

Planning, Scheduling, Budgeting and Tracking of a Multi-Storey Building Using Primavera P6

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Abstract: Effective project management helps in achieving the aim of the project. Numerous issues are being confronted by the construction business, major of them are cost and time overrun. In the present practice for construction there is less awareness about software which helps in smooth management of construction as compared to conventional way of handling the project. To reduce the complexity of construction project various tools like Primavera P6, M.S project are effective project software tools used for proper planning, scheduling and detailed cost estimation of various activities, resources involved in the project. In this present study we have planned and schedule G+20 residential building and allocated the needed resources and after that we got the estimated cost of the construction. We have also tracked the progress of the project at various intervals of time. This paper tries to explain how effective is to plan, schedule, to estimate budget and tracked the progress of a G+20 residential building using Primavera P6 software.

Keywords: Planning, scheduling, cost estimation, budgeting, project management, Primavera P6.

1. Introduction

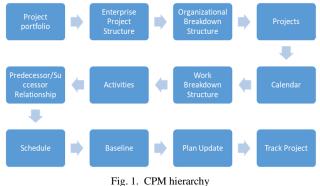
The construction industry in developing countries like India even today as the market and competition are increasing but still many of the projects are being done using conventional methods and approach for the construction which have improper planning and management leads to time and cost overrun and different conflicts. Project management on the other hand seems to offer what is needed in terms of tools and techniques to raise industry standards. There is a lack of proper practice of project management prior to the start of the project in India.

Large building construction projects mainly includes various complex phases this project cross normal business hierarchies and chain of command making this projects and organizational wide challenge. The pressure to complete such projects on time and within budget is making project developers to implement project management process.

Planning is the process of identifying all the activities necessary to successfully complete the project. Scheduling is the process of determining the sequential order of the planned activities, assigning realistic durations to each activity and determining the start and finish dates of each activity. Budget is the estimated construction cost required for the completion of the particular project.

The objective of this study are:

- 1. Collect the data of the particular building for preparing the schedule and plan for the project.
- 2. To identify the scheduling techniques used for proper planning and scheduling.
- 3. To compute the practical durations required to carry out the activities and its correct sequence.



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P6 EPPM also helps in:

- 1. Planning and scheduling
- 2. Optimizing organizational capacities and prioritizing projects
- 3. Portfolio management
- 4. Resource allocation, levelling and its management
- 5. Mitigating the risks and issues
- 6. Reporting and tracking the projects progress
- 7. Sound decision making and team collaborations
- 8. Reports on earned value performances

Rapid development of communications and computer technologies: After the 1970's, competitions in aerospace industry and demands for advanced technology by the Moon Landing project facilitated many technology breakthroughs on the hi-tech products. The first and second energy crises also led to evoke the environmental awareness and the concept of sustainable development. As a result, products which previously were limited in kind but huge in volume became more diversified and lesser in volumes to meet the requirements of energy efficiency, increased safety, and improved compatibility. As the technology became more popular and

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commercialized, hi-tech products were no longer elusive.

A. Problem Statement

In this project we are conducting an analysis on planning, scheduling and budgeting of a residential building (G+20) situated in Thane GB Road by using Primavera P6.

B. Scope

Planning: The planning stage is the preliminary stage of project management where there will be data collection along with the specifications that is stated to carry out smooth execution of the project.

Scheduling: Project is arranged in a proper work order which is drafted in Work Breakdown Structure (WBS) in Primavera P6. The list of activities is prepared and ordered properly with interrelationships. Duration of the project is determined along with the estimated cost of the project.

Budgeting: is the process of creating a plan to spend your money. This spending plan is called a budget. Creating this spending plan allows you to determine in advance whether you will have enough money to do the things you need to do or would like to do. Budgeting is simply balancing your expenses with your income.

Tracking: After the starting of project a track record of the project is taken with the help of Primavera P6 which helps in the tracking the actual completion of the project with the drafted timeline.

C. Objectives

- 1. To collect the data and specification of the urban building.
- 2. To make plan in AutoCAD and 3-D model in Revit.
- 3. Plan and schedule various activities in primavera p6 software.
- 4. Budget of the construction is found out.
- 5. Tracking and monitoring of the project.

2. Methodology

A. Planning

Construction planning is a fundamental and challenging activity in project management and execution of construction projects. It includes the selection of construction techniques, the definition of work task, the estimation of required durations and resources of individual task, and identify the interdependency between different work tasks. For this project Actual planning process starts with the collection of data like layout (Floor plan, section and elevation), project, start date, activities involved in the construction of a G+20 Residential building at Thane GB Road (has 1BHK with total 120 flats) equipped with modern technologies like Smart parking tower, Sewage treatment plant (STP) and solar panels. The activities sequences, duration taken, resources needed and its amount, cost spent for each and every activity.

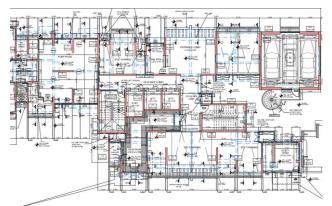


Fig. 2. Ground floor plan

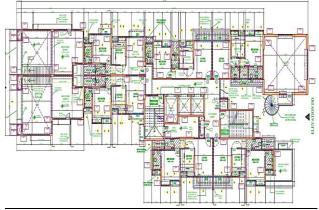


Fig. 3. Typical floor plan



Fig. 4. 3-D model

B. Scheduling of (G+20) Residential Building

Project Portfolio is a collection of projects where you can easily view data of more than one project at a time. It facilitates effective new product development and management of the projects by grouping the projects and programs together to optimize the organization or a project success. Project portfolio also allows reviewing the summary data and status information of an organization or a project.

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Fig. 5. Project portfolio

Enterprise Project Structure (EPS) represents the hierarchical structure of all projects in an organization. EPS will always occupy the highest level of the project management hierarchy. It can be subdivided into as many levels as needed to represent the entire work of an organization. The number of EPS levels or subsidiaries depends on the scope of the projects.

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Fig. 6. Enterprise project Structure

Organizational Breakdown Structure (OBS) is a project organization framework for identification of responsibility, accountability, management and approvals of all authorized work scope.

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Fig. 7. Organizational breakdown structure

Projects is a series of activities, which are performed to create a service, product or a measurable business result in any organization. Project will have a definite beginning and end. A project is concluded in the hierarchy, when its objectives have been completed or is ended in between.

Project ID	Project Name	Start	Finish	At Completion Duration	Schedule Finish	Total Activities
A Enterprise	All Initiatives	18-Nov-21 A	30-Mar-24	735d		281
⊨ 🍐 E&C	Engineering & Cons	18-Nov-21 A	30-Mar-24	735d		281
E 📣 LEARN	Learning portfolio	18-Nov-21 A	30-Mar-24	735d		281
📄 RES BUILD	Residential urban building	18-Nov-21 A	30-Mar-24	735d	30-Mar-24	281

Calendar is assigned to both activities and resources where they are used for scheduling activities and levelling resources. The Primavera P6 supports three types of calendars namely Global calendar, Project calendar and Resource calendar. There is an option to assign two different calendars to activities and resources in a particular project.

In this project we have used 6-day Global calendar.

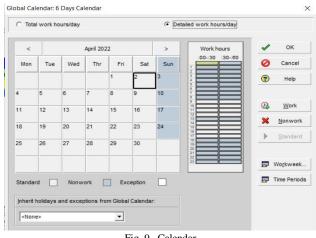


Fig. 9. Calendar

Work Breakdown Structure (WBS) is a chart in which the critical work elements called tasks of a project are illustrated to portray their relationships to each other and to the project as a whole. Creating WBS is the foremost step done by a project manager while creating a project.

