

CONSTRUCTION TECHNOLOGY AND MANAGEMENT CE 308



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Dr. Santu kar
Course Instructor CE 308

PREFACE

This project serves as an introductory gateway into the realm of construction technology and management, a domain where creativity meets functionality, and where meticulous planning intertwines with practical execution. The landscape of construction technology and management is ever-evolving, driven by advancements in materials, techniques, and methodologies.

Within these pages, readers will embark on a voyage through the various facets of construction, delving into topics such as project planning, scheduling, cost estimation, budgeting, construction methods

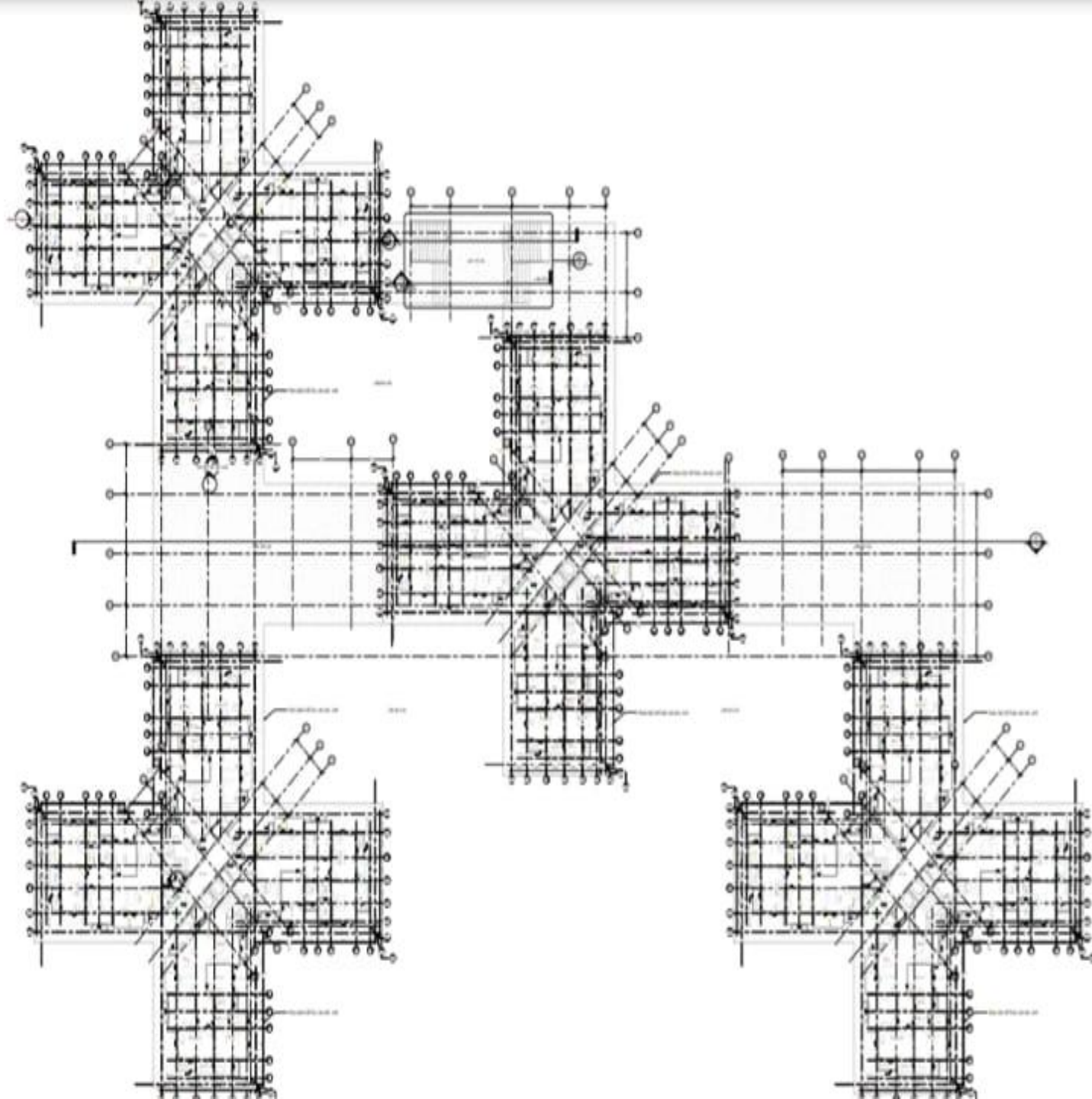
Moreover, this preface recognizes the pivotal role played by practitioners, educators, researchers, and industry professionals in advancing the frontiers of construction technology and management. Their expertise, insights, and contributions are invaluable in driving innovation, fostering excellence, and nurturing the next generation of talent in this field.

