

Technical Specifications

132kV Cable route marker posts

Dimensions:

Height – Above ground minimum 1200mm

Below ground (including footing) maximum 300mm

Width/Diameter – minimum 100mm, maximum 130mm

Cross sectional shape: Circle / Triangular

Colour: White / Yellow / Orange

Material/ Mechanical Properties: UV treated High Density Polyethylene (HDPE). With minimum expected life 10 years. The markers will be placed near the shore hence the marker should be able to withstand salt spray and small waves.

Climatic Conditions:

Shall be suitable for operating under the worst tropical conditions, including lightning, cyclonic rains, and high humidity.

Climate	:	Typical tropical coast line.
Atmosphere	:	Saliferous, corrosive and dusty.
Altitude	:	2 meter above mean sea water level.
Temperature	:	32 °C (mean maximum).
	:	25 °C (mean minimum).
Barometric air pressure:		1010 millibars.
Relative humidity	:	90%.
Average rainfall	:	145 days/year.
Average sunshine	:	24 days/month.
Mean wind speed	:	10.8 knots.
Maximum wind speed	:	15.1 knots.

Footing: The footing of the posts must be at a maximum of 300mm depth. The posts will be placed near the shore where the soil is loose and some amount of soil erosion due to wind and waves. The footing shall be made such that the post is able to withstand the above-mentioned climatic conditions.

Markings: The markings should cover the entire circumference of the marking and should span a minimum of 500mm of the length of the post starting from the top. The markings should incorporate the following design elements and must be designed such that it is highly visible and must be reflective.

1. Electrical hazard sign
2. "DANGER 132,000 VOLT CABLE UNDERNEATH"
3. STELCO Logo
4. "DO NOT DIG. CALL 104"

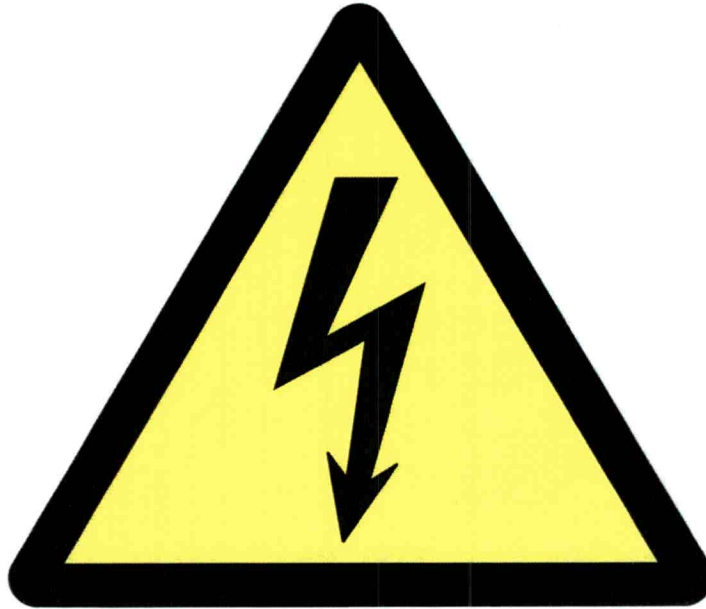


A handwritten signature in blue ink, appearing to be "N. S. S.", is written over a diagonal line that extends from the bottom right towards the center of the page.

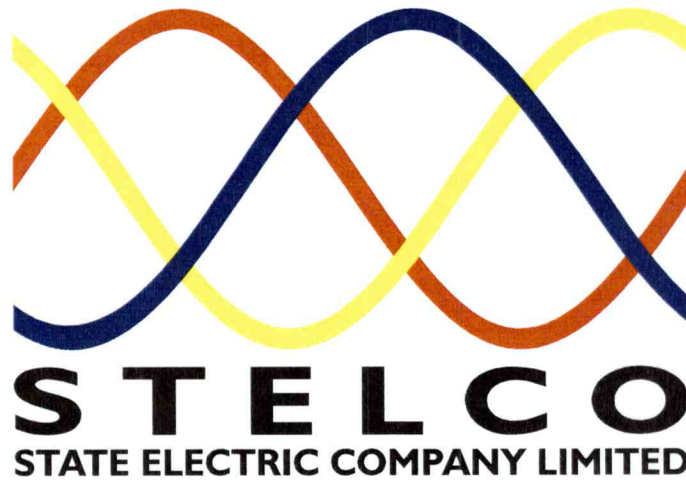
The markings must be made with UV-stabilized, long-lasting imprint. The printed materials should not peel or disbond for the life of the marker.

The final design of the markings shall be determined by STELCO after receiving the design of the posts.

The sample of the above elements are as follows:



Electrical hazard sign



STELCO Logo

A handwritten signature in blue ink, appearing to be 'N. S. S. S.' with a long horizontal stroke extending to the right.

Bill of Quantity

#	Description	Quantity
1	132kV Cable route marker posts	1600

