

PASCHIM GUJARAT VIJ COMPANY LIMITED

Specification of 15 ft. Earthing Rod (With Hinge Type Clamp)

Sr. No.	Particular	Existing Specification
	Certification	As per IS 2071 : 1993 (Part-1) / IEC 60060
1	Material of telescopic earthing rod	<p>Highly Insulated Telescopic earthing rod with push button type locking system fully FRP material with Glass content should be minimum 60%.</p> <p>The system to access & Earth the electric lines at a height consists of corrosion resistant, insulated telescopic fully FRP rod which is on the outside through strong & robust and of about 15 feet in length when open and 5 feet in collapsed state hence easy to carry and having a dia. of 32 x 38 x 45 mm provided with a FRP grip. It is attached at one end with spring loaded conductor clamps made out of good quality aluminium Metal attached with a robust cord to open & close the clamping required for the disengagement of overhead conductors, whereas the Earthing is provided using copper Insulated PVC cables which are ISI marked.</p>
2	Earthing cable	ISI branded PVC insulated Earthing cable (10 Sq. mm flexible wire – at least 7 meters) is to be provided with Grounding Clamp for attaching to the Earthing pit. Both ends of earthing cable are to be provided with copper lugs, which are to be crimped with wire. Brass nut-bolt is to be fixed on the earthing clamp.
3	Grounding Clamp	Grounding clamp provided for grounding connection & such clamp should be made from good quality of aluminium alloy material with aluminium die cast process having size of 80mm x 80 mm. The clamp should be capable to grip 40 mm angle channel or earthing wire.
4	Bottom of the Earthing Rod	The bottom end of the Telescopic collapsible type Stick will be dressed with rubber shoe for adequate grip & umbrella (Flap) at the top of the grip to prevent the penetration of the water/moisture from underneath, thus making the device completely moisture proof & to hold FRP Stick conveniently.
5	Testing	Electrical insulation: type tested on 110 KV as per IEC 60060 approval from ERDA <u>and Glass Content test as per ISO 10661-1983.</u>
6	Weight	4.8 Kg. Max. with Cable
7	Marking	Each item having respective DISCOM's logo
8	Unit Set	Set of 3
9	Packing	Carrying case
10	Warranty	Two Years

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

PASCHIM GUJARAT VIJ COMPANY LIMITED

Specification of 15 ft. Earthing Rod (With Hinge Type Clamp)

11	Conductor Clamp	The top stick is to be provided with aluminium conductor clamp with spring loaded design, having hinge type moving action of Aluminium alloy material with adjustable jaw, to grip Conductor. Clamp should be capable to grip 10 mm to 30 mm diameter conductor with firm tension. The said clamp should hold the conductor tightly & mechanism is capable to operate & to remove the conductor clamp easily without any extra efforts. Conductor clamp should be provided with stainless steel high tension spring with locknut & brass nut bolt. Necessary arrangement should included for providing earthing connection.
12		The Groove in the clamp to hold the conductor should be made more rounded & a little tighter to be able to hold 34 sq.mm conductor tightly.
13		The location of the spring should be closer to the Groove for the conductor.
14		The thread length should be increased to cover 2/3rd length of the bolt so as to enable to adjust the spring tightness manually as and when required.
15		The quality of the spring should be improved. It should be of High Industrial quality steel material.
16		The lower end of earthing rod should be provided with 1 foot long dotted grip of insulating material with circular flap on top.
17		Grounding clamp should be provided with a groove to hold the earth wire in place.

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