

CENTRAL POWER RESEARCH INSTITUTE
(Member of STL)



TEST REPORT

Test Report Number : CPRI BLR SCLMISC22T0630 Date: 01 July 2022

Name and Address of the Customer : M/s. Multipower Earthing Solutions Pvt. Ltd.,
Shed No-01, Sr No-35/1, Opp. Jijai Hotel,
Khedekar Ind. Estate, Narhe, Pune-411041,
Maharashtra, India.

Name and Address of the Manufacturer : M/s. Multipower Earthing Solutions Pvt. Ltd.,
Shed No-01, Sr No-35/1, Opp. Jijai Hotel,
Khedekar Ind. Estate, Narhe, Pune-411041,
Maharashtra, India.

Particulars of sample tested : GI Earthing Electrode filled with Backfill Compound

Type : Pipe in Pipe
Description of the sample : Refer Sheet 2 of 6
Serial Number : ---
Number of samples tested : One
Date (s) of Test (s) : 16 June 2022
CPRI sample code no(s) : SCLMISC22S0597
Particulars of tests conducted : Short-time withstand current and peak withstand current

Test in accordance with Standard / specification : Customer's instruction
Sampling plan : Not applicable

Customer's requirement : 30 kA rms for 1.0 s & 75 kA peak
Deviations if any : ---


Name of the witnessing persons :
Customer's representatives : Mr. Akash Uttam Pasalkar, Director
Other than customer's representatives : 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 Photo(s) : Two
Number of Test Circuit Diagram(s) : One
Number of Drawing(s) : One


(Sakthivel. P)
Test Engineer




(Swaraj Kumar Das)
Head of Division
Reviewed and Authorized by

CENTRAL POWER RESEARCH INSTITUTE
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Date: 01 July 2022

DESCRIPTION OF SAMPLE TESTED
(As assigned by the manufacturer)

Test sample	:	GI Earthing Electrode filled with Backfill Compound
Type	:	Pipe in Pipe
Size & length of earthing electrode	:	70mm (ID) dia with 3 mm wall thickness (outer pipe), 35mm (ID) dia with 3mm wall thickness (inner pipe) & 2900 mm long
Short-time current withstand current & peak withstand current	:	30 kA rms for 1.0 s & 75 kA peak


(Sakthivel. P)
Test Engineer

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SUMMARY OF TEST CONDUCTED

- | | | | |
|---|------------------------------|---|---|
| 1 | Tests conducted | : | Short-time withstand current and peak withstand current |
| 2 | Rating for which tested | : | 30 kA rms for 1.0 s & 75 kA peak |
| 3 | Schedule of tests | : | Refer Sheet 5 of 6 |
| 4 | Oscillogram Numbers | : | CPRIBLRSCLMISC22T0630S002 |
| 5 | Photograph Numbers | : | CPRIBLRSCLMISC22T0630P01 &
CPRIBLRSCLMISC22T0630P02 |
| 6 | Test Circuit Diagram Numbers | : | CRTL/SC/STC-01A |
| 7 | Drawing Numbers | : | Refer Sheet 4 of 6 |
| 8 | Criteria for evaluation | : | No visible damage to GI Earthing Electrode |

(Sakthivel. P)
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LIST OF DRAWINGS

Drawing Numbers

The manufacturer has guaranteed that the sample submitted for the test(s) has been manufactured in accordance with the following drawing.

Sl. No.	Drawing Number	Sheet Number	Revision Number
1	RV-1	---	---

It is verified that this drawing adequately represent the sample tested. Verification of this drawing by CPRI is limited to dimensional check only wherever possible.


