

# PASCHIM GUJARAT VIJ COMPANY LIMITED

## Specification of 15 ft. Earthing Rod (With Horse-shoe 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 <b>Telescopic earthing rod with push button type locking system fully FRP material with Glass content should be minimum 60%.</b></p> <p>The system to access &amp; Earth the electric lines at a height consists of corrosion resistant, insulated telescopic fully FRP rod which is on the outside through strong &amp; robust and of about <b>15</b> feet in length when open and <b>5</b> feet in collapsed state hence easy to carry and having a dia. of <b>32 x 38 x 45</b> 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 &amp; 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 ( <b>10 Sq. mm flexible wire – at least 7 meters</b> ) 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 <b>40</b> 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 and Glass Content test as per ISO 10661-1983.
6	Weight	<b>4.8 Kg. Max. with Cable</b>
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:

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11	Conductor Clamp	<p><b>The top stick is to be provided with half round "U" shape or horseshoe type automatic spring loaded arrangement. The said clamp should be manufacture from aluminium die cast material with heavy &amp; strong mechanical strength to be provided for fall arresting hook hole where the Fall Arrestor can be hooked and a hole for fixing earthing cable. The spring should be made of high tension stainless steel with brass nut bolt &amp; nut bolt to be provided for fixing with FRP stick. The jaw of clamp should be 130 mm x 54 mm with strong mechanical strength.</b></p>
12	<p>The lower end of earthing rod should be provided with 1 foot long dotted grip of insulating material with circular flap on top.</p>	
13	<p>Grounding clamp should be provided with a groove to hold the earth wire in place.</p>	

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