**Works Description**

1.0 Grade adjustment at the site border
2.0 Constructing Metal Foundation Structure
3.0 Constructing Metal Fence
4.0 Constructing Metal Gate

1.0 Grade Adjustment at the Site Border
Contractor should take existing levels at the site border where the fences will be installed. Proposed levels appropriate for installation of fences should be submitted to the ENGINEER for approval.
   a- Grade adjustment works will be carried out according to the approved levels
   b- No heavy machinery is allowed during grade adjustment works

2.0 Constructing Metal Foundation Structure
Metal foundation structure will be constructed under the metal fences with a dimension of 50.5x61 cm. The metal foundation will be constructed according to the DETAIL A.
   a- “L” Shape metal profiles with a dimension of 50x50x3mm will be used to construct frame of the foundation
   b- Flat plates 20x2 mm will be used to connect “L” shape frames
   c- Double 50x50x3mm SHS profiles with a height of 25cm will be installed on a metal flange at the centre point of the structure, to provide housing for the metal fence. The dimension of the metal flange will be 120x70x2 mm.
   d- Metal flange with SHS profiles will be welded on the mid part of the metal frame.
   e- 2 No precast concrete kerb with a dimension of 15x30x50 cm will be provided and fixed on the constructed metal structure as per DETAIL A.
   f- All metal parts will be treated with 1 coat of anti-rust and painted with 2 coats of ferro-mica type of paint Parammatti or equivalent.
   g- Colour to be approved by UNDP.
   h- Samples of the metal sections shall be given for approval of UNDP.
Schedule of Requirements

3.0 Constructing Metal Fence

Metal Fence will be constructed according to the DETAIL B.

a- A frame will be constructed with 40x40x2mm SHS profiles.
b- 50x50x5mm Metal Mesh will be installed in the frame.
c- Constructed metal frame will be inserted in the metal foundation structure.
d- Lateral supports will be installed at every 4 meters according to the DETAIL C.
e- All metal parts will be treated with 1 coat of anti-rust and painted with 2 coats of ferro-mica type of paint Parammatti or equivalent.
f- Colour to be approved by UNDP.
g- Samples of the metal sections shall be given for approval of UNDP.

Note: Dimensions (length of fences) on the Detail A are indicative. Contractor should submit a shop drawing with real dimensions for approval.

4.0 Constructing Metal Gate

Metal Gate will be constructed according to the DETAIL D.

a- A frame will be constructed with 40x40x2mm SHS profiles.
b- 50x50x5mm Metal Mesh will be installed in the frame.
c- Metal flange must be used with a dimension of 80x40x2mm to stabilize the metal gate frame to the main fence structure.
d- Constructed metal gate will be fixed on 40x40x2mm SHS post with hinges.
e- Metal gate must be provided with a deadlock as per drawings.
f- All metal parts will be treated with 1 coat of anti-rust and painted with 2 coats of ferro-mica type of paint Parammatti or equivalent.
g- Colour to be approved by UNDP.
h- Samples of the metal sections shall be given for approval of UNDP.

Note: The contractor should submit the shop drawings for approval of the Engineer before proceeding the work on site.

The works will be monitored by the contractor’s civil engineer during the implementation.
### Schedule of Requirements

#### DETAILS

#### DETAIL A

- **PRECAST CONCRETE KERB**
  - 15x30x50cm

- **METAL FOUNDATION STRUCTURE**
  - 50x50x3mm SHS
  - HOUSING PIPE FOR FENCE

- 2 NO PRECAST CONCRETE KERB TO BE PLACED ON THE FOUNDATION METAL STRUCTURE (15X30X50cm)

- 50x50x3mm "L" SHAPE PROFILE
- 20x2mm FLAT PLATE
- 120x70x2mm METAL FLANGE UNDER SHS
DETAIL B

METAL FENCE

Schedule of Requirements
DETAIL C

LATERAL SUPPORT

150x50x3mm METAL FLANGE
10mm DOME NUTS

40x40x2mm SHS
LATERAL SUPPORT TO BE FIXED IN THE FOUNDATION STRUCTURE

50x50x3mm SHS
HOUSING PIPE FOR LATERAL SUPPORT

150x30x50cm CONCRETE KERB

METAL FOUNDATION STRUCTURE 50.5x61cm
MATERIAL WILL BE 50x50x3mm "L" SHAPE METAL SQUARE METAL STRUCTURE TO FIX CONCRETE KERBS AND HOUSING PIPES OF FENCES
Schedule of Requirements

DETAIL D

METAL GATE

40x80x2mm METAL FLANGE

50x50x5mm METAL MESH

2 NO 40x40x2mm SHS FIXED TOGETHER AT MID-HEIGHT OF THE DOOR DEADLOCK

40x40x2mm SHS FRAME

40x40x2mm SHS POST

METAL HINGES