

TECHNICAL SPECIFICATIONS OF AC LEAKAGE CLAMP METER

(9)

Sl. No.	GENERAL DESCRIPTION	Remarks
1	<p>General: Clamp Meter should be fully automatic for measurement of AC Leakage current. Earth leakage current of three phase & single phase Power Transformers, Auto transformers up to 400 kV class & 315 MVA, Rectifier Transformer, DTT, CT's, VT's etc.</p> <p>The meter should be pocket sized, light weight (<u>Approx.150 grams</u>), rugged and easy to use.</p>	
2	<p>Measurement Function: Leakage current and load current.</p> <p>Clamp Meter should able to give direct readings of test object automatically and Data hold & low battery indication functions & over range indication function etc. should be available.</p>	
3	<p>Measuring method: Dual integration mode</p>	
4	<p>Data Display: Display of AC leakage current on 3^{1/2} Digit LCD. Max reading count 3200 or better. Readings should easily readable with large character size viewable in direct sunlight and low light level.</p>	
<p>The ranges, resolution, accuracy of the test set for different parameters should be at least as per the points mentioned below</p>		
5	<p>Range: 0-30 mA / 300mA and 0- 30A / 200A (Manual selection)</p>	
6	<p>Resolution:</p> <ul style="list-style-type: none"> • 0.01mA / 0.1 mA for (30mA to 300 mA range) • 0.01A/0.1A for (30A to 200A range) 	
7	<p>Accuracy:</p> <ul style="list-style-type: none"> • ± 1.5 % rdg. or better for Range 0-30 mA / 300mA & 0-200A 	
8	<p>Frequency : 50/60 Hz</p>	
9	<p>Clamp Meter Jaw opening size: 40 mm or more</p>	
10	<p>Input power supply: 1.5V Cells operated preferably button cells LR44 or SR44 (2x1.5V). Battery life: Approx. 45 Hrs.</p>	
11	<p>Auto Power off: The meter is set to power off mode approx. 10 minutes or less after the power switch on.</p>	
12	<p>Limitation of circuit voltage: Less than 600V AC</p>	
13	<p>Withstanding voltage core: 3500V AC for 1 minute max. between the core of CT and the Unit housing</p>	
14	<p>Environmental conditions: Operating Temp.: 0^oC to 40^oC. Humidity: 0-80% non-condensing. Storage Temp.: 0^oC to 50^oC and Ambient Temp.: 0^oC to 50^oC</p>	
15	<p>Safety: Instruments shall meet all the relevant requirements safety specifications as per applicable standards. Also meets the double insulation requirements to applicable IEC and installation category II600V phase to Earth. Category</p>	

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Inspector
260716

Supervisor
25.07.16

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	III300V phase to Earth.	
The Test equipment shall be offered complete with the items mentioned below:		
16	Main equipment i.e. AC Leakage Clamp meter & Storage case	
17	Two sets of operating/maintenance manuals in English language. One additional set of all the above documentation in soft copy.	
18	Three sets of calibration reports from NABL Accredited Lab covering full range of the equipment with following details should be provided. Calibration date, periodicity, calibration validity duration & next calibration due date. Traceability details of standard used for calibration. All documents should be endorsed by authorized signature.	
19	Performance & Warranty/Guarantee certificate: The Supplier shall guarantee the product performance for 24 months from the date of successfully commissioning at BHEL Jhansi works and shall provide spares and services during guarantee period to maintain the AC Leakage Clamp Meter.	
20	Live Demonstration: Live demonstration of offered meter shall be called during technical evaluation if required.	
21	Installation/Commissioning/Acceptance: Installation/Commissioning of the instrument to be done at BHEL work by supplier's representative free of charge. Demonstration of all features of AC Leakage Clamp Meter to satisfaction of BHEL for their efficient and effective use. Instruments shall be acceptable only after successful commissioning at BHEL works.	
22	Original technical catalog to be included along with technical bid.	
23	Supplier should provide past performance certificate of similar equipment supplied within three years along with contact detail of customer (i.e. Name of Organization, Contact person & Contact Number).	
Note: Supplier should submit his technical compliance/comments against each of the above points in above format. Technical bid without complete technical compliance sheet will not be considered for technical evaluation.		

Prepared by

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28/07/16

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Checked by
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