

MODEL POLYTECHNIC COLLEGE KARUNAGAPPALLY

(0476-2623597,8547005083)

TENDER NOTICE

Tender No. P/714/2015-16 Purchasing of Electronics Equipment

Due date and time for receipt of tender	: 25.06.2015 3 PM
Date and Time for opening of tender	: 26.06.2015 10.00AM
Date up to which the rates are to be firm	: 6 Months
EMD	: The amount of EMD shall be one percentage of total cost of articles tendered for. (This is subject to a Minimum of Rs.1500/-)
Price of tender form	: Rs.1000 + 13.5% VAT
Price of duplicate copy	: 50% of cost of the original copy.
Place(s) and timing of sale of tender documents:	The Principal, Model Polytechnic, Karunagappally,Edakkulangara PO,Kerala, PIN-690562 From 25/05/2015 to 25/06/2015 3pm
Place and deadline for receipt of tenders	: The Principal, Model Polytechnic, Karunagappally,Edakkulangara PO,Kerala, PIN-690562 From 25/05/2015 to 25/06/2015 3pm
Place,time&date for opening of tenders	: The Principal, Model Polytechnic, Karunagappally,Edakkulangara PO,Kerala, PIN-690562 Date:26.06.2015 10.00AM
Any other important information	: nil

ItemNo.	Description			Unit	
1	3 ¾ Auto Range Digital Multimeter			80	
	Basic Function	Range	Accuracy		
	DCV	0.1mV ~ 1000V	±(0.5% +4 digit)		
	ACV	0.1mV ~ 750V	±(0.8% +6digit)		
	DCA	0.1uA ~ 20A	±(1.0% +5 digit)		
	ACA	0.1uA ~ 20A	±(1.5% +5 digit)		
	Resistance	0.1Ω ~ 40MΩ	±(0.8% +2 digit)		
	Capacitance	10pF ~ 200uF	±(3.5% +8digit)		
	Frequency	0.1 Hz ~ 30MHz	±(0.5% +4 digit)		
	Temperature	-40°C - 1000°C	±(0.8% +4 digit)		
	Special Function - Diode Test ,hFE Test , Duty Cycle Measuring, Data Hold , Function Protection,Auto Power Off				
	Continuity Test		Approx. less than 30Ω ±10Ω		
	Low Battery Indication		Approx less than 2.4V .		
	Input Impedence		10MΩ		
Sampling Rate		3 times/s.			
2	4½ DIGIT TRUE RMS DIGITAL MULTIMETER BENCH TYPE			16	
	DC VOLTAGE				
	Range	Accuracy	Resolution		
	200mV	±(0.05%+3d)	10μV		
	2V		100μV		
	20V		1mV		
	200V		10mV		
	1000V	±(0.1%+5d)	100mV		
	Input Impedance 10MΩ, all ranges.				
	Overload Protection		250V DC/AC PEAK on 200mV range; 1000V DC or AC PEAK on other range		
	AC VOLTAGE (True RMS)				
	Range	Input Frequency	Accuracy		Resolution
	200mV	50Hz-50kHz	±(0.8%+80d)		10μV
	2V	50Hz-20kHz			100μV
	20V				1mV
	200V	50Hz-5kHz			10mV
750V	50Hz-400Hz	±(1.0%+20d)	100mV		

Input value more than 10% of full scale range.			
Input Impedance : 2M Ω on all ranges			
Overload Protection : 1000V DC/AC PEAK, except AC 200mV range (250V DC/AC PEAK).			
DC CURRENT			
Range		Accuracy	Resolution
20mA		$\pm(0.3\%+10d)$	1 μ A
200mA			10 μ A
2A			100 μ A
20A		$\pm(0.8\%+10d)$	1mA
Overload Protection : 0.2A/250V, 20A/250V fast-fuse.			
Max. Input Current : 20A (up to 15 seconds).			
Max. Measuring Voltage :200mV.			
AC CURRENT (True RMS)			
Range	Input frequency	Accuracy	Resolution
200mA	50Hz-5kHz	$\pm(0.8\%+80d)$	10 μ A
2A			100 μ A
20A	50Hz-400Hz	$\pm(1.0\%+20d)$	1mA
Overload Protection : 0.2A/250V, 20A/250V fast-fuse.			
Max. Input Current : 20A (upto 15 seconds).			
Max. Measuring Voltage :200mV.			
RESISTANCE			
Range		Accuracy	Resolution
200 Ω		$\pm(0.1\%+2d)$	0.01 Ω
2k Ω			0.1 Ω
20k Ω			1 Ω
200k Ω			10 Ω
2M Ω			100 Ω
20M Ω		$\pm(0.2\% +5d)$	1k Ω
CAPACITANCE			
Range		Accuracy	Resolution
20nF		$\pm(1.0\% +20d)$	0.001nF
2 μ F			0.1nF
200 μ F			0.01 μ F
DIODE TEST AND CONTINUITY TEST			
FREQUENCY			
Range		Accuracy	Resolution
20kHz		$\pm(1.5\%+20d)$	1Hz
200kHz			10Hz

