



**TransKarachi**

Operator of the Karachi Breeze System

**PROJECT: 47279-002, KARACHI BUS RAPID TRANSIT RED LINE PROJECT**

**Government of Sindh**

**REQUEST FOR QUOTATIONS**

**(NON-CONSULTING SERVICES)**

***for***

**Geotechnical Investigations at Biogas Plant Site located at  
Bhens Colony, Landhi, Karachi**

**Contract Reference: KBRT-Serv/Biogas Site/Geotech/2023-02**

**November 2023**

## REQUEST FOR QUOTATION - SERVICES (RFQS)

**Project Title:** Karachi Bus Rapid Transit Redline Project  
**Source of Funding:** Asian Development Bank (ADB)  
**Title of Procurement:** Geotechnical Investigations at Biogas Plant Site located at Bhens Colony, Landhi, Karachi  
**Contract Ref:** KBRT-Serv/Biogas Site/Geotech/2023-02 **Date of Issue:** 17 Nov 2023

To: **Concern**

Sir/Madam:

1. The **TransKarachi** (Client) hereby requests you to submit your price quotation/(s) along with required documentation as listed in Section: 4(a) below for the performance of services described in the attached **TORs/Scope of Services (Appendix-A)** to this RFQ. If you, however; have been associated with the preparation of this TORs/Scope of Services that is the subject of this request, you shall be disqualified.

To assist you in the preparation of your price quotation we are also enclosing the Draft **Form of Quotation**, and **Payment Schedule** along with TORs.

2. If you/your firm, however, falls under any of the following conditions, your proposal shall not be considered:
  - (a) you/your firm are/is not a citizen/national of an ADB member country, or
  - (b) you/your firm have/has been associated with the firm that prepared the terms of reference or engaged in the preparation of the Project for which the contract that is subject of this request for quotations was identified, or
  - (c) you/your firm are/is owned by the Client, or
  - (d) you/your firm are/is currently sanctioned or temporarily suspended by the Asian Development Bank for a violation of its [Anticorruption Policy](#) (1998, as amended to date) or
  - (e) the contracting of services from your country or any payment to persons or entities in your country is prohibited in compliance with a decision of the United Nations Security Council under Chapter VII of the Charter of the United Nations.
3. To be qualified, you must be registered and have an NTN, SRB, and experience as a Service Provider of the services covered by this **Request for Quotation**. As evidence, you must attach a document of your experience as Service Provider in at least one contract/service order in the last 3 years of a size and nature similar to the requirements of this contract.
4. Your quotation/(s) should be submitted in accordance with the following instructions, procedures, and the terms and conditions of the Contract.

### **Preparation of Quotations**

- (a) Your price quotation/(s) shall be for all the items/services as described in the **TORs/Scope of Services** attached as **Appendix-A**. The **Service Order** will be issued to the respective firm offering the lowest evaluated rates/prices for all items at the sole discretion of the Client.
- (b) Your Quotation should comprise the following documents: (duly signed & stamped):
  1. **Form of Quotation** *[to be furnished on company's original Letterhead & signed by authorized representative]*
  2. **Priced Quotation** (inclusive of all taxes) *[signed by authorized representative]*

3. TORs/Scope of Services (Appendix-A) [to be furnished on company's original Letterhead & signed by authorized representative]
  4. Checklist [to be furnished on company's original Letterhead & signed by authorized representative]
- (c) The currency of quoted prices and payment shall be Pakistani Rupees.
- (d) The rates/prices quoted shall include all the applicable Taxes, duties, and other levies as per FBR and SRB Rules & in accordance with Government of Sindh and Government of Pakistan.
- (e) You shall submit only **one set** of quotations for the above services. Your quotation must be typed or written in indelible ink and shall be signed by you or your authorized representative. Without a signature & stamp on your **Form of Quotation**, your quotation will not be considered.
- (f) Your quotation(s) should be **valid for a period of 30 days** from the deadline for submission of the quotation/(s) as indicated below. If you withdraw your quotation during the validity period and/or refuse to accept the award of a contract when and if awarded, then you will be excluded from the list of Service Providers for the project for two years.
- (g) TransKarachi (Client) may request the participating Firms/Companies during the evaluation process to extend the Validity Period of their Bids/Proposals for a specified period [equal to or below the existing validity period referred above under Section: 4(f)] if the evaluation/award process delayed for whatever reason.

