

### **TEST REPORT**

Test Report Number	÷	CPRIBPLSTNC18T0562	Dated : 24.12.2018
Name & Address of the Customer		M/s Sia Sales Corporation, Plot No. 1207, Gamdi Chosar Roa Village – Choser, Taluka Daskroi.	d,
Name and Address of the Manufacturer	:	Ahmedabad – 382 427 M/s Sia Sales Corporation, Plot No. 1207, Gamdi Chosar Roa Village – Choser, Taluka Daskroi,	ıd,
Derticulare of comple tooted	12		
Particulars of sample tested		415 V, 4000 A, L.T. Paller	
Condition of sample on receipt	- 8	New	
	÷	Power Cum Motor Control Centre	
Designation	÷.	NIL Main Distribution Danal	
Description of test sample	÷	Main Distribution Panel	
Serial Number	0	NIL	
Number of samples tested		One	
Date(s) of Test(s)	8	20 11 2018	
CPRI sample code number(s)	- 8	STNC18S0339	
Detail(s) of sealing(s) of sample(s)	÷	NIL	
Particulars of tests conducted	- 2	Verification of temperature rise lim	iits
Test(s) in accordance with	:	As per Cl. 8.2.1 of IS : 8623 (Part-	1), 1993/IEC Pub:439-1,1985
Standard/Specification		and as per customer's requiremen	it.
Sampling Plan	2	NIL	
Customer's Requirement		<ol> <li>Maximum Temperature limit on bus declared by the customer as specified</li> <li>Incoming and outgoing extension b (200x10) 3 Nos., 1800mm Long, Alumn</li> </ol>	sbar & Joints shall be 95 K in the standard. usbar for TR test were of size iinium
Deviations, if any	\$	NIL	
Name of the witnessing persons			
Customer's representatives		Mr. Jha Vikash	
Other than customer's representatives	:	NIL	
Test subcontracted with name and address of		NONE	
the laboratory			
Documents constituting this report (in words)			
Number of sheets	1	SIX	
Number of oscillograms	:	NIL	
Number of graphs	:	NIL	
Number of photos	2	NIL	
Number of Test circuit Diagrams	1	NIL	
Number of Drawings	•	TWO	
antone	100		Sonsoe
(A K Khanra)	15		(Sarita Dongre)
	10	2-2	Joint Director
reat Engineer			John Director
	89.0	CANTER SECTION	Approved by

ULR - TC5181180STCT0562F

SWITCHGEAR TESTING & DEVELOPMENT STATION GOVINDPURA, BHOPAL 462023, INDIA Phone: +91(0)755 2586682 Fax: +91(0)755 2587774

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#### Test Report Number: CPRIBPLSTNC18T0562

Date: 24.12.2018

CPRI

### SUMMARY OF TEST

 Verification of temperature rise limits 1. Test conducted 2. Rating for which tested : 4000A, 3 Phase, 50 Hz DOCUMENTS CONSTITUTING THIS : 3. REPORT 3.1 Supplementary test report 3 NIL 3.2 Oscillogram No(s) : NIL 3.3 Drawing of the equipment tested 1) SSC/STL/TR/02 Rev.00 2) SSC/STL/TR/01 Rev.00 3.4 Test circuit drawing No(s). 1 NIL 3.5 Photograph No(s). : NIL

Ontono (A.K. Khanra) Test Engineer

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### **TEST REPORT**

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### DESCRIPTION OF THE SAMPLE TESTED

(As assigned by the manufacturer)

Sample	\$	L.T. Panel
Rated voltage (Volts)	:	415
Rated current (Amps)	:	4000
Frequency (Hz)	8	50
Insulation level (VAC)	:	660
No. of phases	:	3 phase
No. of poles	5	4 poles
Dimensions of the sample	1	-
Contacts terminals material	:	2 <del></del>
Isolating distance (mm)		-
Phase to earth distance (mm)	:	-
Creepage distance (mm)	:	-
Rated Short time Current (kA rms/KApk)	ĩ	



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### **TEST REPORT**

#### Test Report Number: CPRIBPLSTNC18T0562

Date: 24.12.2018

#### SCHEDULE OF TESTS

New

: 11.26

: 17.26

: 4000

: 50

: 31.9°C

: 3

: 20.11.2018

**Test Conducted** 

Condition of the Sample Date of Test

Starting Time(Hrs.)

Shut down time(Hrs.)

Test current (A)

Size of conductor used

**Busbar Cross Section** 

Frequency (Hz) Phase Avg. ambient Temperature at shut down

Arrangement of thermocouple locations

: As per drawing no. SSC/STL TR/02

: AI. Busbar, Incoming (200x10x3)

(200x10) mm x 2 Nos.

Outgoing (200x10x3) Length : 1.8 metres : Material : AI, Phase: (200x10) mm x 3Nos.Neutral :

\*: Verification of temperature rise limits.

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Thermocouple		Maximum Temperature	Temperature Rise (°C)
Locations	Numbers	Necolded (deg C)	
As per drawing	T1	74.9	43.0
As per drawing	T2	78.7	46.8
As per drawing	Т3	73.5	41.6
As per drawing	Т4	86.3	54.4
As per drawing	Т5	94.9	63.0
As per drawing	Т6	85.4	53.5
As per drawing	Τ7	84.5	52.6
As per drawing	Т8	92.7	60.8
As per drawing	Т9	83.2	51.3

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(A.K. Khanra)

Test Engineer

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### SCHEDULE OF TESTS

Thermocouple		Maximum Temperature	Temperature Rise (°C)
Locations	Numbers	Recorded (deg C)	
As per drawing	T10	76.1	44.2
As per drawing	T11	86.9	55.0
As per drawing	T12	75.4	43.5
As per drawing	T13	64.5	32.6
As per drawing	T14	69.5	37.6
As per drawing	T15	65.0	33.1
As per drawing	T16	56.1	24.2
As per drawing	T17	54.7	22.8

specified by the customer.

 ii) High voltage test was conducted at 2.5kVrms for 1 minute to check the effect of temperature rise on adjacent parts of the equipment. Sample withstood the test

**CONCLUSION** : The test results indicate that the sample tested complies with the requirement of CI. No. 8.2.1 of IS : 8623 (Part-1), 1993/IEC Pub : 439-1,1985 and customer's requirement.

Gabo (A.K. Khanra) Test Engineer

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