



ADITYA BIRLA INSULATORS

(A Unit of Aditya Birla Nuvo Ltd.)

Works: P.O. Prabhas Nagar – 712249, Rishra, Dist: Hooghly,
West Bengal, India. Phone: 91-33-2672-3535/3638/2858/2593
Fax: 91-33-26722705, Website :www.adityabirlainsulators.com



NABL Accredited Laboratory
ISO/IEC 17025 : 2005
Certificate No. : T-1865

ELECTRICAL LABORATORY TEST REPORT

TEST REPORT NO: ABI/HV/626 Dated:20.01.2017

TEST CONDUCTED : MECHANICAL STRENGTH TEST

COMMODITY : 210 KN HVDC Disc Insulator with Zinc Sleeve as per Drg.No.JS-D606/Z Rev.0

CUSTOMER : PowerGrid Corporation of India Limited.

P.O. NO 6900001841, Dated 05/08/2016

L.O.A. NO N1/C&M/16-17/PROJ/62 Dated: 05.08.2016

PROJECT: SUPPLY OF HARDWARE FITTINGS AND ACCESSORIES OF CONDUCTOR & EARTHWIRE AT VARIOUS LOCATIONS IN NR-1

DETAILS OF STRING: ±500KV HVDC QUADRUPLE TENSION HARDWARE STRING FOR ACSR QUADRUPLE LAPWING

INSULATOR STRING : 210 KN HVDC DISC INSULATORS (4X41)


INSULATOR DRAWING NO: JS-D606/Z REV.0

HARDWARE Drg. NO.: QTQ-500 (IAC ELECTRICAL PVT.LTD)

DATE OF TESTING: 20.01.2017

NOTE: Hardware sample signed by S.K Yadav, Dy. Manager (TL) Powergrid , NR1

TEST WITNESSED BY :


K.S.Rai
Asst.GM
PGCIL, Bhiwadi


S.Chatterjee
Manager (QC)
IAC Electricals Pvt.Ltd.,

TEST CONDUCTED BY :


Paulami Gupta
Sr.Engineer (TESTING)
ABI,RISHRA



Note :-

- 1) Test results relate only to the item tested.
- 2) This certificate shall not be reproduced in part or full without written permission of the Management.



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L.O.A. NO	N1/C&M/16-17/PROJ/62 Dated: 05.08.2016	
P.O. NO	6900001841, Dated 05/08/2016	
SPECIFICATION :	PGCIL SPECIFICATION	
DETAILS OF STRING:	±500KV HVDC QUADRUPLE TENSION HARDWARE STRING FOR ACSR QUADRUPLE LAPWING	
INSULATOR STRING :	210 KN HVDC DISC INSULATORS (4X41)	
INSULATOR DRAWING NO:	JS-D606/Z REV.0	
HARDWARE Drg. NO.:	QTQ-500 (IAC ELECTRICAL PVT.LTD)	

The above said string was erected on a 100 Ton Tensile Testing Machine. The string was subjected to a tensile load equal to 50% of the U.T.S rapidly and smoothly. Then the load was increased to 67% of U.T.S. This load was maintained for five minutes. The load was then released and complete string components were checked for any crack or any deformation resulted during the testing if any. Then the string was again subjected to a load equal to 100% of U.T.S and this load was maintained for one minute. The load was then further increased till failure.

OBSERVATIONS :

LOAD APPLIED	'LOAD (in KN)	Duration	REMARKS
50% Load of U.T.S	420 KN	Smoothly	Withstood
67% Load of U.T.S	563 KN	5 minutes	Withstood
100% Load of U.T.S	840 KN	1 minute	Withstood
FINAL LOAD	940 KN	5Th Insulator Broken	

TEST WITNESSED BY :

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Asst.GM
PGCIL, Bhiwadi

S.Chatterjee
Manager (QC)
IAC Electricals Pvt.Ltd.,

TEST CONDUCTED BY :

Paulami Gupta
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ABI,RISHRA Page 2 of 2

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