# GOVT. COLLEGE OF ENGINEERING AND RESEARCH, AWASARI

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No. GCOEARA/Store/2016-17/ 3425 Date: 20/10/2016

To,

As per addresses overleaf

Subject : Quotation for supply of Equipments (Civil Engineering- Geotechnical Engineering Lab )

Please send your quotation for the following items on the terms and conditions listed below, mentioning our reference letter number, date and due date of quotation on your sealed envelop, on or before **03.11.2016** at 5.00 P.M.

| Sr.No. | Specification | Qty. | Unit |
|---|---|---|---|
| 1 | Direct Shear Test Apparatus | 1 | No |
| 2 | Triaxial Test Apparatus | 1 | No |
| 3 | Plate Load Tester | 1 | No |
| | **(Detail scope of supply will be as per enclosed sheet)** | | |

**Terms & Conditons**

1 Taxes – Inclusive / if extra clearly mention the percentage.

2 Delivery period –

3 Payment Terms –

4 Quotation Validity –

5 Warranty -

6 Guaranty-

} Mention clearly

7 Delivery Charges – Free / if extra mention clearly.

8 The part supply and its bill will strictly not be entertained.

9 If you fail to supply the stores within the specified period, the order will be treated at cancelled without any information.

10 The material will be accepted subject at approval(after inspection of the material),If rejected it will be returned to you at your cost.

11 The material to be supplied should be strictly according to the specification only.

12 Octroi is not applicable since Institute is located in Gram Panychayat area.

13 Please attach copy of your shop registration certificate alongwith your quotation, without which your quotation will not be accepted.

(Dr. A.S. Pant )

Principal

Govt.College of Engineering & Research Awasari

Awasari(khurd)

| Sr. No. | Name of Equipments/Accessories/~~consumables~~ with specifications | Quantity Required |
|---|---|---|
| | **Geotechnical Engineering Lab** | |
| 1 | **Direct Shear Test Apparatus:** Test rig should able to perform tests as per IS: 2720 part XIII. It should be a motor operated horizontal loading system for shearing the specimen. It should comprise: i) Shear Box assembly made up of corrosion resistant material, 60 mm square, complete with U-bracket, guide pins and spacing screws; ii) Gripper assembly consisting of two plain grid plates, two perforated grid plates, one base plate and one loading pad; iii) Two porous stones, each 6 mm thick, fitting the shear box; iv) Shear box housing complete with two ball roller strips; v) Loading unit with normal loading of 8 kg/cm$^2$ on 60 mm$^2$ specimen; vi) Specimen cutter for a specimen size of 60 X 60 X 25 mm; vii) The unit must be provided with a turret type gear box to get 12 different constant rates of strain: 1.25, 0.625, 0.25, 0.125, 0.05, 0.025, 0.01, 0.005, 0.002, 0.001, 0.0004, and 0.0002mm/min and arrangements to carry out residual shear strength tests; viii) Test rig should be operational with 220V, 50 Hz, single-phase supply; ix) Set of weights: 4 of 0.05 kg/cm$^2$, 1 of 0.1 kg/cm$^2$, 1 of 0.2 kg/cm$^2$, 3 of 0.5 kg/cm$^2$ and 1 of 1 kg/cm$^2$; x) Tension-compression proving ring of capacity 2 kN for carrying out residual shear strength test; xi) A dial gauge 0.01 × 25 mm | 1 |
| 2 | **Triaxial Test Apparatus:** Test rig should able to perform tests as per IS: 2720 part XII. It should suitable for determining the triaxial shear strength of soil specimens of 28mm diameter with length to diameter ratio as 1:2. It should comprise: i) Motorized load frame of 50 kN capacity with 1.25 mm/min strain rate operational on 220V, 50Hz supply. The loading unit should be supplied with one dial gauge bracket; ii) One triaxial cell for 38 mm dia specimen; iii) Lateral pressure assembly: 0-10kg/cm$^2$ complete with foot pump and rubber hose; iv) A dial gauge 0.01 mm X 25 mm for strain measurement; v) Proving ring of capacity 250 kg with calibration report. | 1 |
| 3 | **Plate Load Tester:** Plate bearing test apparatus should be able to perform test as per IS: 1888-1981. Test rig should comprise: i)50 Tone Hydraulic jack with separate pumping unit fixed to it a 0-500 KN (Least count 0.5 kN); ii) One pressure gauge and a flexible metal pipe 5 meter long; iii) One special ball and socket arrangement between the jack and the bearing plate; iii) Extension rod 12mm diameter x 25cm long for taking dial gauge readings (16 Number); iv) Magnetic base with female thread on top for holding extension rod (04 Number); v) Top end plate, 50mm, diameter with male thread for fitting onto the extension rods and positioning the dial gauge plunger(04 Number); vi) Column 15cm diameter x 25cm length with flanges complete with four bolts and nuts (02 Number); vii)Column 15cm diameter x 50cm length with flanges complete with four bolts and nuts (01 Number); ix) Bridge support of welded steel angle construction, 5 meter span and stands approximately 30cm high. It should be fitted with two quick release clamps for positioning and holding the dial bracket (02 Number); x)Plane MS Plates: Size 60cm x 60cm x 25mm (01 Number),Size 60cm x 60cm x 25mm (01 Number), Size 60cm x 60cm x 25mm (01 Number); xi) Dial Gauge 0.01mm x 25mm (04 Number) | 1 |

(Dr. S. B. Bidwale)