

ANNEXURE-1

LIST OF EQUIPMENT LOT-4

Sl. No.	Description	Quantity Nos	Recommended Make
1	HV Tan Delta kit	1	DOBLE/ISA/MEGGER

ANNEXURE-8

1. TECHNICAL SPECIFICATION FOR HV TAN DELTA TEST KIT

Sr. No	Specification		Yes/ No
1	Functional Requirement	Automatic Measurement of Capacitance & Tan Delta suitable for testing high voltage apparatus, Transformers, Motors, CTs, Circuit breakers, cables, LA etc. The kit must have facility to test Generators and other high current requiring specimens with optional resonating inductor.	
2	Requirements	Indication of Leakage current.	
		Suitable for extraneous conditions in live switchyard under heavy induction	
		Automatic Interference Suppression.	
3	Temperature Correction	Temperature correction as per IEC for Tan delta	
4	Test	Executes all the test modes automatically	
5	Voltage Setting	Fully Automatic through software	
6	Protections & Safety Features	<ol style="list-style-type: none"> 1. Open Ground Protection 2. Zero Start Protection 3. HV interlock 4. Over Current Protection 	
7	Measurement Parameters		
7.1	Capacitance	Range : 0 - 100 μ F Resolution : 0.01pF	
7.2	Tan Delta	Range : 0% - 100% Resolution : 0.01% Accuracy : \pm 1%	
7.3	Voltage Measurement	Range : 0 - 12 KV Resolution : 1.0 V Accuracy : \pm 1% \pm 1digit	
7.4	Current Measurement	Range : 0 - 100 mA continuous 0 - 300 mA intermittent(inbuilt) Resolution : 1mA Accuracy : \pm 1 % \pm 1digit	
7.5	Power Factor	Range : 0.01% - 100%	

		Minimum Resolution : 0.0001 Minimum Accuracy : $\pm 1.0\%$ of the reading $\pm 0.05\%$	
7.6	Frequency	Range 15-500 Hz Resolution :0.1 Hz Accuracy: : $\pm 1.0\%$	
8	Essential Accessories	Cables: HV Cable- Minimum 10Meter, LV Cable- Minimum 10Meter, Ground Cable, Interconnecting cables Carrying Cases: Hard Carrying Cases for kit , Carry Bag for Cables Laptop with accessories supplied Windows based software CD Operational Manual CD Traceable calibration certificate	