

CENTRAL POWER RESEARCH INSTITUTE
SWITCHGEAR TESTING & DEVELOPMENT STATION
GOVINDPURA BHOPAL - 462 023

100 MVA ON LINE TEST DIVISION

TEST REPORT

22 MAY 1996

Report No. & Date : 96/Stn.2/126 A

Client his reference and address : M/s Contronics Switchgear (India) P. Ltd,
B-271, Okhla Industrial Area, Phase-I,
New Delhi.

Manufacturer his reference and address : M/s Contronics Switchgear (India) P.Ltd,
B-271, Okhla Industrial Area, Phase-I,
New Delhi.

Particulars of apparatus tested : LT Switch board

Designation : -

Type : Power cum motor control centre

Sample Code No. : CPRI/Stn.2
96/137-1

Serial Number : -

Date(s) of test (s) : 13th March, 1996.

No. of samples tested : One

Particulars of test conducted : Verification of the short circuit
withstand strength.

Tests in accordance with standard/specification : As per Cl. No. 8.2.3 of IS : 8623(Part-1),
1993.

Client's requirement : -

Deviation if any : -

Names of the witnessing persons :

Client's representatives : Mr. Kulwant Singh

Other than client's representatives : -

Document constituting this report (in words) :

Number of pages : Four

Number of oscillograms : Two

Number of drawings : Three

Number of test circuit drawings : Two

Number of photos : One

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NOTE :

- A) The test results relate only to the items tested.
- B) Publication or reproduction of this report, in any form other than by complete set of the whole report and in the language written, is not permitted without the written consent of CPRI.
- C) Connections/operations invalidate the test report

A. Bhaskaran
A. BHASKARAN
22/05/1996

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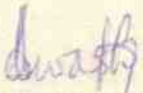
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SUMMARY OF TEST

1. Test conducted : Verification of the short circuit withstand strength.
2. Rating for which tested : 50.0 kArms for one sec. with initial peak of 105.0 kA
3. DOCUMENTS CONSTITUTING THIS REPORT :
 - 3.1. Supplementary test report : Nil
 - 3.2. Oscillogram Nos. : Stn.2/960313/6, 8
 - 3.3. Drawings of the equipment tested : CS/CPRI/02 (2 sheets)
CS/CPRI/03
 - 3.4. Test circuit drawing No. : OLTS/TCD-11(C)
OLTS/TCD-11(D)
 - 3.5. Photograph Nos. : P-1


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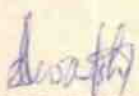
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Rating Assigned By The Manufacturer

Equipment	: LT Switch board
Type	: Power cum motor control centre
Rated Voltage	: 415 V
Rated Current	: 3000 A
No. of phases	: TPN
Frequency	: 50 Hz.
Insulation level	: 660 V
Short time current	: Dynamic - 105.0 kA _{pk} Thermal - 50.0 kA _{rms} for one sec.


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SCHEDULE OF TEST RESULTS

Before Test : New equipment connected to source for testing as per clause No. 8.2.3 of IS : 8623(Part-1), 1993.

Test Conducted : Verification of the short circuit withstand strength.

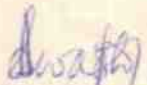
Test Circuit Arrangement : As per test circuit drawing No. OLTS/TCD-11(D) and OLTS/TCD-11(C) for test on 3- ϕ bus bar and neutral respectively.

Oscillogram No.	Current in kA (Peak/rms)			Duration in secs.	Equivalent current in kA rms for 1.0 Sec.
	R	Y	B		
Stn.2/960313/8 (Three phase test on main busbars)	50.2	50.0	106.3/50.0	1.0	50.2
Stn.2/960313/6 (Single phase test on neutral and nearest phase)	63.0/30.3	-	-	1.0	30.3

Observations : During test - No abnormality.

After test - No abnormality. All busbars and supports intact. Fine wire fuse intact.

Remarks : - After STC test the equipment withstood HV test at 2.5 kVrms for one minute as per standard.


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SWITCHGEAR TESTING & DEVELOPMENT STATION

GOVINDPURA, BHOPAL - 23

SUPPLEMENTARY TEST LABORATORY

PRELIMINARY TEST REPORT

20 OCT 2000

Test Report No. & Date : 2000/STL/569
Client, his reference and address : M/s Contronics Switchgear (I) Pvt.Ltd.
Plot No. A-30, Sector-58, Noida-201 301

Manufacturer, his reference & address : M/s Contronics Switchgear (I) Pvt.Ltd.
Plot No. A-30, Sector-58, Noida-201 301

Particulars of apparatus tested : 415V, 32Amps LT Panel.

Designation : Nil
Type : Nil
Identification No. Sample code No. : CPRI/STN.2
2000/442

Sl. No. : Nil
Date (s) of test (s) : 20/10/2000
No. of samples tested : One
Test conducted : Degree of Protection IP 55

Particulars of test conducted : The above test was conducted on the equipment as per standard. No traces of Talcum Powder (Unscented) were observed inside the equipment after IP 5X test, and no traces of water observed inside the equipment after IP-X5 test. IR value measured at 500 V DC after IP 5X and IPX5 tests. The values found were more than 2000 Mega Ohms for each tests respectively. The HV test was conducted at 2.5kVrms for one minute and the equipment withstood HV test.

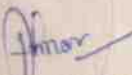
Test in accordance with standard / specification : IS:13947 (Part -1) 1993.

Client's requirement/Deviations if any : Nil.

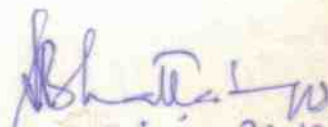
Name of the Witnessing person

Client's representative : Mr. Kulwant Singh Electrical Engineer.

Other than Client's representative : Nil



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20-10-2000
ENGINEERING OFFICER. 4

NOTE:

- The report is purely provisional.
- The results are not binding on the testing authority till the final test report is issued.
- Corrections/erasings invalidate the test report.

इंजीनियरिंग अधिकारी-4
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