Cost Estimation of Faculty Residence (F-Type)





DATE	REV	REV BY	DESCRIPTION	DATE	NO.	ISSUED TO	
ARCHITECT							
SURESH GOEL & ASSOCIATES							
ARCHITECTS ENGINEERS PLANNING							
CHRG. NO./JOB START-TO				BT - NEW DELHI			
						PROJECT CODE	
						H002	
Name : DRU		Name : SAG		Name :		BUILDING CODE	
Designed By Architect		Checked By Architect		Validated By Architect		H002 4	
PURPOSE							
RT GROUND FLOOR TYPE - P HOUSEING							
 C-95, SHIVAJI, NEW DELHI-110047 TEL: 811108676/84.41(1)34458 MAIL: rsat@sureshgoel.com				At: Baramulla Dist. <small>(CITY) 440-475/27</small>			
WORKING DRAWING				CLIENT:			
				BUILDING TYPE:			
				DRAWING TITLE:			
				TYPICAL UNIT PLAN			
				DRAWING NUMBER:			
				H002P-SG-API			
SCALE :- 1 : 50				SHEET SIZE :- A2			
				SHEET NO.-			



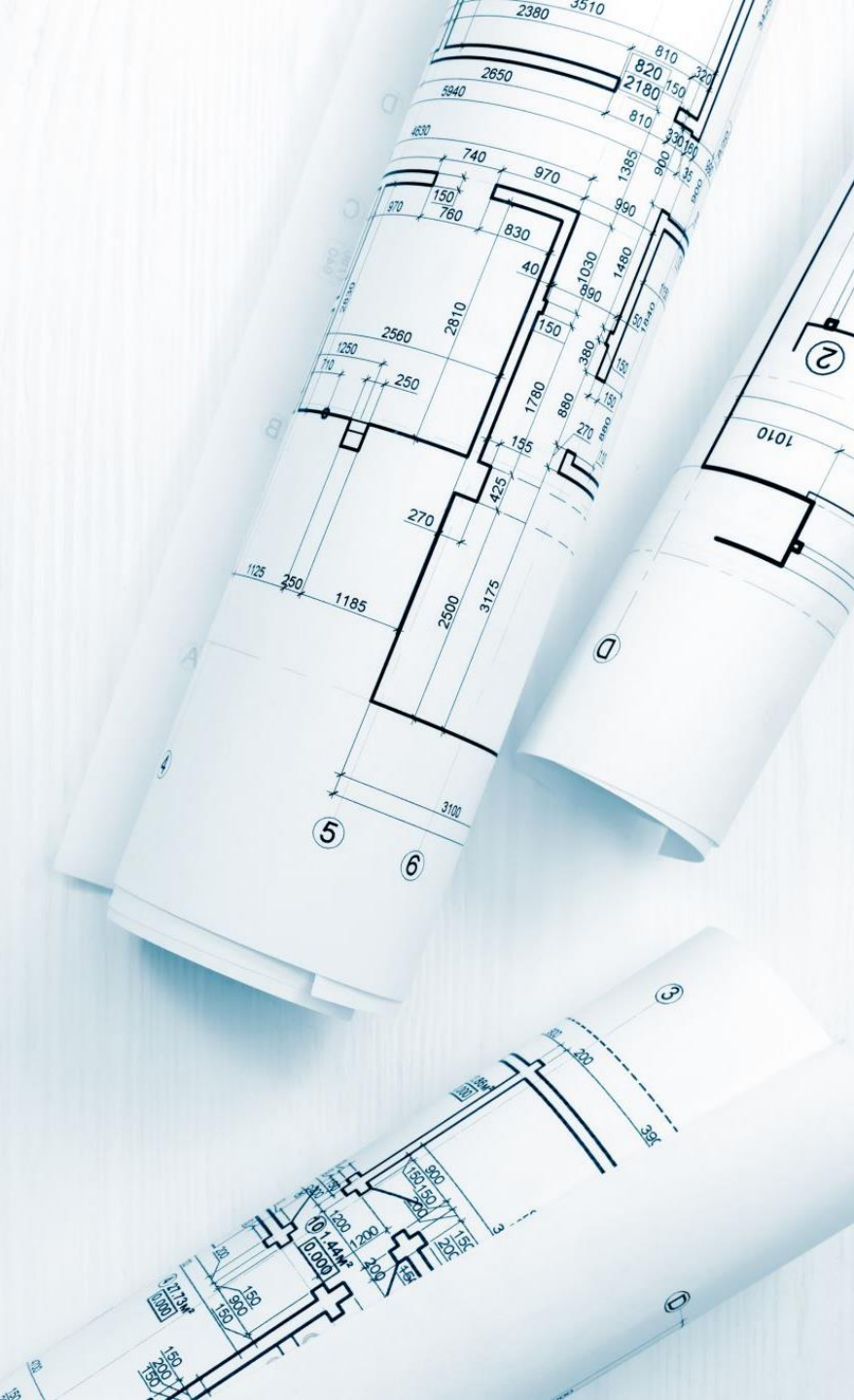
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NAME	ADDRESS	CITY	STATE	ZIP
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GARDEN GUILD & ASSOCIATES 10000 W. 10th Avenue, Suite 100 Denver, CO 80231 (303) 751-1111				
NAME	ADDRESS	CITY	STATE	ZIP
10000 W. 10th Avenue, Suite 100 Denver, CO 80231 (303) 751-1111				