(Sakthivel. P)
Test Engineer

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TEST REPORT

Test Report Number: CPRIBLRSCLMISC22T0630

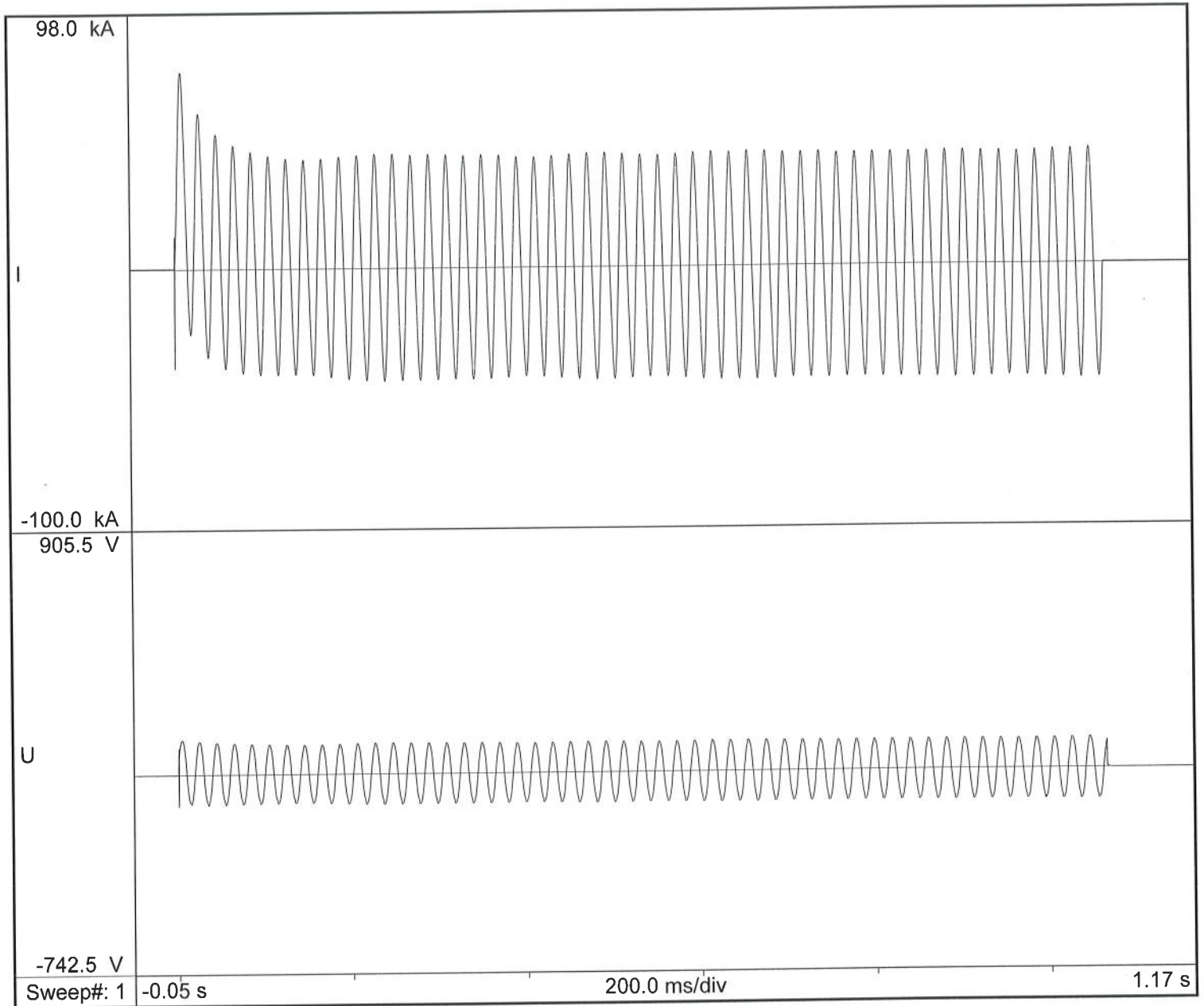
Date: 01 July 2022


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.
- 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

-----End of Test Report -----




(P. Sakthivel)
Test Engineer

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TEST REPORT



Mounting arrangement (Before test)

CPRIBLSCLMISC22T0630P01


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Test Engineer

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TEST REPORT



Condition of the sample (After test)

