



CPRI

No. CPRI/SC/8/2020

Dated: 18/04/2021

M/s. DoKsham Power Solutions
H51A, Road No 2-D, Bindowka Ind. Area,
Bindowka, Jaipur – 302041, India.

विषय/Sub: परीक्षण दस्तावेज /Test Document(s)

महोदय/Dear Sir,

हमारे प्रयोगशाला में आपके पर संचालित परीक्षण के संबंध में निम्नांकित दस्तावेज संलग्न हैं। Please find enclosed the following document(s) in respect of the test(s) Conducted.

Test Series No. CPRI/BLR/SCLMISC2021T0008-T0009 Earthing Electrode (Two reports)

In order to prevent tampering of test report, CPRI has introduced hologram on the first page of the test report with effect from 01.10.2007.

रिपोर्ट में यदि असंगतियों हो तो इस रिपोर्ट के जारी होने की तारीख से ४५ दिनों के अंदर लिखित रूप में हमारे ध्यान में लायी जाए, ताकि आवश्यक संशुद्धि की जा सके। इसके लिए रिपोर्ट की सभी प्रतियाँ लौटाई जाएं। कृपया नोट करें कि इस तारीख के बाद प्राप्त अनुरोधों पर कोई कार्रवाई नहीं की जाएगी।

Any discrepancies in the report be brought to our notice in writing within 45 days of the date of issue of this report for effecting necessary corrections for which all the copies of report(s) must be returned. Please note that request received beyond this date will not be entertained.

कृपया दस्तावेजों की पावती भेजे। Please acknowledge the receipt of the document(s)

भवदीय

Yours faithfully

अपर निदेशक Additional Director

संलग्न: यथोक्त Encl: As above

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)


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TEST REPORT

Test Report Number	CPRI BLR SCLMISC2021T0008	Dated: 16 th April, 2021
Name & Address of the Customer	M/s. DoKsham Power Solutions H51A, Road No 2-D, Bindayka Ind. Area, Bindayka, Jaipur – 302041, India.	
Name & Address of the Manufacturer	M/s. DoKsham Power Solutions H51A, Road No 2-D, Bindayka Ind. Area, Bindayka, Jaipur – 302041, India.	
Particulars of sample tested	Copper Bonded Earthing Electrode	
Condition of the sample on Receipt	Good	
Type	---	
Description of test sample	17 mm dia, 3000 mm Long Copper Bonded Mild Steel Earthing Electrode	
Serial Number(s)	---	
Number of samples tested	One	
Date (s) of test (s)	2 nd April, 2021	
CPRI sample code no(s).	SCLMISC2021S0008	
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	15 kA rms for 1.0 s & 30 kA peak	
Customer's requirement	---	
Deviations if any	---	
Name of the witnessing persons		
Customer's representative	Mr. Amit Kumar	
Other than customer's representative	None	
Test subcontracted with address of the laboratory	None	
Documents constituting this report (In words)		
Number of sheets	Four	
Number of oscillograms	One	
Number of graphs	Nil	
Number of photos	Two	
Number of test circuit diagrams	One	
Number of drawings	One	


(SAKTHIVEL. P)
TEST ENGINEER




(SWARAJ KUMAR DAS)
HEAD OF DIVISION
Approved by

Sheet 1 of 4

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CPRI

Report Number: CPRIBLRSCLMISC2021T0008

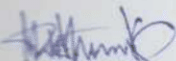
Dated: 16th April, 2021

Description of sample tested (ratings as assigned by the manufacturer)

Test sample	Copper Bonded Earthing Electrode
Type	---
Designation	DP 317 CBR (Model)
Serial Number (s)	---
Size & Length of Earth electrode	17 mm dia & 3000 mm long
Short-time withstand current and peak withstand current	15 kA rms for 1.0 s & 30 kA peak

