



SPECIFICATION

Excavation

- The contractor shall make all necessary excavation for foundation to establish grades indicated on the drawing without extra compensation including all other excavation requested and necessary for the proper prosecution of the work.
- The materials to be excavated shall include rock, earth and other materials of any nature and description in obtaining the indicated lines and grades.
- In the required safe bearing power of the soil is not obtained at the excavation depth indicated on the drawing, the excavation shall be continued until such safe bearing power is reached.
- The contractor shall at all times protect the excavation and trenches from damages of rain, spring water, backing of drains and from all other water.
- The contractor builds all necessary closure, construct and maintain temporary drainage for this purpose.
- All excavation shall be back filled immediately as work permits after concrete have attained full designed strength. The filling materials shall be made in layers not to exceed 15 centimeter and thoroughly tamped before the next fill is placed. Excavated materials shall be placed + spread in the immediate premises as pictured.

Reinforced Concrete

- Portland cement shall be conforming to the requirements of American Society for Testing and Materials (ASTM) C-150 type for normal Portland cement
- Cement shall be any standard commercial brand in 40 kg per bag.
- Fine aggregates / sand shall be clean, hard, coarse river. Sand free from injurious amount of clay loam and vegetable matter.
- Coarse aggregates / gravel shall be crushed gravel. The maximum size shall be $\frac{3}{4}$ of the minimum clear spacing between reinforcing bar or between rebar and form whichever is smaller.
- Mixing water used for concrete should be clean and free from oil, acids, alkali, organic materials or other deleterious substances.
- The contractor shall employ as his own expenses and approved testing, laboratory which shall design the mix for concrete each type of concrete required by the specification and drawings to obtain strength as determined by test at least 15% higher than required. Strength requirement shall be as noted on the drawings.
- If the contractor will use ready mix concrete, the concrete strength should be 3,000 PSI.
- The forms and reinforcement for the whole unit are properly laid and installed, cleaned and inspected before the pouring of concrete

Steel Bars

- The reinforcing steel bars shall conform to American Society for Testing and Materials (ASTM) specification. all mild steel for columns, shear wall, footing and footing beams

shall use grade 40 deformed bars. For 10mm Ø DSB shall use intermediate deformed bars or grade 33.

- **Forms**

- Form shall conform to the shape, lines and dimension shown on the drawing. They shall be substantial and designed to resist the pressure and weight of concrete.
- Form shall be properly tied and braced to maintain their position, shape and sufficiently tight + strong to prevent leakage of mortar.
- Removal of forms is subject for approval by the Supervising Architect or Engineer.

- **Concrete Masonry**

- Concrete Hollow Blocks shall be use for partition and walls on the detailed drawings and the load bearing shall have a minimum compressive strength of 1,000 PSI.
- Reinforcing steel shall be done in accordance with the structural plan as to size, spacing and shall be clean and free from loose, rust, scaves and any coatings to reduce bonus. The minimum requirement for deformed steel bars will be 10mm with grade 33.
- For mortar the cement to be used shall be normal portland cement and the aggregate is fine sand.
- For plaster cement shall used portland cement mixed with fine sand free from dirt, clay, organic matter and other deleterious substances.

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