) in the boreholes executed for geotechnical investigations as directed by the Engineer and monitoring of water levels on daily basis during investigations.	L.M.	45		
A11	Installation and monitoring of fifteen (15) surface settlement markers via differential GPS and monitoring of movement on daily basis during investigations.	No.	15		
A12	Monitoring of stand pipe piezometers and surface settlement markers on weekly basis after investigations for six months	No.	24		
	Sub-Total A =				
<p>Establishment of coordinates and ground elevations of all the boreholes and testpits using Total Station are included in the scope of work. The coordinates should be provided with reference to a permanent local bench mark.</p> <p>All soil samples must be labelled, stored and transported as per ASTM. The area ratio and clearance ratio of the thin walled tube, should be in strict compliance with relevant ASTM standard.</p> <p>Contractor will be responsible for arrangement of Personnel Protective Equipments (PPEs) such as safety helmets and jackets for NESPAK site supervisory / visiting staff.</p> <p>The preferred method of drilling is straight rotary. Percussion boring will be allowed only in case gravelly strata.</p>					

**FEASIBILITY STUDIES FOR ESTABLISHMENT OF 50-BEDDED BHURBAN HOSPITAL
BHURBAN U/C RAWAT TEHSIL & DISTRICT MURREE**

**GEOTECHNICAL INVESTIGATIONS
ENGINEER'S ESTIMATE**

Sr. No.	Description	Unit	Qty.	Rate	Amount
B.	LABORATORY TESTING				
B1	Sieve analysis	No.	45		
B2	Hydrometer analysis	No.	12		
B3	Liquid and plastic limits	No.	20		
B4	Bulk and dry density	No.	16		
B5	Consolidation with Swell Pressure measurement	No.	12		
B6	Direct Shear Test (Fully softened and residual ϕ)	No.	6		
B7	Triaxial Compression Test (CU)	No.	3		
B8	Unconfined Compression Test	No.	12		
B9	Uniaxial Compression (on rock samples)	No.	25		
B10	Point load Test	No.	10		
B11	Modified AASHTO Compaction	No.	2		
B12	3-point soaked CBR	No.	2		
B13	Sulphate content	No.	10		
B14	Chloride content	No.	10		
B15	Organic matter content	No.	10		
B16	Complete chemical analysis of water samples i.e TDS, SO ₄ , CL & pH	No.	6		
	Sub-Total B =				
	Total (A+B)=				
Name of Laboratory: _____					

HBL

HABIB BANK

حیب بینک

Deposit Slip

Customer Copy

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Contact No. <u>0305-6390162</u>																													
Depositor's CNIC No. <u>35502-0779153-1</u>																													
(For non-HBL/Walk-in Customers. Also attach CNIC Copy)																													
Depositor's Account No. <u>HBL</u>																													
(For HBL Customers / Account Holders)																													
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