

# CENTRAL POWER RESEARCH INSTITUTE

## TEST REPORT



**CPRI**

Test Report Number : CPRIPLSTNBMISC21T0129 Date: 14 September 2021

Name and Address of the Customer : M/s Perfect Switchgears (India)  
6/81, Kachora Bazar, Belanganj  
Agra, Uttar Pradesh – 282006

Name and Address of the Manufacturer : M/s Perfect Switchgears (India)  
6/81, Kachora Bazar, Belanganj  
Agra, Uttar Pradesh – 282006

Particulars of Sample Tested : 415V, 6000A, L.T. Switchboard (Non Extendable)

Type : Power cum Motor Control Centre

Description of test sample : Refer sheet 2 of 6

Serial Number : PSI/81

Number of Samples Tested : One

Date(s) of Test(s) : 16 August 2021

CPRI Sample code Number(s) : STNBMISC21S0365

Particulars of test(s) conducted : Verification of the short circuit withstand strength

Test(s) in accordance with Standard/Specification : 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

Sampling Plan : Nil

Customer's Requirement : STC test to be conducted on circuit busbars only.

Deviations, if any : STC test was conducted on circuit busbars only.

Name of the witnessing persons : Mr. Pavan Semre

Customer's representative : Nil

Other than Customer's representatives : Nil

Test subcontracted with and address of the laboratory : Nil

Documents constituting this report (in words)

Number of Sheets : Six

Number of Oscillogram(s) : Two


Number of Graph(s) : Nil

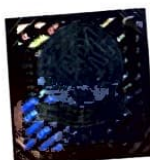
Number of Photograph(s) : One

Number of Test Circuit Diagram(s) : Two

Number of Drawing(s) : Two

  
(Prabakaran T)  
Test Engineer

  
(Sumbul Munshi)  
Head of Division  
Reviewed and Authorized by



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### DESCRIPTION OF SAMPLE TESTED

(As assigned by the manufacturer)

Test Sample : 415V, 6000A, L.T. Switchboard (Non Extendable)  
Type : Power cum Motor Control Centre  
Designation : Main Distribution Panel  
Serial number : PSI/81

Voltages  
Rated Voltage ( $U_n$ ) in V : 415  
Rated Insulation Voltage ( $U_i$ ) in V : 660  
Rated impulse withstand voltage ( $U_{imp}$ ) in kV : NA

Currents  
Rated Current ( $I_{nA}$ ) in A : 6000  
Rated current of a main outgoing circuit ( $I_{nc}$ ) in A : NA  
Rated conditional short-circuit current ( $I_{cc}$ ) in kA : NA  
Rated short-time withstand current ( $I_{cw}$ ) in kA : 50 kArms for 1.0 second with initial peak of 105 kApk

Rated frequency ( $f_n$ ) in hz : 50  
Degree of protection : Nil  
Material group : Nil  
Form of separation : Nil  
Number of Phases : Three Phase + Neutral  
Extendable : No

NA : Not Applicable

  
(Prabakaran T)  
Test Engineer

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### SUMMARY OF TESTS CONDUCTED

1. Tests conducted : Verification of short circuit withstand strength
2. Rating for which tested : 50kArms for 1.0 second with initial peak of 105 kApk
3. Schedule of tests

Tests Conducted	Clause no.	Reference
Verification of Short-circuit withstand strength test (Incoming circuit and main busbars & Neutral conductor)	10.11.5.3.3 & 10.11.5.3.5	Sheet 5 of 6

4. Oscillogram number(s) : CPRIBPLSTNBMISC21T0129S002  
: CPRIBPLSTNBMISC21T0129S004
5. Graph Number(s) : Nil
6. Photograph Number(s) : CPRIBPLSTNBMISC21T0129P01
7. Test Circuit diagram number(s) : OLTS/TCD-STC-01  
: OLTS/TCD-STC-02
8. Drawing Number(s) : Refer sheet 4 of 6

(Prabakaran T)  
Test Engineer