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Bazet, August 24<sup>th</sup>, 2010

**TEST REPORT**  
**N° 1578-10**

**VIBRATION TEST**  
**FOR POWER GRID PROJECT :**  
**800 kV HVDC TRANSMISSION LINE**  
**CONTRACT C-61914-L079-7/G-10/CA-I/3172**

F. DEGIOANNI  
Test supervisor

S. ROUDÉ  
Head of the test laboratory

Test ref. : n° 3797.

Customer : SEDIVER S.A. (Nanterre, France).

The tests were performed in Centre d'Essais de Bazet (France) from July 24<sup>th</sup> to 29<sup>th</sup> 2010.

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## VIBRATION TEST

Insulator Package - I5  
for Supply of 420 kN DC Antifog disc  
Insulators for Gorakhpur - Agra section  
of  $\pm 800$  kV HVDC  
Bipole Biswanath Chariyali - Agra  
Transmission Line associated with  
North Eastern - Northern/Western  
Interconnector-I Project

CONTRACT C-61914-L079-7/G-10/CA-I/3172  
dated 18.12.2009

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## 1 – TESTED MATERIAL

- 800 kV HVDC single “Y” suspension h/ware fittings suitable for hexagonal ACSR LAPWING with 2 x (45+22) F 420 P/C 205 DR disc insulators.

*See ASBESCO drawing N° ASS-910'Y' Rev. 2 on page 9  
See photo on page 10*

- 800 kV HVDC triple tension h/ware fittings suitable for hexagonal ACSR LAPWING with 3 x 64 F 420 P/C 205 DR disc insulators.

*See ASBESCO drawing N° ATT-916 Rev. 3 on page 12  
See photo on page 13*

*The vibrations tests were performed at the same time.*

Insulators manufactured by : Zigong Sediver Toughened Glass Insulator Co. Ltd. (Zigong, China).

Insulator F 420 P/C 205 DR

*See Sediver drawing N° ENG 68818 on page 5*

Fittings manufactured by : ASBESCO (Kolkata, India).

The insulators are selected by PGCIL.