

I.D.: 7493

Subject:- Construction Management

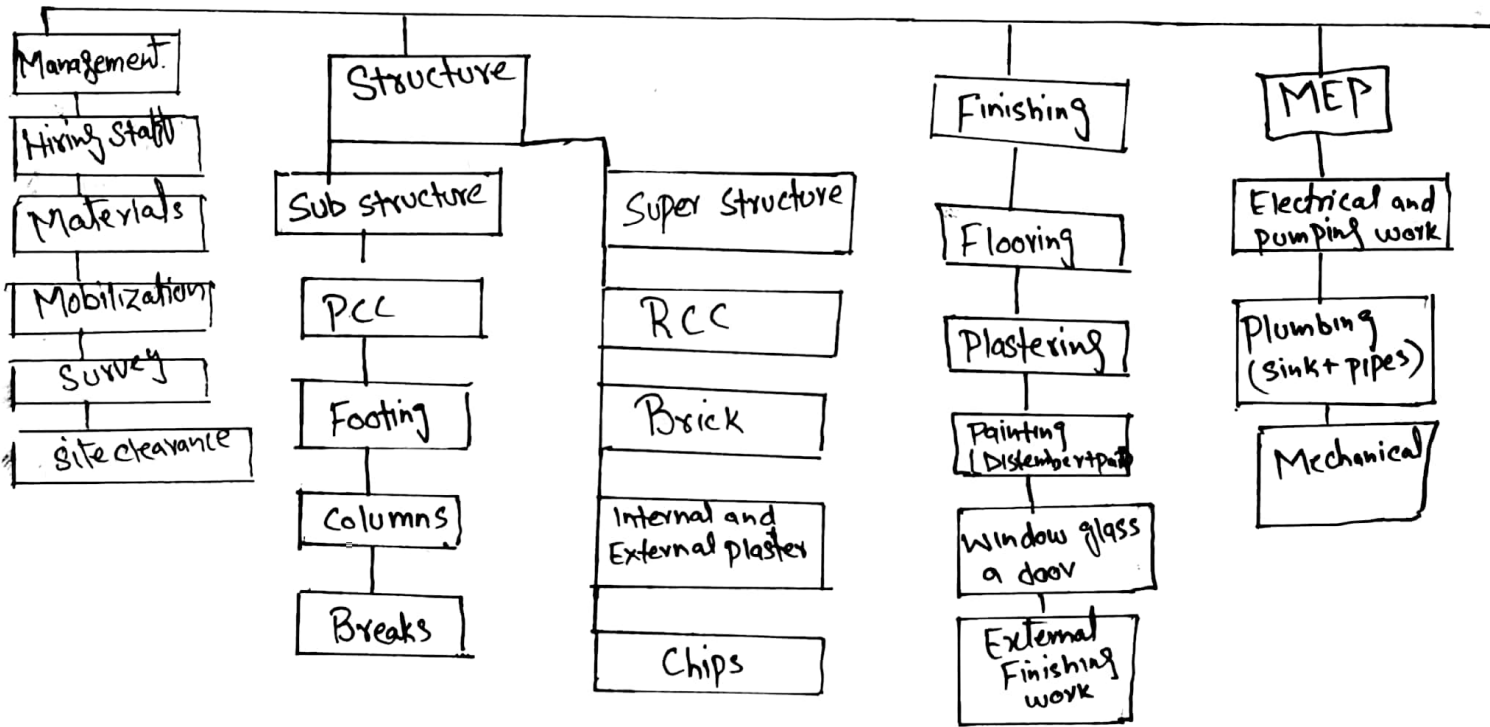
Submitted to:- Engr. Zeeshan Ahmad.

