

PASCHIM GUJARAT VIJ COMPANY LIMITED

SPECIFICATION OF DO OPERATING ROD

1. SCOPE:

This specification covers the manufacture, testing at works and supply of DO Operating Rod for 11 KV system.

2. APPLICABLE STANDARD:

IEC 60060 / IS: 2071, BS: 2782, IS: 1998, IEC 855 etc.

As per relevant IS with latest amendment (for materials used & testing).

3. GENERAL CONSTRUCTION REQUIREMENT OF OPERATING ROD

3.1 Material :

A :- Telescopic rod – FRP Stick:-

The Telescopic Operating Rod should be manufactured from fully automatic pultrusion machine made out of Fiber Reinforced Polyester (FRP)/Polyester Resin bonded, with boron free glass roving. The glass content should be minimum 60 %.

B:- D.O. Head

The Top of stick be provided with Aluminum D.O. Head, with Die casted Aluminum alloy material. This aluminum head should properly designed to operate Drop out fuse barrels.

C:- Bottom

The bottom end of the telescopic stick should be dressed with rubber shoe for adequate grip & to prevent the penetration of the moisture from underneath, thus making the device completely moisture proof.

3.2 Special Features :

- (1) The Telescopic stick should be free from all the foreign bodies and without any pinholes.
- (2) The Inner & outer surface of Operating Rod (Telescopic stick) should be smooth &Glossy.
- (3) The arrangement of locking between two sections of Operating Rod will be of push button type with telescopic design.
- (4) The joints are required vibration free and provided with complete fittings.
- (5) The Operating Rod shall have very good mechanical strength, excellent di-electrical Strength and free from the water absorption.
- (6) The weight of Operating Rod should be very less & suitable for easier handling/Operation by single person.

Signature of Tenderer:		
Date:	Place:	
		Company's Round Seal:

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3.3 Color:

Natural White OR Grey

3.4 Dimensions :

Total Height :- 16 Feet & 3 Inch in three equal (5 feet & 5 Inch) section

Assembled Height: - 15.00 Feet

Outer Diameter: 45 mm for Bottom section & 32 mm for Top Section

Telescopic Stick Wall thickness : 2.5 mm

4. MARKING :

“PGVCL / Use for 11 KV / Mfg. Year:2020 / Name of Manufacturer” should be permanently marked on the Telescopic Stick preferably at 50 mm from one end on outer section.

5. TYPE TEST CERTIFICATE :

The Operating Rod sticks should be type tested for 110 KV for power frequency voltage withstand test in Dry & wet condition, Glass content test, insulation resistance test preferably from any Govt. approved Lab like CPRI, ERDA etc.

6. TENDER SAMPLE:

Tenderer should submit two nos. of sample along with offer. Offers without sample will be straight way rejected.

7. Guarantee:

If the goods, stores and equipments found defective due to bad design or workmanship the same should be repaired or replaced by you free of charge if reported within 18 months of their receipt at site or 12 months from the date of commissioning of equipments whichever is earlier. You will be responsible for the proper performance of the equipments / materials for the respective guarantee period.

Signature of Tenderer:		
Date:	Place:	
		Company's Round Seal: