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31 MAR 2023

PROVISIONAL REPORT

Test Report No. CPRIBPLSTNB MISC23T0108

Date of test: 24 March 2023

1. Customer: M/s E- Techno Switchgear Pvt. Ltd., Bhopal - 462039
2. Sample tested: 415 V, 4000 A, LT Panel (Non Extendable)
3. Serial Number: ETSPL/STC/001
4. Sample Code No.: STNB MISC23S0081
5. Type: Outdoor
- 5.1 Designation: PCC/MCC Panel
6. Drawing Number: ETSPL/GA/STC/001 Sheet 1 of 4, ETSPL/GA/STC/001 Sheet 2 of 4, ETSPL/GA/STC/001 Sheet 3 of 4 & ETSPL/GA/STC/001 Sheet 4 of 4
7. Rating of the Sample:
 - 7.1 Rated Voltage : 415 V
 - 7.2 Rated Current : 4000 A
 - 7.3 Rated Insulation voltage : 660 V
 - 7.4 No. of phases : Three phase + Neutral
 - 7.5 Rated short time current: 70 kArms for 1.0 second with initial peak of 154 kApk
8. Rating for which tested: 70 kArms for 1.0 second with initial peak of 154 kApk
9. Type of test carried out: Verification of short circuit withstand strength test
10. Specification followed: As per customer's requirement and procedure generally followed as per cl.10.11.5.3.3 & 10.11.5.3.5 of IS/IEC:61439-1,2011 & IS/IEC:61439-2, 2011
- 10.1 Customer's requirement: Short circuit withstand strength test to be conducted on busbars only.
11. Test results:

Oscillogram No.	Short time current in kApk/kArms			Duration in second	Equivalent current for 1.0 second in kArms
	R	Y	B		
CPRIBPLSTNB MISC23T0108S002	88.91/42.36			1.0	42.36
(Single phase short circuit withstand strength test conducted on neutral & nearest phase of main circuit busbars consisting of HBB+VBB)					
CPRIBPLSTNB MISC23T0108S004	159.70/71.88	71.13	70.93	1.0	71.88
(Three phase short circuit withstand strength test conducted on main circuit busbars consisting of HBB+VBB)					

Observations: No abnormality. Fine wire fuse intact. All busbars & supports found intact.

Remarks: After test, the sample withstood HV test at 1.0 kVrms for five second.

TEST ENGINEER

This is only a provisional report. The final report alongwith drawings and documents will be issued separately within one month from the date of test.

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