

## Individual Submission 2

**Q -:** It is essential that Planners understand the link between their project plan and practicalities on site. They need to understand site layouts working within the project constraints, and on occasion will be required to advise on the feasibility of proposed construction methods, including their impact upon programme.

With this in mind you are required to propose a construction methodology for the project, which could have a positive impact on your coursework 1 programme, through shortening the duration on site. Your proposal should identify why you are proposing the particular construction method, and the benefits to the programme of the same.

The purpose of the individual submission is to allow you to reflect upon the project delivery plan you have produced, and demonstrate an understanding of the adoption of Modern Methods of Construction can impact the project?

**Ans -:** The project include execution of immense number of material of excavation after that concreting for uppermost layer of structure and structure below the surface. Taking into account nature and significance of the creation of an abstract entity activity and mechanized establishment has been review for all type of establishment job so as to courage uniform Mother Nature quality at a rapid rate for timely process of completing of the assignment. Special awareness paid to the apparatus planning for below the surface works as the compact work latitude and constraints of land study make this exercise very crucial. Also the assignment of construction will include concurrently activities about all the packet for civil, hydro-mechanical and electro-mechanical activities for various parcel constituents.

### **PRE CONSTRUCTION ACTIVITIES**

The works suggest to be assuming during Pre-construction work include the following:

1. Complete Topographical contemplate and marking the arrangement at site, Pre-construction geotechnical investigation.
2. Approval mandatory from Government agencies like Pollution control board, Public health, Irrigation and Forest Clearance.
3. Acquisition of Land.
4. Commercial financial closure
5. Detailed design and composition of tender documents for Civil, Electro-mechanical, Hydro mechanical works.
6. Award of Contracts.
7. Setting up of Site office.
8. sort of construction power.
9. Construction of approach roads/ paths.
10. Route survey of Transmission line.
11. Unearth the material Licence for construction materials.
12. Formation of project team.

### **List of running construction activities-:**

- Site cleaning
- Temporary shed construction

- Site Marking
- Stump construction -: (1) Soil digging for sump (2) Sump construction
- Foundation digging -: (1) Soil digging for pillars (2) soil digging for foundation
- Start carpenter work- for window and door frame
- Footing or pillar base
- Pillar until plinth
- Stone Foundation
- Plinth beam
- Fill Soil Inside plinth area
- Filling 40 MM jelly on top of soil- this will be done inside plinth area
- Setting up main door frame and other room door frames
- Walls constructions until window frame base approximately around 3 ft.
- Setup all window frames based on its size until 7 feet from the flooring
- Set up lintel
- Wall construction until beams
- Setup ventilators for exhaust fans or bathroom ventilators if needed
- Sheet centring for beam and also for roof-(1) fix sheets bases on water level (2) apply plaster for the gaps between sheets (3) Apply oils for sheets
- Bar binding work for beam and roofs
- Electric pipes insides roof
- Moulding
- Storing water on top of the roof
- After 18 days remove sheet centring
- Hocking for the roof
- Electrical pipes- (1) Clear any blockage in the roof pipes (2) Laying electric pipes in the walls and setup electric boxes
- Plumbing work for the bathrooms -: (1) setup water pipes and sewage pipe till outside of the wall (2) setup Indian latrine if you are going with this option (3) water proofing for bathrooms (4) close all water and sewage pipes with temporary caps
- Tiles laying in bathrooms for walls
- Plastering of roof and wall inside
- Plastering of outside wall
- Applying putty for window frames
- Fixing window frames
- Granite laying
- Granite tiles laying in bathrooms if you are going with this option
- Fixing bathrooms fittings
- Finishing outside plumbing work and tank
- Painting
- Electrical work -: (1) Electric wiring (2) Dummy plate fixing/ electrical holders (3) Electrical switch setup
- Apply prime coat outside
- Laying electric service wire from pole to meter board
- Fixing meters in panels board
- Sewage line to pit

- Parking tiles
- Compound walls

For the execution of all the project constituents construction techniques and apparatus planning have been brought out separately. The types & sizes of apparatus/equipment to be utilised has also been designated while demonstrating the construction technology for every component lower in grade opposite subhead. The arithmetical value of Machine necessitate for construction of every part has been resolved and their size and capacity has been arrived at after drawing the distribution schedule matching with the construction schedule. Usually the construction activities shall be accomplished by the contractors. The necessities of apparatus as noticeable herein have been deployed for rates analysis and Estimates costing.

#### **DETAILED DESIGN AND CONSTRUCTION DRAWINGS:-**

For pre construction works detailed design will be done in parallel manner. It is anticipated that the work of design will begin shortly after the introductory works are accomplished. In the Duration period of engineering of Tender, circumstantial work of design will be accomplished and when the time contracts are granted by the time construction pictures will be available.

#### **Working hours of equipment**

All kind of work and activities are done in two shifts as per suggestion and working hour programme has been as 20 hour in a single day and 26days/month have been considered for an average month.

#### **Densities of Materials**

A computation capacity have been build on of a trailing units in the absence of taking into consideration different types of materials densities for excavation and the fill material.

#### **Earth Volume conversion factor**

Satisfactory quality standard have been acquiring for volumes conversion in natural, insecure and condense state.

#### **Operating Efficiency**

Different types of equipment or apparatus operating productivity has been taken as 50 min per hour.

#### **Reference**

https://www.google.co.in/search?q=pre+and+during+construction+activities&oq=pre+and+during+construction+activities&aqs=chrome..69i57.10315j0j7&sourceid=chrome&ie=UTF-8