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)



TEST REPORT

M/s. Infinite Electro Tech Pvt. Ltd.,

Ekkattuthangal, Chennai - 600 097,

M/s. Infinite Electro Tech Pvt. Ltd.,

Ekkattuthangal, Chennai - 600 097,

30 mm dia & 3000 mm Long Copper Bonded

Short-time withstand current and peak withstand current

29, Dhankodi Raja Street,

29, Dhankodi Raja Street,

Copper Bonded MS Earth Rod

Tamil Nadu, India.

Tamil Nadu, India.

MS Earth Rod

10th August, 2017

Customer's instruction

Mr. Anirudha Basu, GM

33 kA rms for 1.0 s & 83 kA peak

SC17S0598

Not applicable

SC171474

New

One

Dated: 17th August, 2017

Name & Address of the Customer

Test Report Number

Name & Address of the Manufacturer

Particulars of sample tested Condition of the sample on Receipt

Type Description of test sample

Serial Number(s) Number of samples tested Date (s) of test (s) CPRI sample code no(s).

Particulars of tests conducted

Test in accordance with Standard / specification Sampling plan Customer's requirement Deviations if any

Name of the witnessing persons

Customer's representative Other than customer's representative

Test subcontracted with address of the laboratory

Documents constituting this report (In words) Number of sheets Number of oscillograms Number of graphs Number of photos Number of test circuit diagrams Number of drawings

(Sakthivel.P) Test Engineer

None

One One

None

Four One Nil Two



(Swaraj Kumar Das) **Joint Director**

Sheet 1 of 4

SHORT CIRCUIT LABORATORY P.B.NO.8066, SADASHIVANAGAR POST OFFICE SIR C.V.RAMAN ROAD, BENGALURU - 560 080 (INDIA) Phone: +91 (0) 80 - 23607824 Fax: +91 (0) 80 - 236017824



Report Number: SC171474

Dated: 17th August, 2017

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

Test sample	Copper Bonded MS Earth Rod		
Туре			
Designation			
Serial Number			
Size & Length of Earth electrode	30 mm dia & 3000 mm Long Copper Bonded MS Earth Rod		
Short-time withstand current and peak withstand current	33 kA rms for 1.0 s & 83 kA peak		

Documents attached to this report

Oscillogram number(s)	SC171474.S01
Photograph number(s)	SC171474.PB1 & SC171474.PA1
Test circuit diagram number(s)	CRTL/SC/STC-01A
Drawing number (s)	CP30004

est Engineer

Sheet 2 of 4



Report Number: SC171474

Dated: 17th August, 2017

Schedule of test

SHORT-TIME WITHSTAND CURRENT AND PEAK WITHSTAND CURRENT

TEST CONDITIONS

Source Number of phases Frequency

Test sample Condition of the sample

Mounting

<u>Test details</u> Test circuit drawing number Short-circuit applied Short-circuit point Short-circuit generator Single 50 Hz

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

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

TEST RESULTS

Oscillogram Number	Currer	nt (kA)	Duration (s)	Observation
	peak	rms		
SC171474.S01	84.42	31.69*	1.14	During test: No Abnormality After test: No visible damage to earth rod.

*Equivalent to 33.83 kA rms for 1.0 s

Physical Inspection: No visible damage.

Test Engineer



Report Number: SC171474

b)

c) d) Dated: 17th August, 2017

NOTE

- a) The Test results relate only to the item(s) tested.
 - Publication or reproduction of this report in any form other than by complete set of the whole test report / Certificate and in the language written is not permitted without the written consent of CPRI.
 - Any Corrections / erasure invalidate the test Report/Certificate.
 - Any anomaly / discrepancy in the test report / Certificate should be brought to notice of CPRI within 45 days from the date of issue.

Additional Information:

This is not a certificate of rating. A certificate of rating is not issued as only limited tests as requested by the customer were carried out.

CPRI issues following types of reports/certificates:

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.