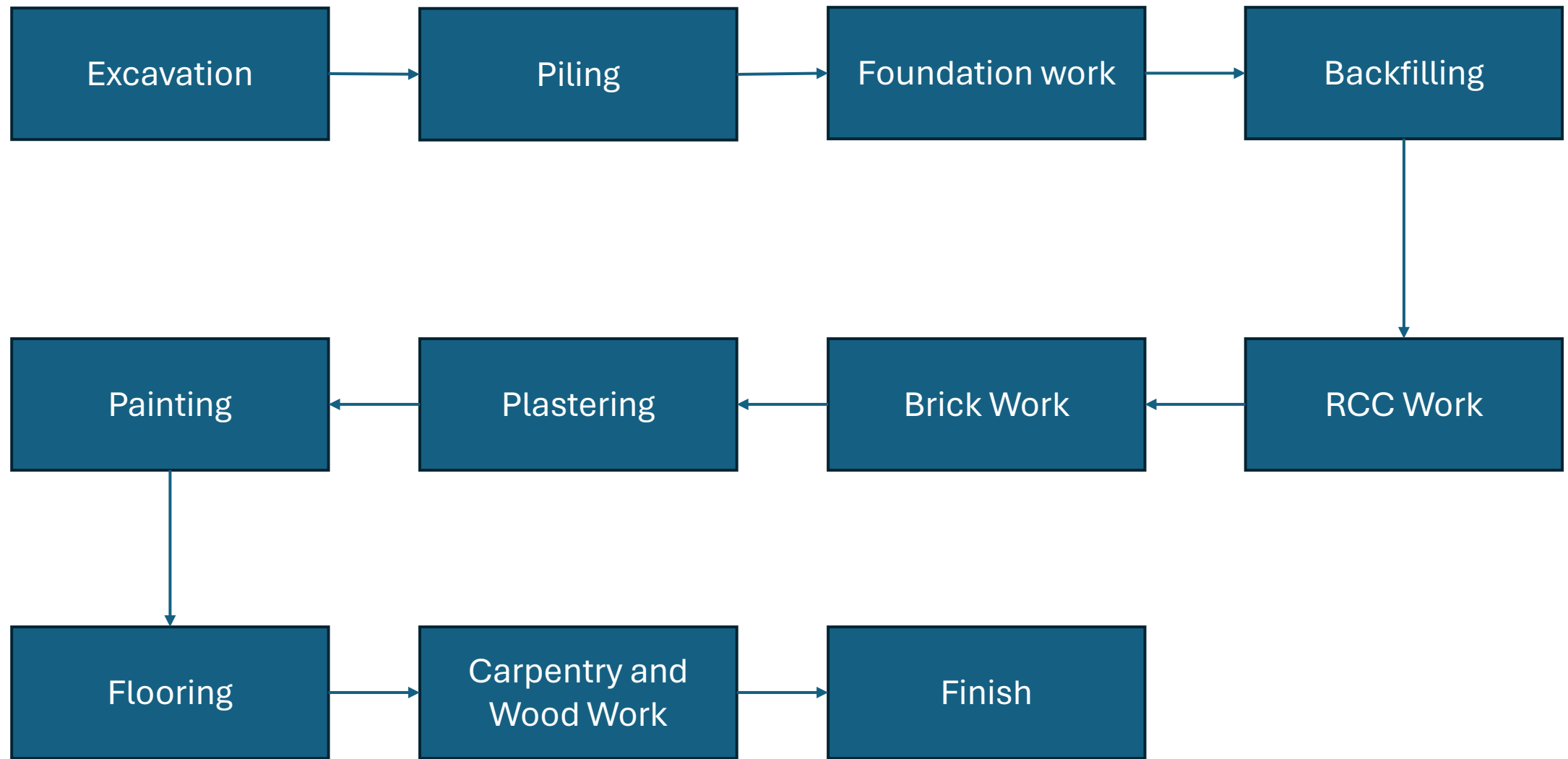
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Activity Involved in Construction

