

**CENTRAL POWER RESEARCH INSTITUTE
SWITCHGEAR TESTING & DEVELOPMENT STATION
GOVINDPURA, BHOPAL-23**

PROVISIONAL TEST REPORT

21 DEC 2017

Test Report No. & Date : 2017/STN-1/618
Customer, his reference and address : M/s S & S Power Switchgear Equipment Ltd.,
No: 4 EVR Street, Sedarapet,
Puducherry – 605 111 (India)
Manufacturer, his reference & address : M/s S & S Power Switchgear Equipment Ltd.,
No: 4 EVR Street, Sedarapet,
Puducherry – 605 111 (India)
Particulars of sample tested : Earth Switch for 420kV, 4000Amps Double break
Disconnecter
Designation : Earth Switch 420kV
Type : DEE (Direct Entry Type)
Sample code No. : STDSST117R1S0557
Drawing No (s) : 3D8G355/TTST REV. A, 3D8H201/TTST REV. A
3D8E006/TTST REV. A, 3D8E005/TTST REV. A
3UCD027/TTST REV. A, 3D8P001/TTST REV.A
3D8I001/TTST REV. A
Drawing numbers under revision : 3D8E006/TTST REV, 3D8P001/TTST REV.A
Serial Number : 001E
Date (s) of test(s) : 15th & 18th December, 2017
No. of samples tested : One
Test conducted : Short time withstand current & peak withstand current test.

Particulars of test conducted : Short time withstand current and peak withstand current test was conducted on Earth Switch of 420kV Double break disconnecter at 63kArms for one seconds with an initial peak of 161kA. No abnormality noticed during the test. Earth Switch operable on no load. Contacts found in good conditions.

Test in accordance with/ Standard/specification : As per Clause 6.6 of IEC: 62271-102, 2001 and as per Customer's requirement.
Customer's requirement/Deviations if any : 1. Only Earth Switch of Disconnecter to be tested at 63kA for 1.0 Sec(s). with an initial peak of 161kApeak.
2. After Short Time withstand current and peak withstand current test, Earth Switch to be operated manually through gear box mechanism.

Name of the witnessing persons :
Customer's representative : 1) Mr. J. Sathish Kumar (Engineer)
2) Mr. Mohan Singh Bist (Manager Mechanical Design)
Other than Customer's representative : None
Remarks : Nil



TEST ENGINEER



ADDITIONAL DIRECTOR

NOTE:

- a) This is only a provisional report of test(s) performed, the final report will be issued separately.
b) Corrections/erasings invalidate the test report.

अपर निदेशक
Add. Director
केन्द्रीय विद्युत अनुसंधान संस्थान
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Govindpura, Bhopal (M.P.)- 462023

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GOVINDPURA, BHOPAL-23**

PROVISIONAL TEST REPORT

21 DEC 2017

Test Report No. & Date : 2017/STN-1/608
Customer, his reference and address : M/s S & S Power Switchgear Equipment Ltd.,
No: 4 EVR Street, Sedarapet,
Puducherry – 605 111 (India)
Manufacturer, his reference & address : M/s S & S Power Switchgear Equipment Ltd.,
No: 4 EVR Street, Sedarapet,
Puducherry – 605 111 (India)
Particulars of sample tested : 420kV, 4000A, 63kA, Double break Disconnecter
Designation : Double break Disconnecter
Type : RD420
Sample code No. : STDSST117S0556
Drawing No (s) : 3D8G355/TTST REV. A, 3D8H201/TTST REV. A
3D8E006/TTST REV. A, 3D8E005/TTST REV. A
3UCD027/TTST REV. A, 3D8P001/TTST REV.A
3D8I001/TTST REV. A
Drawing numbers under revision : 3D8E006/TTST REV, 3D8P001/TTST REV.A
Serial Number : --
Date (s) of test(s) : 07th & 18th December, 2017
No. of samples tested : One
Test conducted : Short time withstand current & peak withstand current test.

Particulars of test conducted : Short time withstand current and peak withstand current test was conducted on Double break disconnecter at 63kArms for one seconds with an initial peak of 161kA. No abnormality noticed during the test. Double break Disconnecter operable on no load. Contacts found in good conditions. Measurement of resistance of main circuit taken at 100A DC before & after test. Before test measured value was (for longest path) 45.60 micro Ohms at 20°C & after test 46.32 micro Ohms at 19°C respectively.

Test in accordance with/ Standard/specification : As per Clause 6.6 of IEC: 62271-102, 2001 and as per Customer's requirement.
Customer's requirement/Deviations if any : 1. Only Disconnecter to be tested at 63kA for 1.0 Sec(s). with an initial peak of 161.0kApeak.
2. After short circuit time current withstand and peak withstand current for disconnecter to be operated manually through gear box mechanism.
Name of the witnessing persons :
Customer's representative : 1) Mr. J. Sathish Kumar (Engineer)
2) Mr. Mohan Singh Bist (Manager Mechanical Design)
Other than Customer's representative : None
Remarks : Nil


TEST ENGINEER


ADDITIONAL DIRECTOR

NOTE:

- a) This is only a provisional report of test(s) performed, the final report will be issued separately.
b) Corrections/erasings invalidate the test report.

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