

## SPECIFICATIONS

### GENERAL

This work shall consist of the construction of new fences and gates for the fencing of the right-of-way of the works in accordance with these Specifications and the details shown on the sketches.

### MATERIALS

Materials shall meet the requirements specified below unless otherwise required by the drawings:

Concrete	: Concrete shall be class C25 as specified unless otherwise shown
Galvanised pipes	: EN39, EN 1139 (120-500 grm/sq.m.)
Chain link fabric	: As shown on the sketches (50x50mm)

The dimensions and geometrical characteristics of new fencing shall be as shown on the sketches. All materials shall be subject to inspection for acceptance as to condition immediately prior to or during the incorporation of materials in the Works.

Where the location of manufacturing plants allows, the plants will be inspected periodically for compliance with specified manufacturing methods and samples will be obtained for laboratory testing for compliance with material quality.

### CONSTRUCTION REQUIREMENTS

#### **Fence**

The Contractor shall perform such clearing and grubbing and levelling or filling of local mounds or depressions as may be necessary to the satisfaction of the Engineer to construct the fence to the required alignment.

At locations where breaks in a run of fencing are required or at intersections with existing fences, appropriate adjustment in post spacing shall be made to conform to the requirements for the type of closure indicated.

Where the sketches show that post braces or anchors are to be embedded in concrete, the Contractor shall install temporary guys, or braces as may be required to hold the posts in proper position until such time as the concrete has set sufficiently to hold the posts. Unless otherwise permitted, no materials shall be installed on posts or strain placed on guys and bracing until seven days have elapsed from the time of placing of the concrete.

All posts shall be set vertically and to the required grade and alignment. Cutting of the tops of the posts will not be allowed unless agreed with the Engineer in writing.

The length of each post bracing shall be determined by the slope of the natural ground. Under no circumstances shall the embedment length be less than that specified on the Drawings.

Wire or fencing of the size and type required shall be firmly attached to the posts and braces in the manner indicated.

Chain link fabric, tension wire and required fittings and hardware shall conform to the requirements shown on the Drawings. Tensile strength for chain link fabric and tension wire shall be as per the specified standard.

### **Gates**

All gates, single or double shall be constructed in the locations and to the details shown on the Drawings. Each gate shall be provided with a security lock and three keys. Keys shall be handed over to the Engineer as soon as the fencing and gate is completed.

### **Removal and Re-erecting existing fencing**

The Contractor shall be required to carefully remove and re-erect existing private fencing, which crosses the roadway, to the positions and locations shown on the Drawings or directed by the Engineer.

The fence shall be re-erected to the same or better standards and condition of the removed fence.

The Contractor shall notify the owner of his intention to remove and re-erect the fencing prior to removal.

The re-erected fence shall be constructed from the fencing materials which have been removed or from materials provided by the Contractor. All surplus material, if any, shall be disposed of by the Contractor.

### **Description:**

The total length of fencing will be up to 450 meters. The existing fencing alignment will be followed. Number of gates will be 2.

- Construct fencing at the same alignment of the existing to avoid any possible mistakes of encroaching other properties
- 50mm diameter galvanized pipe of thickness 1.2mm.
- Galvanised chainlink fences material will be used.
- Construct two gates; one for entry for people (1.2m) and one for vehicle (3m) in case of need to enter. Both will be with locks.
- Install posts into pits with concrete as shown on sketches.
- Construct concrete (C25) ground beams 20wx50d. Ground beams must have construction joints at every 20m.
- Edge of concrete ground beams are to be chamfered.
- Ground beam must be arranged in such a way that uniformity in alignment and elevation must be achieved.
- Fence material will be 1.6 m high with 10cm in the ground beam and 150cm over.
- Galvanised iron posts to be 2m in length; 50cm in earth & ground beam. 150cm will be over.
- Tension rods at three levels; top, bottom and at half way to keep the fence in tension.