Activities are the basic work elements of a project. An activity is also known as a task, item or event. These are the lowest level of manageable work elements in a project. Activities typically have estimated resources, costs and durations. However, milestone activities do not have any duration or cost.

ode	WBS Name	Total Activities
RES BUILD	Residential urban building	281
RES BUILD.1	Documentation	8
RES BUILD.2	Acquisition of material and equipments	5
RES BUILD.3	Initiation	5
RES BUILD.4	Sub-structure	14 188
RES BUILD.5	Superstructure	188
RES BUILD.5		3
RES BUILD.5.2	1st Floor	8
RES BUILD.5		3
RES BUILD.5.3		8
E RES BUILD.5		3
RES BUILD.5.4		8
RES BUILD.5		3
RES BUILD.5.5		8
RES BUILD.5		3
RES BUILD.5		3
RES BUILD.5.7		8
RES BUILD.5		3
RES BUILD.5.8		8
Es BUILD.5		3
RES BUILD.5.9		8
RES BUILD.5		3
RES BUILD.5.10		8
RES BUILD.5		3
RES BUILD.5		3
RES BUILD.5.12	11th Eloor	8
RES BUILD.5		3
RES BUILD.5.13		8
RES BUILD.5		3
RES BUILD.5.14	13th Floor	8
RES BUILD.5		
RES BUILD.5.15		8
RES BUILD.5		3
RES BUILD.5.16		8
ES BUILD.5		3
RES BUILD.5.17	16th Floor	8
RES BUILD.5	.* Tower parking	3
RES BUILD.5.18	17th Floor	8
RES BUILD.5		3
RES BUILD.5.19		8
RES BUILD.5		
RES BUILD.5.20		
RES BUILD.5		3
RES BUILD.5.21		8
RES BUILD.5	2 Tower parking	3
ES BUILD.5.22	Terrace	18
RES BUILD.5	Tower parking	10
RES BUILD.6	Finishes works	11
RES BUILD.9	MEP Works	10
RES BUILD.9.1		
RES BUILD.9.2		
RES BUILD.9.3	-	2
RES BUILD.7	Sewage Treatement plant (STP)	6
RES BUILD.10	Commercial shops	29
RES BUILD.8	Project close out	5

Fig. 10. WBS

*	Activity ID	Activity Name	Budgeted Total Cost	Start v	Finish	Remaining Duration	Original Duration	Critical	Schedule % Complete
1.	Total		RS207,722,930.00	18-Nov-21 A	30-Mar-24	7356	736d		01
2		BUILD Residential urba	RS207,722,930.00	18-Nov-21 A	30-Mar-24	7356	736d	-	03
3		LD.1 Documentation	R\$3,262,125,00	18-Nov-21 A	03-Jan-22	384	39d		03
4		Start of project		18-Nov-21 A		Dd	0d		01
5		Construction contractor aggrement	R\$777.000.00		26-Nov-21	7d	7d	R	01
6		Architectural drawings	BS150.000.00		06-Dec-21	84	8d	R	01
7		Specification	R\$555.000.00		11-Dec-21	54	5d		0
8		BCC drawings	R\$240.000.00		17-Dec-21	10d	10d	R	0
9		Work orders	BS666 000 00		24-Dec-21	6d	6d		0
10		Clearance certificate	RS485.625.00		29Dec-21	4d	4d	R	0
11		Comencement certificate	R\$388 500.00		03Jan-22	3d	3d	R	0
12		LD.2 Acquisition of material a	RS67 382 065 00		27Jan-22	23d	23d	I.e.	0
13		Machinery	RS2 700.000.00		13Jan-22	12d	12d		0
14		Tools and plants	R\$5,545,000.00		18Jan-22	4d 7d	4d 7d	8	0
		Shuttering and Centering	RS24,040,170.00		27-Jan-22				
16		Steel	R\$32,756,895.00 R\$2,340.000.00		22-Jan-22	4d	4d 1d	F	0
17		Fixed Salary pesonals			24 Jan-22	1d			0
	Activity ID	Activity Name	Budgeted Total Cost	Start v	Finish	Remaining	Original Duration	Critical	Schedule Comple
18	- T WBS: RES BU	LD.3 Initiation	R\$1,418,120.00	04-Jan-22	12-Jan-22	84	8d	_	0
19	📾 A1120	Site cleaning	R\$3,840.00	04-Jan-22"	04-Jan-22	1d	1d	R	
20	🖨 A1130	Surveying and marking boundaries	RS27,600.00	05-Jan-22"	07-Jan-22	3d	3d		
21	📟 A1140	Water and electricity arrangement	R\$1,347,000.00	08-Jan-22	10Jan-22	2d	2d		(
22	📾 A1150	Labour camp setup	R\$19,200.00	08-Jan-22	10Jan-22	2d	2d		1
23	📟 A1160	Site mobilization	RS20,480.00	11-Jan-22	12Jan-22	2d	2d	R	(
24	- 🖷 WBS: RES BUI	LD.4 Sub-structure	R\$1,449,520.00	13Jan-22	31-Mar-22	66d	66d		(
25	📾 A1170	Excavation for foundation	RS271,200.00	13Jan-22	24Jan-22	10d	10d		(
26	📟 A1180	PCC for foundation	RS20,480.00	25Jan-22	27-Jan-22	2d	2d	R	
27	📾 A1190	RCC	R\$75,600.00	28Jan-22	10-Feb-22	12d	12d		1
28	📾 A1200	Shuttering	R\$120,000.00	11-Feb-22	17-Feb-22	6d	6d		(
29	📟 A1210	Casting	RS20,480.00	18-Feb-22	19-Feb-22	2d	2d		3
30	📾 A1220	Deshuttering	RS40,000.00	21-Feb-22	22-Feb-22	2d	2d	R	1
81	📟 A1230	Backfilling	R\$34,600.00	23-Feb-22	28-Feb-22	5d	5d		(
32		PCC for PB	R\$10,240.00		01-Mar-22	1d	1d	R	(
13		RCC and shuttering of PB	R\$225,200.00		15-Mar-22	12d	12d		
34		Casting of PB	RS30,720.00		18-Mar-22	3d	3d		3
35		UG Tank casting	RS10,240.00		16-Mar-22	1d	1d		
36		Backfilling and rubble soling	R\$548,600.00		25-Mar-22	6d	6d		(
37		RCC and PCC	R\$35,440.00		30-Mar-22	4d	4d	R	1
8	A1290	DPC	R\$6,720.00		31-Mar-22	1d	1d		(

