



## HIGH VOLTAGE AND SHORT CIRCUIT LABORATORY, NTDC, RAWAT-ISLAMABAD

No.HV/SC/Lab/TR/HV/41-45

Dated: 04.02.2014

# TEST REPORT

### TYPE TESTS PERFORMED ON 11 kV TERMINATION KIT

1. **Client** : M/S Associated Commercial Agencies (Pvt.) Ltd., (ACA) Lahore
2. **Specimen identification**
  - **Type** : Indoor/Outdoor Termination Kit 500 mm<sup>2</sup> (1000 MCM), Single Core (Unarmored)
  - **Make** : M/S Elastimold Egypt (EISewedy SEDCO, Egypt)
  - **Rating** : 11 kV
  - **Serial No.** : 1C35MTGIJB 500021/1C35MTGOJB 500041 respectively
  - **Purchaser** : Prototype
  - **Purchase order/date** : -
  - **Supplied by (other than manufacturer)** : M/S Associated Commercial Agencies (Pvt.) Ltd., (ACA) Lahore
3. **Relevant test standard(s)/spec.** : P-184:86, IEC-60502-4:2010, IEEE Std. 48:2009 & IEEE- Std. 404:2012
4. **Tests performed on** : Jan. 20-Feb. 04, 2014
5. **Test outcome** : Given in Table below:

Table: Outcome of Tests performed.

S. No	Tests performed	Requirements	Results	Remarks
1.	Power frequency voltage one min. (dry) withstand test.	No breakdown or flashover shall occur at 50 kV.	Withstood	Pass
2.	Power frequency voltage withstand 10 sec (wet) test.	No breakdown or flashover shall occur at 45 kV for 10 s.	Withstood	Pass (Applicable only for outdoor termination).
3.	Power frequency voltage 6 hour dry withstand test.	No breakdown or flashover shall occur at 35 kV.	Withstood	Pass
4.	Partial discharge test.	The magnitude of partial discharge shall not exceed 5 pC at 13 kV.	PD free	Pass
5.	Lightning impulse voltage withstand test at 110 kV.	No breakdown or flashover shall occur during 10 applications for both +ve & -ve polarities at 110 kV.	Withstood	Pass
6.	Direct voltage withstand (dry) test for 15 min.	No breakdown or flashover shall occur at 75 kV DC.	Withstood	Pass
7.	Radio influence voltage (RIV) test.	RIV should not exceed 50 $\mu$ V when the sample is energized at 10 kV.	Within specified limit	Pass