

MODEL ENGINEERING COLLEGE
THRIKKAKA, COCHIN-21
PH:2577379,2575370

Ref no.A2/2544/17/MEC
Tender No.7/2017-18/MEC

dtd 29.11.2017

TENDER shedule

Sealed tenders in the prescribed format are invited for the purchase of equipments for various labs for Electrical Departments.

- 1.Last date and time of sale of tender form:5/1/2018 10 am
- 2.Last Date & Time of Reciept of Tender: 5/1/2018 11 am
- 3.Date & Time of Opening of Tender:5/1/2018 2 P M

Cost of Tender Form:

Original : 500 + 18% GST

Duplicate :300 + 18% GST

Tender form and details can be had from Model Engineering College,Thrikkakara. Mode of remittance by Cash payment at College Office.Those who apply for tender form by post should remit additional amount of Rs.50/- as postal charges.Agreement in stamp paper worth Rs.200/- to accompany tender. Further details available at www.mec.ac.in/ Tenders.

PRINCIPAL

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Specification of Equipments of Electrical Department

Sl.No.	Brief description of items	Quantity
1.	Energy meter,1-phase, 250V, 10A, Electro-mechanical Induction type / Electronic type	2
2.	Energy meter, 3-phase, 415V,10A, Electro-mechanical Induction type / Electronic type	1
3.	Wattmeter , LPF 300V, 10A	2
4.	Galvanometer, 30-0-30mA	1
5.	Cathode Ray Oscilloscope,bandwidth 30 MHz, no. of channel 2, Vertical sensitivity 1 mV -5 v, Time base range :0.2 μ s - 0.5s. Input imedance selection 1 M Ω . Rise time 10ns, Power source AC 115/230V \pm 15%, sweep time 0.1 μ s ~ 0.5s/div \pm 3% X-Y operation Sensitivity 5 MmV ~5V/div \pm 4%	2
6.	Function generator, Frequency Range 0.3 Hz to 3 Mhz, Sine, square, triangle wave, variable duty cycle, pulse & ramp, Power Input 230 V \pm 15%, External Voltage Controlled Frequency (VCF) Function Duty Cycle Control with Signal Inversion Capability Variable DC Offset Control Built-In 6 Digit Counter AM/FM Modulation	3
7.	Digital IC Tester, Display 9 digit or bright red 7 segment LED , capable of conducting functional tests on Ics out of circuit and indicate results IC good or IC bad, Autosearch facility to identify unknown or un identifiable Ics and provide functional equivalents, capable of testing, digital Ics, TTL, CMOS, logic Ics, microprocessor, peripherals, monostables, static RAMS, Line drivers, transistor arrays, serial EEPROMs, NV RAMs, facilities to test analog devices such as OPAMPS, Comaprator, Timers, analog Switches. all Ics are tested on 40 Pin universal ZIF socket, potentila free test socket when not in use, in built protective interlocks to avoid damage against any fault to IC. under test or the system due to improper usage.	2

8.	Rheostat , 700 ohm, 1.2 A, Single Tube Open type Resistance wire wound sliding rheostats, fitted with self lubricating copper graphite brush with pigtail connections and Bakelite Knob with good finger grip for smooth operation, and with two end castings insulated with micanite cups. Tolerance on resistance value : +20% to -5% H.T. Test : 2kV for 1 minute Maximum working voltage : 500 V	2
9.	Ammeter(MC)-500mA ,Moving Coil DC Ammeter 0-500mA Scale length:140mm,Test Voltage:2000V AC (rms) for 1minute, Insulation Resistance 20 Megohms at 500V DC. Rated Accuracy: Class - 1.0 (1% of full scale value) as per ISS 1248/84, between 10% and 100% of scale	3
10.	Ammeter(MC) 0-250/500microA, Moving Coil DC Ammeter 0-250/500microA Scale length:140mm,Test Voltage:2000V AC (rms) for 1minute, Insulation Resistance 20 Megohms at 500V DC. Rated Accuracy: Class - 1.0 (1% of full scale value) as per ISS 1248/84, between 10% and 100% of scale	3
11.	Standard Cell, Electronic equivalent of Weston standard cadmium cell, having 1.0186 V at Room temperature	1
12.	Auto transformer, 1 phase, 4.05 KVA, 15A, 240V, 50Hz, Continuously variable with o/p 0-270V	3
13.	Loading rheostat, 1 phase, 5 KW loading Rheostat in 10 steps (each step 500W)	3

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