

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, India.

EPABX: +91 (0265) 2642942, 2642964, 2642377, 3043128 / 29 / 30 / 31 / 33,

Fax : +91 (0265) 2638382,

E-mail : erda@erda.org

Web : http://www.erda.org



TEST REPORT

SHEET NO.: 1 OF 4

NAME & ADDRESS OF CUSTOMER M/s. Sun India Fire Safety Systems 211, Sangam Apartments, Pocket-24, Sector-24, Rohini, Delhi-110085.	REPORT NO.: RP-2324-006388												
	DATE OF ISSUE: 30/05/2023												
	CUSTOMER REF. NO. SIF/ERDA/CE(MM)/23- 24/27	DATE 02/05/2023											
	DATE OF SAMPLE RECEIPT 04/05/2023	DATE OF TESTING 23/05/2023											
SAMPLE DESCRIPTION (As provided by customer) FRP EARTHING/DISCHARGE ROD Rated voltage: 33 kV Total Length: 15 feet Type : Telescopic type	SAMPLE IDENTIFICATION												
	<table border="1"><thead><tr><th>ERDA Sample Code No.:</th><th>Sr. No.</th></tr></thead><tbody><tr><td>ERDA-00518557</td><td>2</td></tr><tr><td>ERDA-00518558</td><td>3</td></tr><tr><td>ERDA-00518559</td><td>4</td></tr><tr><td>ERDA-00518560</td><td>5</td></tr><tr><td>ERDA-00518561</td><td>6</td></tr></tbody></table> <p>Make : M/s. ARC Insulation & Insulators Pvt. Ltd. End User: CE(MM) HPSEBL, Shimla Year of Mfg.: 2023</p>		ERDA Sample Code No.:	Sr. No.	ERDA-00518557	2	ERDA-00518558	3	ERDA-00518559	4	ERDA-00518560	5	ERDA-00518561
ERDA Sample Code No.:	Sr. No.												
ERDA-00518557	2												
ERDA-00518558	3												
ERDA-00518559	4												
ERDA-00518560	5												
ERDA-00518561	6												
TEST DETAIL Measurement of leakage current	TEST SPECIFICATION As per customer's requirement												
ENCLOSURE : Drg. No.: ARC/FRP/22-23/06 REV-00 SHEET-01													
TEST WITNESSED BY : 1. Mr. Rajendra Kumar Jethi -M/s. Sun India Fire Safety Systems 2. Mr. Chandan Kumar Sharma - M/s. HPSEBL, Shimla 3. Mr. Chirag Prajapati- M/s. QSS (Delhi)													
SEAL DETAILS : The above sample was received with duly signed by : 1. Q.S.S(Delhi) 2. HPSEBL Officer													
Note: Tests were carried out without Earthing Cable.													
REMARKS : The samples CONFORMS to the requirements of above mentioned test specification with respect to the tests carried out.													
CHECKED BY 	APPROVED BY Nitin S. Chitte												
Note: 1. This report relates only to the particular sample received for testing in good condition at ERDA. 2. This report cannot be reproduced in part under any circumstances. 3. Publication of this report requires prior permission in writing from Director, ERDA. 4. This report shall not be used for any purpose such as PR brochures, propaganda, advertisement and/or legal proceedings, unless for the granted purpose. 5. Only the tests asked for by the customer have been carried out. 6. Particulars of manufacturer/supplier, given in this report are based on information supplied by the customer, along with the test request/sample. ERDA does not assume any responsibility for the correctness of the information for above mentioned sample under test (SUT). ERDA will not be responsible for any changes in SUT made after the test. This test report is given as per instrument status while testing. 7. In case of any dispute, Vadodara will be the exclusive jurisdiction & shall be construed as where the cause has arisen. Caution: ERDA is not responsible for the authenticity of photocopied or reproduced test reports. ERDA provides support to customers for verification of the authenticity of test reports issued by ERDA within 10 years of date of issue of report													

2407105

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, India.

EPABX: +91 (0265) 2642942, 2642964, 2642377, 3043128 / 29 / 30 / 31 / 33,

Fax : +91 (0265) 2638382,

E-mail : erda@erda.org

Web : http://www.erda.org



Discipline: Electrical

Group: Conductors & Conducting Materials

TEST REPORT No.: RP-2324-006388

SHEET No.: 2 OF 4

DATE OF ISSUE : 30/05/2023

Measurement of Leakage Current

(As per customer requirement)

Requirements as per specification:

The test voltage of 80 kV AC shall be applied across test length of 15 feet and leakage current to be measured. Measured leakage current must be less than 50 μ A at 80 kV AC.

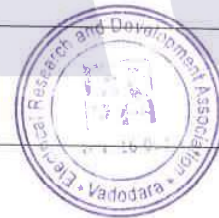
RESULTS:

ATMOSPHERIC CONDITION: Dry bulb temperature : 30.0 $^{\circ}$ C
Wet bulb temperature : 26.0 $^{\circ}$ C
Atmospheric Pressure : 759 mm of Hg.

ERDA SAMPLE CODE NO.	Applied Voltage (kV AC)	Measured Current (μ A)
ERDA-00518557	80	13.9
ERDA-00518558	80	13.6
ERDA-00518559	80	14.1
ERDA-00518560	80	13.4
ERDA-00518561	80	14.2

Remarks: Conforms

P. Patel
CHECKED BY



2407110

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, India.

EPABX: +91 (0265) 2642942, 2642964, 2642377, 3043128 / 29 / 30 / 31 / 33,

Fax : +91 (0265) 2638382,

E-mail : erda@erda.org

Web : http://www.erda.org



REPORT NO.: RP-2324-006388

SHEET NO.: 3 OF 4

DATE OF ISSUE: 30/05/2023

PHOTOGRAPHS OF TEST SAMPLES

Sample No. 1	Sample No. 2	Sample No. 3	Sample No. 4	Sample No. 5

ERDA Sample Code No.