AUTOCOMPUTE LCR-Q METER			
Variables Measured		L, C, R & Q.	
Measurement Modes		Series or parallel equivalent.	
Measurement Frequency		User selectable 100Hz or 1KHz.	
Accuracy of Measurement		±0.25%.	
Maximum Voltage across Component		0.285V rms (0.8V p-p) (approx.).	
Measuring Update Rate		2 per second.	
Display		4 digit, 7 segment	
Measurement Ranges			
Inductance		0.1μH to 9999H.	
Capacitance		0.1pF to 9999μF.	
Resistance		0.001 ohm to 100M ohm.	
Quality Factor		0.1 to 99.	
Resolution			
Inductance		0.1μH.	
Capacitance		0.1pF.	
Resistance		0.001 ohm.	
Quality Factor		0.01.	
Measurement Ranges for Basic Accuracy			
Measurement Frequency		100Hz	1KHz
Range of Inductance (Q > 10)		1H-2000H (series mode)	200μH-1H (series mode)
Range of Capacitance (Q > 10)		1μF-2000μF (series mode)	200pF-1μF (parallel mode)
Range of Resistance (Q < 0.1)		1 ohm-2M ohm (upto 10K series mode & >10K parallel mode)	
Range of Quality Factor		0.25 to 4.	

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Analog multimeter			
0Ω Adjustable with *100 Range, Transistor Test, Diode Test, Funcion Protection, Continuity Buzzer.			
Fuctions	Range	Basic Accuracy	Sensitivity
DCV	0.1mV ~ 1000V	3;for 1000v:5	20kΩ/V
ACV	10V ~ 1000V	4;for 1000v:5	9kΩ/V
DCA	50uA ~ 10A	3;for10A:5	
Resistance *1	0.2kΩ ~ 2kΩ	3	
*10	2Ω ~ 20kΩ		
*100	20Ω ~ 200kΩ		

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	*1K	200Ω ~ 2MΩ		
	*10K	2kΩ ~ 2MΩ		
	I _{ceo}	150uA - 15 mA- 150 mA		
	h F E	0~1000 with connector		
	4 1/2 Digital Multimeter			
	Basic Functions	Range	Basic Accuracy	
	DCV	200mV/2V/20V/200V/1000V	±(0.05%+5dgt) on all ranges except ±(0.1%+5dgt) on 1000v	
	ACV	200mV/2V/20V/200V/750V	±(0.8%+10dgt) on all ranges except ±(1.0%+15dgt) on 750v	
	DCA	2mA/20mA/200mA/20A	±(0.5%+5dgt)on 2/20mA ±(0.8%+5dgt)on 200mA ±(2.0%+10dgt) on 20A	
5	ACA	20/200mA/20A	±(0.8%+10dgt)on 20/200mA ±(3.0%+10dgt) on 20A	
	Resistance	200Ω/2KΩ/20KΩ/200kΩ/2MΩ/ 20MΩ	±(0.4%+5dgt)on all ranges except ±(0.8%+5dgt) on 20MΩ	
	Capacitance	20nF/200nF/2/200μF	±(3%+10dgt)on all ranges except ±(5%+10dgt)200uF	
	Frequency	20KHz	±(1.5%+5dgt)	
	Diode Test ,Hfe test,Overload Protection,Continuity buzzer,Data Hold,Capacitance,			

Terms and conditions:

Whether Samples essential : Yes

Period within which goods should be delivered : 15 days

Rates should be quoted for delivery

FOR KARUNAGAPPALLY

AT Model Polytechnic Store, Karungappally

Other special conditions : Terms of Guaranty/ Warranty should be at least 1 year

PRINCIPAL

