

4 ROPE SYSTEM:-

4 Rope safety fence consists of 4 pre-stretched galvanised steel wire ropes supported by galvanised steel posts of 'S' or 'Z' section. One upper rope is located within a central slot in the top of the posts and three wire ropes interwoven along the adjacent posts. The ropes are joined and tensioned by means of rigging screws in accordance with BS 4429 and the ends of the ropes are attached to anchors embedded in the ground. The steel posts shall be as per IS2062, 5mm thick 'S' or 'Z' shaped galvanised mild steel with a standard section of 100mm x 55mm x 5mm and wire rope shall have a diameter of 19mm with construction of 3x7 (i.e. 7 wires in a strand and 3 strands in each rope), being three strands spun coreless, each strand comprising seven wires and that one king wire rope having tensile grade of 1370 N/mm² with a minimum break load of 17.7 tons. The rope shall be factory pre-stretched until it is in an elastic condition. The top wire shall be at 930 +/-30mm from ground level and the second wire shall be at 790 +/-30mm, third wire at 640 +/-30mm and fourth wire at 500 +/-30mm, the posts shall be spaced at 3.2 metre centre to centre. All posts need to be embedded in concrete of M25. The posts will be fixed in M 25 grade concrete in a pit of 300mm dia x 600mm deep size. Anchor pit shall be of 1 metre wide x 1 metre long x 2 metre deep. The end of the rope will be fixed to the anchor by using mechanical fittings or nuts & bolts with the minimum breaking load of 16.7 tonnes.