- Excavation
 - Pilling
 - Foundation Work
 - Backfilling
 - RCC Work
 - Brick Work
 - Plastering
 - Painting
- Flooring
 - Carpentry and Glass work



Duration and Cost Estimation of Activities

=> Excavation (Soft Soil)

Area = 1000m^2

Depth of excavation = 1.5m

-Resources required

1. Mazdoor-750 (Rs. 645/day)

2. Mason-75 (Rs. 749/day)

-Cost estimation and Resource Planning

Total Duration=25 Days (3Mason and 30 Mazdoor per day)

Total cost of activity(Labour)=Rs. 4,28,000

=>Piling

600 mm. Diameter

26 m. Depth

volume= 36.75 m^3

-Resources required

Steel cost= Rs 8,66,000

1. Mazdoor-20 (Rs. 645/day)

2. Mason-2 (Rs. 749/day)

-Cost estimation and Resource Planning

Total Duration=2 Days (1Mason and 10 Mazdoor per day)

Total cost of activity(Labour)=Rs. 11,400



=>Pile Cap

0.6 m , 610m³

Total volume (pile cap + piling)= 647m³

-Resources required

Steel cost= Rs 62,25,000

1. Mazdoor-1294 (Rs. 645/day)

2. Mason-110 (Rs. 749/day)

3. Bhisti-583 (Rs. 714/day)

4.Mixer-46 (Rs. 784/day)

-Cost estimation and Resource Planning

Total Duration=22 Days (5Mason, 59Mazdoor, 27Bhisti, 2Mixer per day)

Total cost of activity(Labour)=Rs. 13,70,000

-Material Cost

1:2:4(Ratio of Mixture)

Cement=92.4m³=>Rs. 4,10,000

Coarse=370m³=> Rs. 5,18,000

Sand=185m³=> Rs.2,77,500

Total cost of Material=Rs. 12,05,500

-Transportation Cost

Total=> Rs 1,38,000



=>Backfilling and Ramming

Volume of Fill= 1485 m^3

-Resources required

1. Mazdoor-223 (Rs. 645/day)

2. Mason-18 (Rs. 749/day)

-Cost estimation and Resource Planning

Total Duration=9Days (2Mason and 25 Mazdoor per day)

Total cost of activity(Labour)=Rs. 1,57,500



=>RCC

Volume= 2041m³

-Resources required

1. Mazdoor-4082 (Rs. 645/day)
2. Mason-350 (Rs. 749/day)
3. Bhisti-1837 (Rs. 714/day)
4. Mixer-143 (Rs. 784/day)

-Cost estimation and Resource Planning

Total Duration=70 Days (5Mason, 60Mazdoor, 27Bhisti, 2Mixer per day)

Total cost of activity(Labour)=Rs. 44,30,370

-Plants and Machine

Concrete Mixer-143(Rs. 500/day)

Needle Vibrator-143(Rs. 350/day)

Total Cost=Rs.1,64,500

-Material Cost

1:2:4(Ratio of Mixture)

