

VEIKI-VNL ELECTRIC LARGE LABORATORIES LTD.



No. 6660 /VNL

Test report

**Dielectric and mechanical type tests on solid core post insulator type
C6-750 for rated voltage of 154 kV**

March 2012

VEIKI-VNL
Vilamos Nagylaboratóriumok Kft.
1158 Budapest, Vasgolyó u. 2-4.



STL
applicant



Subject: Dielectric and mechanical tests on solid core post insulator type C6-750 for rated voltage of 154 kV

Kind of the test: Type test

Client: EMCO Industries Limited
119/ E-1, Hali Road, Gulberg-III, Lahore
Pakistan

Reference and date of the order: INSP/ 1211002, 14th of February 2011

Our reference number: NFL-01/2011

Place and date of the test: VEIKI-VNL Electric Large Laboratories Ltd.
H-1158 Budapest. Vasmagolyó u. 2-4.
HUNGARY
20th and 29th March 2012

Tests were witnessed by: -

*Details of the tested object*

Designation:	Solid core post insulator
Type:	C6-750
Manufacturer:	EMCO Industries Limited
Rated voltage (U_n):	154 kV
Highest voltage for equipment (U_m):	170 kV
Dry lightning impulse withstand voltage:	750 kV
Wet power frequency withstand voltage:	325 kV
Mechanical failing load – Bending (P_0):	6000 N
Maximum RIV level at test voltage of 88 kV:	200 μ V

Applied Al tube:

Diameter:	30 mm
Length:	3 m

Number of the manufacturer's drawing for the identification of the test object:

Station Post Insulator (C6-750) Drawing No: EM-698M-2 REV.1

Requirements of manufacturer or purchaser:

Dry lightning-impulse withstand voltage:	750 kV _{peak}
Wet power-frequency withstand voltage:	325 kV _{rms}
Maximum RIV level at test voltage of 88 kV:	200 μ V

The tests were carried out in accordance with the following standard(s):

- IEC 60168:2001 Test on indoor and outdoor post insulators of ceramic material or glass for systems with nominal voltages greater than 1000 V
- IEC 60273:1990 Characteristic of indoor and outdoor post insulators for systems with nominal voltages greater than 1000 V
- IEC 60060-1:1989 High-voltage test techniques. Part 1: General definitions and test requirements

