

# GOVT. COLLEGE OF ENGINEERING AND RESEARCH, AWASARI

Awasari(Khurd) Tal: Ambegaon, Dist.Pune-412 405

Tel. No.02133-230582

E-Mail – gcoeara@gmail.com

Website : www.gcoeara.ac.in

No. GCOEARA/Store/2017-18/ 1799

Date: 23 MAY 2017

To,  
HOD- Computer Engineering for display on College Website

Subject : Quotation for supply of Equipments ( Civil Engineering - Strength of Material 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 **05.06.2017** at 5.00 pm.

Sr.No.	Specification	Qty.	Unit
1	Tile (Roofing and flooring) Flexural Testing Machine	1	No.
2	Abrasion Testing Machine for Flooring Tiles	1	No.
<b>(Detail scope of supply will be as per enclosed sheet )</b>			

### Terms & Conditons

- 1 Taxes – Inclusive / if extra clearly mention the percentage.
- 2 Delivery period –
- 3 Payment Terms –
- 4 Quotation Validity –
- 5 Warranty -
- 6 Guaranty-
- 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)

**GOVERNMENT COLLEGE OF ENGINEERING AND RESEARCH AVASARI (KD)**  
**DEPARTMENT OF CIVIL ENGINEERING**

Sr. No.	Name of Equipments/Accessories/consumables with specifications	Quantity Required
	<b>Strength of Material Lab</b>	1
1	<p><b>Tile (Roofing and Flooring) Flexural Testing Machine:</b></p> <p><b>General:</b> This test apparatus is used finding flexural strength of roofing tiles as well as flooring tiles. Test rig should able to test the flooring as well as roofing tile as per IS: 1237 and IS: 654</p> <p><b>Technical Specifications:</b> It should consists of</p> <ol style="list-style-type: none"> <li>i. Maximum capacity of the machine is 2 kN;</li> <li>ii. Double lever loading system (Lever ratio is 1 : 12) by means of a steady flow of lead shot from a lead shot container to a receiver;</li> <li>iii. The rate of flow of lead shot is adjustable as per required rate of loading which is 450 to 550 N/minute for clay roofing tiles and 2000 N/minute for cement concrete flooring tiles.</li> <li>iv. Two bearing rollers and a third self aligning loading roller of 40 mm diameter for clay roofing tiles;</li> <li>v. Two bearing rollers and a third self aligning loading roller of 12 mm diameter for cement concrete flooring tiles;</li> <li>vi. 20 kg lead shot.</li> </ol> <p><b>Please note that:</b></p> <ol style="list-style-type: none"> <li>1. This apparatus should be supplied completely as per IS: 1237 and IS: 654</li> <li>2. On site supply of the equipment , installation, commissioning and minimum one day training is in the scope of bidder</li> <li>3. Manufacturer should provide operating manual for the machine</li> <li>4. Warranty: 03 year from date of installation</li> </ol>	1
2	<p><b>Abrasion Testing machine for Tiles:</b></p> <p><b>General:</b> This test apparatus is used for determination of resistance to wear of tiles. Test rig should able to test the tile as per IS: 1237 and IS 1706</p> <p><b>Technical Specifications:</b></p> <ol style="list-style-type: none"> <li>i. The apparatus should be a grinding device consisting essentially of a horizontally fixed smooth grinding disc of about 750 mm diameter, rotating about a vertical axis and furnished with a</li> </ol>	1

*(Signature)*  
**(Dr. S. B. Chermali)**

GOVERNMENT COLLEGE OF ENGINEERING AND RESEARCH AVASARI (KD)  
DEPARTMENT OF CIVIL ENGINEERING

- replaceable grinding path;
- ii. Grinding path- Cast iron shall be used as a material for grinding path having scleroscope hardness in between 30 to 50. The grinding path shall be a 200 mm wide annular space on the grinding disc between distances of 120 mm and 320 mm from the centre;
  - iii. Rotation disc- The disc should be driven at 30 rev/min. The speed of rotation shall not deviate by more than 1 rev/min. There should be mechanism to count the revolutions and to stop automatically after every 22 revolutions;
  - iv. The machine should be equipped with holding and loading devices. The loading shall be by a counterbalanced lever. A funnel is provided to facilitate charging the grinding path with abrasive powder. The machine shall be supplied one 7.5 kg weight.
  - v. Thickness measuring device with dial gauge- plunger type having accuracy 0.01 mm, and range as 0 to 25 mm
  - vi. Abrasive powder- Quantity: 2 kg; The abrasive powder shall have an aluminium oxide content of not less than 95 % by mass; the specific gravity of grains of abrasive powder shall be between 3.9 to 4.1 and should have a hardness of 9 in Moh's scale

Please note that:

1. This apparatus should be supplied completely as per IS: 1237 and IS: 1706
2. On site supply of the equipment , installation, commissioning and minimum one day training is in the scope of bidder
3. Manufacturer should provide operating manual for the machine
4. Warranty: 03 year from date of installation

*S. S. B. (Signature)*  
S. S. B. (Name)