

TERMS OF BID FOR GEOTECHNICAL INVESTIGATIONS

INTRODUCTION

Transport and Mass Transit Department, Government of Khyber Pakhtunkhwa (the Client) has engaged NESPAK for provision of Technical Assistance and Supervision of Geotechnical Investigation for the Project “Greater Peshawar Region Mass Transit System – Circular Railway” under Transport planning Unit (TPU). The scope of services of the Consultant would be aimed at providing the following engineering services:

- i. Conducting and supervising the listed soil tests;
 - ✓ Conventional soil test,
 - ✓ Direct shearing
 - ✓ Compression, water and soil corrosiveness,
 - ✓ Uniaxial compression experiment of rock shall be carried out in the exploration and the geophysical prospecting experiment is mainly experiment of wave velocity test for drilling.
- ii. Monthly report for progress of work.
- iii. Participation in interface meetings with representatives of TPU and the Borrower in anticipation of achievement of completion of the work.
- iv. Quality Assurance in testing.
- v. Furnishing of Detailed Geotechnical/ Soil Investigation Report.

SCOPE OF WORK

The scope of work for required services shall be limited to the following components:

- ✓ 8 No. bridge work points in the newly constructed line, with the exploration depth of 25m;
- ✓ 8 No. bridge work points of existing line, with the exploration depth of 20m;
- ✓ 24 work points in the sub-grade section, with the exploration depth of 10m;
- ✓ The total workload is about 600m.

whereas the general areas to be explored geotechnical are Mardan, Peshawar, Nowshera, Swabi and Charsadda districts of Khyber Pakhtunkhwa.

WORK PLAN

An engineer with qualifications, experience and commensurate with project requirements has been nominated as Project Manager/ Team Leader for the works. PM will hire the services of pertinent firms registered in GST in the field of Soil Investigation through acquiring quotations. The Project Manager as focal person of

NESPAK will coordinate with the TPU, its team members and the geotechnical firm on different tasks during construction stages.

BILL OF QUANTITIES - BOQ

Based upon the scope of work, the interested firms will fill, seal and sign the following Bill of Quantities:

A. Main Summary:

S.No	Description of Tests	Amount (Rs)
1	25 Meter depth soil exploration (8 numbers)	
2	20 Meter depth soil exploration (8 numbers)	
3	10 Meter depth soil exploration (24 numbers)	
Grand Total (PKR) =		

B. Detail Break – Up of Cost:

I. The cost break-up of 25 Meter depth soil exploration (8 numbers) is;

S.No.	Description	Unit	Rate (Rs.)	Qty	Amount (Rs)
1	Mobilization and Demobilization	Job		1	
2	Drilling of Bore Holes, preparation of bore logs etc (25 meter)	m		25	
3	Standard Penetration Test in the field	Job		12	
4	Collection of Undisturbed Shell by Tube Samples from Bore Holes	Job		12	
5	Direct Shear Test/ Unconfined compression test	Job		12	
6	Moisture Content Determination	Job		12	
7	Bulk Unit Weight Determination	Job		12	
8	Liquid Limit & Plastic Limit Test/Grain Size Analysis	Job		12	
9	Hydrometer analysis	Job		0	
10	Chloride Test/ chemical analysis of soil (per job)	Job		1	
11	Uni-axial compression of rock and Rock Sample Extraction (single test)	job		1	
Total (PKR) :					

The cost break-up of 20 Meter depth soil exploration (8 numbers) is;

S.No.	Description	Unit	Rate (Rs.)	Qty	Amount (Rs)
1	Mobilization and Demobilization	Job		1	
2	Drilling of Bore Holes, preparation of bore logs etc (20 meter)	m		20	
3	Standard Penetration Test in the field	Job		10	
4	Collection of Undisturbed Shell by Tube Samples from Bore Holes	Job		10	
5	Direct Shear Test/ Unconfined compression test	Job		10	
6	Moisture Content Determination	Job		10	
7	Bulk Unit Weight Determination	Job		10	
8	Liquid Limit & Plastic Limit Test/Grain Size Analysis	Job		10	
9	Hydrometer analysis	Job		0	
10	Chloride Test/ chemical analysis of soil (per job)	Job		10	
11	Uni-axial compression of rock and Rock Sample Extraction (single test)	job		1	
Total (PKR) :					

The cost break-up of 10 Meter depth soil exploration (24 numbers) is;

S.No.	Description	Unit	Rate (Rs.)	Qty	Amount (Rs)
1	Mobilization and Demobilization	Job		1	
2	Drilling of Bore Holes, preparation of bore logs etc (10 meter)	m		10	
3	Standard Penetration Test in the field	Job		5	
4	Collection of Undisturbed Shell by Tube Samples from Bore Holes	Job		5	
5	Direct Shear Test/ Unconfined compression test	Job		5	
6	Moisture Content Determination	Job		5	
7	Bulk Unit Weight Determination	Job		5	
8	Liquid Limit & Plastic Limit Test/Grain Size Analysis	Job		5	
9	Hydrometer analysis	Job		0	
10	Chloride Test/ chemical analysis of soil (per job)	Job		5	
11	Uni-axial compression of rock and Rock Sample Extraction (single test)	job		1	
12	CBR Test (per Job)	Job		1	
Total (PKR) :					

Note:

The rates quoted above shall be inclusive of all the costs including the cost of preparation and submission of Detailed Geotechnical Investigation Report, complete in all respects.

The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual number of tests carried out and verified by the NESPAK's Engineer and valued at the rates and prices entered in the priced Bill of Quantities.