#### **Submission of Quotations:**

- (h) The Complete Set of your Quotation/Proposal comprising of all the required documents as listed above under section 4 (b) should be submitted (Hard Copy) on or before **27 November 2023 till 12.00 pm** that should be signed, sealed in an envelope clearly mentioning the "**Quotation for Geotechnical Investigations at Biogas Plant Site**", and delivered to the following address. Incomplete or late proposal will not be entertained.

Client's Address: Manage Procurement & Contracts,

TransKarachi, C-89, near Bilal Masjid, Block 2, Clifton, Karachi,  
Pakistan

Telephone : 021-35300241-43, 021-99332440, 021-99332478

E-Mail: [faisal.shaikh@transkarachi.pk](mailto:faisal.shaikh@transkarachi.pk) & [sheeraz.ahmed@transkarachi.pk](mailto:sheeraz.ahmed@transkarachi.pk)

**Note:** The submission of Quotation/s in soft copy through email is not allowed.

#### **Evaluation and Comparison of submitted Quotations:**

- (i) Quotations determined to be substantially responsive to this Request for Quotation will be evaluated by comparison of their offered prices. A quotation is not substantially responsive if it contains material deviations or reservations to the terms, conditions, and specifications in this Request for Quotation.
- (j) In evaluating the quotations, the Client will adjust for any arithmetical errors as follows:
- (i) where there is a discrepancy between amounts in figures and in words, the amount in words will govern; and
  - (ii) where there is a discrepancy between the unit rate (where applicable) and the line-item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern; and

If you refuse to accept the correction/(s), your quotation will be rejected.

**Issuance of Service Order:**

(k) The Client shall issue the formal Service Order to the Service Provider within the Validity Period for the provision of required services as per issued TORs whose quotation has been determined to be substantially responsive to this Request for Quotation and who has offered the lowest price quotation.

**Timelines for completing the Services.**

The service provider will complete the activity / assignment (drilling and sampling, standard penetration test (SPT), water level measurements, laboratory testing and analysis and preparation and submission of reports) within 30 calendar days after receipt of service order from client, TransKarachi.

**Failure and Terminations: -**

If the service provider fails to perform the related services within the period specified in the RFQ, the Employer may without prejudice to all its other remedies under the service order.

- Deduct from the total contract price/ service order amount, as Liquidated Damages levied at 0.5% per week or part thereof (to be calculated on per day basis) the total contract price/ service order amount subject to maximum of 10% of the contract price/ service order amount.

5. Further information can be obtained from:

Name: Manage Procurement & Contracts,  
Address: TransKarachi, C-89, near Bilal Masjid, Block 2, Clifton, Karachi, Sindh.  
Telephone: 021-35300241-43, 021-99332440, 021-99332478  
E-Mail: [faisal.shaikh@transkarachi.pk](mailto:faisal.shaikh@transkarachi.pk) & [sheeraz.ahmed@transkarachi.pk](mailto:sheeraz.ahmed@transkarachi.pk)

6. The Client intends to apply funds from the **Asian Development Bank (ADB)** for eligible payments under the **Contract** resulting from this **Request for Quotation**.

7. Under **ADB's Anticorruption Policy** (1998, as amended to date) Service Providers shall observe the highest standard of ethics during the procurement and execution of such contracts. ADB may reject a proposal for award and may impose sanctions or other remedial actions on parties involved, if it determines that the Service Provider recommended for award or any other party, directly or through an agent, has engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices or other integrity violations in competing for, or in executing, the Contract. At the time of submission of your quotation, you should not be in ADB's sanctions list. A firm/individual shall not be eligible to participate in any procurement activities under an ADB-financed, -administered, or -supported project while under temporary suspension or debarment by ADB pursuant to its Anticorruption Policy, whether such debarment was directly imposed by ADB, or enforced by ADB pursuant to the Agreement for Mutual Enforcement of Debarment Decisions.

8. You/your firm, joint venture partners, associates, parent company, affiliates or subsidiaries, including any subcontractors or suppliers for any part of the Contract, are not, or have never been, temporarily suspended, debarred, declared ineligible, or blacklisted by the client's country, any international organization, and other donor agency.

