CPRI

TEST REPORT



Central Power Research Institute

(A Govt. of India Society)
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TEST REPORT

Test Report Number

SC11324B

Dated: 14th July, 2011

Name & Address of the Customer

M/s. Inter Tech.

B 83, Flatted Factory Complex, Okhla Industrial Estate, Phase III

New Delhi - 110 020.

Name & Address of the Manufacturer

M/s. Inter Tech.

B 83, Flatted Factory Complex, Okhla Industrial Estate, Phase III

New Delhi - 110 020.

Particulars of sample tested Condition of the sample on Receipt Earthing Electrode

New

Type

Serial Number

Designation

Number of samples tested

Date (s) of test (s)

CPRI sample code no(s).

Pre-casted INTESS' Earth Electrode

12th July, 2011

SC11S1143

Particulars of tests conducted

Test in accordance with

Standard / specification

Sampling plan

Customer's requirement

Deviations if any

Short-time current

Customer's instruction

Not applicable

20.0 kA rms for 1.0 s

Name of the witnessing persons

Customer's representative

Other than customer's representative

Mr. K. K. Gupta, Partner

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 Number of test circuit diagrams One Number of drawings One

(G. Venkataramanaiah) **Test Engineer**

AUTHORISED SIGNATORIES

Joint Director



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

Test sample

Earthing Electrode

Type

Designation

Pre-casted INTESS' Earth Electrode

Serial Number

Length & diameter of the Earthing electrode

3.0 m & 75.0 mm

Material of Casting

Conductive concrete 'MARCONITE'

Length & diameter of the Rod

3.0 m & 16.0 mm

Material of Rod

Copper

Rated short-time withstand current

20.0 kA rms for 1.0 s

Documents attached to this report

Oscillogram number (s)

SC11324B.S001

Photo number (s)

SC11324B.PB1 & SC11324B.PA1

Test circuit diagram number (s)

CRTL/SC/STC-01A

Drawing number (s)

IE 16 006 00



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Report Number: SC11324B

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Schedule of tests

SHORT-TIME CURRENT TEST

Test conditions

Source

Number of phases

Frequency

Test sample

Condition of the sample

Mounting

Test details

Test circuit number Short-circuit applied

Short-circuit point

Short-circuit generator

Single 50 Hz

In clean & new condition, one end of the Earthing electrode was

connected to source

Horizontal & isolated from earth

CRTL/SC/STC-01A

On the other end of the Earthing electrode

Test results

Oscillogram Number	Current (kA) Peak RMS		Duration (s)	Ambient Temp. °C	Observations
SC11324B.S001	39.66	22.69	1.10	29	During test: No abnormality After test: No visible damage to the Earthing electrode



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Mounting arrangement (Before test)

SC11324B.PB1



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Condition of the sample (After test)

SC11324B.PA1