	Activity ID		Activity Name	Budgeted Total Cost		Finish	Remaining Duration	Original Duration	Critical	Schedule % Complete
39 40 41		WBS: RES B	NLD.5 Superstructure UILD.5,1 Ground floor RCC work	RS39,027,440,00 RS1,528,100,00 RS1,75,000,00	01-Apr-22	06-Nov-23 10-May-22 08-Apt-22	498d 34d 7d	498d 34d 7d	ঘ	0% 0%
42		A1310	Shuttering Casting	RS200,000.00 RS40,000.00	09-Apr-22	12-Apr-22 14-Apr-22	34	3d	A A	0%
44 45		 A1330 A1340 	Deshuttering Shuttering and RCC for slab and bea	R\$65,000.00	15-Apr-22	16-Apr-22 04-May-22	2d	2d	A A	0%
48 47		A1350	Casting Desuttering	R\$44,800.00 R\$80,000.00	05-May-22	06-May-22 10-May-22	20	2d	되	0%
48 49		WBS: RE	S BUILD.5.1.1 Tower parking RCC work And shuttering	R\$108,300.00 R\$67,500.00	18-Apr-22 18-Apr-22	07-May-22 20-Apr-22	18d 3d	18d 3d		0% 0%
50 51			Deshuttering	RS20,800.00 RS20,000.00	07-May-22	05-May-22 07-May-22	1d 1d	1d	N N	0% 0%
52 53		📟 A1390	UILD.5.2 1st Floor Laying RCC	R\$1,304,300.00 R\$315,000.00	09-May-22	29Jun-22 11-May-22	45d	3d	R	0%
54 55		 A1420 A1430 	Erection of Aluminium formwork Laying of RCC Slab	R\$500,000.00 R\$217,000.00	23-Jun-22	22-Jun-22 24-Jun-22	36d 2d	2d	ব ব	0%
58 57 58		A1440	Casting of whole floor Deshuttering	R\$84,000.00 R\$80,000.00		27-Jun-22 29-Jun-22	2d 2d		ব	0% 0%
59 60			RCC work And shuttering	RS67,500.00 RS20,800.00		14-May-22 25-Jun-22	36			0%
61 62		📟 A1490	Deshultering UILD.5.3 2nd Floor	RS20,000.00 RS1,304,300.00	28-Jun-22	28Jun-22	10	1d	P	0%
63 64		 A1500 A1510 	Laying RCC Erection of Aluminium Formwork	RS315,000.00 RS500.000.00	29-Jun-22	01-Jul-22 29-Jul-22	3d 24d	3d	ব	0%
65 66		 A1520 A1530 	Laying of RCC Slab Casting of whole floor	RS217,000.00 RS84,000.00	30-Jul-22	01-Aug-22 03-Aug-22	2d	2d	N N	0%
67 68			Deshuttering 8 BUILD.5.3.1 Tower parking	R\$80,000.00	04-Aug-22	05-Aug-22	2d	2d	R	0%
69 70		 A1550 A1560 	RCC work. And shuttering Casting	RS67,500.00 RS20,800.00	02-Aug-22	05-Jul-22 02-Aug-22	3d 1d			0% 0%
71	Activity ID		Deshuttering Activity Name	RS20.000.00 Budgeted Total Cost	04-Aup-22	04-Aug-22 Finish	1d Remaining	Original	Critical	0% Schedule %
72	-		UILD.5.4 3rd Floor	R\$1,304,300.00	05-Aug-22	27-Aug-22	Duration 195			Complete 0%
73		😑 A1590	Laying RCC Erection of Aluminium Formwork	RS315,000.00 RS500,000.00	09-Aug-22	08-Aug-22 20-Aug-22	3d 10d	3d 10d	য	0%
75		 A1600 A1610 A1620 	Laying of RCC slab Casting of whole floor	RS217,000.00 RS84,000.00	24-Aug-22	23-Aug-22 25-Aug-22	2d 2d	2d 2d	ব্	0%
77 78 79		 A1620 WBS: RES A1630 	Deshuttering BUILD.5.4.1 Tower parking RCC work And shuttering	RS80.000.00 RS108.300.00 RS67,500.00	09-Aug-22	27-Aug-22 26-Aug-22 11-Aug-22	2d 15d 3d	2d 15d 3d	R	0% 0% 0%
79 80 81		📟 A1640	RCC work: And shuttering Casting Deshuttering	RS20,800.00	24-Aug-22	24-Aug-22	3d 1d 1d	3d 1d 1d		0%
81 82 83	- 5		Deshuttering UILD.5.5 4th Floor Laving RCC	R\$20,000.00 R\$1,304,300.00 R\$315,000.00	27-Aug-22	26-Aug-22 14-Sep-22 30-Aug-22	1d 16d 3d		ব	0%
84 85			Erection of Aluminium Formwork. Laying of RCC slab	R\$500,000.00 R\$500,000.00	31-Aug-22	07-Sep-22 09-Sep-22	7d 2d	7d 2d	ব্যব্	0%
86 87		🖨 A1690	Casting of whole floor Deshuttering	R\$84,000.00 R\$80,000.00	10-Sep-22	12-Sep-22 14-Sep-22	2d 2d 2d	2d 2d 2d	य य	0%
88		WBS: RES	BUILD.5.5.1 Tower parking RCC work And shuttering	RS108.300.00 RS67,500.00	31-Aug-22	13-Sep-22 02-Sep-22	12d 3d	12d 3d		0%
90 91			Casting Deshuttering	RS20,800.00 RS20,000.00		10-Sep-22 13-Sep-22	1d 1d	1d 1d		0%
92 93	-	WBS: RES B A1740	UILD.5.6 5th Floor Laying RCC	R\$1,304,300.00 R\$315,000.00	14-Sep-22 14-Sep-22	01-0ct-22 16-Sep-22	16d 3d	3d	R	0% 0%
94 95		 A1750 A1760 	Erection of Aluminium Formwork Laying of RCC slab	R\$500,000.00 R\$217,000.00	26-Sep-22	24-Sep-22 27-Sep-22	7d 2d	7d 2d	ব	0%
96 97		 A1770 A1780 	Casting of whole Floor Deshuttering	R\$84,000.00 R\$80,000.00		29-Sep-22 01-Oct-22	2d 2d	2d 2d	ব	0%
98 99	-		BUILD.5.6.1 Tower parking RCC work And shuttering	RS108.300.00 RS67,500.00		30-Sep-22 20-Sep-22	12d 3d	12d 3d		0%
100 101		 A1800 A1810 	Deshuttering	RS20,800.00 RS20,000.00	30-Sep-22	28-Sep-22 30-Sep-22	1d 1d	1d 1d	R	0%
	Activity ID		Activity Name	Budgeted Total Cost	Start	Finish	Remaining Duration	Original Duration	Critical	Schedule % Complete
102 103 104		A1820	ULD.5.7 6th Floor Laying RCC Erection of Aluminium Formwork.	RS1,304,300.00 RS315,000.00 RS500,000.00		19-0ct-22 04-0ct-22 12-0ct-22	16d 3d 7d	16d 3d 7d	ব	0%
104 105 106		📟 A1840	Erection of Aluminium Formwork. Laying of RCC slab Casting of whole floor	R\$500,000.00 R\$217,000.00 R\$84,000.00	13-0ct-22	12-0ct-22 14-0ct-22 17-0ct-22	7d 2d 2d	7d 2d 2d	বব	0%
106 107 108			Deshuttering BUILD 5.7.1 Tower parking	RS80,000.00 RS80,000.00		17-0ct-22 19-0ct-22	2d 2d	2d 2d	R	0%
108 109 110		 A1870 A1880 	RCC work And shuttering	RS67,500.00 RS20,800.00	15-Oct-22	07-0ct-22 15-0ct-22	3d 1d	3d 1d		0%
111 112		WBS: RES B	Deshuttering JILD.5.8 7th Floor	RS20,000.00 RS1,304,300.00	18-0ct-22 19-0ct-22	18-0ct-22 05-Nov-22	1d 16d	1d 16d	R	0%
113 114	F	A1900	Laying RCC Erection of Aluminium Formwork.	RS315,000.00 RS500,000.00	22-0ct-22	21-0ct-22 29-0ct-22	3d 7d	3d 7d	य	0% 0%
115 116		📟 A1930	Laying of RCC slab Casting of whole floor	RS217,000.00 RS84,000.00	02-Nov-22	01-Nov-22 03-Nov-22	2d 2d	2d 2d	ব	0% 0%
117 118		WBS: RES	Deshuttering BUILD.5.8.1 Tower parking	RS80,000.00 RS108.300.00 RS67,500.00	22-0 of-22	05-Nov-22 04-Nov-22	2d	2d	9	0% 0% 0%
119 120		A1960	RCC work. And shuttering Casting	RS20,800.00	02-Nov-22	25-0ct-22 02-Nov-22	3d 1d	3d 1d		0%
121 122 123	- 6	WBS: RES B	Deshuttering JILD.5.9 8th Floor Laving RCC	RS20,000.00 RS1,304,300.00 RS315,000.00	05-Nov-22	04-Nov-22 23-Nov-22 08-Nov-22	1d 16d 3d	1d 16d 3d	되	0% 0% 0%
123		🖨 A1990	Erection of Aluminium Formwork. Laying of RCC slab	R\$500,000.00 R\$217,000.00	09-Nov-22	16-Nov-22 18-Nov-22	3d 7d 2d	3d 7d 2d	रा रा र	0%
125		A2010	Casting of whole floor Deshuttering	RS84,000.00 RS80,000.00	19-Nov-22	21-Nov-22 23-Nov-22	2d 2d 2d	2d 2d 2d	4 4	0%
127 128 129		WBS: RES		R\$108,300.00 R\$67,500.00	09-Nov-22 09-Nov-22	22-Nov-22 11-Nov-22	12d 3d	12d 3d		0%
130 131		 A2040 A2050 	Casting Deshuttering	RS20,800.00 RS20,000.00	19-Nov-22 22-Nov-22	19-Nov-22 22-Nov-22	1d 1d	1d 1d		0% 0%
132 133	-	WBS: RES BI	UILD.5.10 9th Floor Laying RCC	R\$1,304,300.00 R\$315,000.00	24-Nov-22 24-Nov-22	12-Dec-22 26-Nov-22	16d 3d	16d 3d	¥	0% 0%
134 135			Erection of Aluminium Formwork Laying of RCC slab	R\$500,000.00 R\$217,000.00	06-Dec-22	05-Dec-22 07-Dec-22	7d 2d	7d 2d	ব	0% 0%
	Activity ID		Activity Name	Budgeted Total Cost		Finish	Remaining Duration	Original Duration	Critical	Schedule % Complete
136 137			Casting of whole floor Deshuttering	RS84,000.00 RS80,000.00		09-Dec-22 12-Dec-22	2d 2d	2d 2d	ব	0% 0%
138 139	•	A2110	BUILD.5.10.1 Tower parking RCC work And shuttering	R\$108,300.00 R\$67,500.00 R\$20,800.00		10-Dec-22 30-Nov-22	12d 3d	12d 3d		0%
140		 A2120 A2130 	Deshuttering	R\$20,000.00	10-Dec-22	08-Dec-22 10-Dec-22	1d 1d	1d 1d	R	0%
142 143 144		📟 A2140	UILD.5.11 10th Floor Laying RCC Erection of Aluminium Formwork	R\$1,304,300.00 R\$315,000.00 R\$500,000.00	12-Dec-22	29.0ec-22 14.0ec-22 22.0ec-22	16d 3d 7d	16d 3d 7d	ব	0%
144 145 146		🛥 A2160	Erection of Aluminium Formwork Laying of RCC stab Casting of whole floor	RS217,000.00 RS217,000.00 RS84,000.00	23-Dec-22	22-Dec-22 24-Dec-22 27-Dec-22	7d 2d 2d	7d 2d 2d	বাব	0%
146 147 148		A2180	Deshuttering Built.D.5.11.1 Tower parking	R\$80,000.00		29-Dec-22	2d 2d	2d 2d	R	0%
149		 A2190 A2200 	RCC work And shuttering	RS67,500.00 RS20,800.00		17-Dec-22 26-Dec-22	3d 1d	3d 1d		0%
151		A2210 WBS: RES B	Deshultering UILD.5.12 11th Floor	RS20,000.00	28-Dec-22	28-Dec-22 16-Jan-23	1d	1d 1d	R	0%
153 154		 A2220 A2230 	Laying RCC Erection of Aluminium Formwork	R\$315,000.00 R\$500,000.00	29-Dec-22	31-Dec-22 09-Jan-23	3d 7d	3d 7d	ব	0% 0%
155 156		 A2240 A2250 	Laying of RCC slab Casting of whole floor	RS217,000.00 RS84,000.00	10Jan-23 12Jan-23	11-Jan-23 13-Jan-23	2d 2d	2d 2d	A A	0% 0%
157		A2260	Deshuttering BUILD.5.12.1 Tower parking	R\$80,000.00 R\$108,300.00	14Jan-23 02Jan-23	16Jan-23	2d	2d	R	0% 0%
159 160		📾 A2280	RCC work. And shuttering Casting	RS67,500.00 RS20,800.00	12Jan-23	04Jan-23 12Jan-23	3d 1d	3d 1d		0%
161 162		WBS: RES B	Deshuttering UIL0.5.13 12th Floor	R\$20,000.00 R\$1,304,300.00	14Jan-23 16Jan-23	14-Jan-23 03-Feb-23	1d 16d	1d 16d	R	0%
163 164	Ē	 A2300 A2310 	Laying RCC Erection of Aluminium Formwork	RS315,000.00 RS500,000.00	19-Jan-23	18Jan-23 27Jan-23	3d 7d	3d 7d	বাব	0% 0%
165 166		 A2320 A2330 	Laying of RCC slab Casting of whole Floor	RS217,000.00 RS84,000.00	28-Jan-23 31-Jan-23	30-Jan-23 01-Feb-23	2d 2d	2d 2d	4	0% 0%
167 168		WBS: RES	Deshuttering BUILD.5.13.1 Tower parking	R\$80,000.00 R\$108,300.00	19Jan-23	03-Feb-23 02-Feb-23	2d	2d	R	0%
169		🖬 A2350	RCC work And shuttering	R\$67,500.00	13/18/1-23	21-Jan-23	3d	3d		0%