(a) Activity list of two story building:

- (1) Survey of site
- (2) Layout
- (3) 1:4:8 Lean
- (4) Pour Foundation or Raft
- (5) outside Plumbing
- (6) Frame House
- (7) Electric wiring
- (8) Layout Floor
- (9) Layout Roof
- (10) Curing
- (11) Insulate wall and Roof
- (12) Door and window
- (13) Inside Plumbing
- (14) outside Plumbing
- (15) Brick work
- (16) wood work
- (17) Plumbing and sanitary work
- (18) Electrification
- (19) Mummy and water tank
- (20) Septic Tank.
- (21) Landscape.
- (22) Finishing.

work breakdown structure of building ::

Construction of building (WBS)



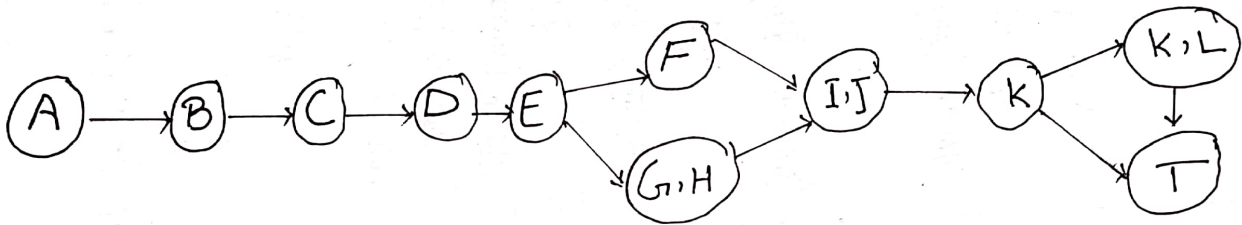
b) Time line of the building project (Pg#03)

Activity	Start	Finish	Duration in Days	Predecessor;
Survey	6-7-18	8-7-18	2	-
Drawings	9-7-18	13-7-18	4	1
Architectural Drawing	8-7-18	9-7-18	2	-
Designing of Building	11-7-18	12-7-18	2	-
Footing Marking	14-7-18	15-7-18	2	2
Excavation	16-7-18	26-7-18	9	3
PCC-BED	27-7-18	29-8-18	3	4
Column Marking	30-7-18	01-8-18	1	5
Footing Reinforcement	2-08-18	10-8-18	9	6
Column Reinforcement	11-8-18	17-8-18	6	7
Footing casting	24-8-18	23-8-18	4	8
Column starter	26-8-18	25-8-18	2	9
Column Shutter	30-8-18	29-8-18	3	10
Filling of column	1-9-18	31-8-18	2	11
Curing of column	7-9-18	6-9-18	5	12
Soil Filling	7-9-18	13-9-18	3	13
Plinth	14-9-18	28-9-18	15	14
PCC BED	13-9-18	15-9-18	3	-
Plinth Beam Reinforcement	16-9-18	2-9-18	4	-
Shuttering of Beams	21-9-18	27-9-18	6	-
Filling of Beam	28-9-18	28-9-18	1	-
Column Plinth	30-9-18	1-10-18	2	15
Filling upto Plinth	3-10-18	5-10-18	3	16
Column Roof extension	6-10-18	10-10-18	3	17
Column Shuttering	11-10-18	13-10-18	4	18
Form work	22-10-18	14-11-18	20	21
BEAMS	16-11-18	18-11-18	3	-
SLAB	19-11-18	29-11-18	9	22
Curing Concrete	2-12-18	13-12-18	10	24
<b>GROUND FLOOR</b>				
Column Roof extension	15-12-18	19-12-18	4	25
Column Shuttering	20-12-18	22-12-18	3	26
Filling of Column	23-12-18	24-12-18	2	27
Curing	26-12-18	30-12-18	5	28
Form work	2-1-19	24-1-19	20	29
BEAM SLAB	2-1-19	6-1-19	5	-
STAIRS	23-1-19	24-1-19	2	-
Reinforcement	25-1-19	8-2-19	13	30
STAIRS	25-1-19	25-1-19	1	-
BEAM	26-1-19	28-1-19	3	-
SLAB	30-1-19	8-2-19	9	-
CASTING Column	9-2-19	9-2-19	1	31
Curing of slab	11-2-19	22-2-19	10	33
<b>First Floor</b>				
Column	13-3-19	16-3-19	4	34
Reinforcement	16-5-19	30-5-19	13	39
CASTING Column	31-5-19	31-5-19	1	40
Brick work	12-6-19	28-6-19	15	42
Water Tank	29-6-19	3-7-19	4	43
<b>Finishing</b>				
Inst water fitting	4-7-19	20-7-2019	15	44
Electrical work	16-7-19	20-7-19	13	-
LANDING Fitting	17-07-19	18-7-19	02	-
Plastering	19-7-19	31-8-19	35	45
Tile work	26-7-19	28-Aug-19	30	-
Painting	29-Aug-19	23-Sep-19	23	50
Sanitary	7-Sep-19	17-Sep-19	10	-
Cleaning of site	24-02-19	24-02-19	1	52