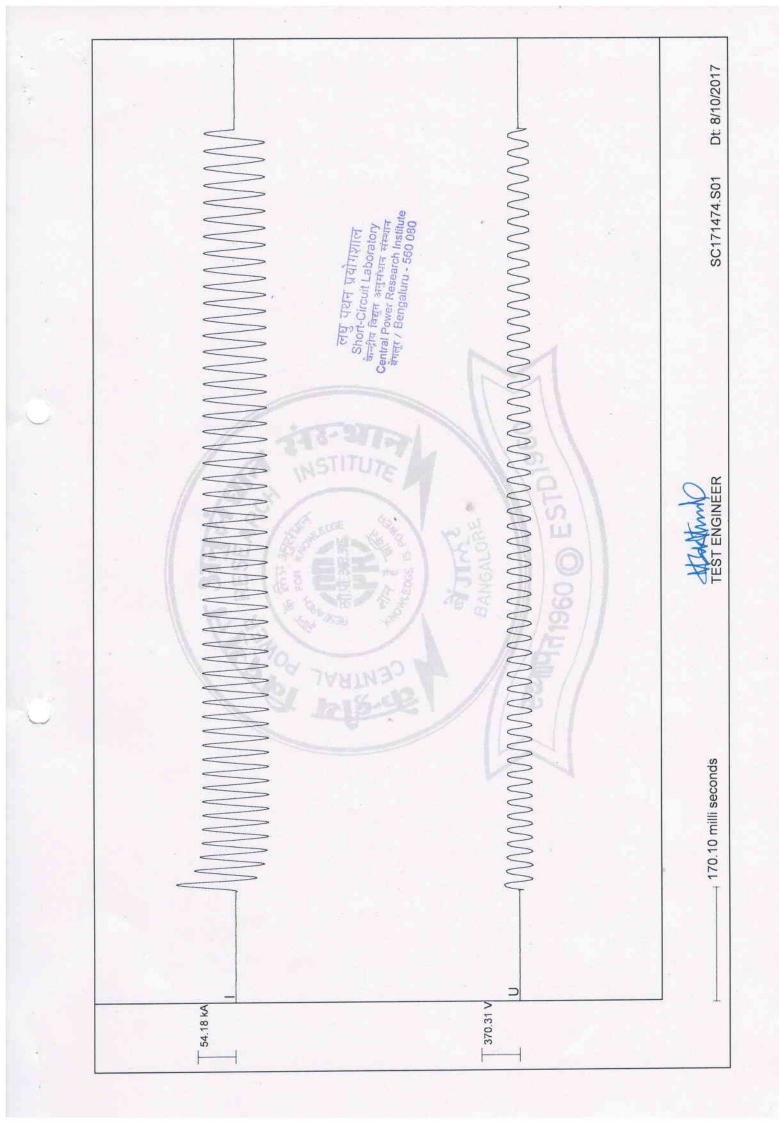
Sealed Certificate:

The sealed certificate is issued, on request and payment of the prescribed charges thereof only when the sample of particular type and rating has satisfactorily passed all the specified tests in compliance with the condition stipulated in a published National / International standard.

CPRI issues the following type test certificates based generally on STL Guidelines:

- I. Type test certificate of Short Circuit Performance.
- II. Type test certificate of Switching Performance.
- III. Type test certificate of Temperature Rise Performance.
- IV. Type test certificate of Dielectric Performance.
- V. Type test certificate of complete type test.

Sheet 4 of 4







Mounting arrangement (Before test)

SC171474.PB1

Test Engineer

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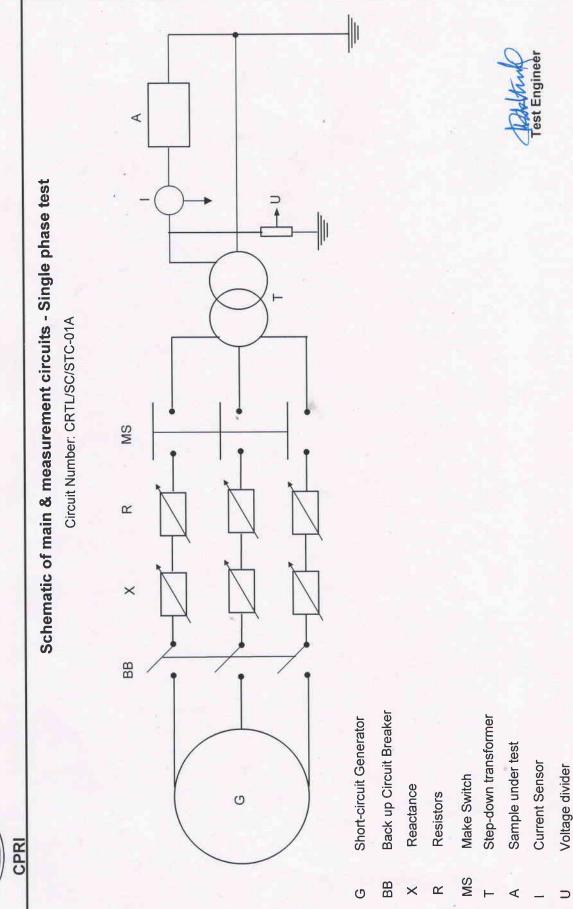
Condition of the sample (After test)

SC171474.PA1

Test Engineer

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COPPER COATING THICKNESS 250 MICRONS #29,DHANKODI RAJA STREET,EKKATTUTHANGAL DRAWING NO CP30004 M/s INFINITE ELECTRO TECH PVT LTD Ø30 COPPER BONDED MS EARTH ROD रिपोर्ट क्रमांक से संबंधित दस्तावेज Document Pertaining to Report No **Scs: जीरक् 3-4**...... GENERAL TOLERANCES +/-5% केति असे हम इस रेखापिक का सत्यापन जहाँ कही भी संगय हो सिर्म विमीय जार्द का ही सीमित है। THE VERIFICATION OF THIS DRAMING BY CPRI IS LIMITED TO DIMENSIONAL CHECKS ONLY WHEREVER POSSIBLE diagram and a marking the structure of CHENNAI-600097 ALL DIMENSIONS IN MM सी. पी. आर. आई./ CPRI SCALE amer / Bengaluru NTS NOTE : 20-07-2017 DATE TITLE: 6 0EQ 3000