



Tel. No.0755-2586343
Fax No. 0755 – 2587774
Email: cpribpl@sancharnet.in

CENTRAL POWER RESEARCH INSTITUTE GOVINDPURA : BHOPAL – 462 023

PROVISIONAL REPORT

04 JAN 2022

Test Report No.CPRIBPLSTNBMISC21T0297

Date of test: 29 December 2021

1. **Customer:** M/s Drive and Control System, Rajkot- 360004
2. **Sample tested:** 415 V, 6300 A, Main LT Panel (Non Extendable)
3. **Serial Number:** DCS/70/21-22
4. **Sample Code No.:** STNBMISC21S0802
5. **Type:** PCC/MCC/ACDB/DCDB/AMF
- 5.1 **Designation:** LT Panel 6300A
6. **Drawing Number:** DCS/LT/STC/70 Rev. R1 Page 1 of 3, DCS/LT/STC/70 Rev. R1 Page 2 of 3 & DCS/LT/STC/70 Rev. R1 Page 3 of 3
7. **Rating of the Sample:**
 - 7.1 **Rated Voltage :** 415 V
 - 7.2 **Rated Current :** 6300 A
 - 7.3 **Rated Insulation voltage :** 660 V
 - 7.4 **No. of phases :** Three phase + Neutral
 - 7.5 **Degree of protection:** -
 - 7.6 **Form of separation:** -
 - 7.7 **Rated short time current:** 70 kArms for 1.0 second with initial peak of 154 kApk
8. **Sample tested for the following ratings:**
 - 8.1 **Voltage :** 415 V
 - 8.2 **Current :** 6300 A
 - 8.3 **Insulation voltage :** 660 V
 - 8.4 **Short time current:** 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 generally procedure 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 MISC21T0297S002	159.70/71.36	71.83	71.08	1.0	71.83
(Three phase short circuit withstand strength test conducted on circuit busbars consisting of HBB+VBB)					
CPRIBPLSTNB MISC21T0297S004	91.80/42.97			1.0	42.97
(Single phase short circuit withstand strength test conducted on neutral & nearest phase of 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 other documents will be issued separately within one month from the date of test.

अभियंत्रिकी अधिकारी
Engineering Officer
LABORATORY IN-CHARGE
Central Power Research Institute
स्विचगियर विकास एवं विकास केंद्र
Switchgear Testing & Development Station
गोविन्दपुरा, भोपाल
Govindpura, Bhopal - 462023