

ANNEXURE TO INDENT NO.: 636220003

TECHNICAL SPECIFICATION OF DIGITAL TRANSFORMER TURNS RATIO METER

Sl. No.	Description	Vendor's Remarks
1	The test set should be fully automatic for finding out the Turns ratio of power transformer, CT's, & PT's.	
2	The test set should be able to give direct readings Turns Ratio of the test object automatically i.e. microprocessor/PC based without any bridge balancing method involved.	
3	The test set should be able to take the measurements automatically & the test the test set should have provision for display the MEASURED electrical parameters.	
4	Input Supply : Instrument must be battery operated .Battery operated charging circuit should be built in with input supply single phase 85 – 260 Volts 50 Hz AC for charging. For battery operated operation permanent on screen display of battery status to be provided.	
5	The test voltage to be applied on the object under test should be independent of the supply frequency to avoid any variation in the frequency during the testing.	
6	The test voltage should be automatic up to the preset value which shall be determined by the person carrying out the test.	
7	Display: Large Screen LCD display Graphic with back light.	
8	Ratio range :- 0.8 to 100 & 101 to 4000 Accuracy – (\pm) 0.08% rdg. \pm 1LSD for all ranges.	
9	Magnetizing current range :- 0-0.1 A (PT) & 0-1A (CT)	
10	Reverse polarity test & continuity test.	
11	The test set should be able to operate in an environment of temperature 0 to 50°C & humidity of 10-85% RH (Non condensing).	
12	The instrument should have detachable test leads for avoiding damage to the cable as well as to the instrument.	
13	The test kit shall meet all the relevant international safety specifications.	

THE TEST EQUIPMENT SHALL BE OFFERED COMPLETE WITH THE ITEMS MENTIONED BELOW.		
		Vendor's Remarks
1	Main equipment Housed in rugged, light weight and water proof case.	
2	Power supply cord	
3	Set of test leads(at least 5 m in length)	
4	Two sets of operating and maintenance manual with detailed circuit diagram in English language should be supplied with the final consignment.	
5	Software for data downloads (desirable).	
6	Three sets of calibration reports with following data Calibration date, periodicity, calibration validity duration and next calibration due date.	
7	Calibration certificate traceable to national / international standard to be provided.	
8	Performance & warranty certificate Warranty two years after commissioning at our works.	
9	Supplier should provide any other attachment/ accessories required for smooth functioning of the instrument.	
10	Original technical catalog to be included with technical bid.	
11	Offer of recommended spares for five years for smooth operation to be provided along with instrument, should be submitted with the technical bid.	
12	The instrument along with accessories should fulfill requirement of relevant IEC / ANSI standard.	
13	Similar instrument must be in operational condition for more than two years in India and performance certificate of the above instrument obtained from the user's end (customer) should be submitted with the technical bid.	
14	Successful bidder should provide training on operation and handling of the above instrument to Testing personnel during installation and final commissioning of the above instrument.	



S N MANDAL

(Sr. Manager / Trfr. Testing)