

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

Sheet 1 of 4

CPRI

TEST REPORT

Test Report Number	SC11324A	Dated: 14 th 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)	12 th July, 2011	
CPRI sample code no(s).	SC11S1144	
Particulars of tests conducted	Short-time current	
Test in accordance with Standard / specification	Customer's instruction	
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



CPRI

**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

Sheet 2 of 4

Report Number: SC11324A

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



CPRI

**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

Sheet 3 of 4

Report Number: SC11324A

Schedule of tests

SHORT-TIME CURRENT TEST

Test conditions

Source Short-circuit generator
Number of phases Single
Frequency 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 CRTL/SC/STC-01A
Short-circuit applied On the other end of the Earthing electrode
Short-circuit point 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

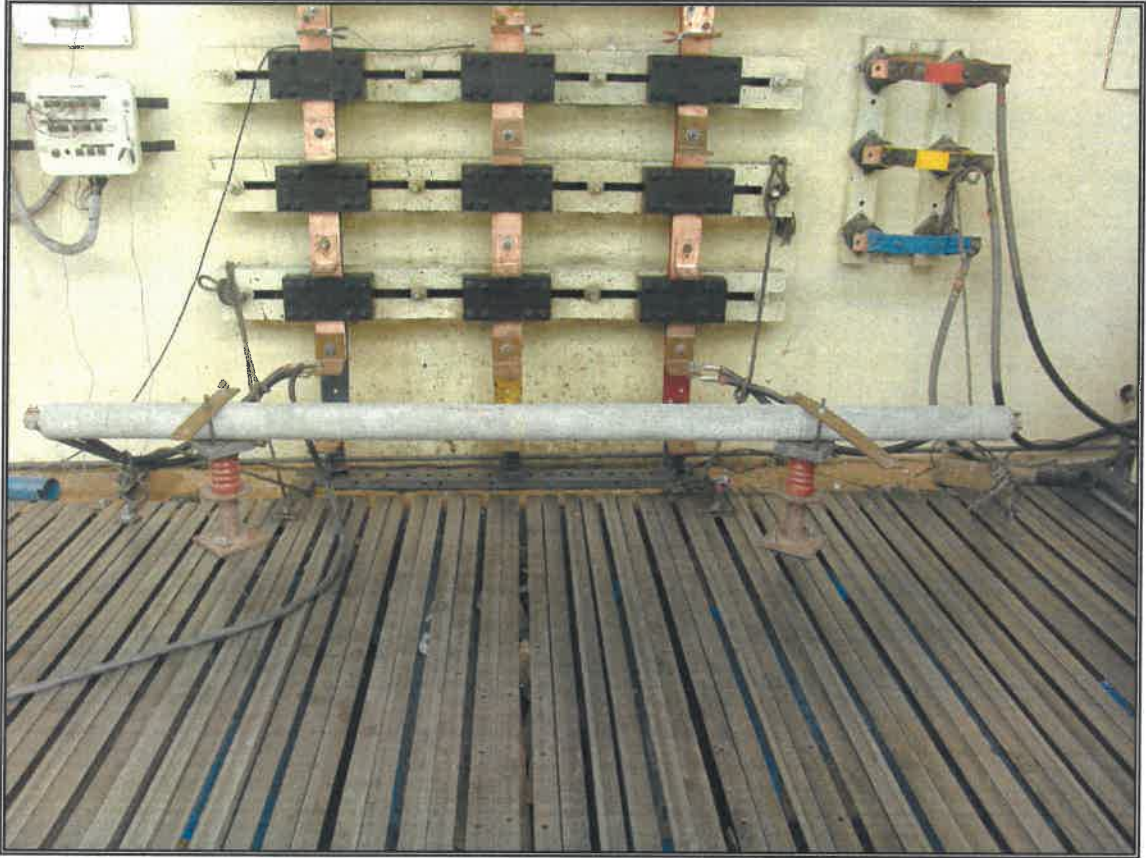


CPRI

**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



Mounting arrangement (Before test)

SC11324A.PB1

Keb
Test Engineer



CPRI

**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



Condition of the sample (After test)

SC11324A.PA1

Keb
Test Engineer