

CPRI

TEST REPORT



Central Power Research Institute

(A Govt. of India Society)

P.B.No. 8066, Sadashivanagar Post Office,
Sir C.V. Raman Road,
Bangalore - 560 080 (INDIA)



**SHORT CIRCUIT LABORATORY
CENTRAL POWER RESEARCH INSTITUTE**

(Member of STL)

P.B.NO.8066, SADASHIVANAGAR POST OFFICE
SIR C.V.RAMAN ROAD, BANGALORE - 560 080 (INDIA)
Phone : +91 (0) 80 - 23602662 Fax : +91 (0) 80 - 23601213

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TEST REPORT

Test Report Number

SC11324A

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

Earthing Electrode

Condition of the sample on Receipt

New

Type

Designation

Pre-casted INTESS' Earth Electrode

Serial Number

Number of samples tested

One

Date (s) of test (s)

12th July, 2011

CPRI sample code no(s).

SC11S1144

Particulars of tests conducted

Short-time current

Test in accordance with

Customer's instruction

Standard / specification

Sampling plan

Not applicable

Customer's requirement

40.0 kA rms for 1.0 s

Deviations if any

Name of the witnessing persons

Customer's representative

Mr. K. K. Gupta, Partner

Other than customer's representative

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



(D. Krishnamurthy)

Joint Director

AUTHORISED SIGNATORIES



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Report Number: SC11324A

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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 & 100.0 mm
Material of Casting	Conductive concrete 'MARCONITE'
Length & diameter of the Rod	3.0 m & 40.0 mm
Material of Rod	Copper bonded steel
Rated short-time withstand current	40.0 kA rms for 1.0 s

Documents attached to this report

Oscillogram number (s)	SC11324A.S001
Photo number (s)	SC11324A.PB1 & SC11324A.PA1
Test circuit diagram number (s)	CRTL/SC/STC-01A
Drawing number (s)	IE 40 005 00


Test Engineer



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Report Number: SC11324A

Schedule of tests

SHORT-TIME CURRENT TEST

Test conditions

Source

Number of phases
Frequency

Short-circuit generator
Single
50 Hz

Test sample

Condition of the sample

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

Mounting

Horizontal & isolated from earth

Test details

Test circuit number
Short-circuit applied
Short-circuit point

CRTL/SC/STC-01A
On the other end of the Earthing electrode
Grounded

Test results

Oscillogram Number	Current (kA)		Duration (s)	Ambient Temp. °C	Observations
	Peak	RMS			
SC11324A.S001	80.52	40.13	1.11	29	During test: No abnormality After test: No visible damage to the Earthing electrode


Test Engineer



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Mounting arrangement (Before test)

SC11324A.PB1


Test Engineer



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Condition of the sample (After test)

SC11324A.PA1

Keb
Test Engineer