If so debarred, declared ineligible, temporarily suspended, or blacklisted, please state details (as applicable to each joint venture partner, associate, parent company, affiliate, subsidiaries, subcontractors, and/or suppliers):<sup>1</sup>

(a) Name of Institution: \_\_\_\_\_

(b) Period of debarment, ineligibility, or blacklisting (start and end date):

(c) Reason for the debarment, ineligibility, or blacklisting:

- 
9. You/your firm's, joint venture partners', associates', parent company's affiliates' or subsidiaries', including any subcontractors' or suppliers', key officers and directors have not been [charged or convicted] of any criminal offense (including felonies and misdemeanors) or infractions/violations of ordinance which carry the penalty of imprisonment.
10. If so charged or convicted, please state details:<sup>2</sup>
- (a) Nature of the offense/violation: \_\_\_\_\_
  - (b) Court/Area of jurisdiction: \_\_\_\_\_
  - (c) Resolution (i.e. dismissed; settled; convicted/duration of penalty): \_\_\_\_\_
  - (d) Other relevant details: \_\_\_\_\_
11. You/your firm understands that it is your obligation to notify ADB should you/your firm, joint venture partners, associates, parent company, affiliates or subsidiaries, including any Subcontractors or Suppliers, be temporarily suspended, debarred or become ineligible to work with ADB or any other multilateral development banks, the client's country, international organizations, and other donor agencies, or any of your key officers and directors be charged or convicted of any criminal offense or infractions/violations of ordinance which carry the penalty of imprisonment.
12. Any misrepresentation that knowingly or recklessly misleads or attempts to mislead may lead to the automatic rejection of the quotation/bid or cancellation of the contract, if awarded, and may result in remedial actions, in accordance with ADB's Anticorruption Policy (1998, as amended to date) and Integrity Principles and Guidelines (2015 as amended from time to time).
13. A bidder shall not have a conflict of interest. All bidders found to have a conflict of interest shall be disqualified.
14. Please confirm by fax/e-mail the receipt of this request and whether or not you will submit the price quotation(s).

Sincerely,  
**Manage, Procurement & Contracts,**  
**TransKarachi**

## FORM OF QUOTATION (Services)

To: \_\_\_\_\_ [date]

The TransKarachi  
C-89, Block 2, Near Bilal Masjid, Clifton, Karachi, Sindh-Pakistan  
Telephone: +92-21-9933476-8. E-mail: faisal.shaikh@transkarachi.pk

We offer to provide our Services for the **Geotechnical Investigations at Biogas Plant Site located at Bhens Colony, Landhi, Karachi, Contract Ref: KBRT-Serv/Biogas Site/Geotech/2023-02** in accordance with the **Contract Terms and Conditions** and **TORs/Scope of Services** attached as **Appendix-A** with this Form of Quotation for the overall Contract Price not to exceed PKR \_\_\_\_\_ [amount in numbers] \_\_\_\_\_ [amount in words] in accordance with the **Payment Schedule** annexed to this **Form of Quotation**.

We propose to complete the performance of all the services described under the **Contract** within the Completion Period indicated in the **Conditions of Contract**.

This Quotation and your written acceptance will constitute a binding Contract between us. We understand that you are not bound to accept the lowest or any Quotation you receive.

We hereby confirm that this Quotation complies with the Validity of the Offer condition imposed by the **Request for Quotation** document.

We: (a) are a national of an ADB member country; (b) have not been associated with the firm that prepared the terms of reference or engaged in the preparation of the Project for which the contract that is subject of this request for quotations was identified; (c) are not owned by the Client; (d) are not currently sanctioned or temporarily suspended by the Asian Development Bank; and (e) to the best of our knowledge, is not prohibited from being contracted in compliance with a decision of the United Nations Security Council.

Name of Service Provider: \_\_\_\_\_  
Authorized Signature : \_\_\_\_\_  
Name of Signatory : \_\_\_\_\_  
Title of Signatory : \_\_\_\_\_  
Address : \_\_\_\_\_  
Telephone Number : \_\_\_\_\_  
Fax Number, if any : \_\_\_\_\_  
Email address (optional) : \_\_\_\_\_

### ACCEPTANCE

The Client accepts the Service Provider's offer to provide the service.

