

**Technical specification for proposed**

**IV Tester for Solar Cells**

<b>Sr.No</b>	<b>Feature</b>	<b>Specification</b>
1	<b>Voltage Source and measure ranges</b>	<b>20 mV to 200 V</b>
2	<b>Voltage resolution</b>	<b>Measure : 10 nV</b> Source: 500 nV.
3	Current Source and measure range	10 nA to 1 A
4	<b>Current resolution</b>	<b>Measure : 10 fA</b> Source: 500 fA.
5	Sweep types	Linear, log, Dual Linear, Dual Log, Custom, Source Memory mode. <b>Time based measurement mode.</b>
6	<b>Internal buffer</b>	<b>250000 point reading buffer</b>
7	<b>Signal supported connectors</b>	<b>Front Panel Banana Jacks/ rear panel 3 lug Triax</b>
8	Measurement speed	3000 readings / sec
9	<b>Source and measure resolution</b>	<b>At least 6 ½ digit or more.</b>
10	Storage of setups and export measurement data	Through front panel USB pen drive slot
11	Resistance measurement capability	From 1 mohm to 100 Gohm and more
12	Cable and accessories	System should be provided with High Performance Test Leads, Safety Interlock Mating Connector
13	Warranty	1 year
14	software	Software to control electrical system should be provided. System should have live graph facility on front panel as well as software
15	General details	<ul style="list-style-type: none"> <li>• Quoted model Should have been supplied within India and atleast 3 systems should have been supplied in IITs and/or Central Universities.</li> <li>• Customer details and 3 PO need to be supplied as proof of supply to IIT and /or central laboratories.</li> <li>• Users reference should be submitted with the offer.</li> </ul>

		<ul style="list-style-type: none"><li>• Company should have trained service engineers for installation, preferably in South India.</li><li>• Company should have representative in India and should have service persons for speedy service.</li><li>• Free installation training session to be done at customer site</li><li>• A detailed compliance certificate against each specification needs to be provided by the vendor along with the technical brochure</li></ul>
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