(C) Critical Path Method of the Project

	Activity	Duration in a weeks	Predecessor
A	Survey/Excavate	1	
B	Mobilization	1	
C	Grubbing of site	1	A
D	Layout	2	B
E	Shuttering/Form work	4	C
F	Foundation	3	D
G	Beam/slab concreting	3	E
H	Brick work	3	F
I	Sanatory work	2	F
J	Electrification	2	G, H
K	Wood work	3	I, J
L	Flooring	2	K
M	Finishing	3	K, L
N	Miscellaneous	3	T

Precedence diagram :-



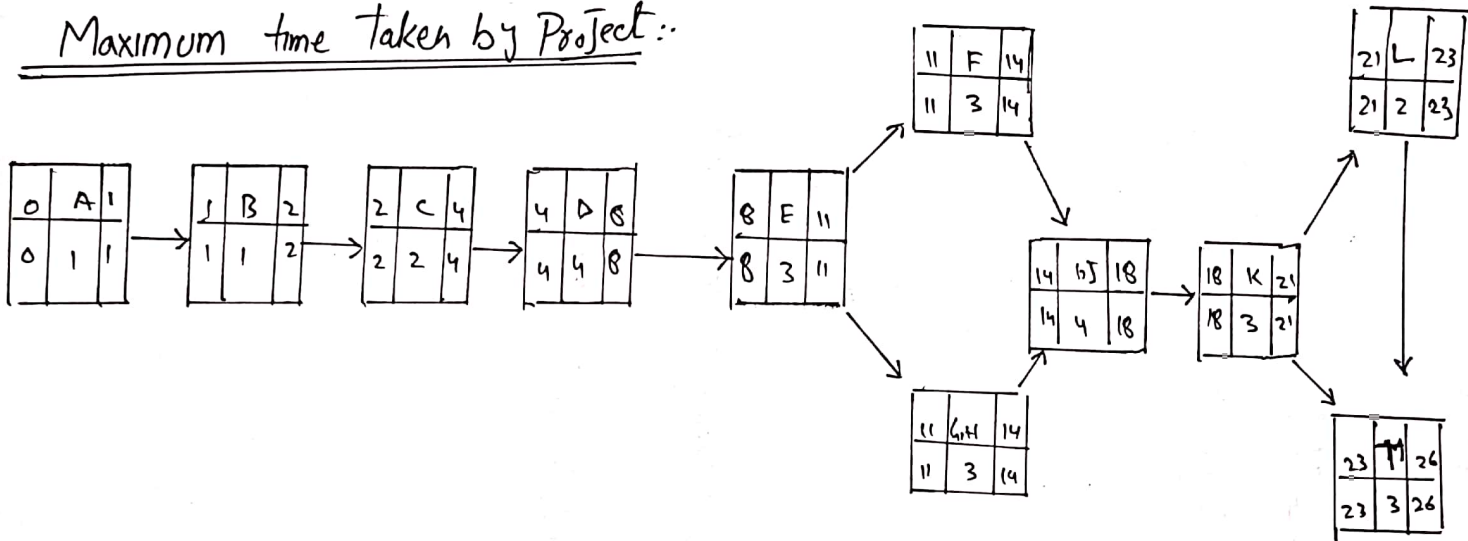
Path A = 26 weeks

Path B = 24 weeks

Critical path of over project is Path "A".



(D) Maximum time taken by Project:



Maximum time for our Project as = 26 week

182 days

(E) Slack Time For the Activities:-

$$\underline{\text{Slack}} = \underline{\text{Late Finish}} - \underline{\text{Early Finish}}$$

So,

$$A = 1 - 1 = 0$$

$$C = 2 - 2 = 0$$

$$D = 4 - 4 = 0$$

$$E = 8 - 8 = 0$$

$$F = 11 - 11 = 0$$

$$G = 14 - 14 = 0$$

$$H = 14 - 14 = 0$$

All values comes 0 so no slack.

There is no slack in all activities