TEST REPORT



CPRI

Test Report Number

: CPRIBPLSTNBMISC22T0312

Date: 26 December 2022

Name and Address of the Customer

PANNA AND SONS

1826/01, Old Amarnath Building, Bhagirath Palace,

Delhi- 110006

Name and Address of the

Manufacturer

: PANNA AND SONS

A-176, Harit Vihar, Pepsi Road, Sant Nagar, Burari, Delhi- 110084

Particulars of sample tested

Type

: 50mm Dia Copper Bonded Earth Electrode

: Electrode

Description of test sample

Refer sheet 2 of 6

Serial Number

Number of samples tested

: Nil

One

Date(s) of Test(s)

25 October 2022

: STNBMISC22S0890

CPRI Sample code Number(s)

Particulars of tests conducted

: Short time current test : As per customer's requirement

Test in accordance with

Standard/Specification

Nil

Customer's Requirement

Short time current test to be conducted.

Deviations if any

Sampling Plan

Short time current test was conducted.

Name of the witnessing persons

Customers representative

Mr. Lalit Kumar

Other than customer's

Nil

representatives

Test subcontracted with address of

the laboratory

Nil

Documents constituting this report (in words)

Number of Sheets

: Six

Number of Oscillogram(s)

One

Number of Graph(s)

: Nil

Number of Photograph(s)

: One

Number of Test Circuit Diagram(s) Number of Drawing(s)

: One : One

(Prabakaran T) Test Engineer

Head of Division Reviewed and Authorized by

Switchgear Testing & Development Station Govindpura, Bhopal, MP, India 462023 Tele:+91(0) 755 2586682 fax: +91(0) 755 258774 Sheet No. 1 of 6

TEST REPORT



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DESCRIPTION OF SAMPLE TESTED

(As assigned by the manufacturer)

Test Sample

: 50mm Dia Copper Bonded Earth Electrode

Туре

: Electrode

Designation

Nil

Serial number

Nil

Voltages

Rated Voltage (Un) in V

: NA

Rated Insulation Voltage (Ui) in V

: NA

Rated impulse withstand voltage (U_{imp}) : NA

in kV

Currents

Rated Current (InA) in A

: Nil

Rated current of a main outgoing circuit : NA

(Inc) in A

Rated conditional short-circuit current

: NA

(l_{cc}) in kA

Rated short-time withstand current (Icw)

in kA

20 kArms for 1.0 second with initial peak of 40 kApeak

Rated frequency (fn) in hz

: 50

Degree of protection Number of Phases

Nil

Extendable

Single NA

Not Applicable

(Prabakaran T) Test Engineer

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SUMMARY OF TESTS CONDUCTED

1. Tests conducted

: Short time current test

2. Rating for which tested

: 20 kArms for 1.0 second with initial peak of 40 kApeak

3. Schedule of tests

Tests Conducted	Clause no.	Reference			
Short time current test	Customer's requirement	Sheet	5	of	6

1. Oscillogram number(s)

: CPRIBPLSTNBMISC22T0312S002

2. Graph Number(s)

: Nil

3. Photograph Number(s)

: CPRIBPLSTNBMISC22T0312P01

4. Test Circuit diagram number(s)

: OLTS/TCD-STC-06

5. Drawing Number(s)

: Refer sheet 4 of 6

(Prabakaran T) Test Engineer





CPR1

Test Report Number

: CPRIBPLSTNBMISC22T0312

Date: 26 December 2022

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 drawings

SI. No.	Drawing Number	Sheet Number	Revision Number
1	PAS/22-23/117	-	01

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

(Prabakaran T)

Test Engineer

TEST REPORT



CPRI

Test Report Number

: CPRIBPLSTNBMISC22T0312

Date: 26 December 2022

Short time current test

Test conditions:

Condition of the sample before test

No. of poles

Source frequency

Transformer neutral &

short circuit point

New

Single 50 Hz

Refer test circuit diagram no. OLTS/TCD-STC-06

Test results:

Oscillogram Number	Short time current in kApk/kArms	Duration (second)	Equivalent current in kArms for 1.0 second
CPRIBPLSTNBMISC 22T0312S002	41.80/20.47	1.0	20.47

Observations:

During test

No abnormality

After test

No abnormality. Copper bonded earth electrode found intact.

Conclusion: The sample tested complies with the requirement of the customer for the tests conducted.

(Prabakaran T)

Test Engineer

TEST REPORT



CPRI

Test Report Number

: CPRIBPLSTNBMISC22T0312

Date: 26 December 2022

Note

- a) The test results relate only to the sample(s) tested.
- b) Publication or reproduction of the Test Report/ Test Certificate in any form other than by complete set of the whole Test Report/ Test Certificate and in the language written is not permitted without the written consent of CPRI.
- c) Any correction/erasure invalidates this Test Report/Test Certificate.
- d) Any anomaly/discrepancy in the Test Report/Test Certificate should be brought to the notice of CPRI within 45 days from the date of issue.
- e) All documents constituting the Test Report/Test Certificate are stitched together with a continuous silk thread/silk ribbon, the two ends of which have been brought over the front sheet of the Test Report/Test Certificate and sealed with a CPRI logo printer paper sticker/embossed.

