



CPRI

**HIGH VOLTAGE DIVISION
CENTRAL POWER RESEARCH INSTITUTE**

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MEMBER STL



**NABL Accredited
Laboratory**
Certificate No. T-0010

Sheet 1 of 3

TEST REPORT

Test Report Number : 43/1/2010-HV/7719/NIE. Dated: 16-04-2010.

Name & Address of the Customer's : M/s NIE Power & Engineering (P)Ltd
B-40,KSSIDC Industrial Estate
Kumbalgodu
Bangalore-560074
Ref:NIE/Bng

Dated:08-03-2010

Name & Address of the Manufacturer : M/s NIE Power & Engineering (P)Ltd
B-40,KSSIDC Industrial Estate
Kumbalgodu
Bangalore-560074

Particulars of sample tested

Condition of the sample on Receipt : New.
Type : Indoor Switchgear.
Designation : 11KV, 3-Phase, SF6 Switchgear panel with SF6 breaker with non metallic shutter.
Serial Number : Cubicle-SL-01.
Number of samples tested : One.
Date (s) of Test (s) : 08-03-2010
CPRI sample code no(s). : HVML 2010 S0076

Particulars of tests conducted : Lightning Impulse Voltage Withstand.

Test in accordance with Standard / specification : IS 3427/1997 RA 2007

Sampling plan : Not Applicable.

Customer's requirement : Nil.

Deviations if any : Nil.

Name of the witnessing persons

Customer's representative : None

Other than Customer's representatives : None

Test subcontracted with address of the laboratory : None

Documents constituting this report (In words)

Number of sheets : Three.

Number of oscillogram/s : Thirty one.

Number of graphs : Nil.

Number of photos : Nil.

Number of test circuit diagrams : Nil.

Number of drawings : Eight({Drg.No.1)T-01-01, 2)I-01, 3)T-03-01, 4)T-03-02, 5)T-03-03, 6) T-02, 7)T-03.

(K.R.DASHARATHI)
Test Engineer



(P. V. VASUDEVAN NAMBUDIRI)
Additional Director

AUTHORISED SIGNATORIES



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TEST REPORT

Test Report Number	: No.43/1/2005-HV/2892/NIE	Dated: 22-12-2005.
Name & Address of the Customer	: M/s. NIE Power & Engineering (P) Ltd, B-40, KSSIDC Industrial Estate, Kumbalagodu, Bangalore - 560 074. Ref: NIEPE-CPRI-002.	
		Dated: 01-12-2005.
Name & Address of the Manufacturer	: M/s. NIE Power & Engineering (P) Ltd, B-40, KSSIDC Industrial Estate, Kumbalagodu, Bangalore - 560 074.	
Particulars of Sample tested.		
Condition of sample on Receipt.	: New.	
Type	: Indoor.	
Designation	: 12KV, 1250A Three Phase Metal Clad Switchgear with VD4 ABB Breaker with earthed metallic Shutter.	
Serial Number.	: 001.	
No. of samples tested	: One.	
Date(s) of Test(s)	: 21/12/2005.	
CPRI Sample Code Number.	: SC05S2741.	
Particulars of tests conducted		
Test in accordance with standard/ Specification.	: Lightning Impulse Voltage Withstand Test. IEC 62271-200/ 2003.	
Sampling plan	: Not Applicable.	
Customer's requirement	: Nil.	
Deviations if any	: Nil.	
Name of the witnessing persons		
Customer's representatives	: Nil.	
Other than customer's representatives	: Nil.	
Tests subcontracted with	: Nil.	
Address of the laboratory.	: Nil.	
Documents constituting this report		
(in words)		
Number of Sheets	: Three.	
Number of oscillogram/s	: Twenty.	
Number of graphs	: Nil.	
Number of photo/s	: Nil.	
Number of Test Circuit Diagrams	: Nil.	
Number of Drawings	: One (Drawing No's. NIEPE/001/TT/05)	

(K.G.VENKATESH)
Test Engineer

(P.V.VASUDEVAN NAMBUDIRI)
Joint Director

AUTHORISED SIGNATORIES



CPRI

SHORT CIRCUIT LABORATORY CENTRAL POWER RESEARCH INSTITUTE

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Sheet 1 of 1

Provisional report

Report Number SC05514A dated : 21st December, 2005

Customer / Manufacturer M/s. NIE Power & Engineering Pvt. Ltd.,
B-40, KSSIDC, Industrial Estate,
Kumbalagodu, Bangalore-560 074.

Date of test 2nd December, 2005

Test apparatus M.V. Switchgear Panel with Vacuum Circuit Breaker
Designation Switchgear cubicle
Serial number 001
Sample number SC04S2741
Rated voltage 12 kV a.c.
Rated insulation level 28/75kV
Rated current 1250A
No. of phases Three
Rated frequency 50Hz
Details of VCB 12kV, 1250A, Type VD4 12.12.25 Sl. No. V8293, ABB make
Rated short-time withstand
& peak withstand current 26.3kA rms for 1.0 second & 65.75kA peak

Test Conducted Short-time withstand current & peak withstand current tests
Tested as per Sub-clause 6.6 of IEC 62271-200:2003
Rating for which tested 26.71kA rms for 1.06 seconds & 67.28kA peak
During test No abnormality
After test VCB operable on no-load

Drawing numbers NIEPE/001/TT/05

Measurement of resistance of the main
circuit before & after the STC test Within the limits

Power frequency high voltage withstand test Withstood 28kV rms for 1.0 minute

Physical Inspection

Condition of bus-bars No visible damage or deformation
Condition of supports No visible damage
Condition of VCB No visible damage
Condition of draw-out contacts No visible damage

THIS IS ONLY A PROVISIONAL REPORT, detailed report follows:

Test Engineer