Cement=292m³=>Rs. 12,90,000

Aggregate=1170m³=> Rs. 3,95,000(Fine)+Rs. 12,28,500(Coarse)=Rs. 16,23,375

Sand=585m³=> Rs.8,77,500

Total cost of Material=Rs. 12,05,500

-Transportation Cost

Total=> Rs3 ,25,500



=>Brick Work

-Resources required

1. Mazdoor-2250 (Rs. 645/day)
2. Mason-750 (Rs. 749/day)
3. Bhisti-300 (Rs. 714/day)

-Cost estimation and Resource Planning

Total Duration=75 Days (10Mason, 30Mazdoor, 4Bhisti per day)

Total cost of activity(Labour)=Rs. 24,41,500

-Cement Mixing

Mazdoor-210 (Rs. 645/day)

Bhisti-20 (Rs.714/day)

=>Total Duration =21 Days(10 Mazdoor and 1 Bhisti)

=>Total Cost(Labour)=Rs. 1,49,730

-Material Cost

1:2:4(Ratio of Mixture)

Cement=>Rs. 2,07,500

Aggregate=> Rs. 3,50,000

Brick =>Rs.28,00,000

Total cost of Material=Rs. 33,57,500

-Transportation Cost

Total=> Rs. 3,11,000



=>Steel Cost

Volume of steel in Column= 15.2 m^3 (Rs. 75/kg)
Volume of steel in Beam= 0.48 m^3 (Rs. 75/kg)
Volume of steel in Slab= 214.5 m^3 (Rs. 65/kg)
Total Cost of Steel=Rs. 92,81,000(Column and Beam)+Rs. 10,95,00,000(Slab)= Rs. 11,87,81,000

=>Plastering

6400 m^2 area(Interior), 6400 m^2 area(Exterior) and 10725 m^2 area(Ceiling)

=>Cost(Interior)

Total Duration=60 Days
1. Mason=1370(Rs. 749/Day)=> Rs. 10,27,000
2. Mazdoor=1713(Rs. 645/Day)=> Rs. 11,04,000
3. Bhisti=1713(Rs. 714/Day)=> Rs.12, 23,000
Total Cost(Labour)=> Rs. 33,54,000

=>Cost(Exterior)

Total Duration=30 Days
1. Mason=334(Rs. 749/Day)=> Rs. 2,88,000
2. Mazdoor=640(Rs. 645/Day)=> Rs. 4,13,000
3. Bhisti=640(Rs. 714/Day)=> Rs.4,57,000
Total Cost(Labour)=> Rs. 11,58,000

⇒ Cement cost=Rs. 8,47,000
⇒ Transportation Cost= Rs. 25,000



⇒ **Flooring**

Total Area = 9750 m^2

Total Volume = 780 m^3

Mason-172(Rs. 749/day)⇒ Rs.1,29,000

Bhisti-78(Rs. 714/day)⇒ Rs.56,000

Mazdoor-172(Rs. 645/day)⇒Rs. 1,11,000

⇒ **Cutting, Grinding and Polishing**

Mazdoor-390(Rs. 645/day)⇒Rs. 2,51,000

Machine-312(Rs.1000/day)⇒3,12,000

⇒Tile and Material Cost

Cost per sq. feet(Tile)=Rs. 250

Total Cost(Tile)=Rs.2,63,00,000

Cost of Cement=Rs.5,60,000

⇒ Transportation Cost= Rs. 16,000



⇒ **Whitewashing**

No. of Lime coat=3

Total duration=15 days

Washer=472=Rs. 3,52,000

Mazdoor= 236=Rs. 1,53,000

No. of Colour coat=2

Total duration=30 days

Washer=708=Rs. 5,28,000

Mazdoor= 236=Rs. 1,53,000

No. of Distemper=3

Total duration=30 days

Painter=1888=Rs. 14,06,500

Mazdoor= 944=Rs. 6,08,800

Thickness of 1 Coat=0.00015m.

Total Surface Area=23,600 m².

