

CONSTRUCTION PLANNING -

" Systematic arrangements or orderly establishment of all the construction activities before starting actual work on project "

Advantages of Construction Planning -

- (i) Execution of Work on the lowest possible cost with scheduled time.
- (ii) To estimate the probable cost of project.
- (iii) To determine the quantity, type & exact time for delivery of materials.
- (iv) To avoid unwanted stacking at the site.
- (v) To determine the duration of ^{the required} different type of construction equipment.
- (vi) To determine in advance no. of skilled & non skilled worker required etc.

Stages of Construction Planning

There are two stages of construction planning

- (a) Pre-tender stages
- (b) Contract stage or Post tender stage

(a) Pre-Tender stages -

The planning of various construction activities required b/w the notification inviting tenders & the submission of bid is termed as Pre-Tender Stage.

(b) Post Tender Stage -

planning required by contractor after the acceptance of his bid is termed as Post Tender stage.

Scheduling - "Setting up of various construction activities in order by ~~para~~ starting the activities & finishing the activities" so that

The entire work is completed in time.

Methods of Scheduling-

- I Bar chart / Gantt chart
- II Mile stone chart
- III PERT & CPM Networks.

PERT = Program Evaluation Review
Technique

CPM = Critical Path Method.

Assignment -

- ① Explain Stages of Construction Planning.
- ② Write down the advantage of Scheduling.
- ③ Write down the advantage of construction Planning.

Topic for Next Lec

I) BAR CHART

II) Mile Stone Chart

III) CPM & PERT

IV) Activities & Event