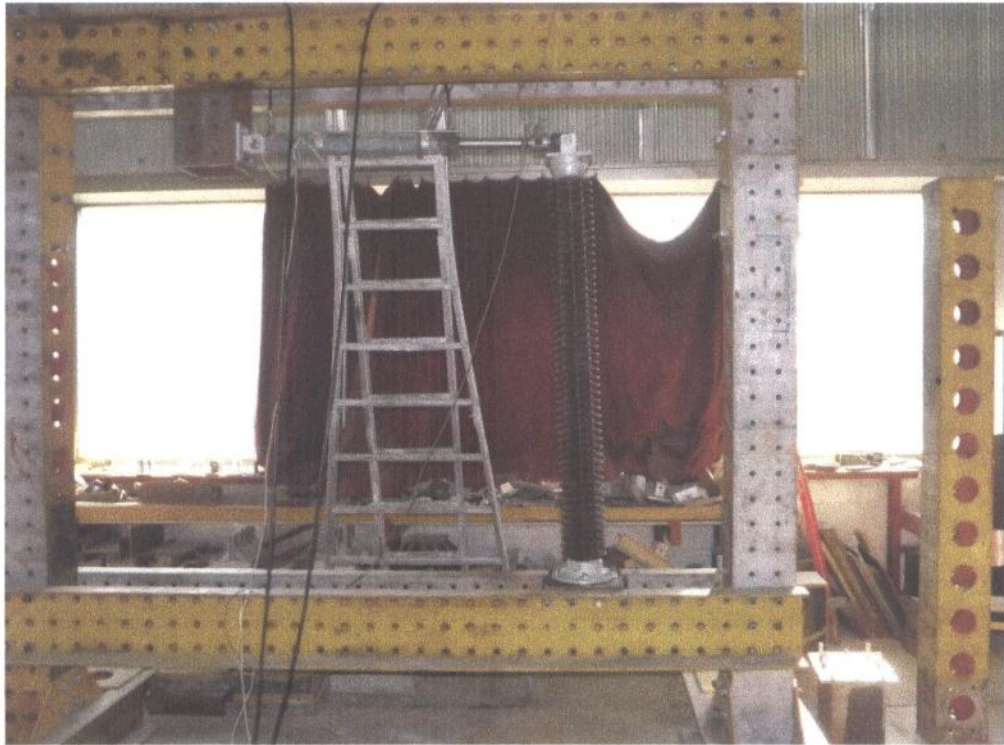
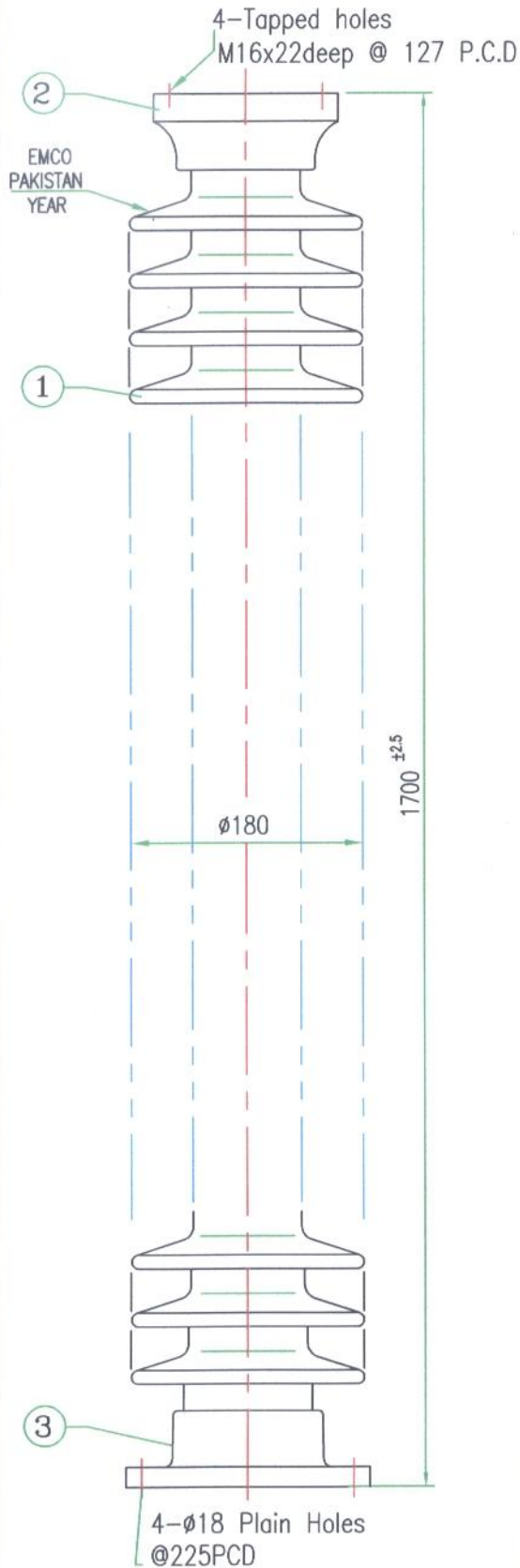


Photo 2
Test arrangement of the bending test



Photo 3
The insulator type C6-750 after the bending test



TECHNICAL DATA

Creepage distance	4250 mm
Mechanical Failing Load	
Bending (Po)	6000 N
Impulse withstand voltage	750 kV
Power frequency withstand Wet	325 kV

Note : -
 Tolerance according to IEC Pub:60168
 Clause:5.1,Otherwise specified.
 Tapped holes threaded oversize 0.4mm to accommodate hot-dip galvanized cap screws.
 Porcelain : Brown glazed
 Ferrous Parts : Hot dip galvanized except female threads.

6 6 6 0 /VNL, 2012 MAR 3 0.

Handwritten signature

VEIKI-VNL
 Villamos Nagylaboratóriumok Kft
 1158 Budapest, Vasgolyó u. 2.

Specification applied : IEC 60273

5					
4					
3	Bottom Flange		Steel	1	
2	Top Cap		Steel	1	
1	Insulator	-	Porcelain	1	
SR.NO	DESCRIPTION	DRG.NO:	MATERIAL	QTY.	REMARKS

REV.	DESCRIPTION	DATE	NAME	2009	DATE	NAME
1	PCD changed 225 instead of 200	25-3-10	Ashraf	DRWN.	20-09	Mubashir
				CHKD.	21-09	Ashraf
				APPD.	21-09	Rizwan Aslam

STATION POST INSULATOR
(C6-750)

CAT. NO:

SCALE
mm
1

