



GOVERNMENT OF KERALA  
DEPARTMENT OF TECHNICAL EDUCATION

## GOVERNMENT POLYTECHNIC COLLEGE

MANAKALA.P.O. ADOOR, PATHANAMTHITTA – 691551.KERALA

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No. D/ 578/2016

Dated: 15/12/2016


### E- TENDER NOTICE

E-Tenders in the prescribed form are invited for the supply of Machineries for Material Testing Lab of Architecture department of Govt. Polytechnic College, Adoor as per the list appended.

#### Details

- |  |                    |
|--|--------------------|
| 1. Tender No.                                    | : 02/2016/SN       |
| 2. Last date & time of Receipt                   | : 17/01/2017, 1 PM |
| 3. Date of opening                               | : 20/01/2017, 3PM  |
| 4. Cost of Tender form Rs.                       | : 1400+ (VAT 5%)   |
| 5. EMD   | : Rs.6810/-.       |
| 6. Mode of remittance of the cost of Tender form | : Online           |

An agreement in Kerala Stamp Paper worth Rs.200 is to accompany the Tender.


  
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MANAKKALA, ADOOR.

**GOVERNMENT POLYTECHNIC COLLEGE, ADOOR**  
**DEPARTMENT /SECTION : ARCHITECTURE DEPARTMENT ( MT LAB)**

List of Items

Sl.No	Details of items with specification	Quantity of items now required	Approximate cost of items
1	<p><b>COMPRESSION TESTING MACHINE</b>                      Description                      Compression testing machine 200T as per IS 516 for compression test of Paver block, cement block, man hole covers and other civil construction material.                      TECHNICAL DETAILS                      Maximum capacity: 2000KN Hydraulic operated. Motor for oil pumping min. 3HP. 3 phases.                      Measuring range: 0 – 2000KN. Three Range as 0-50T, 0-100T and 0-200T. from 2 % to 100% capacity of machine.                      Load resolution in N(20,000 counts full scale): 0 - 100N                      Applying the load at the rate of 140 kg/sq-cm/ min.                      The permissible error shall not be more than +/- 2 % of maximum load.(the machine shall comply cl. no 5.2 and 6.2.2)                      Day light between ram and bolster should be 450mm (Min)                      The bolster plate size should be 600X600mm (min)                      Stroke length should 100mm min.                      The testing machine shall be equipped with two steel bearing platens with hardened faces. two metal bearing plates not less than 6.5mm and not more than 19 mm thick shall be provided with the plate of 10mm square, 15mm square and 300 mm round.                      The bearing surface of planten when new shall not depart from plane by more than 0.01 mm at any part and maintain as per movable limit of 0.02 mm. Movable portion of spherically seated compression planten shall be held as spherically seated. Design should be such that the bearing frames can rotate freely and tilted small angle through all direction.</p>	1No	300,000
2	<p><b>Mortar cube mould 70.6mm x 70.6mm x 70.6mm cast iron</b></p>	6 Nos.	6000
3	<p><b>Spring Testing Machine with Digital Display. TABLE TOP MODEL</b>                      Digital Spring Testing Machine for tensile and Compressive loads (2500 N)                      Maximum capacity: 2500 N ( 250 KGF)                      Test Range : 50 N TO 2500 N                      Elongation scale least count : 1 mm                      Grip separation : Minimum: 25 mm to Max : 1000 mm                      Power requirement : 3 ph 440 V 50 c/s A/C                      Over-travel safety included</p>	1 No.	100000
4	<p><b>Pendulam Impact testing machine</b>                      For conducting Charpy Impact test and Izod Impact test                      Should comply with the requirements of IS 3766                      Specifications:                      Maximum Capacity : 300 J/170 J                      Minimum Scale Graduation : 2J</p>	1No	100,000
5	<p><b>Rockwell hardness testing Machine</b>                      Should comply with requirement given in IS 1586                      Total test force(N):                      60Kg, 100Kg, 150Kg                      Measuring Range:                      HRA 20-88 / HRB 20-100 / HRC 20-70</p>	1No	60,000

6	<p><b>Brinell hardness testing Machine</b></p> <p>For determining Brinell Hardness of ferrous and non ferrous metals. Should comply with the requirements of IS 2281 Force diameter ratio 1-30 Nominal diameter of the ball should be 2.5m, 5mm and 10mm Measuring Rand &gt; 200 BHW</p>	1No	60,000
7	<p>Electric Hot Air Oven Lab Model: Digitally controlled the oven is of double walled mild steel construction, in between two walls sufficient glass wool insulation is provided to minimize the heat loss. Heating is accomplished by the aid of imported nichrome heating elements, which are provided at the bottom of the chamber. The inner chamber is made out of mild steel aluminum or stainless steel will be supplied. Supplied complete with capillary type thermostat for automatic temperature control. One No.3 heat control switch for operation at low, medium or heat, two nos. indicating lamps, two meters of three cores with 3 pin plugs for operation on 230 volts 50c/s.ac mains. Temperature Range: 50Deg.C.to 250Deg C. Accuracy: ± Deg.C 2°C, Chamber Dimension: 18"x18"x18", Rating 1.8 KW, Trays 2. Stainless Steel</p>	1No	55,000
<b>GRAND TOTAL RS.</b>			<b>6,81,000</b>

  
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