	Activity ID		Activity Name	Budgeted Total Cost	Start	Finish	Remaining Duration	Original Duration	Critical	Schedule % Complete
170		A2360		R\$20,800.00		31-Jan-23	1d	1d		0%
171 172			Deshuttering UIL0.5.14 13th Floor	R\$20,000.00	02-Feb-23 03-Feb-23	02-Feb-23	1d 16d	1d	P	0%
173	-	A2390	Laying RCC	RS315,000.00 RS500.000.00	03-Feb-23	06-Feb-23 14-Feb-23	3d 7d	3d 7d		0%
174 175		A2400	Erection of Aluminium Formwork Laying of REC slab	RS217,000.00	15-Feb-23	16-Feb-23	2d	2d		0%
176		A2410 A2420	Casting of whole Floor Deshuttering	RS84,000.00 RS80,000.00		18-Feb-23 21-Feb-23	2d 2d	2d 2d		0%
178		WBS: RES	BUILD.5.14.1 Tower parking	RS108,300.00	07-Feb-23	20-Feb-23	12d	12d		0%
179 180		A2430 A2440	RCC work And shuttering Casting	RS67,500.00 RS20,800.00		09-Feb-23 17-Feb-23	3d 1d	3d 1d		0%
181			Deshuttering	R\$20,000.00 R\$1,304,300.00		20-Feb-23	1d 16d	1d		0%
182 183		A2460	UILD.5.15 14th Floor Laying RCC	RS315,000.00	21-Feb-23	23-Feb-23	3d	3d		0%
184		A2470 A2490	Erection of Aluminium Formwork Laying of RCC slab	RS500,000.00 RS217.000.00		03-Mar-23 06-Mar-23	7d 2d	7d 2d		0%
186		A2490	Casting of whole Floor	R\$84,000.00	07-Mar-23	08-Mar-23	2d	2d		0%
187 188		A2500 WBS: RES	Deshuttering BUILD.5.15.1 Tower parking	R\$80,000.00	09-Mar-23	10-Mar-23	2d	2d		0%
189		A2510	RCC work. And shuttering	R\$67,500.00		27-Feb-23	3d	3d		0%
190 191			Casting Deshuttering	RS20,800.00 RS20,000.00		07-Mar-23 09-Mar-23	1d 1d	1d 1d		0%
192 193	= 19 W	85: RES BI A2540	UILD.5.16 15th Floor Laying RCC	R\$1,304,300.00 R\$315,000.00	10-Mar-23	28-Mar-23 13-Mar-23	16d 3d	16d 3d		0%
194		A2550	Erection of Aluminium Formwork	R\$500,000.00	14-Mar-23	21-Mar-23	7d	7d		0%
195 196	-		Laying of RCC slab Casting of whole floor	R\$217,000.00 R\$84,000.00		23-Mar-23 25-Mar-23	2d 2d	2d 2d	-	0%
197		A2590	Deshuttering	R\$80,000.00		28-Mar-23	2d	2d	Π	0%
198		A2590	BUILD.5.16.1 Tower parking RCC work And shuttering	R\$108,300.00 R\$67,500.00	14-Mar-23 14-Mar-23	27-Mar-23 16-Mar-23	12d 3d	12d 3d		0%
200 201		 A2600 A2610 	Casting Deshuttering	RS20,800.00 RS20,000.00		24-Mar-23 27-Mar-23	1d 1d	1d 1d		0% 0%
202	a lis w	BS: RES BI	UILD.5.17 16th Floor	R\$1,304,300.00	28-Mar-23	14-Apr-23	16d	16d		0%
203			Laying RCC Exection of Aluminium Formwork.	R\$315,000.00 R\$500,000.00		30-Mar-23 07-Apr-23	3d 7d	3d 7d		0%
	Activity ID		Activity Name	Budgeted Total Cost	Start	Finish	Remaining	Original Duration	Critical	Schedule % Complete
205	-		Laying of RCC slab	RS217,000.00		10-Apr-23	2d	2d		0%
208 207		A2650 A2660	Casting of whole floor Deshuttering	RS84,000.00 RS80,000.00		12-Apr-23 14-Apr-23	2d 2d	2d 2d		0%
208		WBS: RE	S BUILD.5.17.1 Tower parking	RS108,300.00	31-Mar-23	13-Apr-23	12d	12d		0%
209 210		 A2670 A2680 	RCC work. And shuttering Casting	R\$67,500.00 R\$20,800.00		03-Apr-23 11-Apr-23	3d 1d	3d 1d		0%
211		A2690	Deshuttering UILD.5.18 17th Floor	R\$20,000.00	13-Apt-23	13-Apr-23	1d 16d	1d	Π	0%
212 213		A2700	Laying RCC	RS315,000.00	14-Apr-23	17-Apr-23	3d	3d		0%
214 215		A2710 A2720	Erection of Aluminium Formwork Laying of RCC Slab	R\$500,000.00 R\$217,000.00		25-Apr-23 27-Apr-23	7d 2d	7d 2d		0% 0%
216		A2730	Casting of whole floor	R\$84,000.00	28-Apr-23	29-Apr-23	2d	2d		0%
217 218		A2740 W85: RE	Deshuttering S BUILD.5.18.1 Tower parking	R\$80,000.00	01-May-23 18-Apr-23	02-May-23 01-May-23	2d 12d	2d		0%
219 220		 A2750 A2760 	RCC work. And shuttering	RS67,500.00 RS20,800.00		20-Apr-23 28-Apr-23	3d 1d	3d 1d		0%
220		A2770	Deshuttering	R\$20,000.00	01-May-23	01-May-23	10	1d		0%
222 223		A2780	UILD.5.19 18th Floor Laying RCC	R\$1,304,300.00 R\$315,000.00	02-May-23 02-May-23	19-May-23 04-May-23	16d 3d	16d 3d		0% 0%
224		A2790	Erection of Aluminium Formwork	R\$500,000.00	05-May-23	12-May-23	7d	7d	Γ	0%
225		A2800 A2810	Laying of RCC Slab Casting of whole floor	RS217,000.00 RS84.000.00		15-May-23 17-May-23	2d 2d	2d 2d		0%
227		A2830	Deshuttering	R\$80,000.00		19-May-23	20	2d		0%
227 228 229		A2830 WBS: RE	Deshultering S BUILD.5.19.1 Tower parking	R\$80,000.00	18-May-23	19-May-23				0%
228 229 230		A2830 WBS: RE A2820 A2840	Deshuttering S BUILD.5.19.1 Tower parking RCC work And shuttering I Casting	R\$80,000.00 R\$108,300.00 R\$67,500.00 R\$20,800.00	18-May-23 05-May-23 05-May-23 16-May-23	19-May-23 18-May-23 08-May-23 16-May-23	2d <mark>12d</mark> 3d 1d	2d 12d 3d 1d		0% 0% 0% 0%
228 229 230 231	ľ	A2830 WBS: RE A2820 A2840 A2840	Deshuttering SBUILD.5.19.1 Tower parking RCC work And shuttering Casting Deshuttering	R\$80,000.00 R\$108.300.00 R\$67,500.00 R\$20,800.00 R\$20,000.00 R\$20,000.00	18-May-23 05-May-23 16-May-23 18-May-23 18-May-23	19-May-23 18-May-23 08-May-23 16-May-23 18-May-23	2d 12d 3d 1d 1d	2d 12d 3d		0% 0% 0%
228 229 230 231 232 233	ľ	A2830 WBS: RE A2820 A2840 A2850 A2850 A2850 A2850	Deshuttering 5 BUILD.5.19.1 Tower parking FICC work. And shuttering Casting Deshuttering UELD.5.20.4 Stht Floor Laying RCC	R\$80,000.00 R\$108300.00 R\$67,500.00 R\$20,800.00 R\$20,000.00 R\$1,304,300.00 R\$315,000.00	18-May-23 05-May-23 16-May-23 18-May-23 18-May-23 19-May-23	19-May-23 18-May-23 08-May-23 16-May-23 18-May-23 05-Jun-23 22-May-23	2d 12d 3d 1d 1d 16d 3d	2d 12d 3d 1d 1d 1d 16d 3d		0% 0% 0% 0% 0% 0%
228 229 230 231 232 233 234 235	ľ	A2830 W65: RE A2820 A2840 A2840 A2850 A2850 A2860 A2870 A2880	Deshultering SBUEL05-19-1 Tower parking RCC wok. And shultering Casting Deshultering ULL05-29 ofth Floor Laying RCC Erection of Aluminium Formwork. Laying RCC slab	R\$80,000.00 R\$108,300.00 R\$20,800.00 R\$20,800.00 R\$20,000.00 R\$1,204,300.00 R\$315,000.00 R\$217,000.00 R\$217,000.00	18-May-23 05-May-23 16-May-23 18-May-23 19-May-23 19-May-23 23-May-23 31-May-23	19May-23 18May-23 09May-23 16May-23 18May-23 050m28 22May-23 30May-23 01Jun-23	2d 126 3d 1d 1d 165 3d 7d 2d	2d 12d 3d 1d 1d 16d 3d 7d 2d		0% 0% 0% 0% 0% 0% 0%
