



## ADITYA BIRLA INSULATORS

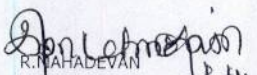
(A Unit of Aditya Birla Nuvo Ltd.)


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

### ELECTRICAL LABORATORY TEST REPORT

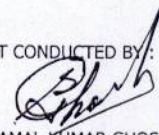
**TEST REPORT NO:** ABI/HV/S0001 dated 08.05.2014  
**TEST CONDUCTED :** MECHANICAL STRENGTH TEST  
**PURCHASER:** TAMIL NADU TRANSMISSION CORPORATION (TANTRANSCO)  
**CONTRACTOR:** M/s KALPATARU POWER TRANSMISSION LIMITED  
**LOA NO:** CE/C/TR/SE/C/1/TR/EEC3/400KV/A1/F T-1767/D 802/13 AND  
D 803 13 DATED 05.10.2013  
**SPECIFICATION :** TNEB SPECIFICATION  
**DETAILS OF STRING:** 400KV Single Tension String for Quad ACSR Moose Conductor  
**INSULATOR STRING :** 120 KN ANTI-FOG DISC INSULATORS (1X24 )  
**INSULATOR DRAWING NO:** JS-D101 /Z Rev.1  
**HARDWARE Drg. NO.:** AT-604Q/A (ASBESCO (INDIA) PVT.LTD.KOLKATA)  
**Testing Date :** 08.05.2014

TEST WITNESSED BY :

  
R. MAHADEVAN  
EE/INSPECTION  
MM-1/TANGEDCO

  
BIDYUT KAR  
INSPECTOR (QA&I)  
ASBESCO(I)PVT.LTD.

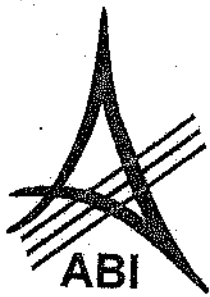
TEST CONDUCTED BY :

  
SHYAMAL KUMAR GHOSH  
ASST. MANAGER (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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**ELECTRICAL LABORATORY**  
**TEST REPORT**

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PURCHASER: TAMIL NADU TRANSMISSION CORPORATION (TANTRANSO)  
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DETAILS OF STRING: 400kv Single Tension String for Quad ACSR Moose Conductor  
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INSULATOR DRAWING NO: JS-D101 /Z Rev.1  
HARDWARE Drg. NO.: AT-604Q/A (ASBESCO (INDIA) PVT.LTD.KOLKATA)

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 :**

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LOAD APPLIED	LOAD (in KN)	Duration	Remarks
50% Load of U.T.S	60 KN	Smoothly	Satisfactory
67% Load of U.T.S	82 KN	5 minutes	Satisfactory
100% Load of U.T.S	120KN	1 minute	Satisfactory
FINAL LOAD	147KN	7TH Insulator Broken from line side.	

TEST WITNESSED BY :

*R. Mahadevan*  
R. MAHADEVAN  
EE/INSPECTION  
MM-I/TANGEDCO 8/5/14

*Bidyut Kar*  
BIDYUT KAR  
INSPECTOR (QA&I)  
ASBESCO(I)PVT.LTD.

TEST CONDUCTED BY :

*Shyamal Kumar Ghosh*  
SHYAMAL KUMAR GHOSH  
ASSL. MANAGER (TESTING)  
ABI, RISHRA



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