

Laboratory Protection & Metering Laboratory, Adani Power (Mundra) Limited,
Mundra Thermal Power Project, Adani Power SEZ, Village Tunda &
Siracha, Taluka Mundra, District Kutch, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6538

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Validity 16.10.2018 to 14.11.2019

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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ELECTRICAL TESTING

I.	ELECTRICAL & ELECTRONIC MEASUREMENT INSTRUMENTS			
1.	Electronic Static Energy Meter - Accuracy Class 0.2 s & 0.5s	Limits of Error	IS 14697 Cl. No. 12.9 IEC 62052-11 IEC 62053-22 IEC 62053-23	40 V to 300 V (P-N) 10 mA to 12 A 45 Hz to 55 Hz P.F.: +0.25 to UPF to -0.25
		Starting Condition	IS 14697 Cl. No. 11.4.1 11.5 & 12.13 IEC 62052-11 IEC 62053-22 IEC 62053-23	40 V to 300 V (P-N) 1 mA to 12 A 45 Hz to 55 Hz P.F.: +0.25to UPF to -0.25
		No Load Condition	IS 14697 Cl. No. 11.4 & 12.12 IEC 62052-11 IEC 62053-22 IEC 62053-23	40 V to 300 V (P-N) 45 Hz to 55 Hz
		Repeatability of Error	IS 14697 Cl. No. 11.7 & 12.16 IEC 62052-11 IEC 62053-22 IEC 62053-23	40 V to 300 V (P-N), 10 mA to 12 A 45 Hz to 55 Hz P.F.: +0.25 to UPF to -0.25
		AC High Voltage	IS 14697 Cl. No. 9.5 & 12.7.6.3 IEC 62052-11 IEC 62053-22 IEC 62053-23	1 kV to 5 kV
		Insulation Resistance	IS 14697 Cl. No. 12.7.6.4 IEC 62052-11 IEC 62053-22 IEC 62053-23	100 kΩ to 1 GΩ 250 V to 1000 V DC

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Power Consumption	IS 14697 Cl. No. 9.1 & 12.7 IEC 62052-11 IEC 62053-22 IEC 62053-23	0.01 W to 3.6 kW 0.01 VA to 3.6 kVA (0.01 V to 300 V 1 mA to 12 A)
		Meter Constant	IS14697 Cl. No. 11.6 & 12.14 IEC 62052-11 IEC 62053-22 IEC 62053-23	40 V to 300 V (P-N) 10 mA to 12 A

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ELECTRICAL TESTING

<u>At Site</u>				
I.	ELECTRICAL & ELECTRONIC MEASUREMENT INSTRUMENTS			
1.	Electronic Static Energy Meter - Accuracy Class 0.2 s & 0.5s	Limits of Error	IS 14697 Cl. No. 12.9 IEC 62052-11 IEC 62053-22 IEC 62053-23	40 V to 300 V (P-N) 10 mA to 12 A 45 Hz to 55 Hz P.F.: +0.25 to UPF to -0.25
		Starting Condition	IS 14697 Cl. No. 11.4.1, 11.5 & 12.13 IEC 62052-11 IEC 62053-22 IEC 62053-23	40 V to 300 V (P-N) 1 mA to 12 A, 45 Hz to 55 Hz, P.F.: +0.25to UPF to -0.25
		No Load Condition	IS 14697 Cl. No. 11.4 & 12.12 IEC 62052-11, IEC 62053-22 IEC 62053-23	40 V to 300 V (P-N) 45 Hz to 55 Hz
		Repeatability of Error	IS14697 Cl. No. 11.7 & 12.16 IEC 62052-11 IEC 62053-22 IEC 62053-23	40 V to 300 V (P-N) 10 mA to 12 A 45 Hz to 55 Hz P.F.: +0.25to UPF to -0.25
		Power Consumption	IS 14697 Clause: 9.1 & 12.7 IEC 62052-11 IEC 62053-22 IEC 62053-23	0.01 W to 3.6 kW 0.01 VA to 3.6 kVA (0.01 V to 300 V 1 mA to 12 A)
		Meter Constant	IS 14697 Cl. No. 11.6 & 12.14 IEC 62052-11 IEC 62053-22 IEC 62053-23	40 V to 300 V (P-N) 10 mA to 12 A

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