(Prabakaran T)
Test Engineer
------End of Test Report ------

Central Power Research Institute

(Member of STL)



Test Report Number: CPRIBPLSTNBMISC22T0312

TEST RESULTS

14 kV

8.4

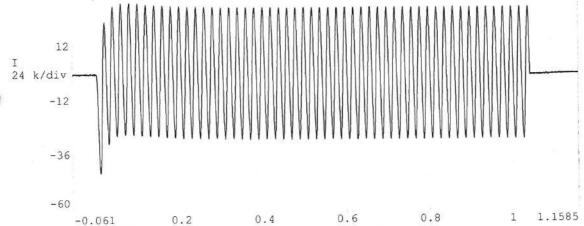
2.8

-8.4

-14 60

kA

36



200 ms/div

Oscillogram Number: CPRIBPLSTNBMISC22T0312S002

Test Engineer

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

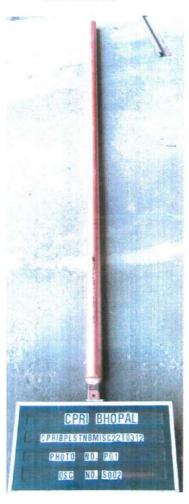
CENTRAL POWER RESEARCH INSTITUTE (MEMBER OF STL)



TEST REPORT

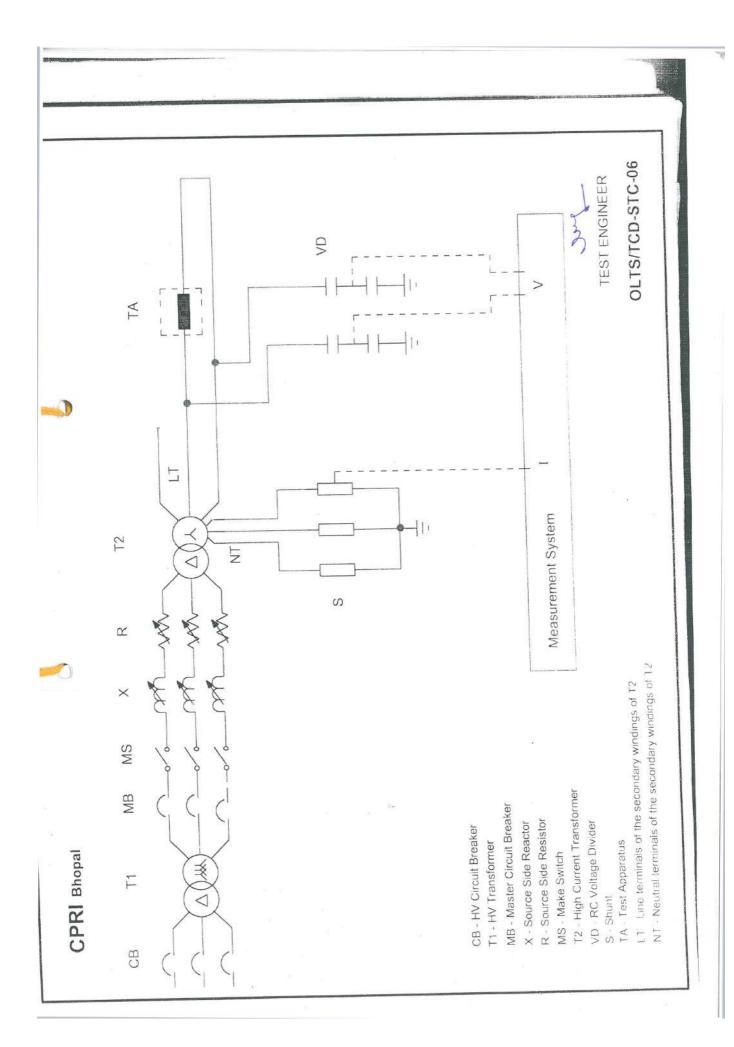
Test Report Number : CPRIBPLSTNBMISC22T0312

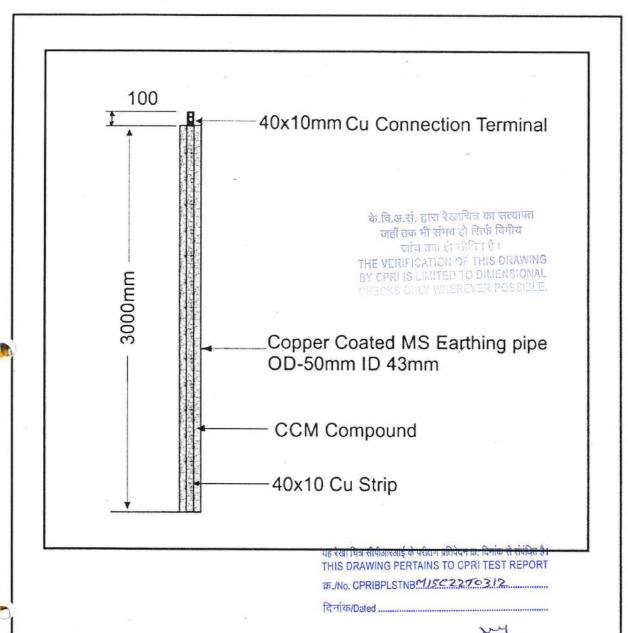
TEST RESULTS



Photograph Number : CPRIBPLSTNBMISC22T0312P01

Test Engineer





50mm Dia Copper Bonded Earth Electrode

Company Name and Address PANNA AND SONS 1826/01, Old Amarnath Building Bhagirath Palace, Delhi-110006 Factory Address: A-176, Harit Vihar, Pepsi Road,

Sant Nagar, Burari, Delhi-110084

परीक्षण इंजीनियर / Test Engineer

Drg No. PAS/22-23/117

Riev 01