CPRIBLRSCLMISC22T0630P02

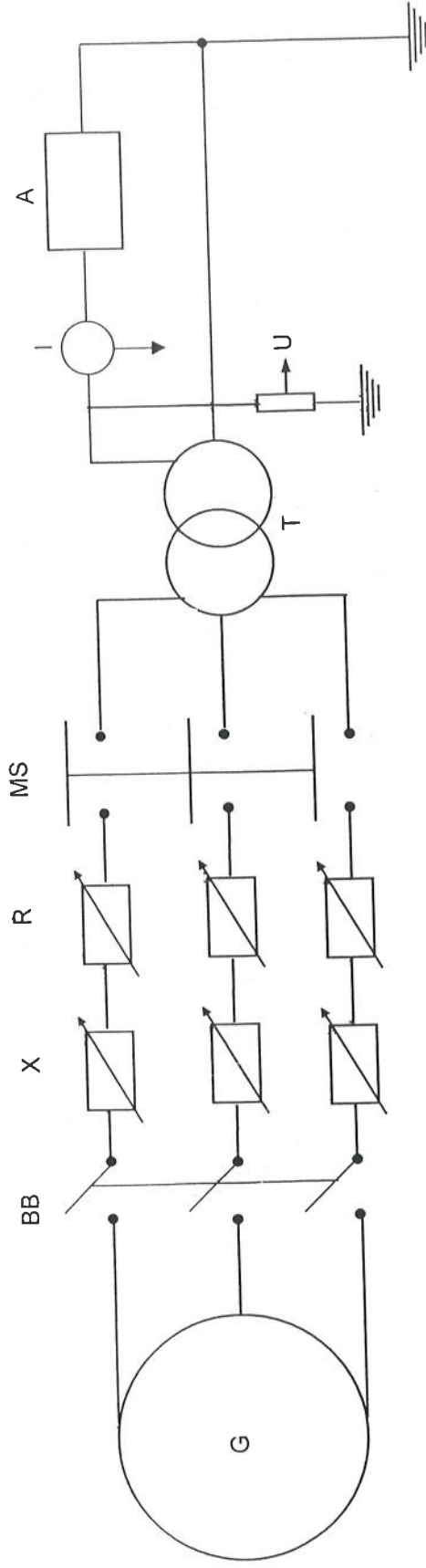

(Sakthivel. P)
Test Engineer



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Schematic of main & measurement circuits - Single phase test

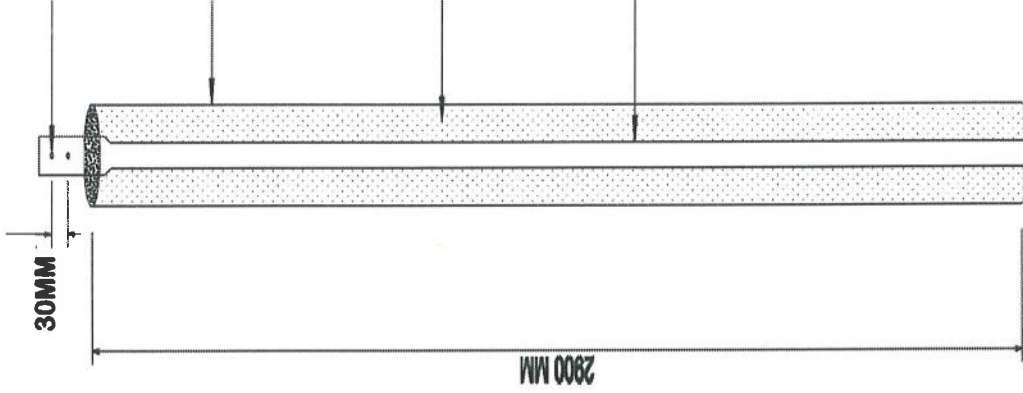
Circuit Number: CRTL/SC/STC-01A



- | | | | |
|----|-------------------------|----|-----------------------|
| G | Short-circuit Generator | MS | Make Switch |
| BB | Back up Circuit Breaker | T | Step-down transformer |
| X | Reactance | A | Sample under test |
| R | Resistors | I | Current Sensor |
| | | U | Voltage divider |

(Signature)
 (Sakthivel. P)
 Test Engineer

Terminal Size 60mm X 6 mm X 100mm & Hole 2xØ10mm



GI outer pipe

2900mm Long

OD: - 76mm & ID: 70mm

Thickness: - 3 mm

Backfill Compound

GI Inner Pipe

3000mm Long

OD: -41mm

ID: - 35mm

Thickness: - 3mm

के.वि.अ.सं. द्वारा इस रेखाचित्र का सम्बन्धित जहाँ
कहीं भी संभव हो सके विनियमित आर्क तक ही सीमित है।
THE VERIFICATION OF THIS DRAWING
BY CPRI IS LIMITED TO DIMENSIONAL
CHECKS ONLY WHEREVER POSSIBLE


परिक्षण रिपोर्ट सं सीपीआरआईवीएलआरएससीएलएमआई
.....इसकी सं संबंधित दस्तावेज
Document Pertaining to Test Report
No: CPRI/RSCLMISC/22.T.P.630

Mfg. Address	Multipower Earthing Solutions Pvt. Ltd. Shed No-01, Sr No-35/1, Opp Jijai Hotel, Khedekar Ind Estate, Narhe, Pune 411041
Title	GI Earthing Electrode Pipe in Pipe
Drawing No.	RV -1

Note: - 1) All Dimension are in mm

2) Tolerance +/- 5%

GI Earthing electrode 76mm OD X 3mtr long – Pipe in Pipe


परिक्षण अभियंता / Test Engineer
ल.प्र. प्रयोगशाला / S. C. LAB
सी. पी. आर. आई/CPRI
बंगलूरु / Bengaluru