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

Test Report Number

SC171476

Dated: 17th August, 2017

Name & Address of the Customer

M/s. Infinite Electro Tech Pvt. Ltd., # 29, Dhankodi Raja Street,

Ekkattuthangal, Chennai – 600 097,

Tamil Nadu, India.

Name & Address of the Manufacturer

M/s. Infinite Electro Tech Pvt. Ltd., # 29, Dhankodi Raja Street,

Ekkattuthangal, Chennai – 600 097.

Tamil Nadu, India.

Particulars of sample tested Condition of the sample on Receipt

GI Earth Rod

New

Type

Description of test sample

Serial Number(s)

Number of samples tested

Date (s) of test (s)

CPRI sample code no(s).

Strip-in-pipe

76 mm dia (OD) & 2190 mm long GI Earth Rod

One

One

10th August, 2017

SC17S0600

Particulars of tests conducted

Test in accordance with Standard / specification

Sampling plan

Customer's requirement

Deviations if any

Short-time withstand current and peak withstand current

Customer's instruction

Not applicable

25 kA rms for 1.0 s & 63 kA peak

Name of the witnessing persons

Customer's representative

Other than customer's representative

Mr. Anirudha Basu, GM

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 One

Number of test circuit diagrams Number of drawings

One

(Sakthivel.P)

Test Engineer

(Swaraj Kumar Das)
Joint Director



Report Number: SC171476

Dated: 17th August, 2017

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

Test sample

GI Earth Rod

Type

Strip-in-pipe

Serial Number

Size & Length of Earth electrode

76 mm dia (OD) & 2190 mm long GI Earth Rod

Rated short-time withstand current and

peak withstand current

25 kA rms for 1.0 s & 63 kA peak

Documents attached to this report

Oscillogram number(s)

SC171476.S01

Photograph number(s)

SC171476.PB1 & SC171476.PA1

Test circuit diagram number(s)

CRTL/SC/STC-01A

Drawing number (s)

PIPSHQG102



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Schedule of test

SHORT-TIME WITHSTAND CURRENT AND PEAK WITHSTAND CURRENT

TEST CONDITIONS

Source 5

Number of phases

Frequency

Short-circuit generator

Single

50 Hz

Test sample

Condition of the sample

Mounting

New

Horizontal, isolated from ground one of the earth rod

connected to source

Test details

Test circuit drawing number

Short-circuit Short-circuit point

CRTL/SC/STC-01A

On the other end of earth rod

Grounded

TEST RESULTS

Oscillogram Number	Current (kA)		Duration (s)	Observation
	peak	rms		
SC171476.S01	67.56	24.22*	1.11	During test: No Abnormality After test: No visible damage to earth rod.

*Equivalent to 25.52 kA rms for 1.0 s

Physical Inspection: No visible damage.



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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 / Certificate and in the language written is not permitted without the written consent of CPRI.
- c) Any Corrections / erasure invalidate the test Report/Certificate.
- d) 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:

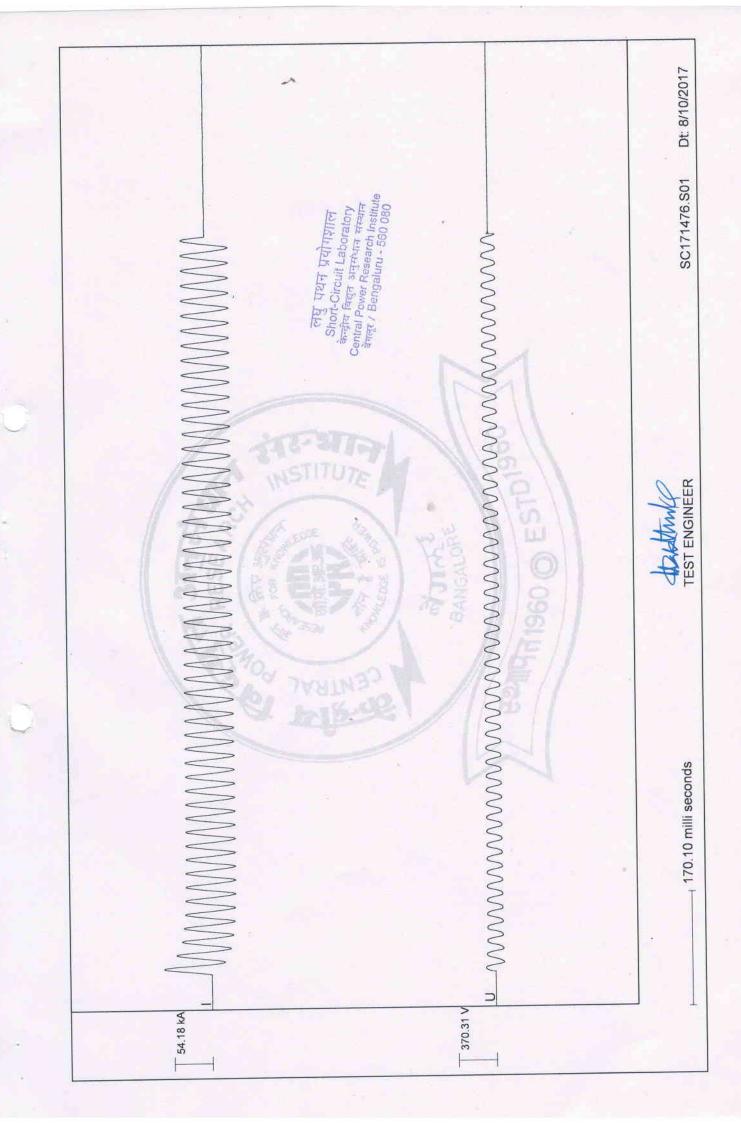
The test report contains the record of the values of test parameters as obtained during testing, the physical condition of the sample during / after the test(s) and copy of oscillogram(s). Test report is issued when partial tests are performed as against the complete test requirement for proving specific 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.







Mounting arrangement (Before test)
SC171476.PB1





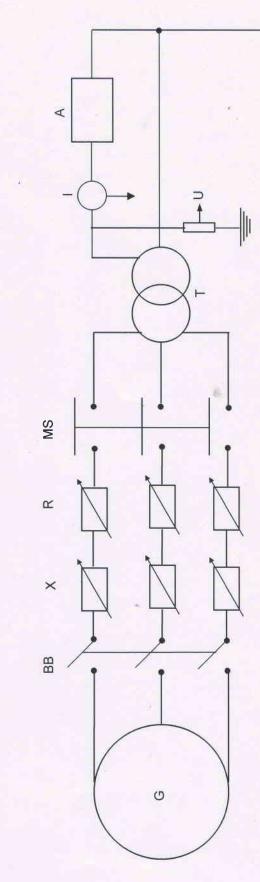
Condition of the sample (After test)

SC171476.PA1





Circuit Number: CRTL/SC/STC-01A



G Short-circuit Generator

B Back up Circuit Breaker

X Reactance

R Resistors

MS Make Switch
T Step-down transformer

Sample under test

Current Sensor

Voltage divider