All duties, taxes (including GST) and other levies payable by the Contractor shall be included in the rates and prices. Any item against which no rate or price is entered will not be paid for by the Employer when executed and shall be deemed covered by the rates and prices for other items in the Schedule of Prices.

NESPAK reserves the right to accept or reject any/all offers according to provision of PPRA Rules 2004.

BIDDING DOCUMENTS TO BE SUBMITTED

The firm shall submit the following Documents

1. Sealed and signed Terms of Bids for Geotechnical Investigations with filed BoQ.
2. Essential documents desired in NIT/ Publication.
3. Company profile, relevant experience, details of equipment owned/ to be hired by them.

The documents submitted in this regard will be considered during the bid evaluation process.

BIDDING DATA

1. **The Employer:** National Engineering Services Pakistan (Pvt.) Limited including his successors and assignees.
2. **The Contractor:** Person(s) Firm or Company whose Quotation has been accepted by the Employer and includes Contractor's personal representative, successor and permitted assignees.
3. **Bid Submission:** As per NIT/ Publication
4. **Bid Security:** Bids must be accompanied by earnest money in the form of bank Demand Draft or Pay Order amounting to Rs. 40,000/- (Rupees forty thousand only) in Favor of National Engineering Services Pakistan (PVT.) Limited (NESPAK). Bid Security of all bidders shall be released upon the issuance of Letter of Acceptance to the successful bidder.
5. **Bid Validity:** Thirty (30) days from the date of opening of Bids.
6. **Contract Agreement:** To be executed within 3 days of receipt of letter of Acceptance by the Contractor
7. **Commencement Date:** within three (03) days from date of issuance of Letter of Acceptance.

8. **Time for Completion:** Forty (45) days inclusive of compilation and preparation of detailed Final Report from the Commencement Date.

9. **Programme:**

- Time for Submission: Within three (03) days of the Letter of Acceptance.
- Form of Programme: Bar chart.

10. **Documents forming the Contract** (listed in the order of priority):

- a. Contract Agreement
- b. Letter of Acceptance
- c. Terms of Bid
- d. Bills of Quantities

11. **Terms of Payment:**

- Forty percent (40%) Payment of Contract Price shall be made within two weeks after Completion of all field tests listed in Price Bill of Quantities (BoQ) subject to deduction of applicable taxes.
- Sixty percent (60%) Payment of Contract Price shall be made within two weeks after submission of Final Geotechnical Investigation Report duly verified by the Employer subject to deduction of applicable taxes.

12. **Value of the Work:** As per detail given in the Schedule of Prices.

13. **Currency of Payment:** Pakistani Rupees (PKR).

LETTER OF OFFER

Name of Works: Technical Assistance and Supervision of Geotechnical Investigation
for TPU Project

To:

Regional Manager, (Khyber Pakhtunkhwa)
NESPAK House, 24/B-2,
Phase V, Hayatabad
Ph: 091- 5828478

Gentlemen,

1. Having examined the Scope of Work, Terms & Conditions for carrying out of the above-named Works, for the execution of above named Works, we, the undersigned, under the name of

_____ and address
_____ and being duly incorporated
under the laws of Pakistan hereby offer to carry out and complete such Works in conformity with the said Documents for the Total Price of Pak Rs. _____ (Pak Rupees) or such other sum as may be ascertained in accordance with the said Documents.

2. We undertake, if our offer is accepted, to commence the Works and to deliver and complete the Works comprised in the Contract within the time(s) stated in these documents/Terms of Reference.

3. We agree to abide by this Offer for the period of thirty (30) days from the date fixed for opening the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

4. Unless and until a formal Agreement is prepared and executed, this Offer, together with your written acceptance thereof, shall constitute a binding contract between us.

5. We understand that you are not bound to accept the lowest or any Offer you may receive.

6. We do hereby declare that the Offer is made without any collusion, comparison of figures or arrangement with any other person or persons making an Offer for the Works.

7. We are also submitting our company profile, relevant experience, details of equipment owned / to be hired by us for the assignment. We also understand that our submitted documents in this regard will be considered during the bid evaluation process.



Dated this _____ day of _____, 2017.

Signature _____ in the capacity of _____
_____ duly authorized to sign Offer for and on behalf of

(Name of Offerer in Block Capitals)

(Seal)

Address: _____

Witness:

(Signature) _____

Name: _____

Address: _____



FORM OF CONTRACT AGREEMENT

This CONTRACT AGREEMENT (hereinafter called the "Agreement") made on the _____ day of _____ 2017 between _____ (hereinafter called the "Employer") of the one part and _____ (hereinafter called the "Contractor ") of the other part.

WHEREAS the Employer is desirous that certain Works, viz _____ should be executed by the Contractor and has accepted an Offer by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW this Agreement witnessed as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents after incorporating addenda, if any shall be deemed to form and be read and construed as part of this Agreement, viz:
 - a) The Letter of Acceptance;
 - b) The Offer Submission Form; The Letter of Offer;
 - c) The Priced Bill of Quantities;
 - d) Terms of Reference (TOR)
3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy defects therein in conformity and in all respects within the provisions of the Contract.
4. The Employer hereby covenants to pay the Contractor, in consideration of the execution and completion of the Works as per provisions of the Contract, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

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

Signature of the Contractor
(Seal)

Signature of the Employer
(Seal)

Signed, Sealed and Delivered in the presence of:

Witness:
(Name, Title and Address)

Witness:
(Name, Title and Address)