Documents attached to this report

Oscillogram number(s)	SC180001.S01
Photograph number(s)	CPRIBLRSCLMISC2021T0008 PB1 & CPRIBLRSCLMISC2021T0008 PA1
Test circuit diagram number(s)	CRTL/SC/STC-01A
Drawing number (s)	DPS/ 003A


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Sheet 2 of 4

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Report Number: CPRIBLRSCLMISC2021T0008

Dated: 16th April, 2021

Schedule of test

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; Terminal strip end of the earthing electrode connected to source
Horizontal, isolated from ground

Test details

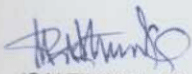
Test circuit drawing number
Short-circuit applied
Short-circuit point

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

TEST RESULTS

Oscillogram Number	Current (kA)		Duration (s)	Observation
	peak	rms		
SC180001.S01	30.30	15.19	1.09	During test: No Abnormality After test: No visible damage to earthing electrode.

Physical Inspection: No visible damage, copper bonding intact.


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Sheet 3 of 4

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Report Number: CPRIBLRSCLMISC2021T0008

Dated: 16th April, 2021

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.

Additional Information:

Test Report:

The test report contains the record of the values of test parameters as obtained during testing, the physical condition of the sample during / after the test(s) and copy of oscillogram(s).

Test report is issued when partial tests are performed as against the complete test requirement for proving specific ratings as per National / International standards or Customer's specific requirements.

(SAKTHIVEL. P)
TEST ENGINEER



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

[Signature]
 TEST ENGINEER

SC:180001.S01 Dt: 4/2/2021

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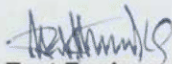


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Mounting arrangement (Before test)

CPRIBLRSCLMISC2021T0008_PB1


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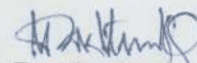


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Condition of the sample (After test)

CPRI BLR SCL MISC2021T0008. PA1

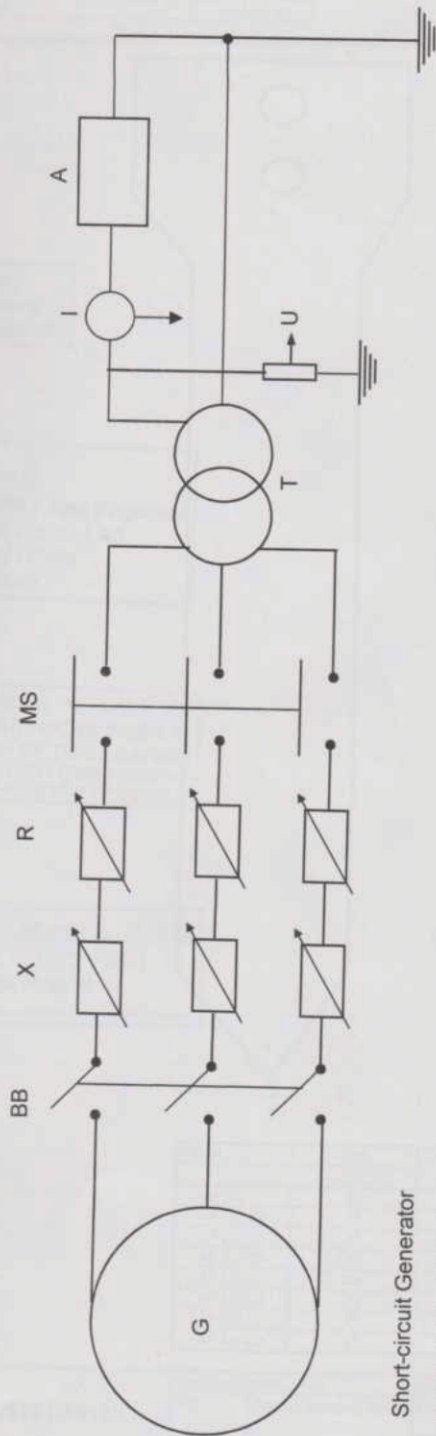

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Schematic of main & measurement circuits - Single phase test

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