



**MAHATransco**  
Maharashtra State Electricity Transmission Co. Ltd.

**MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD.**  
**CIN No. U40109MH2005SGC153646**

**From,**  
Executive Engineer, MSETCL EHV O&M Division, Sangli.  
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Ref. EE/EHV O&M/DN/SGL/1111/2025-26

Dtd. 22 DEC 2025

**Budgetary offer**  
**(Through MSETCL webpage)**  
**TO WHOM SO EVER IT MAY CONCERN**

Dear Sir,

The budgetary offers through email/By Hand/By Post are invited Providing of Digital IR Tester at various substations under EHV O&M Division, Sangli as per Schedule A. You are requested to quote your lowest rates for tentative quantities as per Schedule A attached herewith.

**SCHEDULE 'A'**

Sr No.	Description	Unit	Qty	Ex Work Rate
1	Providing of Digital IR test as per below given specification	EA	1	

**Note-The above rates are Exclusive of all taxes and charges.**

**Specification Of 5KV Digital IR Tester:-**

The important Technical Specifications of 5KV Digital Insulation Tester are given below:

Reno	Particular	Specification
1	Max. output voltage	5kv (250V-500V-1KV-2.5KV-5KV in steps), digital
2	Insulation Resistance	
	Range	From 1 K $\Omega$ to Minimum 1T $\Omega$ & max a above (Auto ranging & Digital)
	Display	Digital :- 1k $\Omega$ to max a above, analog optional
	Accuracy	$\pm$ (5% of reading +5 digits)
3	Short circuit output Current	3mA for 132kV & below voltage level S/Stns. 5mA & above for 220kV & above voltage level S/Stns.
4	Current range	6mA
5	Safety Compliance	The test kit should conform to safety standard 61010-1: 2001 & CAT IV 600 V
6	Environment Condition	
	Operating temperature	0°C to 50°C
	Storage temperature	-10°C to 60°C



7	Test modes	Insulation Resistance(IR), Polarization Index (PI), Dielectric Absorption Ratio (DAR)
8	Test voltage	250 V, 500V, 1000 V, 2500 V, 5000 V
9	Noise rejection	1mA RMS per kV Test voltage
10	Resistance range	1K $\Omega$ to 15 T $\Omega$ @5kV
11	Test voltage accuracy	$\pm 5\%$ , $\pm 10$ V nominal test voltage at 1 G $\Omega$ load (0°C to 30°C)
12	Timer range	Up to 99 Minutes.
13	Guard terminal performance	Guards out parallel leakage resistance down to 250 k $\Omega$ with a maximum additional resistance error of 1% with a 100. M $\Omega$ load
14	Display	3 ½ Digit 1999 Digital LCD display with backlight
15	Power supply	It shall work on single phase 230 Volts $\pm 20\%$ , 50Hz $\pm 5\%$ supply with standard socket & internal Re-chargeable Battery
	Battery	Battery Internal Re-chargeable Li-ion Battery with inbuilt battery charging circuit.
	Battery life	5-6 hours at 5KV 100M $\Omega$ load
16	EMC	Meets the requirements of IEC61326-1:2006
17	Ingress Protection	IP54
18	Protection/Control	Against short circuit, Over voltage, improper ground connection over load & transient surges, the kit should have alarm/cutoff features to protect the instrument
19	Weight	Easily portable & should not be more than 5kg.
20	Calibration Certificate	Unit shall be duly calibrated before supply.
21	Humidity	Max. 90% non-condensing
22	Cable insulation rating	More than 10kV DC

**Functional requirement of Digital Insulation Resistance tester should meet following points.**

- The test result should have repeatability, consistency & immunity to electromagnetic interference in live switchyard up to 400kV levels.
- The instrument should automatically discharge the energy transferred to test specimen at the end of test.
- The instrument should have guard terminal to eliminate the effect of surface leakages etc.
- The Meter should be such that even at low battery indication the meter gives accurate readings.

**Note:-**

1) Please note that said budgetary offer is only for estimate purpose & not considered for any bidding & no work order will be issued based on this Enquiry.

2) All interested bidders are requested to submit their best reasonable budgetary offer for above works on **Email ID: ee3120@mahatransco.in/** By Hand/By Post upto 18:00 Hrs on Dtd.30.12.2025

Thanking you,

Yours' faithfully

*[Signature]*

Executive Engineer  
EHV O&M Division, Sangli

*[Signature]*  
19/12/25