

SPECIFICATION FOR PORTABLE DIGITAL ENERGY METER

THE DIGITAL ENERGY METER SHOULD CONFIRM TO THE FOLLOWING SPECIFICATIONS:

DIGITAL ENERGY METER: 0.5 CL. QTY: 4 NOS

ITEM	REQD SPEC.
DISPLAY	LED, LCD OR VFD.
POWER SUPPLY	3 PHASES, 415V, 50HZ, 4 WIRE. PROVISION FOR 110 V AC INPUT AS ALTERNATE TO MATCH PT RATIO OF 415/110V IT SHOULD BE AVAILABLE IN ADDITION TO 415 V.
CURRENT INPUT FOR THE PHASES	1A
ACCURACY CLAUSE	0.5
MEASUREMENTS REQUIRED	CUMULATIVE ENERGY, INSTANT POWER PHASE VOLTAGES, PHASE CURRENTS, FREQUENCY, POWER FACTOR, ACTIVE ENERGY, APPARENT ENERGY, CUMULATIVE DEMAND, REACTIVE POWER, REAL TIME AND MD.
OTHER ACCESSORIES REQUIRED	1. CLAMP ON CLIPS, 2. SEPARATE COLOUR CABLES FOR EACH PHASE CURRENTS AND VOLTAGE INPUTS WITH CONNECTORS. 3. CLAMP TYPE CTS FOR ALL THE PHASES WITH 1:1 (1A FOR PRIMARY AND SECONDARY FOR THE CTS FOR ALL THE THREE PHASES, ADDITIONAL FACILITY FOR 5A IN THE SAME CLAMPS ALSO DESIRABLE)
CARRYING CASE	THE METER SHOULD BE HOUSED IN A SUITABLE CARRYING CASE/SUITCASE.
CURRENT TRANSFORMERS	WE REQUIRE THE CTS SPECIFIED ABOVE (1:1 FOR 1A) AND NO OTHER CTS ARE ACCEPTABLE. RATE FOR THE SAME HAS TO BE QUOTED SEPARATELY.
OTHER ITEMS IF ANY	PLEASE SPECIFY & RATE OF THE SAME SEPARATELY
NOTE: OUR REQUIREMENT IS PORTABLE TYPE ONLY & TO BE CARRIED TO SITES FOR ENERGY MEASUREMENT. WE REQUIRE PORTABLE ONLY AND NOT FLUSH MOUNTED MULTI FUNCTION TYPE METERS	

Signature

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BHEL/BAP/RANIPET - 632 406.

SPECIFICATION FOR POWER TRANSDUCERS CL. 0.2

QTY: 6NOS

ITEM	REQD SPEC.
POWER SUPPLY	3 PHASE, 415V,50HZ, 4 WIRE
CURRENT INPUT FOR THE PHASES	1A
OUTPUT	4-20 MA, 4 ASSIGNABLE OUTPUTS
POWER INPUT	277 V/ 480 V MAX
ACCURACY CLAUSE	0.2
MEASUREMENTS REQUIRED	INSTANT POWER MEASUREMENT BASED ON 4-20 mA OUTPUT. OTHER MEASUREMENTS REQUIRED LINE VOLTAGE, PHASE CURRENT, FREQUENCY, ACTIVE POWER, APPARENT POWER, REACTIVE POWER, POWER FACTOR ETC.,
OPERATING CONDITIONS	WORKING TEMP: 0 TO 50 DEG C FUNCTION TEMP: -5 TO 60 DEG C
OUTPUT INTERFACE	TO COMMUNICATE WITH PC THROUGH RS485/RS232 FOR DATA.
OTHER ITEMS IF ANY	PLEASE SPECIFY & RATE OF THE SAME SEPARATELY
CARRYING CASE	THE METER SHOULD BE HOUSED IN A SUITABLE CARRYING CASE/SUITCASE.



SPECIFICATION FOR HAND HELD DIGITAL MULTIMETER (INDUSTRIAL GRADE):

QTY: 6 NOS.

ITEM	REQD SPEC.
DIGITAL MULTIMETER (industrial grade)	THE MILLIMETRE SHOULD HAVE FOUR AND HALF DIGIT
DC voltage	Range 0.1 mV to 600 V Accuracy 2% + 3 counts for 45 -500Hz.
AC voltage	Range 0.1 mV to 600 V Accuracy 1% + 3 counts
DC current	Range 0.1 μ A to 10 A Accuracy 1% + 3 counts
AC current	Range 0.1 μ A to 10 A Accuracy 1.5% + 3 counts
Resistance	Range 0.1 Ω to 50 M Ω
Capacitance	0.01 Nano Farads – 100 Nano Farads, accuracy 1.9+5 counts
CARRYING CASE	THE METER SHOULD BE HOUSED IN A SUITABLE CARRYING CASE