 ERDA-00518557 PSMPIW-2324-001243	 ERDA-00518558 PSMPIW-2324-001243	 ERDA-00518559 PSMPIW-2324-001243	 ERDA-00518560 PSMPIW-2324-001243	 ERDA-00518561 PSMPIW-2324-001243
---	---	---	---	---

P. Patel

CHECKED BY



2407107

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, India.

EPABX: +91 (0265) 2642942, 2642964, 2642377, 3043128 / 29 / 30 / 31 / 33,

Fax : +91 (0265) 2638382,

E-mail : erda@erda.org

Web : http://www.erda.org

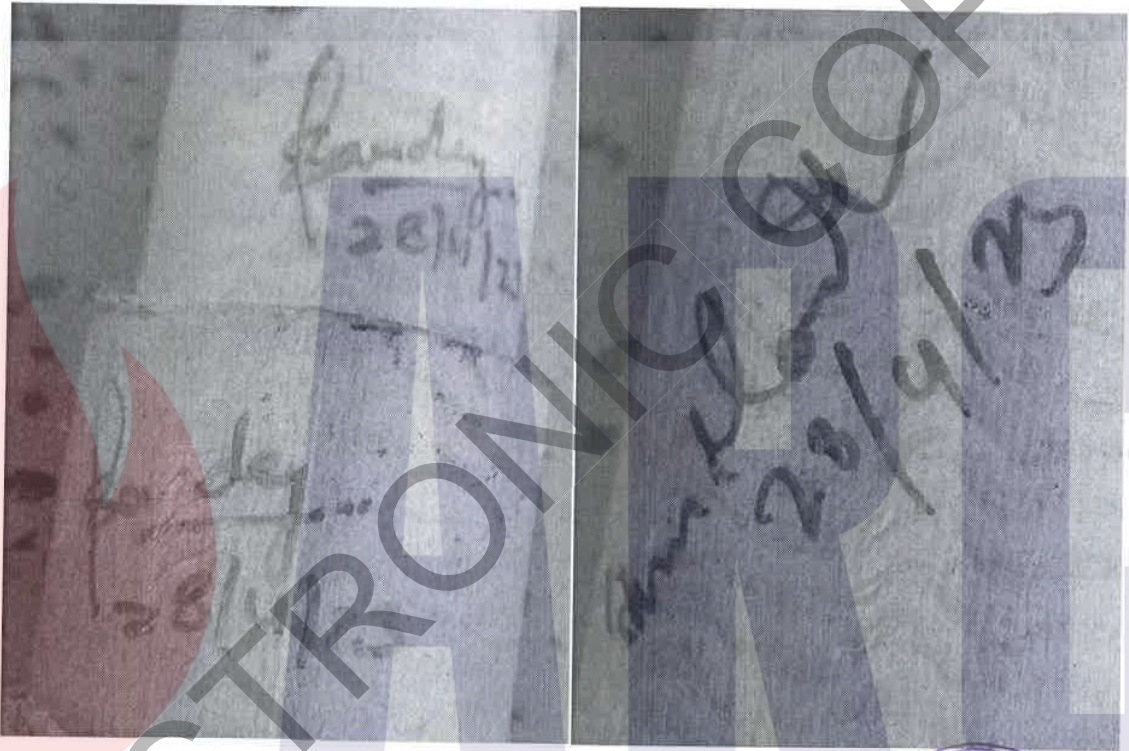


REPORT NO.: RP-2324-006388

SHEET NO.: 4 OF 4

DATE OF ISSUE: 30/05/2023

PHOTOGRAPHS OF SIGN



Pratik
CHECKED BY



***** END OF TEST REPORT *****

2407108

Pandey
 S. P. Pandey
 Sr. Chief Engineer (AMM)
 HPSEB Ltd., Vidyalaya Road,
 Shimla-171004

(M)
 Sr. Chief Engineer (Contract)
 S/o Chief Engineer (AMM)
 HPSEB Ltd., Vidyalaya Bhawan,
 Shimla-171004



ERDA, MAKARPURA
Test Report No. <u>RP-2224-006388</u>
Date <u>30/10/2023</u>
Product <u>FRP Earthing rod</u>
Verified by <u>[Signature]</u>
Verification of this drawing by ERDA is limited to relevant dimensional checks only. Verified dimensions are marked with *.
DRG / 16-002



ARC
 ARC INSULATION & INSULATORS PVT. LTD.
 VILL - RAMDEVPUR, P.O. RAWALI, DIST - 24 PWS [H]
 DATE: 15.06.2022 REV - 00 SHEET - 01
 CLIENT - HIMACHAL PRADESH STATE ELECTRICITY BOARD
 DRAWN BY: SUBHACIP
 CHECKED BY: ANUP
 APPROVED BY: MANISH
 CONTRACTOR -
 TITLE - FRP DISCHARGE ROD
 DRG. NO. - ARD-PRF/23-15/06

SL. NO	DESCRIPTION	QTY	UOM
1	FRP ROUND TUBE ID 38.5 OD 45 L-1600 MM	01	NOB
2	FRP ROUND TUBE ID 33.00 OD 38.5 L-1600 MM	01	NOB
3	FRP ROUND TUBE ID 25.00 ID 37 TOM FILLED L-1600 MM	01	NOB
4	RUMBER GRIP	01	NOB
5	GROUNDING CLAMP WITH COPPER	01	NOB
6	CONDUCTING CLAMP	01	NOB
7	15' BRANDED SC COPPER FLEXIBLE CABLE L-1.8 METR	01	NOB