228 229 230 231 232 233 234 235 236	ľ	A2830 WBS: RE A2820 A2840 A2850 VBS: RES E A2860 A2870 A2880 A2890 A2890	Deshuttering SBUIL.0.4514 Forwert parking REC work. And Huttering I Casting Deshuttering ULI.0.5261 19th Ribor Laying RCC Exection of Ataminium Formwork. Laying of RCC tab Casting of Whote Roor	R\$80,000.00 R\$108,300.00 R\$20,800.00 R\$20,000.00 R\$20,000.00 R\$315,000.00 R\$315,000.00 R\$315,000.00 R\$317,000.00 R\$540,000.00	18-May-23 05-May-23 16-May-23 18-May-23 19-May-23 19-May-23 23-May-23 31-May-23 02-Jun-23	19.May-23 18.May-23 08.May-23 16.May-23 18.May-23 05.Jun-23 05.Jun-23 01.Jun-23 03.Jun-23	2d 12d 3d 1d 1d 16d 3d 7d	2d 12d 3d 1d 1d 16d 3d 7d		0% 0% 0% 0% 0% 0%
228 229 230 231 232 233 234 235	ľ	A2830 W65: RE A2820 A2840 A2840 A2850 A2850 A2860 A2870 A2880	Deshultering SBUEL05-19-1 Tower parking RCC wok. And shultering Casting Deshultering ULL05-29 ofth Floor Laying RCC Erection of Aluminium Formwork. Laying RCC slab	R\$80,000.00 R\$108,300.00 R\$20,800.00 R\$20,800.00 R\$20,000.00 R\$1,204,300.00 R\$315,000.00 R\$217,000.00 R\$217,000.00	18-May-23 05-May-23 16-May-23 18-May-23 19-May-23 19-May-23 23-May-23 31-May-23 02-Jun-23 05-Jun-23	19May-23 18May-23 09May-23 16May-23 18May-23 050m28 22May-23 30May-23 01Jun-23	2d 12d 3d 1d 1d 16d 3d 7d 2d 2d 2d 2d 2d	2d 12d 3d 1d 1d 1d 1d 1d 2d 2d 2d 2d 0riginal		0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0
228 229 230 231 232 233 234 235 236 237		A2830 W65: RE A2820 A2820 A2840 A2850 A2850 A2850 A2890 A2890 A2890 A2890 A2890 W65: RE S	Destrutiening 58011.0.5.104 Tower parking RCC vol. And Fullering Destrutiening UBL0.5.261 1910 Floor Laying AFC slab Exection of Abarinium Fornwork Laying of RCC slab Casting of whole floor Destrutiening Activity Name 5808.0.5.261 Tower parking	PS80.000.00 PS109.30000 PS57.500.00 PS20.000.00 PS30.000.00 PS315.000.00 PS315.000.00 PS317.000.00 PS350.000.00 PS36.000.00 PS36.000.00 Budgeted Total Cost	18 May 23 05 May 23 16 May 23 18 May 23 19 May 23 19 May 23 23 May 23 31 May 23 23 May 23 05 Jun 23 Start 23 May 23	19-May-23 19-May-23 09-May-23 16-May-23 18-May-23 05-Jun-23 22-May-23 01-Jun-23 03-Jun-23 05-Jun-23 Finish	2d 12d 3d 1d 1d 1d 1d5 3d 7d 2d 2d 2d	2d 12d 3d 1d 1d 1d 18d 3d 7d 2d 2d 2d 2d		0% 0% 0% 0% 0% 0% 0% 0% 0% 0%
228 229 230 231 232 233 234 235 238 237 # 238 239	Activity D	A2830 W55: RE A2820 A2840 A2840 A2850 A2850 A2890 A2890 A2890 A2890 A2890 A2890 A2890 A2890 A2890 A2890 A2890	Derbuffning Salt Bio SASS A Cover prochang Learns Derbuffering Derbuffering Derbuffering Lawys GPC Eineton of Auninium Formwoh. Lawys of Child Lawys of Child Derbuffering Activity Name Salt Lo SAN Tower perking REC woh. Ard Salt Tower perking	R580,000,00 R557,500,00 R552,500,00 R520,800,00 R520,800,00 R5315,000,00 R5315,000,00 R5317,000,00 R5317,000,00 R534,000 R534,	18 May-23 05 May-23 05 May-23 16 May-23 18 May-23 19 May-23 23 May-23 02 Jun-23 05 Jun-23 05 Jun-23 23 May-23 23 May-23	19May-23 18May-23 08May-23 16May-23 16May-23 16May-23 06Jun-23 22May-23 01Jun-23 06Jun-23 06Jun-23 06Jun-23 Finish	2d 123 3d 1d 16 163 3d 7d 2d 2d 2d 2d 2d 2d 2d 2d 2d 3d 3d 3d 3d 3d 3d 3d 3d 3d 3d 3d 3d 3d	2d 12d 3d 1d 1d 1d 2d 2d 2d 2d 2d 0riginal Duration 12d 3d	Critical	0% 0% 0% 0% 0% 0% 0% 0% 0%
228 229 230 231 232 233 234 235 236 237 # 238 239 240 241	Adovty D	A2830 WBS: RE A2820 A2840 A2840 A2850 A2850 A2850 A2890 A2890 A2890 A2900 WBS: RES A2910 A2920 A2930	Derbuffning Stattlik SASS Arower geschling Licking Derbuffeling Derbuffeling Derbuffeling Lange RCC Einstein an Annihum Formwohl. Lange at Annihum Formwohl. Langer at Hole Mool Derbuffeling Activity Name Stattlik Sass 1 Tower parkning Churther Stattlik Sass 1 Tower parkning Casting Derbuffeling Derbuffeling Derbuffeling Derbuffeling	R580,000,00 PS57,500,00 PS520,800,00 PS520,800,00 PS520,800,00 PS520,000,00 PS520,000,00 PS520,000,00 PS520,000,00 PS520,000,00 PS567,500,00 PS567,500,00 PS567,500,00 PS567,500,00 PS520,800,00 PS520,800,00	18 May-23 05 May-23 05 May-23 16 May-23 19 May-23 19 May-23 23 May-23 02 Jun-23 05 Jun-23 05 Jun-23 05 Jun-23 05 Jun-23	19May-23 19May-23 16May-23 16May-23 19May-23 22May-23 22May-23 23May-23 23May-23 25May-23 25May-23 25May-23 25May-23 05Jun-23 05Jun-23	2d 125 3d 1d 135 3d 7d 2d 2d 2d 2d 2d 2d 2d 2d 2d 3d 8emaining Duration 126 3d 114	2d 12d 3d 1d 1d 1d 2d 2d 2d 2d 2d 0riginal Duration 12d 3d 1d		0% 0% 0% 0% 0% 0% 0% 0% 0% 0%
228 229 230 231 232 233 234 235 236 237 # 238 239 240 241 242	Adovty D	A2830 WBS: RE A2820 A2840 A2840 A2850 A2850 A2890 A2890 A2890 A2890 A2890 A2890 A2900 MBS: RES A2910 A2920 A2920 A2920 A2920 A2920	Derbitming SIND 5433 ST Cover packing IRCC took. And shuftering Cating Derbitming United States United States Exection of Aburium Formwork Laying RFCC lab Exection of Aburium Formwork Laying of RFCC abu Cating of whole foor Derbitmening Activity Name SIND 5523 4591 Tower packing Derbitmening Cating United States SIND 5523 4591 Foort	R\$60,000,00 R\$67,500,00 R\$67,500,00 R\$52,080,00 R\$52,080,00 R\$51,000,000 R\$51,000,000 R\$51,000,000 R\$51,000,000 R\$51,000,000 R\$51,000,000 R\$51,000,000 R\$51,000,000 R\$51,000,000 R\$520,000,000 R\$520,000,000 R\$567,500,000 R\$567,500,000 R\$520,000,000 R\$51,000,000 R\$51,000,000	18 May-23 15 May-23 15 May-23 16 May-23 18 May-23 19 May-23 23 May-23 23 May-23 23 May-23 25 Jun-23 05 Jun-25 05 Jun-25 05 Jun-25 05 Jun-25 05 Jun-25 05 Jun-25 05 Jun-25 05 Jun-25 05 Jun-25 05 Jun-25	19May-23 18May-23 18May-23 16May-23 16May-23 16May-23 22May-23 22May-23 22May-23 20Jun-23 05Jun-23 05Jun-23 25May-23 25May-23 22 22 22 22 23 23 23 23 23	2d 125 3d 1d 1d 1d 16 3d 2d 2d 2d 2d 2d 2d 2d 2d 2d 2d 2d 3d 3d 3d 3d 3d	2d 12d 3d 1d 1d 1d 2d 2d 2d 2d 2d 2d 2d 2d 3d 0riginal Duration 12d 3d	Critical	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0
