

**UNIVERSITY OF ENGINEERING & TECHNOLOGY**

**LAHORE CAMPUS**



**CALL OF QUOTATION**

**FOR THE PURCHASE OF**

**INSTRUMENTATION (LOAD CELL AND LVDT) FOR  
LABORATORY PUNCH PENETRATION TEST APPARATUS**

**for**

**DEPARTMENT OF GEOLOGICAL ENGINEERING**

Contract Ph: 042-99029297

**DEPARTMENT OF GEOLOGICAL ENGINEERING**  
**UNIVERSITY OF ENGINEERING & TECHNOLOGY, LAHORE**

**TERMS & CONDITIONS / INSTRUCTIONS FOR BIDDERS**  
**OF**  
**INSTRUMENTATION (LOAD CELL AND LVDT) FOR LABORATORY PUNCH**  
**PENETRATION TEST APPARATUS**

1. The prices, including all taxes, should be quoted item-wise in Pakistani Rupees so as to reach the premises of the Department of Geological Engineering, University of Engineering & Technology Lahore.
2. Offers should be valid for 90 days from the date of opening of the Quotations.
3. Delivery period will be three (03) months from the date of placement of order. Earlier delivery will be appreciated.
4. Bidders must submit their quotations duly signed, clearly indicating the offered specifications of each item, specified in the Tender Document.
5. Offers must be supported with comprehensive sectioned literature of the materials / goods offered.
6. The University reserves the right, at the time of placing the order, to increase or decrease the quantity of items.
  - a. Bids must be accompanied by **2% of the total offer as Earnest Money in the shape of CDR (Call Deposit Receipt)** in the name of Treasurer, University of Engineering and Technology, Lahore without which bids will not be entertained. Bank Guarantee is not acceptable.
  - b. The successful bidder will arrange **two stamp papers @0.25% on total value** of issuance of Purchase Order.
7. If the successful bidder fails to supply the equipment within stipulated period, their Earnest Money shall be forfeited.
8. The equipment must be in accordance with the offered specifications.
9. Bidders must attach attested photocopy of their N.T.N. and G.S.T. Number, Professional Tax Certificate.
10. The successful bidder(s) shall get the equipment inspected at their premises workshop before its dispatch to the UET Lahore.

11. Part / advance payment is not allowed.
12. 10% security of total value of Purchase order will be retained for one year at the time of payment.
13. In case of failure on the part of supplier to supply the equipments as per specifications quantity or within the stipulated time without getting extension, penalty upto 10% of the supply order per month will be imposed on the supplier by the Head of Department.
14. Payment will be made on availability of funds, if delayed due to any reason; no extra interest / mark-up will be accepted or paid.
15. Deduction of Income Tax and other taxes of any kind will be deducted at the source according to Governments prevailing rules.
16. **After Sale service** and supply of spare parts must be **guaranteed for a period of one year.**
17. **The last date for submission of quotations is 02.11.2015 at 11:00 am** in the office of Department of Geological Engineering UET, Lahore. The quotations will be opened on the same day at 11:30 am in the conference hall adjacent to the Vice Chancellor's office by the **Central Purchase Committee** in the presence of the bidders or their authorized agents (if any).
18. Single stage / two envelope (Technical & Financial) bidding procedure shall be applied.
19. The bidders are required to submit the company profile including Technical, engineering, managerial capabilities after sale service and past experience / performance along with their technical bid and also list of reference installation in Pakistan for similar equipments.
20. The equipment supply must be on turnkey basis.
21. Procurement shall be governed by the PPRA, 2014.

**Dr. Muhammad Zubair Abu Bakar**  
**Chairman**

<b>Required Specifications of Compact Load Cell</b>	
<b>Capacity Range</b>	0-10,000 lbs
<b>Linearity</b>	$\pm 0.5$ % F.S.
<b>Hysteresis</b>	$\pm 0.3$ % F.S.
<b>Repeatability</b>	$\pm 0.10$ % F.S.
<b>Material</b>	Stainless Steel
<b>Temperature Range</b>	60 to 160 °F
<b>Output</b>	2 (mv/v)
<b>Bridge Resistance</b>	350 ohms
<b>Excitation</b>	10 Vdc
<b>Safe Overload</b>	50% over capacity
<b>Thread</b>	6-32 UNC
<b>Cable</b>	Teflon (5ft)
<b>Factory Calibration</b>	Required
<b>Make</b>	USA, Europe

<b>Required Specifications of Linear Variable Differential Transducer (LVDT)</b>	
<b>Displacement Range</b>	2-4 inch (50mm-100mm)
<b>Spring Force</b>	0.66 to 0.77 lb
<b>Excitation</b>	2 to 10 V, ac or dc
<b>Frequency Response</b>	5-mm displacement: 100 Hz; 100-mm displacement: 10 Hz
<b>Rated (F.S.) Output</b>	3.6 mV/V to 5.2 mV/V
<b>Nonlinearity ( Best-Fit Method)</b>	0.35% FS
<b>Resolution</b>	Infinite
<b>Bridge Resistance (Nominal)</b>	350 ohms Bridge, 100k ohms Zero Balance
<b>Temperature Range</b>	+15 to +140° F [-10 to + 60° C]
<b>Temperature Coefficient (% FS)</b>	Span<0.006% /°F [<0.01%/°C]
<b>Termination</b>	0.18 in PVC 7/0.008[4.5 mm PVC7/0.2], 4-core shielded, 6.6 ft [2.2m] long
<b>Electrical Connections</b>	Input: Red + Black-; Output: Green + White-
<b>Factory Calibration</b>	Required
<b>Make</b>	USA, Europe