

Laboratory	NAPS Testing Laboratory, NAPS, Narora, Bulandshahr, Uttar Pradesh		
Accreditation Standard	ISO/IEC 17025: 2005		
Field	Electrical Testing	Issue Date	23.09.2013
Certificate Number	T-1315	Valid Until	22.09.2015
Last Amended on	-	Page	1 of 2

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
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I. SWITCHGEAR & PROTECTIVE EQUIPMENT

1.	Power system protection Relays of Various Types: a) Over Current /Under Current Instantaneous and with Time Delay b) Differential Relay c) Directional Relay d) Negative Phase Sequence Relay e) Thermal Over Load Relay f) Over Current/ Under Current Relay: Induction Disc Type	i. Pick-Up Value ii. Drop-Out Value	IS: 9124-1979 Cl. No. 4.3 & 7.1 Reaffirmed 2001	AC Current: Upto 100A
2.	Power System Protection Relays of Various Types: a) Over Voltage/ Under Voltage Relay Instantaneous and with Time Delay b) Over Voltage/ Under Voltage Relay: Induction Disc Type	i. Pick-Up Value ii. Drop-Out Value	IS: 9124-1979 Cl. No. 4.3 & 7.1 Reaffirmed 2001	AC Voltage: Upto 300V
3.	Power System Protection Relays of Various Types: Over Current Relay: Instantaneous	i. Pick-Up Value ii. Drop-Out Value	IS: 9124-1979 Cl. No. 4.3 & 7.1 Reaffirmed 2001	DC Current: Upto 10A
4.	Power System Protection Relays of Various Types: Auxiliary Relays	i. Pick-Up Value ii. Drop-Out Value	IS: 9124-1979 Cl. No. 4.3 & 7.1 Reaffirmed 2001	DC Voltage: 15 V to 300V

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Operation / Limits of Detection
5.	Power System Protection Relays of Various Types: Over Frequency / Under Frequency Relay: Instantaneous and with Time Delay	i. Pick-Up Value ii. Drop-Out Value	IS: 9124-1979 Cl. No. 4.3 & 7.1 Reaffirmed 2001	Frequency: 44.00 Hz to 99.99 Hz
6.	Power System Protection Relays of Various Types: a) Reverse Power Relay b) Low Forward Power Relay	i. Pick-Up Value ii. Drop-Out Value	IS: 9124-1979 Cl. No. 4.3 & 7.1 Reaffirmed 2001	AC Power: Upto 1999 W
7.	Power System Protection Relays of Various Types: a) Over Current/ Under Current Relay with Time Delay b) Thermal Over Load Relay c) Over Voltage/ Under Voltage Relay: Induction Disc Type d) Over Frequency/ Under Frequency with Time Delay e) Reverse Power Relay f) Over Current/Under Current: Induction Disc Relay	Timing	IS: 9124-1979 Cl. No. 4.3 & 7.2 Reaffirmed 2001	Time: 1mS to 9999.9 S

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