228 229 230 231 232 233 234 235 236 237 # 238 239 240 241 241 242 243 244	Adovty D	A2830 WBS: RE A2820 A2840 A2850 A2850 A2850 A2890 A2890 A2890 A2900 WBS: RE A2900 A2900 A2930 A2940 A2940 A2940	Derbitming SIND 5433 STORE Transmission RCC took. And shuthering Cathong Derbitming Userbitming Userbitming Userbitming Userbitming RCC took. Cathong of whole floor Derbitming Activity Name SIND 5534 Storest parking RCC mok. And shuthering Cathong Userbitming Activity Name SIND 5534 Storest parking Derbitming Derbitming Derbitming Derbitming Derbitming Derbitming Derbitming Derbitming Derbitming Derbitming Derbitming Derbitming Derbitming Derbitming Derbitming	F850.000.00 F850.000.00 F857.500.00 F857.500.00 F852.080.00 F853.080.00 F853.080.00 F853.080.00 F853.080.00 F854.000.00 F854.000.00 F854.000.00 F854.000.00 F857.500.00 F857.500.00 F857.500.00 F857.500.00 F857.500.00 F853.000.00	18 May-23 (SMay-23 16 May-23 16 May-23 18 May-23 19 May-23 23 May-23 23 May-23 05 Jun-23 05 Jun-23 05 Jun-23 05 Jun-23 06 Jun-23 06 Jun-23	19-May-23 19-May-23 10-May-23 10-May-23 10-May-23 10-May-23 22-May-23 22-May-23 00-Jun-23 00-Jun-23 10-Jun-23 00-Jun-23	2d 125 3d 1d 16 3d 7d 2d 2d 2d 2d 2d 2d 2d 3d 1d 14 155 3d 7d 2d 2d 2d 2d 2d 2d 2d 2d 2d 2	2d 12d 3d 1d 1d 16d 3d 2d 2d 2d 2d 2d 2d 2d 2d 3d 1d 1d 1d 1d 1d 3d 7d	Critical	015 025 035 035 035 035 035 035 035 035 035 03
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226 229 220 220 220 220 220 220 220 220 220		A 22800 A 22800 A 25800 A 2	Derbitening Status 54.93 (Sever starking) RCC vok And sturtering Lange Act And sturtering Derbitening Units 54.93 (Sever starking) Exection of Automican Formwork. Lange af PCC site Casting of Work for Derbitening Active RCC vok And sturtering Casting PCC work And sturtering Derbitening Lange ACC start Casting of Work for Derbitening Derbitening Casting Units 52.93 (Severa Starking) RCC vok And sturtering Casting Units 52.93 (Severa Starking) RCC vok And sturtering Casting Units 52.93 (Severa Starking) RCC vok And Sturtering Casting Derbitening Casting Casting Derbitening Casting Casting Derbitening Casting	R580,0000 R54108,2000 R54108,2000 R54108,2000 R520,2000 R520,2000 R520,2000 R510,2000 R510,2000 R510,2000 R511,2000 R51,2000 R51,	104.04/22 (34.04) 05.04/04/22 (34.04) 105.04/04/22 (34.04) 105.04/04/24 (34.04) 105.04/04/24 (34.04) 105.04/04/24 (34.04) 105.	19349;22 (08449;2) (08449;2) (08449;2) (1849;2) 22,349;2) (1949;2) 22,349;2) (1940;2) 23,349;2) (1940;	20 20 20 20 20 20 20 20 20 20	2010 2010		015 016 017 017 017 017 017 017 017 017 017 017
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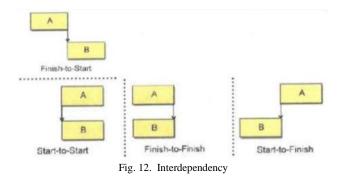
*	# Activity ID				Start	Finish	Remaining Duration	Original Duration	Critical	Schedule % Complete
305		WBS: RES	BUILD.10 Commercial shops	RS641,730.00	29Jul-23	25-Nov-23	102d	102d	_	0
306		A3450	Excavation	RS24,000.00	29-Jul-23	31-Jul-23	2d	2d		01
307		📟 A3460	Footing for foundation	RS13,200.00	01-Aug-23	02-Aug-23	2d	2d		05
308		A3470	Backfilling and leveling	R\$16,000.00	03-Aug-23	07-Aug-23	4d	4d		05
309		🚍 A3480	PCC for Plinth Beam	R\$2,880.00	08-Aug-23	08-Aug-23	1d	1d		03
310		📟 A3490	RCC & Shuttering for Plinth Beam	RS61,000.00	09-Aug-23	16-Aug-23	6d	6d		05
311		A3500	Casting of plinth Beam	RS16,000.00	17-Aug-23	18-Aug-23	2d	2d		03
312		📟 A3540	Deshuttering of Plinth Beam	RS4,000.00	19-Aug-23	19-Aug-23	1d	1d		01
313		📟 A3510	Backfilling and soiling	RS196,000.00	21-Aug-23	26-Aug-23	6d	6d		01
314		📟 A3520	RCC for Grid Slab	R\$3,500.00	28-Aug-23	28-Aug-23	1d	1d		01
315		📟 A3530	Casting for Grid Slab	R\$6,400.00	29-Aug-23	29-Aug-23	1d	1d		03
316	1	📟 A3550	RCC for columns	R\$7,000.00	30-Aug-23	01-Sep-23	3d	3d		03
317		A3560	Shuttering for columns	R\$12,000.00	02-Sep-23	07-Sep-23	5d	5d		01
318		📟 A3570	Casting for columns & Deshuttering	R\$8,000.00	08-Sep-23	09-Sep-23	2d	2d		05
319		📟 A3580	Shuttering for beam & slab	R\$5,000.00	11-Sep-23	16-Sep-23	6d	6d		0.
320		😑 A3590	RCC for beam & slab	RS4,200.00	18-Sep-23	20-Sep-23	3d	3d		02
321		A3600	Casting for beam & slab	R\$2,400.00	21-Sep-23	21-Sep-23	1d	1d		01
322		📟 A3610	Deshuttering of beam & slab	R\$3,500.00	22-Sep-23	07-0ct-23	14d	14d		01
323		A3620	RCC for 1st floor columns	R\$2,100.00	22-Sep-23	25-Sep-23	3d	3d		03
124		📟 A3630	Shuttering for 1st floor columns	RS4,000.00	26-Sep-23	30-Sep-23	5d	5d		01
125		📟 A3640	Easting for columns	R\$1,600.00	02-0ct-23	02-0 ct-23	1d	1d		01
126		🚍 A3650	Shuttering for beam & slab	R\$15,000.00	03-Oct-23	16-0ct-23	12d	12d		03
27		📟 A3660	Casting for beam & slab	RS2,400.00		17-0ct-23	1d	1d		01
28		📟 A3670	Deshuttering	R\$4,000.00		21-0ct-23	4d	4d		03
129		📟 A3680	Blockwork for wall	R\$12,800.00	23-0ct-23	04-Nov-23	12d	12d		03
330		🚍 A3690	Plastering work	R\$7,750.00	06-Nov-23	13-Nov-23	7d	7d		01
131		📟 A3700	Painting	R\$105,000.00	14-Nov-23	18-Nov-23	5d	5d		03
32		📟 A3710	M.S staircase	R\$36,000.00	14-Nov-23	17-Nov-23	4d	4d		01
333		📟 A3720	Shutter installation	RS16,000.00		20-Nov-23	2d	2d		01
34		📟 A3780	Tiling	R\$50,000.00	20-Nov-23	25-Nov-23	6d	6d		01
335	Θ		BUILD.8 Project close out	R\$685,920.00		30-Dec-23	30d	30d		01
336		A3400	Soling PCC for Ground	R\$596,800.00	27-Nov-23	07-Dec-23	10d	10d		01
337		🚍 A3410	Coumpound wall	R\$80,160.00	08-Dec-23	21-Dec-23	12d	12d		03
338		📟 A3790	Security Cabin Installation	R\$2,560.00	22-Dec-23*	22-Dec-23	1d	1d		03
35		WBS: RES	BUILD.8 Project close out	R\$685,920.00	27-Nov-23	30-Dec-23	30d	30d		0
36		📟 A3400	Soling PCC for Ground	R\$596,800.00	27-Nov-23	07-Dec-23	10d	10d		01
37		📟 A3410	Coumpound wall	R\$80,160.00	08-Dec-23	21-Dec-23	12d	12d		01
18		📟 A3790	Security Cabin Installation	R\$2,560.00	22-Dec-23*	22-Dec-23	1d	1d		0
19		📟 A3800	Housekeeping	R\$6,400.00	23-Dec-23*	23-Dec-23	1d	1d		0
10		📟 A3810	Handing over to client	RS0.00	30-Dec-23*	30-Dec-23	1d	1d	Г	05

