

SECTION - 3

ENCLOSURES TO THE SPECIFICATION

3.1 to 3.3 (Specification of Chainlink Fencing and site surfacing/gravelling)

1. SPECIFICATION FOR CHAIN LINK FENCING

SCOPE

This specification covers the furnishing of all labour, equipment and material required for chainlink fencing work as specified or shown on the drawings.

GENERAL REQUIREMENTS

Chainlink fence fabric shall be as per IS-2721 with the following specification:

- 1.Size of mesh : 75mm.
- 2.size of coated wire :3.15mm dia.
- 3.Width of chainlink :2400mm
- 4.Class of zinc coating :medium

All posts shall be of structural steel conforming to IS-2062 and shall be painted with one coat of approved steel primer and two coats of synthetic enamel paint.The sections used shall be as follows:

	<u>Angle Section</u>	<u>Spacing(mm)</u>
1.Intermediate Posts	45X45X6	2500
2.Straining Posts	65X65X6	25000
3.Stay Posts	45X45X6	25000

The Chainlink fabric shall be fixed to the post at the top and bottom of the fence by welding/fixing 50X6 MS flat all through its length.

Above the chainlink, 3-rows (6 nos) of barbed tape/wire shall be provided in each arm of the Y shaped barbed arm at the top. With barbed tape/wire above the chainlink fence, the total fence height shall be minimum 3000mm above finished ground level. Barbed tape/wire arms shall be same as intermediate and straining post.

Fasteners shall be single strand aluminium or galvanised steel wire conforming to requirements for fabric 4mm dia.

Tension wire shall be single strand, high tensile, galvanised steel wire, 4mm diameter.

INSTALLATION

Fence shall be installed along lines shown on approved drawings.

Post holes shall be excavated by approved methods.

Straining posts shall be installed at sharp changes in grade, at corners, at change of direction and where directed.

All corner post will have 2 stay post and every tenth post will have a transverse stay post.

Posts shall be set in 1:2:4 plain cement concrete blocks of minimum dimension 400mmX400mmX1000mm. Posts shall be braced and held in plumb position and true alignment and elevation until concrete has set. Fence fabric shall not be installed until concrete has cured a minimum of 5 days.

Bottom and top of the fence fabric shall be fixed with MS flats of 50mmX6mm.

Fence fabric shall be laid out with barbed edge on top, stretched tightly and shall be fastened to intermediate, gate and straining post with 50X6 flats.

Fabric shall be secured to 3 no. tension wires with tie wires at 400mm intervals. Tie wire shall be given not less than 2 twists.

A 230mm or one brick thick toe wall with notches over 75mm thick PCC(1:4:8) shall be provided below all fencing and shall be minimum 200mm above and 500mm below finished ground level. All exposed surfaces shall be provided with 12mm 1:6 cement sand plaster and coated with 2 coats of colour wash over a base coat of whitewash.

2. SPECIFICATION FOR SITE SURFACING/GRAVEL FILLING

SCOPE

This specification covers the furnishing of all labour, equipment and material for carrying out site surfacing work as specified or shown on the drawings and as per directions of the Engineer.

MATERIALS

The material required for site surfacing/gravel filling shall be free from all types of organic materials and shall be of standard approved quality and as directed by the Owner/Engineer.

LAYING

The contractor shall furnish and install the site surfacing to the lines and grades as shown in the drawing including +/- 150mm microlevelling as per directions of the Owner/Engineer.

After the surface is prepared/compacted to the required slope/grade, a layer of uncrushed/crushed broken stone/pebbles (gravel) of 40mm nominal size shall be spread and rolled/compacted by using ½ ton roller (30" width and 24" dia) with 4 to 5 passes and water sprinkling to form a minimum 100mm layer on the entire switchyard.

In areas that are considered to be too congested with foundations and structures for proper rolling of the site, base course material be compacted by hand, if necessary. Due care shall be exercised so as not to damage any foundation/structure or equipment during rolling compaction.