

ANNEXURE-1

LIST OF EQUIPMENT LOT-10

Sl. No.	Description	Quantity Nos	Recommended Make
1	DC Ground fault tracer	1	Scope/Megger/Taurus

ANNEXURE-20

1. TECHNICAL SPECIFICATION FOR DC GROUND FAULT TRACER

Sr. No	Specification	Yes/ No
1	The instrument should be manually balanced instrument and capable to identify, track and locate ground fault in ungrounded D.C. Battery System – on line upto maximum voltage to ground 220 VDC.	
2	The instrument should be provided with digital display of voltage and current Signal amplitudes.	
3	The instrument should be operable in high electrical noise environment with the provision to adjust the strength of test current.	
4	Charging System should be soft start to prevent sensitive relay tripping.	
5	The instrument should be immune to distributed noise.	
6	The instrument's minimum fault resistance range should be up to 400 K Ω .	
7	The instrument should comprise of Transmitter that operates on mains and a portable, convenient, hand held receiver that operates on battery.	
8	The transmitter should be capable of determining fault magnitude and severity before tracking the fault.	
9	The measured reading should not be affected by any presence of AC ripple or DC current.	
10	Receiver should have gain Control for optional resolution.	
11	The transmitter should be caster – mounted for easy portability and should incorporate a resistance and capacitance bridge.	
12	It should be possible to null out the System Capacitance from the measurement to prevent erroneous readings on the receiver.	
13	Separate 3 digit LCD meters/analog meters for Volt/Current on transmitter should be provided with an accuracy of $\pm 5\%$.	
14	Power supply should be built-in rechargeable battery operated with AC adaptor for charging.	