⇒ **Material Cost**

Whitewashing=Rs. 22,65,600(Rs. 32/m²)

Distemper=Rs. 42,48,000(Rs. 60/m²)

Colourwash=Rs. 28,32,000(Rs. 60/m²)



=>Carpentry

Door Area= 1190 m^2

Total Volume of Door= 60 m^3

1. Carpenter= 1200 (Rs. 1200/day)=>Rs. 14,40,000
2. Mazdoor= 120 (Rs. 645/day)=>Rs. 77,400

Resource Planning=> 30 days and (4 Mazdoor and 40 Carpenter per day)

-Material Cost(Door and Chaukat)=> Rs. 17,85,000

Window Area= 940 m^2

1. Carpenter= 846 (Rs. 1200/day)=>Rs. 10,15,200
2. Mazdoor= 94 (Rs. 645/day)=>Rs. 60,630

Resource Planning=> 30 days and (3 Mazdoor and 28 Carpenter per day)

-Material Cost=> Rs. 2,11,500

=>Glass Work

Area= 800 m^2

1. Glazier= 188 (Rs. 2000/day)=>Rs. 3,76,000
2. Mazdoor= 10 (Rs. 645/day)=>Rs. 6,450

Resource Planning=> 10 days and (1 Mazdoor and 19 Glazier per day)

- Material cost

Glass Cost=Rs. 4,80,000(Rs. 600/ m^2)



