



CPRI

# Central Power Research Institute (Member of STL)

SWITCHGEAR TESTING & DEVELOPMENT STATION  
GOVINDPURA, BHOPAL-462023, INDIA

Phone: +91(0)755 2586682 Fax: +91(0)755 2587774



Certificate No. T-0011

## TEST REPORT

Sheet 1 of 5

|   |   |        |             |
|---|---|--------|-------------|
| <b>Test Report Number</b>                             | S2100573  | Date : | 12 JUL 2010 |
| <b>Name &amp; address of the Customer</b>             | M/s Vikas Controls & Switchgears,<br>G1-20, Udyog Vihar, Sukher,<br>Udaipur – 313 004 |        |             |
| <b>Name &amp; address of the Manufacturer</b>         | M/s Vikas Controls & Switchgears,<br>G1-20, Udyog Vihar, Sukher,<br>Udaipur – 313 004 |        |             |
| <b>Particulars of sample tested</b>                   | 12 kV, 1250A, Switchgear Cubicle  |        |             |
| <b>Condition of sample on Receipt</b>                 | New   |        |             |
| Type  | Extendable  |        |             |
| Designation   | Nil   |        |             |
| Serial number   | Nil   |        |             |
| Number of samples tested                              | One   |        |             |
| Date(s) of Test(s)                                    | 14 <sup>th</sup> June, 2010   |        |             |
| CPRI sample code no.                                  | STDSST210S0827  |        |             |
| <b>Particulars of tests conducted</b>                 | Short time withstand current and peak withstand current tests                         |        |             |
| <b>Test in accordance with Standard/specification</b> | As per cl. 6.6 (a) of IEC 62271-200, 2003   |        |             |
| Sampling plan   | Not applicable  |        |             |
| Customer's requirement                                | Test on main circuit only.  |        |             |
| Deviations if any                                     | Nil   |        |             |
| <b>Name of the Witnessing persons</b>                 |   |        |             |
| Customer's representative                             | Shri P.K. Geetey & Shri Dilip Soni  |        |             |
| Other than customer's representatives                 | Nil   |        |             |
| Test subcontracted with address of the laboratory     | None  |        |             |
| <b>Documents constituting this report (in words)</b>  |   |        |             |
| Number of sheets                                      | Five  |        |             |
| Number of oscillograms                                | One   |        |             |
| Number of graphs                                      | Nil   |        |             |
| Number of photos                                      | One   |        |             |
| Number of Test circuit diagrams                       | One   |        |             |
| Number of drawings                                    | Four  |        |             |

*A.K. Khanra*  
(A.K.KHANRA)  
TEST ENGINEER



*Anupam Awasthi*  
(ANUPAM AWASTHI)  
JOINT DIRECTOR

AUTHORISED SIGNATORIES



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## Summary of test

|                                    |   |
|------------------------------------|---|
| Test conducted                     | Short time withstand current and peak withstand current tests |
| Rating for which tested            | 26.3 kArms for 3.0 second with initial peak of 65.75 kA       |
| Documents constituting this report |   |
| Oscillogram numbers                | S2100573.S02  |
| Photograph numbers                 | P-1   |
| Test circuit diagram numbers       | OLTS/TCD-STC-05   |
| Drawing numbers                    | VCS/HT/01Rev.01, VCS/HT/02,<br>VCS/HT/03, VCS/HT/04Rev.01     |

  
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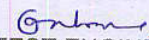
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**Ratings assigned by manufacturer**

|                           |   |
|---------------------------|---|
| Test sample               | 12 kV, 1250A, Switchgear Cubicle                        |
| Type                      | Extendable  |
| Designation               | Nil   |
| Serial number             | Nil   |
| Rated operational voltage | 12 kV   |
| Rated current             | 1250 A  |
| Rated insulation voltage  | 28 kVrms / 75 kVpk                                      |
| Rated frequency           | 50 Hz   |
| Number of phases          | Three   |
| Rated short-time current  | 26.3 kArms for 3.0 second with initial peak of 65.75 kA |

  
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## Short time withstand current and peak withstand current tests

### Test conditions:

Condition of the sample : New  
No. of phases : Three  
Source frequency : 50Hz.  
Transformer neutral & : See test circuit diagram no. OLTS/TCD-STC-05  
short circuit point

### Test results:

| Oscillogram Number                | Peak kA (in R -phase) | RMS in kA      |                |                | Duration (second) | Average current in kArms |
|-----------------------------------|-----------------------|----------------|----------------|----------------|-------------------|--------------------------|
|                                   |                       | I <sub>r</sub> | I <sub>y</sub> | I <sub>b</sub> |                   |                          |
| S2100573.S02                      | 67.24                 | 27.19          | 27.05          | 27.01          | 3.0               | 27.08                    |
| (Three phase test on main busbar) |                       |                |                |                |                   |                          |

### Observations

During test : No abnormality.  
After test : No abnormality. All busbars and supports intact.

Remarks: After test the equipment withstood HV test at 28 kVrms for one minute as per standard.

Conclusion : The test results indicate that the sample tested complies with the requirement of cl. 6.6 (a) of the standard.

*G. Sharma*  
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## Note

- a) The test results relate only to the item(s) tested.
- b) Publication or reproduction of this test report/ certificate in any form other than by complete set of the whole report and in the language written, is not permitted without the written consent of CPRI.
- c) Any correction/erasure invalidates this test report/certificate.
- d) Any anomaly/discrepancy in this test report/certificate should be brought to our notice within 45 days from the date of issue.
- e) The verification of the sample drawings by CPRI is limited to dimensional checks only wherever possible.
- f) CPRI issues two kinds of documents:

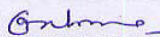
### Test Report:

The test report will contain the record of the values of test parameters as obtained during testing, the physical condition of the apparatus during testing, the physical condition of the apparatus during/after the test(s), copy (ies) of Oscillogram(s), record of supplementary test(s) if any conducted but no certification on the performance of the apparatus tested.

### Type Test Certificate:

The test certificate is issued, on request and payment of the prescribed charges only when the apparatus of particular type and rating has satisfactorily passed all the specified tests in compliance with condition stipulated in a published National/International Standards.

- g) All Documents constituting this test report/certificate are stitched together with a continuous silk thread/ribbon, the two ends of which have been brought over the front sheet of this test report/certificate and sealed with a CPRI logo printed paper sticker/embossed.

  
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