

QUOTATION NOTICE

Sealed quotations are invited from competent Agencies for the supply of 1 No of. Digital Multifunction Meter, Touch Screen type, 3 phase as per the specifications and format given below.

1.	Touch sensible colour graphics LCD display with resolution of 320x240.
2.	Line Voltages 415V Accuracy $\pm 0.5\%$ (Range 5... 120% of rated value).
3.	Phase Voltage 230 V Accuracy $\pm 0.5\%$ (Range 5... 120% of rated value).
4.	Phase configurable to 3 phase or 1 phase.
5.	Current 5A.
6.	Power factor 0-unity
7.	Frequency 50 Hz $\pm 2\%$
8.	Power kW, Apparent Power kVA, (Max and Min Value)
9.	Energy measurement: Active energy (kWh), Reactive energy (kVARh), Apparent energy (kVAh) & Ampere Hour (kAh).
10.	Total Harmonic Distortion (THD): (%) THD of voltage and (%) THD of current.
11.	User selectable CT Secondary 5A/1A
12.	User selectable PT Secondary
13.	User selectable 3 phase 3W or 4W unbalanced network
14.	Phase reversal indication
15.	Pictorial representation of all 3 Phases (Voltage & Current) in terms of vectors.
16.	Pictorial representation of all 3 phases Current & voltage in terms of sinusoidal waveform.
17.	Hour Run, ON Hour, Number of Interruptions
18.	Programmable Energy format
19.	Conforms to IP 54 (front face) as per IEC60529
20.	Compliance to International Safety standard IEC 61010-1- 2001
21.	Compliance to International standard IEC 61326
22.	Warranty 1 year
23.	RS 485 port
24.	Calibration Certificate, User Manual
25.	RS485 to USB Converter
26.	1 Node Data Acquisition Software
27.	The Agency shall provide support for installation of RS485 to USB Converter and Data acquisition software.
28.	After sales Service and Calibration Support details should be provided.

The quotation should contain all details of the item and addressed to the Director, Energy Management Centre, Sreekrishna Nagar, Sreekariyam P.O., Thiruvananthapuram 695017. The cover containing quotation, super scribed as 'Quotation for the supply of Multifunction Meter, Touch Screen type, should reach the Director on or before 07-07-2014, 4 P.M.

DIRECTOR

QUOTATION NOTICE

Sealed quotations are invited from competent Agencies for the supply of 1 No of. Industrial Multimeter, as per the specifications and format given below.

Voltage DC	Maximum Voltage: 1000V, Accuracy: $\pm(0.1\%+1)$ Maximum Resolution: 100 μ V
Voltage AC	Maximum Voltage: 1000V, Accuracy: $\pm(0.5\%+2)$ AC Bandwidth 5kHz; Maximum Resolution: 0.1 mV
Current DC	Maximum Amps: 10A (20 A for 30 seconds maximum) Amps Accuracy: $\pm(0.4\%+2)$; Maximum Resolution: 0.01 mA
Current AC	Maximum Amps: 10A (20 A for 30 seconds maximum) Amps Accuracy: $\pm(1.2\%+2)$; Maximum Resolution: 0.1 μ A
Resistance	Maximum Resistance: 50 M Ω Accuracy: $\pm(0.4\%+1)$; Maximum Resolution: 0.1 Ω
Capacitance	Maximum Capacitance 9,999 μ F, Accuracy $\pm(1\%+2)$, Maximum Resolution 0.01 nF
Frequency	Maximum Frequency 200 kHz Accuracy $\pm(0.005\%+1)$; Maximum Resolution 0.01 Hz
Duty Cycle	Maximum Duty Cycle 99.9% Accuracy $\pm(0.2\%$ per khz $+0.1\%)$; Maximum Resolution 0.1%
Conductance	Maximum Conductance 60.00 nS Accuracy $\pm(1.0\%+10)$; Maximum Resolution 0.01 nS
Diode	Range: 3 V Accuracy: $\pm(2\%+1)$; Resolution: 1 mV
Display	6000 counts, 3-3/4 digits
Duty Cycle Range	Accuracy: Within $\pm(0.2\%$ per kHz $+0.1\%)$
Operating Altitude	2000 m
Overvoltage category	EN 61010-1 to 1000 V CAT III, 600V CAT IV
Warranty	Lifetime
Battery Life	Alkaline: ~400 hours typical, without backlight
Shock	1 Meter drop per IEC 61010-1:2001
Vibration	Per MIL-PRF-28800 for a Class 2 instrument
Shall include - display with bright two-level backlight, selectable sleep mode, Analog bar graph for unstable signals ,Measure Continuity, audible warning against wrong use of input jacks Calibration Certificate, User manual, Carrying Case , After sales Service and Calibration Support details should be provided.	

The quotation should contain all details of the item and addressed to the Director, Energy Management Centre, Sreekrishna Nagar, Sreekariyam P.O., Thiruvananthapuram 695017. The cover containing quotation, super scribed as 'Quotation for the supply of Industrial Multimeter, should reach the Director on or before 07-07-2014, 4 P.M.

DIRECTOR