Name of Client : TransKarachi  
Authorized Signature : \_\_\_\_\_  
Name of Signatory : \_\_\_\_\_  
Title of Signatory : \_\_\_\_\_  
Date : \_\_\_\_\_

## PRICE SCHEDULE

Item no.	Details of Items/Activities	Unit	Total running meters	Rate	Total Amount PKR (Inclusive of Income Tax)
1	Drilling for Soil Investigation / Depth of Borings: <b>Drilling of 05 Nos. of boreholes. The boreholes shall be drilled to a minimum depth of 10m and a maximum depth of 15 meter, stopping at or after 10m if bedrock has been encountered.</b>	Running meter	(05 x 15 meters)		
			75		
2	Mobilization and Demobilization of Staff and Equipment's at proposed site	Lump Sum			
3	SPT @ 1.5m interval	Lump Sum			
4	Laboratory Testing and Analysis	Lump Sum			
5	Preparation and submission of Reports	Lump Sum			
Sindh Revenue Board / SST					
<b>Total cost (PKR) of Geotechnical Investigations at Biogas Plant (Inclusive of Income Tax &amp; SST)</b>					

NOTE: The payments will be made as per the drilling of actual depth of boreholes.

## PAYMENT SCHEDULE

The Payment shall be made on completion of below listed Milestones:

Sr No.	Payments	Deliverables/Milestone	Amount
1	<b>Partial Payment</b>	After completion of drilling of 05 Nos. of boreholes at the proposed site.	50% of the total amount
2	<b>Final Payment</b>	<ul style="list-style-type: none"> <li>▪ Completion of all the required Field &amp; Lab Tests</li> <li>▪ Submission of accepted Geotechnical Investigation Report</li> </ul>	50% of the remaining total amount.

## CHECK LIST

(DOCUMENTS TO BE ATTACHED AND AGREED WITH PROPSAL)

S. No	Documents Requirement	Status (Yes/No)
01	<b>National Tax Number Certificate</b> (NTN)	
02	<b>Sindh Revenue Board Certificate</b> (SRB)	
03	<b>Experience</b> as Service Provider in at least one contract/service order in the last 3 years of a size and similar nature to the requirements of this contract	
04	<b>Conformity with TORs.</b>	
05	<b>Bid Validity:</b> Thirty (30) days from the date of the bid deadline	
06	<b>Completion Timelines:</b> The complete activity / assignment (drilling and sampling, standard penetration test (SPT), water level measurements, laboratory testing and analysis and preparation and submission of reports) will be completed within 30 calendar days after receipt of service order from client, TransKarachi.	
07	<b>Payment Condition:</b> <u>Partial payment:</u> 50% of the total amount will be processed after completion of drilling of 05 Nos of boreholes at the proposed site. <u>Final Payment:</u> 50% of the remaining amount will be processed completion of all the required Field, Lab Tests & submission of accepted Geotechnical Investigation Report.	



## **TERMS OF REFERENCE (TOR)**

### **Geotechnical Survey and Investigation Report**

#### **OBJECTIVE**

To determine the soil bearing capacity of the Karachi projects.

#### **PROJECT SCOPE**

Subsurface soil exploration work including Geotechnical Report for site of Transkarachi biogas project (the Project).

#### **PROJECT CONTACTS**

All technical communication to be directed to Masood Alam Farooqui:

Email: [masood.alam@transkarachi.pk](mailto:masood.alam@transkarachi.pk)

Phone: +92 33 52 56 88 33

#### **SCOPE OF SERVICES**

##### **GENERAL**

Responsible for carrying out the necessary subsurface Soil exploration works in respect to the Project stated.

Upon completion of the subsurface exploration work activities, the Consultant shall submit their final report containing geotechnical/geological reports.

The Consultant shall be responsible for the reliability of the report presented.

##### **THE SERVICES**

Subsurface Soil Exploration Works

##### **SCOPE OF PROJECT**

The contractor shall provide all the labor, instrument/equipment materials and supplies, vehicles, bunkhouses, etc., necessary to perform satisfactorily the subsurface exploration herein required, following:

- Drilling and sampling
- Standard Penetration Test (SPT)
- Water Level Measurements
- Laboratory Testing and Analysis
- Preparation and submission of Reports

The Contractor shall be held solely responsible for the result of this boring/drilling exploration and other activities under terms of Reference.

##### **LOCATION**

24°50'06.2"N 67°15'55.2"E

Mehran Highway, Bhains Colony (Cattle Colony) Bin Qasim Town, Karachi, Karachi City, Sindh, Pakistan



## DETAILED EXPLORATION REQUIREMENTS / SPECIFICATIONS

### Drilling and Sampling

Location and Number:

Five (5) boreholes shall be drilled at the Biogas Plant location. As shown in site plan with coordinate.



**Depth of Borings:** The boreholes shall be drilled to a minimum depth of 10m and a maximum depth of 15 meter, stopping at or after 10m if bedrock has been encountered.

