CENTRAL POWER RESEARCH INSTITUTE
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CPRI

TEST REPORT

Test Report Number CPRIBPLSTNB1819T0668 **Date : 15 November 2019**

Test conditions:

Condition of the sample : New
No. of phases : Three & Neutral
Source frequency : 50Hz.
Transformer neutral & short circuit point : See test circuit diagram no. OLTS/TCD-STC-01 for three phase test and OLTS/TCD-STC-02 for single phase test
Safety parameter : The sample was insulated from earth and connected to neutral of the supply via a fuse of 0.1 mm diameter copper wire 50 mm long in series with a resistor limiting the fault current to 100A

Test results:

Oscillogram Number	Peak kA	RMS in kA			Duration (seconds)	Equivalent current in kArms for 1 second
		Ir	Iy	Ib		
Three phase Short circuit withstand strength test conducted on main circuit busbars consisting of HBB+VBB (Peak in B-Phase) Test circuit diagram: OLTS/TCD-STC-01						
CPRIBPLSTNB 1819T0668.S02	144.52	65.58	65.89	65.68	1.0	65.89
Single phase Short circuit withstand strength test conducted on neutral & nearest phase main busbars consisting of HBB+VBB Test circuit diagram: OLTS/TCD-STC-02						
CPRIBPLSTNB 1819T0668.S04	83.58	39.79			1.0	39.79

Observations:

During test : No abnormality.
After test : No abnormality. Fine wire fuse intact. All busbars & supports found intact.

Remarks : After short circuit test, the sample withstood HV test at 2.5 kVrms for one minute as per standard.

Conclusion : The test results indicate that the sample tested complies with the requirement of cl. 8.2.3 of the standard.

(VIPUL SHARMA)
TEST ENGINEER

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