FILE

TASK

RESOURCE

REPORT

PROJECT

VIEW

FORMAT

Team Planner

Assign Resources

Resource Pool

Add Resources

Information

Notes

Details

Level Selection

Level Resource

Level All

Leveling Options

Clear Leveling

Next Overallocation

Timeline

2nd Quarter

3rd Quarter

4th Quarter

1st Quarter

2nd Quarter

3rd Quarter

Start

Mon 01-04-24

Mon 23-09-24

Finish

Sat 13-09-25

Add tasks with dates to the timeline

Task Mode

Task Name

Duration

Start

Finish

Predecessors

1

Building Estimation

531 days

Mon 01-04-24

Sat 13-09-25

2

Excavation

25 days

Mon 01-04-24

Thu 25-04-24

3

Piling Work

24 days

Fri 26-04-24

Sun 19-05-24

2

4

Pilling

2 days

Fri 26-04-24

Sat 27-04-24

2

5

Pile Cap

22 days

Sun 28-04-24

Sun 19-05-24

4

6

Column

2 days

Mon 20-05-24

Tue 21-05-24

5

7

Backfill

9 days

Wed 22-05-24

Thu 30-05-24

6

8

Foundation

3 days

Fri 31-05-24

Sun 02-06-24

7

9

Beam

1 day

Mon 03-06-24

Mon 03-06-24

8

10

Slab

4 days

Tue 04-06-24

Fri 07-06-24

9

11

1st floor

16 days

Sun 23-06-24

Mon 08-07-24

10

12

Column

2 days

Sun 23-06-24

Mon 24-06-24

10FS+15 days

13

Brickwork

9 days

Tue 25-06-24

Wed 03-07-24

12

14

Beam

1 day

Thu 04-07-24

Thu 04-07-24

13

15

Slab

4 days

Fri 05-07-24

Mon 08-07-24

14

16

2nd floor

16 days

Wed 24-07-24

Thu 08-08-24

11FS+15 days

17

Column

2 days

Wed 24-07-24

Thu 25-07-24

15FS+15 days

April

May

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July

August

September

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Foundation

Beam

Slab

1st floor

Column

Brickwork

Beam

Slab

2nd floor

Column

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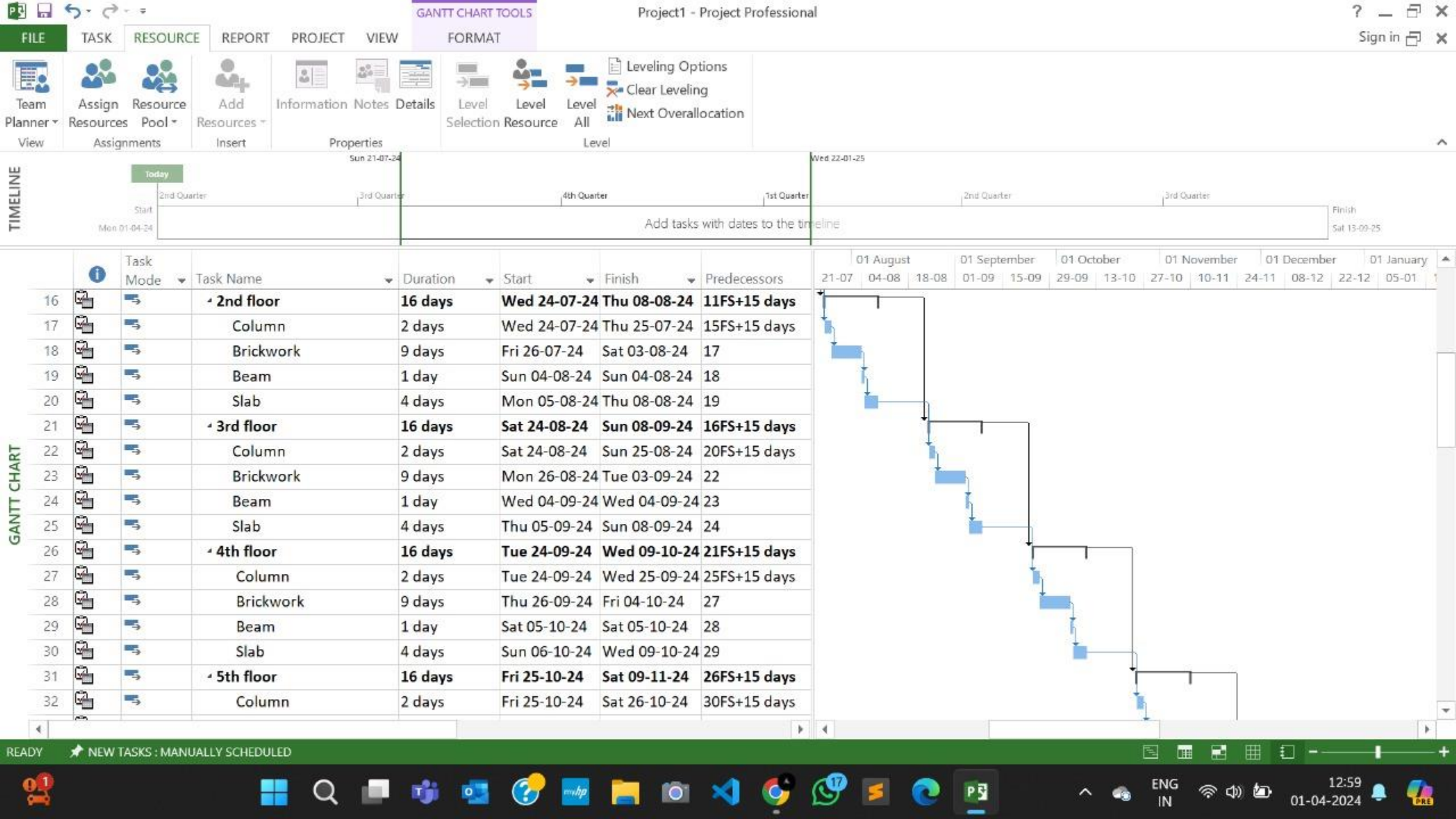
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1

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12:57

01-04-2024





GANTT CHART

⇒Total Cost of Project=Rs. 18,80,06,100

⇒After Sundries@2%,G.S.T.@18%,Cess@1% and Contractor's profit@15%=Rs. 25,56,88,296

⇒Duration of Project=531 days(1year, 5months, 16days)

⇒Note(cost of wiring, plumbing, interior furnishing, elevator ,stairs, and connecting corridor are not taken into account due to lack data)

⇒Hence the real cost of project =Rs.30,00,00,000

⇒Our cost estimation of project=Rs25,56,88,286

Conclusion

The budget estimation report for the new residential building(F-Type) provides a comprehensive overview of the anticipated costs associated with its design, construction, and completion. Through meticulous analysis of various factors such as materials, labor, equipment, permits, and contingencies, we have generated realistic projections

The findings of this project underscore the importance of careful planning and strategic decision-making in managing the financial aspects of a construction project of this scale. By accurately estimating costs and identifying potential cost-saving opportunities, stakeholders can mitigate risks, optimize resources, and ensure the successful execution of the project within budgetary constraints.

It is important to note that while every effort has been made to provide accurate estimations, unforeseen circumstances or changes in market conditions may impact actual costs during the course of the project

In closing, I would like to express my gratitude to all team members who contributed their expertise, dedication, and support to the success of this project as well our team like to thank **Dr. Santu kar** course instructor of CE308 for giving us this wonderful project which helped us to learn and understand many new concept of construction technology and management(CE 308) . Together, we have demonstrated the power of teamwork, innovation, and perseverance in achieving our goals.