In sand, clay, and silt materials, advance the boreholes using the wash boring method, incorporating side-discharged chopping bits in between sampling sections. Utilize N-size casings when required. Thoroughly clean the washed section before each sampling run, ensuring minimal disturbance to the underlying soil. Drill a 100 mm (4") diameter hole using either wash boring or rotary drilling at the bottom of the borehole.

Embed a 100 mm diameter steel casing into the topsoil to a sufficient depth to prevent hole collapse and facilitate water circulation during wash boring. Use bentonite slurry to maintain an open borehole for sampling and testing.

**Sampling Procedure:** Collect undisturbed samples at 1.5-meter intervals in each borehole, employing hydraulic push using a drill machine, for soft and medium clay layers.

Perform sampling in accordance with ASTM D 1586 and ASTM D 1587 standards. Use a 50 cm split spoon sampler at one-meter intervals from the riverbed to the hard strata. Obtain disturbed samples using thin-walled tube samplers hydraulically in soft cohesive layers.

For rock formations, conduct core drilling using a diamond rotary drill method. Take core samples whenever encountering substantial information.

Immediately place the extracted core samples in labeled core boxes, arranged according to depth.

### Standard Penetration Test (SPT)

Perform the test in ordinary soil encountered up to the specified depths. Use a 5.0 cm (2.0 in.) outside diameter split spoon sampler driven by a 63.6 kg (140 lbs.) hammer falling 76.0 cm (30 in.) at 1.50-meter intervals or closer if necessary.

### Water Level Measurement

Measure the water level daily, both before and after encountering it in a borehole.

### Laboratory Testing Analysis

Conduct laboratory testing on soil samples obtained from the boreholes to determine the basic properties of the subsoils. Follow ASTM standard procedures for the required tests. Refer to the table below for the types of tests performed in the laboratory and the corresponding standards followed.

Test	Standard followed
Natural water content	ASTM D 2216
Atterberg limits (Liquid limit, plastic limit & plasticity index)	ASTM D 4318
Bulk unit weight	Weight & dimension Measurement
Particle size analysis	ASTM D 422
Split-Spoon Analysis as required:	
<ul style="list-style-type: none"> <li>• Visual Soil Description</li> <li>• Mechanical Analysis, AASHTO Designation T88</li> <li>• Liquid Limit, Plastic Limit and Plasticity Index, AASHTO Designation T89 and T90</li> <li>• Group Index and Soil Classification, use Unified Soil Classification</li> </ul>	

## D. REPORT OUTPUTS/DELIVERABLES

Prepare the FINAL REPORT containing geological/geotechnical reports & analysis in three (3) bound copies and one electronic PDF copy. Report shall include the following:

- Field Investigation and Methodology
- Borehole Drilling and Sampling
- Laboratory Testing
- Final Boring Logs (BL)
- Final Laboratory Test Results (FLTR) should be included:
  - Soil boring log,
  - Friction angle
  - Standard penetration test
  - Atterberg limit
  - Natural water content
  - Skin friction capacity
  - End bearing capacity.
  - Overburden pressure
- Borehole Location Plan
- Soil Profile along structures shoeing boring/ drilling logs
- Soil Liquefaction Investigation Report

- Soil Bearing Capacity
- Detailed discussion of the result of geological/geotechnical investigation and laboratory testing
- Recommendation (Foundation Type and required geotechnical parameter for design)

Other Data to be submitted by the Consultant along with the Final Report are the following:

#### *Boring Logs*

- Job, boring, hole number, date, time, boring/drilling, foreman, supervisor
- Weather condition
- Depth of Boring at start of the day
- Water level in casing at start of the day
- Method of Penetration and flushing system
- Description of soil strata encountered.
- Depth of soil boundaries
- Size, type and depth of samples and sample number
- Type and depth of in-situ test
- Standard Penetration Test Resistance, "N" Value
- Recovery ratios of samples
- Detailed notes on boring / drilling procedure, casing sizes and resistance to driving, description of wash water or spoil from boring / drilling tools
- Depth of boring at end of the day
- Other relevant information such RQD, percent core recovery, angle of friction etc.

#### *Photographs*

Photographs showing the borehole drilling and sampling at each proposed sites shall be taken by the consultant and Incorporated in the report, photographs shall be taken at each borehole location depicting the following:

- Equipment used
- Core drilling operation
- Water level measurements
- Performance of SPT and Shelby tube sampling
- All cores in the core boxes, SPT and Shelby tube samples
- Date photographs was taken