

# TECHNICAL SPECIFICATIONS

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## 1. ROOF SPECIFICATIONS

- Roof pitch 18 degrees (over cold storage facility)
- Aluminium Gauge 28 pre- painted galvanized corrugated iron (GCI) sheets on
- 100 X 50mm trussed timber rafters on
- 100 X 50mm ties and struts
- 100 X 50mm sawn timber wall plate
- 12mm raw bolts cast into beams at 1500mm C/C
- Ridge & valley gutters to match roof cover
- 25mm thick x 225mm wide fascia painted to approval
- Chipboard ceiling painted to approval
- Alternate 50x50mm and 35x35mm bracing to be done at 750mm C/C
- 150mm DIA pvc downpipes

## 2. WALL SPECIFICATIONS

- All walls to have a thickness of 200mm except partitions wall that are 100 mm thick polyurethane sandwich panels cladded with prepainted steel sheet on both sides for wall and ceiling with partition
- Walls plastered smooth to receive 1 undercoat & 2 coats emulsion paint to architect/client's approval

### 3. FLOOR SPECIFICATIONS

- OFFICES - 300x300x8mm thick colored ceramic floor tiles to approved sample laid to fall on
- WASHROOMS and Toilets – 150 x 150 x 8mm thick colored no-slip ceramic floor tiles to approved sample laid to fall on
- 12mm thick sand-cement backing [1:2] on
- 100mm high skirting to be provided all round to match the floor finish

### 4. FOUNDATION SPECIFICATIONS

- 150mm thick RC floor slab on
- Polythene DPM on
- 50mm blinding layer on
- Hardcore layer
- Foundation depth to be determined on site
- 800mm wide RC footings to be provided all along the walls

### 5. EXTERNAL WORKS

- Existing courtyard area to be leveled and well compacted
- 150 mm DIA pvc waste pipes from toilets to be buried sufficiently and encased in concrete where they pass under the driveway
- Conservancy tank to have a 150 mm DIA PVC vent pipe

### 6. QUALITY ASSURANCE

#### 6.1. SORTING OUT OF MATERIALS

##### a. Receipt of products

On receiving products, the products shall be checked with delivery note/shipper list from Supplier and be confirmed in terms of quantity and deformation, damage or the like.

#### **b. Handling of products**

During handling products,

1. Sand shall be placed on a clean surface/polythene paper to avoid contamination with impurities.
2. Cement shall be placed above ground and kept in a cool and dry area and used within the shelf life recommended by supplier.
3. Ballast shall be in correct aggregate sizes and mix to allow achievement of proper design strength.

### **6.2. COCRETE INSPECTION**

1. Prior to concreting the work shall be checked for correct reinforcement bars placing, spacing, sizes, laps and material quality.
2. Concrete cubes shall also be prepared to determine the correct mixing of aggregates (cement/sand/ballast) according to the recommended design mix.
3. Defective materials shall be replaced with approved samples and removed from site under the supervision of the clerk of work/architects representative.