



HIGH VOLTAGE TESTING LABORATORY

Accredited testing laboratory No.: 1029
Accredited by Czech Accreditation Institute
according to ČSN EN ISO/IEC 17025:2005

TEST REPORT No.: 10864/B/18



CUSTOMER:

EMCO INDUSTRIES Ltd.
4th Floor, National Tower
28-Egerton Road, Lahore 54000
PAKISTAN

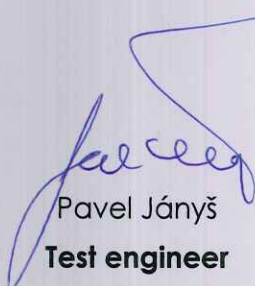
TEST OBJECT:

Fog type suspension insulator 80 kN

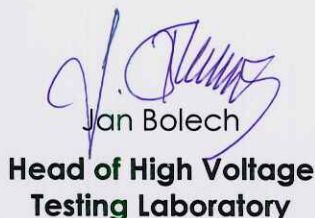
TYPE SPECIFICATION: EM-369M

TEST STANDARDS:

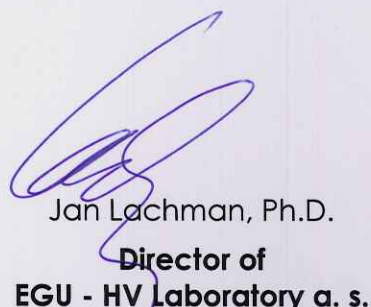
WAPDA NTDC P-8:96¹⁾, IEC 60060-1 Ed.3:2010,
IEC 60383-1 Ed.4.0:1993



Pavel Jányš
Test engineer



Jan Bolech
Head of High Voltage
Testing Laboratory



Jan Lachman, Ph.D.
Director of
EGU - HV Laboratory a. s.

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1 TEST SUMMARY

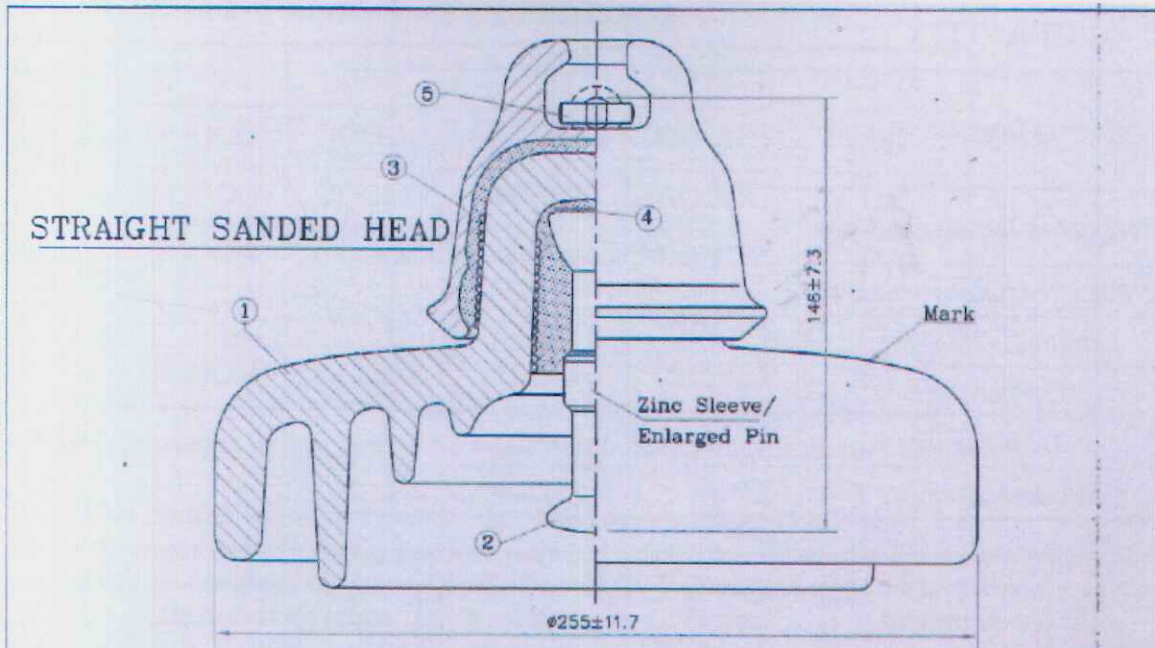
Test title	Test result
Steep wave front impulse test	Passed

2 LIST OF SYMBOLS

Explanatory notes for tests and standards:

- 1) This standard or test is not subject of EGU-HV Laboratory accreditation.

5 PRODUCT DRAWING



TECHNICAL DATA

Minimum Creepage Distance	430 mm
Standard Coupling Diameter	16 mmA
Short Time Electromechanical Breaking Load	80 kN
Mechanical Routine Test Load	32 kN
Mechanical Impact Strength	6.2 N-m
Power Frequency Withstand Voltage Dry	85 kV
Power Frequency Withstand Voltage Wet	50 kV
Impulse Withstand Voltage	110 kV
Low Frequency Puncture Voltage	130 kV
Maximum RIV at 1000 KHz	50 μ V
Test voltage to ground.	10 kV

Mark:
80kN
EMCO
PAKISTAN
YEAR

WEIGHT OF ZINC COATING ON CAP

Individual sample	Average of 3 samples
1050 gm/sqm	1080 gm/sqm



NOTE

- On all dimensions for which special tolerance does not apply, will be according to IEC Pub. 60383, clause 17.
- COLOR OF GLAZE BROWN/WHITE
- FERROUS PARTS: HOT DIP GALVANIZED

Specifications Applied : WAPDA P-8:1996/IEC-60383:1993

SR.NO	DESCRIPTION	DRG.NO:	MATERIAL	QTY.	REMARKS
5	Socket Key		Stainless Steel	1	
4	Cork			1	
3	Socket Cap		Malleable/ductile Iron	1	
2	Bolt Pin		Mild Steel(Hot Forged)	1	
1	Insulator		Porcelain	1	

REV.	DESCRIPTION	DATE	NAME	1996	DATE	NAME	SCALE
				DRWN.	09-06	Amin	mm
				CHKD.	10-06	Ashraf	
				APPD.	10-06	Arif Hussain	
FOG TYPE SUSPENSION INSULATOR 80kN Ref: EM-369M CAT.NO: U80B/E-F							

Figure 1
Fog type suspension insulator 80 kN, type EM-369M, drawing No. U80B/E-F



7 TEST OBJECT AND TEST SETUP PHOTOS



Figure 2

Fog type suspension insulator 80 kN, type EM-369M, drawing No. U80B/E-F, test arrangement and flashover during the impulse voltage puncture test on insulators in air



Figure 3

Fog type suspension insulator 80 kN, type EM-369M, drawing No. U80B/E-F, test arrangement and flashover during the dry power-frequency voltage test

- end of test report -