

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 B

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 : L.T Bus duct

Designation : -

Type : -

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

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-II),
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 : Two

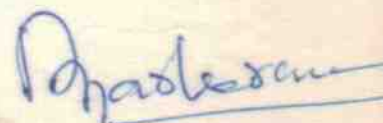
Number of test circuit drawings : Two

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) Corrections/erasings invalidate the test report.


A. BHASKARAN
22/05/1996
Joint Director

CENTRAL POWER RESEARCH INSTITUTE

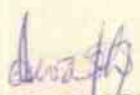
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SUMMARY OF TEST

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.2/960313/10, 12
 - 3.3. Drawings of the equipment tested : CS/CPRI/01
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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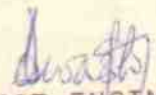
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Rating Assigned By The Manufacturer

Equipment	: LT Bus duct
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 kApk Thermal - 50.0 kArms for one sec.


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GOVINDPURA, BHOPAL-23

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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-II), 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.2/960313/10 (Three phase test on main busbars)	105/50.6	50.3	50.0	1.0	50.6
Stn.2/960313/12 (Single phase test on neutral and nearest phase busbar)	63.0/30.4	-	-	1.0	30.4

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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