

BHARAT HEAVY ELECTRICALS LIMITED, JHANSI

TRANSFORMER TESTING LABORATORY

4

SPECIFICATION FOR MULTIMETER

Note : 1) Vendor must submit complete following information. The offer meeting the following requirements would only be processed.
2) The offered column and Deviation & Remarks column (where ever applicable) of this format shall be filled by the vendor and to be submitted along with the offer. Inadequate / incomplete, ambiguous or unsustainable information against any of the clause of specification/requirement shall be treated as non-compliance.

Sl. No.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY	REMARK
1.1	Purpose : The test set should be able to give direct readings of the voltage & current in test object.	Vendor to Confirm	
1.2	Quantity : 04 Nos.	Vendor to Confirm	
1.3	Vendor should indicate equipment Model & make	Vendor to indicate	
1.4	The offer will be technically accepted after complying all requirements mentioned in technical specification	Vendor to confirm	
2	SPECIFICATION :		
2.1	Voltage		
2.1.1	Range : 0 to 1000 V AC/DC	Vendor to confirm	
2.1.2	Resolution : 1 V	Vendor to confirm	
2.1.3	Accuracy : $\pm 1\%$ of rdg ± 3 digits	Vendor to confirm	
2.2	Current		
2.2.1	Range : 0-10 A AC/DC	Vendor to confirm	
2.2.2	Resolution : 0.01 A	Vendor to confirm	
2.2.3	Accuracy : $\pm 1.5\%$ of rdg ± 3 digits	Vendor to confirm	
2.3	Operating Humidity : 50% to 80%	Vendor to confirm	
2.4	Operating Temperature : 0 °C to 50 °C	Vendor to confirm	
2.5	Digital display system: 3-1/2 Digits or better	Vendor to specify display system of offered instrument.	
3	SAFETY ARRANGEMENTS:		
3.1	All electronics parts shall be housed in double moulded and waterproof enclosures.	Vendor to confirm	
3.2	Voltage Overload Protection in all ranges upto 1000 V DC/AC rms	Vendor to confirm	
3.3	Current Overload Protection by fast blow fuse	Vendor to confirm	
4	Vendor to confirm following additional functions :-		
4.1	Data hold	Vendor to confirm	
4.2	Min./Max & duty cycle measurement	Vendor to confirm	
4.3	Low battery indication	Vendor to confirm	
4.4	Resistance/diode/Continuity check	Vendor to confirm	
5	ACCESSORIES: Vendor to furnish list and details of accessories to be supplied along with the instrument.	Vendor to specify list of all accessories.	
6	SPARES :		
6.1	Two set of spare leads and other necessary spares for two years trouble-free operation shall be supplied along with instrument and cost of same to be included in equipment cost offer.	Vendor to furnish the spare list.	
6.2	Vendor to ensure availability of all spares item with OEM for at least 5 years of operation.	Vendor to confirm.	
7	INSPECTION: Inspection by BHEL at BHEL Jhansi	Vendor to confirm.	
8	PACKING: Rigid packing for all items of complete system, all accessories and other supplied items to avoid any damage/loss in transit.	Vendor to confirm.	
9	Transportation : Transportation of instruments up to BHEL works shall be in vendor scope.	Vendor to confirm.	
10	GUARANTEE/WARRANTY : 24 Months after commissioning at our works from the date of acceptance by BHEL irrespective of date of supply.	Vendor to confirm.	
11	DOCUMENTATION:		
11.1	Operation and Instruction manual : Vendor to submit soft copy of manual along with offer and subsequently two hard copies of manual along with the supply.	Vendor to confirm and submit	
11.2	Maintenance manual along with circuit diagrams and schematics for trouble shooting : Vendor to submit soft copy of manual along with offer and subsequently two hard copies of manual along with the supply.	Vendor to confirm and submit	
11.3	Test Certificate & Guarantee Certificate : Vendor to submit soft copy and two hard copies along with the supply.	Vendor to confirm and submit	

Proposed
08.05.19

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11.4	Calibration certificate to be submitted from laboratory having traceability with NABL : Vendor to submit Valid Calibration certificate (having atleast 8 to 9 months validity left at the time of supply) of offered instrument along with the supply.	Vendor to confirm and submit along with supply.	
12	QUALIFYING CONDITIONS:		
12.1	The supplier should either be an Original Equipment Manufacturer(OEM) or an authorised dealer/system house/channel partner of the OEM. Non OEM vendors should submit certificate of valid authorisation of OEM for quoting the system alongwith declaration for support during erection & commissioning, after sales service & necessary sapres along with the offer.	Vendor to confirm	
12.2	Only those vendores to quote who can fulfill the requirments and provide the documents enlisted at cl. 12.3 to 12.6 of this spec.	Vendor to submit along with offer	
12.3	- One copy of purchase order (PO) for the quoted equipment (Model may be different but of OEM make only) to be furnished. - The purchase order may be in name of OEM or any Dealer/Vendor, having complete postal adress of customer/company where above system is installed/supplied. - The PO date should be within 5 years. From the date of the tender opening. - The PO copy and the co-related documents to clearly mention name of item, type, Make and Model no. including other details in english language.	Vendor to submit along with offer	
12.4	One copy of performance certificate (in english language) obtained from Indian Utilities e.g. NTPC, PGCIL, SEBs etc. for minimum one year satisfactory performance and it should be issued within last 2 years of tender opening date to be furnished for the equipment.	Vendor to submit along with offer	
12.5	Vendor to submit the reference list of customers (where offered systems had been supplied within last 3 years) mentioning the customer, Machine Model, major specifications of the supplied system, Year of Supply etc. along with offer.	Vendor to submit along with offer	
12.6	Financial standing of OEM through latest Income Tax certificate, Annual report (balance sheet and profit/loss account) of last 3 years	Vendor to submit along with offer	
12.7	BHEL reserves the right to varify information submmited by vendor. In case, information is found false / Incorrect, the offer shall be rejected	Vendor to submit along with offer	

Note: Supplier shall submit the technical compliance/comments against each point in above format. Technical bid without complete technical compliance sheet will not be considered for technical evaluation.

P. K. Singh
08.05.19

[Signature]
08/05/19