C

Predecessor/Successor Relationship

The four types of relationships in Primavera P6 include the following:

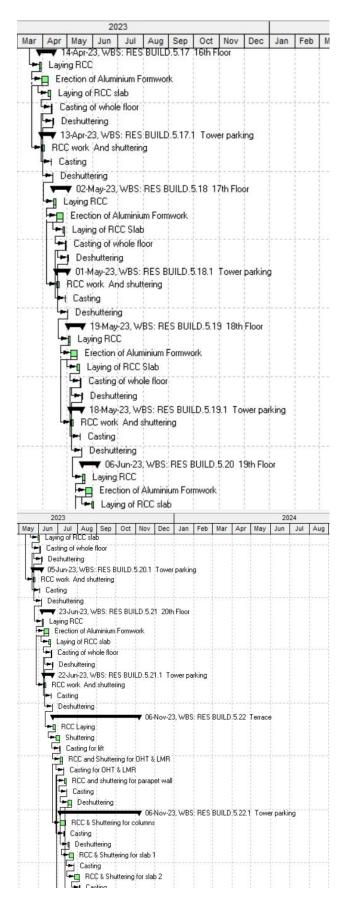
- 1. Finish to Start or FS Relationship: A successor activity cannot be started until a predecessor activity is finished.
- 2. Start to Start or SS Relationship: A successor activity cannot be started until a predecessor activity is started.
- 3. Finish to Finish or FF Relationship: A successor activity cannot be finished until a predecessor activity is finished.
- 4. Start to Finish or SF Relationship: A successor activity cannot be finished until a predecessor activity is started.

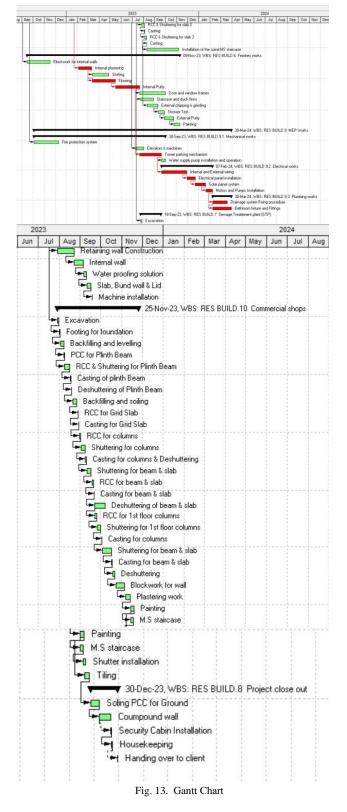


Gantt Chart is a type of bar chart that illustrate a project schedule. This chart lists the tasks to be performed on vertical axis and time on horizontal axis. The width of the horizontal bars in the graph shows the duration of each activity. Gantt charts shows the start and finish date of the activities.

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Resource Creation to complete the activity there are requirements of various resources such as labor, equipment's, materials and machinery. So, we need to create different categories of resources with unit cost and hours of working.

Resource ID	Resource Name	Resource Type	Unit of Measure	Primary Role	Defaut Units / Time	Max Units/Time
SUR SUR	Surveyor	Labor			Sh/d	8h/d
PARKTOW	Parking tower Mechanism	Material	Each		Bea/d	8ea/d
FieldEng	Field Engineer	Labor		Engineer	8h/d	9h/d
DesEng	Design Engineer	Labor		Engineer		8h/d
CON PUMP	Concrete pump	Material	Each		Sea/d	8ea/d
2 Paint	Painter	Labor			8h/d	16h/d
1 MAZ	Mazdoor	Labor		Construction	Sh/d	1500h/d
 HEL MAS 	Helper mason	Labor		Construction	8h/d	80h/d
FITT	Fitter	Labor			8h/d	600h/d
CARP	Carpenter	Labor			8h/d	1000h/d
MAS	Mason	Labor			8h/d	80h/d
PASS HOIST	Passenger and material hoist	Material	Each		8ea/d	0ea/d
st st	Steel	Material	Metric Ton		BMT/d	SMT/d
BAR BEND	Bar bending and cutting machine	Material	Each		8ea/d	Sea/d
FINNS	Concrete finns	Material			8/d	100/d
DOORF	Door Frame	Material			8/d	B/d
WINDE	Window Frame	Material			8/d	8/d
SKIRT	Skirting	Material	sq.m		8m2/d	8m2/d
🚯 BLK	SIPOREX block	Material	Per cubic meter		8m3/d	20m3/d
SLD RIK	Solid Block	Material	Per cubic meter		8m3/d	8m3/d

Resource Allocation for Activities: The created resources are then assigned to each and every activity with their respective need. After the resources are allocated the cost for the activity is calculated and the total cost is found out.

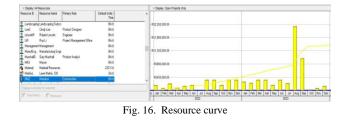
Schedule: Critical path methodology scheduling assigns dates to project activities, calculates project's finish date and also reveals the project's critical path. Cohodulo

Project(s) to schedule	1	0	Cancel
Current Data Date	18-Nov-21		Schedule
Project Forecast Start Date		1	View Log Help
Set Data Date and Planned Start to Project Forecast Start during scheduling		Þ	Options
Log to file			
C:\Users\ADMIN\OneDrive\Documents\	SchedLog.txt		

Fig. 15. Schedule

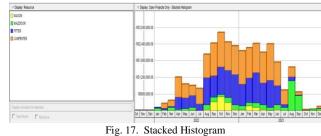
Resource Curve:

Resource/cost distribution curves enable you to specify how you want resource units or costs spread over the duration of an activity. Resource units and costs are distributed evenly from the assignment start to the assignment finish unless you specify a nonlinear distribution by assigning a curve. You can assign a resource distribution curve to any resource or role assignment on activities with a duration type of Fixed Duration and Units/Time or Fixed Duration & Units. Assign the appropriate curve to a resource or role assignment by selecting a curve in the Curve column in the Resource Assignments window. You can also assign a resource curve in the Resources tab in the Activity Details.



Stacked Histogram:

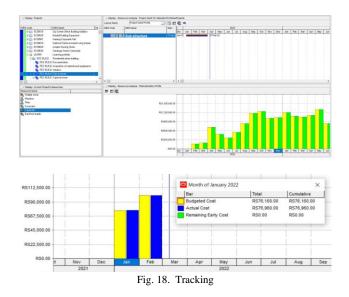
Stacked Histograms are common sight in project environments. Primavera P6's stacked histogram stacks each bar on top of each other to give you a full view of your resourcing over time. The stacked histogram can graph either at Completion Units or at Completion Cost.



Tracking:

Project tracking is a project management method used to track the progress of tasks in a project. By tracking your project, you can compare actual to planned progress, and identify issues that may prevent the project from staying on schedule and within budget.

Project tracking helps project managers and stakeholders know what work has been done, the resources that have been used to execute those tasks, and helps them create an earned value analysis by measuring project variance and tracking milestones.



The yellow bar represents the budgeted cost of the months for resource name Mazdoor as the budgeted cost is found to be Rs 76,160/- and the bar which is created alongside in blue represents the actual cost which is spend for the activity which came about Rs 76,960/-. So, there is the difference between the two bars which can be easily tracked with the help of tracking option in Primavera.

3. