

CPRI

TEST REPORT



Central Power Research Institute

(A Govt. of India Society)

P.B.No. 8066, Sadashivanagar Post Office,
Sir C.V. Raman Road,
Bengaluru - 560 080 (INDIA)

CENTRAL POWER RESEARCH INSTITUTE
(Member of STL)



TEST REPORT

Test Report Number : CPRIBLRSCLMISC19T0121 Date: 10 September 2021

Name & Address of the Customer : M/s.DOKSHAM POWER SOLUTIONS
H51A, Road No 2-D, Bindayka Ind. Area,
Bindayka, Jaipur- 302041

Name & Address of the Manufacturer : M/s.DOKSHAM POWER SOLUTIONS
H51A, Road No 2-D, Bindayka Ind. Area,
Bindayka, Jaipur- 302041

Particulars of sample tested : GI Earth Electrode
Condition of the sample on Receipt : Good

Type : --
Description of test sample : 80 mm OD & 3000 mm long
GI Earth Electrode

Serial Number(s) : ---
Number of samples tested : One
Date (s) of test (s) : 21 August 2021
CPRI sample code no(s). : SCLMISC19S0155


Particulars of tests conducted : Short-time withstand current and peak withstand current
Test in accordance with : Customer's instruction
Standard / specification : Not applicable
Sampling plan : 25 kA rms for 1.0 s & 63 kA peak
Customer's requirement : ---
Deviations if any : ---

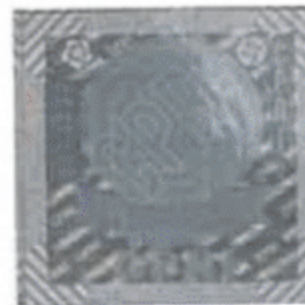
Name of the witnessing persons

Customer's representative : Mr. Pandu. G. Lamani, Sales Executive
Other than customer's representative : None

Test subcontracted with address of the laboratory : None

Documents constituting this report (In words)
Number of sheet(s) : Six
Number of oscillograms(s) : One
Number of graph(s) : Nil
Number of photograph(s) : Two
Number of test circuit diagram(s) : One
Number of drawings(s) : One


(Sakthivel. P)
Test Engineer




(Swaraj Kumar Das)
Head of Division
Approved by

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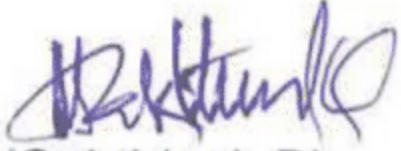
TEST REPORT

Test Report Number: CPRIBLRSCLMISC19T0121

Date: 10 September 2021

DESCRIPTION OF SAMPLE TESTED
(As assigned by the manufacturer)

Test sample : GI Earth Electrode
Type : ---
Size & length of earth electrode : 80 mm OD & 3000 mm long
Short-time withstand current and peak withstand current : 25 kA rms for 1.0 s & 63 kA peak


(Sakthivel. P)
Test Engineer

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SUMMARY OF TESTS CONDUCTED

1. Test conducted : Short-time withstand current and peak withstand current
2. Rating for which tested : 25 kA rms for 1.0 s & 63 kA peak
3. Schedule of test results

Test conducted	Clause Nos.	Reference
Short-time withstand current and peak withstand current	Customer's instruction	Sheet 5 of 6

4. Oscillogram Number(s) : SC190119.S01
5. Photograph Number(s) : CPRIBLRSCLMISC19T0120P01 & CPRIBLRSCLMISC19T0120P02
6. Test Circuit Diagram Number(s) : CRTL/SC/STC-01A
7. Drawing Number(s) : Refer Sheet 4 of 6


(Sakthivel. P)
Test Engineer

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Date: 10 September 2021

TEST RESULTS

SHORT-TIME WITHSTAND CURRENT AND PEAK WITHSTAND CURRENT TESTS

TEST CONDITIONS

Source

Number of phases
Frequency

Short-circuit generator
Single
50 Hz

Test sample

Condition of the sample
Mounting

In clean & good condition; one end of the
earth electrode connected to source
Horizontal, isolated from ground


Test details

Test circuit drawing number
Short-circuit applied
Short-circuit point

CRTL/SC/STC-01A
On the other end of the earth electrode
Grounded

Oscillogram Number	Current (kA)		Duration (s)	Observation
	peak	rms		
SC190119.S01	66.34	25.37	1.08	During test: No Abnormality After test: No visible damage to earth electrode.

Physical Inspection: No visible damage


(Sakthivel. P)
Test Engineer

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NOTE

- a) The Test results relate only to the item(s) tested.
- b) Publication or reproduction of this report in any form other than by complete set of the whole test report and in the language written is not permitted without the written consent of CPRI.
- c) Any Corrections / erasure invalidate the test report.
- d) Any anomaly / discrepancy in the test report should be brought to notice of CPRI within 45 days from the date of issue.
- f) The verification of the sample drawing by CPRI is limited to dimensional checks only wherever possible.
- e) All the documents consisting the test report are stitched together with a continuous silk thread, the two ends of which have been brought over the front sheet of the test report and seal with a CPRI logo printed paper sticker.


(Sakthivel. P)
Test Engineer

26.75 kA



लघु पथन प्रयोगशाला
Short Circuit Laboratory
केन्द्रीय विद्युत अनुसंधान मन्थान
Central Power Research Institute
बंगलूरु / Bengaluru - 560 080

185.15 V



170.10 milli seconds

J. D. Kulkarni
TEST ENGINEER

SC190119.S01

Di: 21-08-2021

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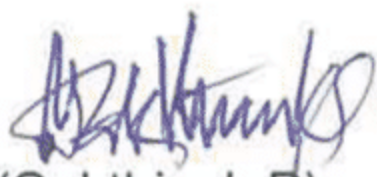


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Mounting arrangement (Before test)

CPRIBLRSCLMISC19T0121 P01


(Sakthivel. P)
Test Engineer

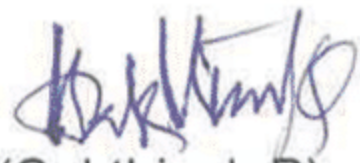
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Condition of the sample (After test)

CPRI BLR SCL MISC19T0121 P02

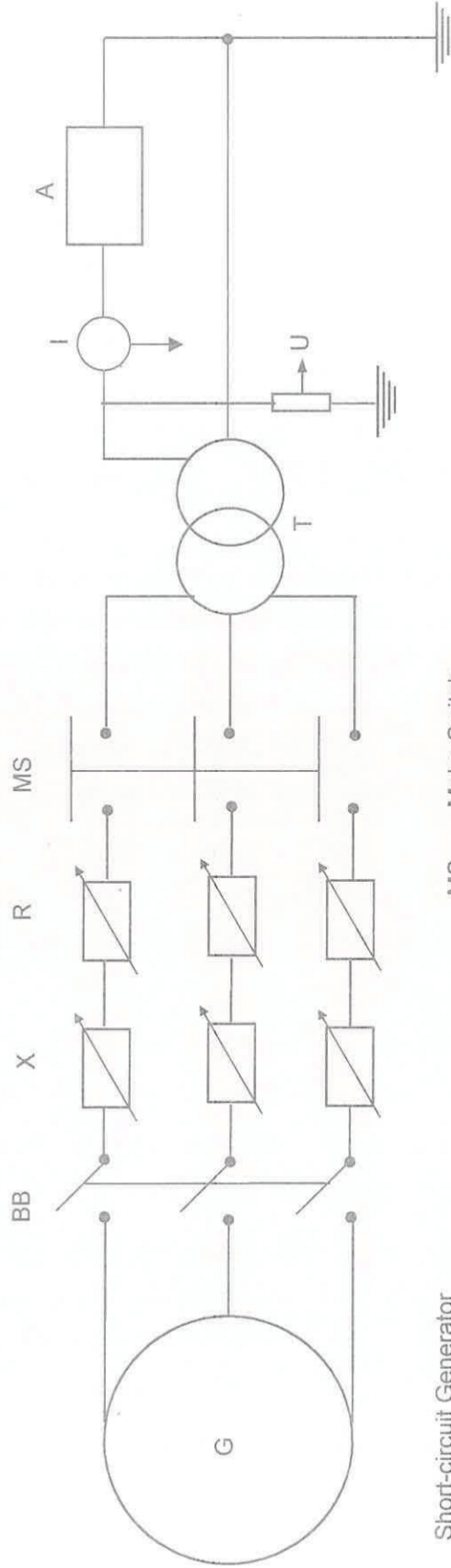

(Sakthivel. P)
Test Engineer



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Schematic of main & measurement circuits - Single phase test

Circuit Number: CRTL/SC/STC-01A



G Short-circuit Generator

BB Back up Circuit Breaker

X Reactance

R Resistors

MS Make Switch

T Step-down transformer

A Sample under test

i Current Sensor

U Voltage divider

[Signature]
Test Engineer

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16														
A	<p>Note :-</p> <p>Pipe & Strip: - 1. All Dimension Are in MM 2. Tolerance - ± 5%</p>																												
B	<p>के.वि.अ.सं. द्वारा इस रेखाचित्र का सत्यापन जहाँ कहीं भी संभव हो सिर्फ़ विभीय जाचै तक ही सीमित है। THE VERIFICATION OF THIS DRAWING BY CPRI IS LIMITED TO DIMENSIONAL CHECKS ONLY WHEREVER POSSIBLE</p> <p>परीक्षण रिपोर्ट सं सीपीआर आईबीएन आरएससीएलएमआई एससी सं संबंधित दस्तावेज़ Document Pertaining to Test Report No: CPRI/RLSCLMISC.1.1.1.021</p>																												
C	<p>परीक्षण अभियन्ता / Test Engineer ल.प. प्रयोगशाला / S. C. LAB सी. पी. आर. आई. / CPRI बंगलुरु / Bengaluru DRAWING NO. - DPS/0588/07/2020</p>																												
D	<p>MANUFACTURER : DOKSHAM POWER SOLUTIONS</p>																												
E	<p>DRAWING TITLE : GI EARTH ELECTRODE</p>																												
F	<table border="1"> <thead> <tr> <th>DSGN</th><th>DRWN</th><th>CHECKD</th><th>APD</th><th>DATE</th><th>SHEET</th><th>REV</th> </tr> </thead> <tbody> <tr> <td>AMIT</td><td>AMIT</td><td>AMIT</td><td></td><td>24.07.2021</td><td>1 OF 1</td><td>0</td> </tr> </tbody> </table>															DSGN	DRWN	CHECKD	APD	DATE	SHEET	REV	AMIT	AMIT	AMIT		24.07.2021	1 OF 1	0
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AMIT	AMIT	AMIT		24.07.2021	1 OF 1	0																							
G	<p>DOKSHAM POWER SOLUTIONS H51A, ROAD NO 2-D, Bindayak Ind. Area, Bindayka, Jaipur- 302041</p>																												
H	<p><input type="checkbox"/> PRELIMINARY <input type="checkbox"/> TENDER <input type="checkbox"/> APPROVAL <input checked="" type="checkbox"/> TESTING</p> <p>PROJECTION ALL DIMENTION ARE IN MM TOLERANCE ±% ON FABRICATED ITEM</p>																												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16														
A	<p>100.00</p> <p>80.00</p> <p>50 x 6 mm GI Connection Terminal</p> <p>GI Pipe 80.0mm dia(O/D) and 3 mtr length CCM Compound 50 x 6 GI Strip in Pipe</p> <p>80.0mm Dia GI EARTH ELECTRODE</p>																												
B																													
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