

ANNEXURE-1

LIST OF EQUIPMENT LOT-11

Sl. No.	Description	Quantity Nos	Recommended Make
1	Transformer Winding resistance Meter	1	Scope/Prestige/Megger/Telematics

ANNEXURE-22

1. TECHNICAL SPECIFICATION FOR TRANSFORMER WINDING RESISTANCE METER

Sr. No	Specification	Yes/ No
1	The Equipment should be capable of measuring winding resistance of small distribution, Power, Auto Transformer, Generator Transformer and Generator in live switchyard & factory Environment.	
2	The equipment shall have direct 2-channel digital reading allows for testing two windings at a time without the need for time-Consuming bridge balancing.	
3	The equipment should use classic Kelvin's 4 wire method to measure resistance so that need of lead resistance compensation is eliminated.	
4	It should quickly overcome the inductance offer by large inductive winding and make current stabilize very fast.	
5	It should also be check any discontinuity in the tap changer while changing the tap from one position to another and should have MAKE BEFORE BREAK sequence reorganization feature with indicator.	
6	It should have protection against the back EMF offered by large transformer, consist of very fast discharge time & should able to display %current stability.	
7	The equipment shall have Built-in demagnetization circuitry allows the operator to de-magnetize the transformer core, either before or upon completion of resistance testing, or as a standalone feature.	
8	The equipment to be supplied with remote trigger switch for testing transformers with tap-changers	
9	The equipment shall have built in Safety indicator which gives a visual indication of a charged or discharged specimen, even if power to the instrument is lost.	
10	The equipment should have Trouble free operation in charged switchyards under electrostatic & magnetic interference condition.	
11	There shall be provision of operation standalone & via PC/External Computer with user-friendly software along with facility of automatic temperature correction setting, test data printing facility in relevant format.	
12	The equipment shall have internal memory for mass storage of dataset records, for later recall, printing, and analysis. The equipment shall also supplied with software for down load and report generation.	
13	Technical Requirement	

	Channel	Minimum 2 channel for winding resistance	
	Minimum Current Range	1A, 10A User Selectable	
	Resistance Range	Minimum 1000 ohm	
	Open circuit voltage	30 volts DC or better	
	Auto Demagnetization	Should be automatic demagnetization	
	Resolution	1uΩ or better	
	Accuracy	±0.5%	
	Discharge	Auto Discharge	
	Test Lead	suitable for Power transformer testing	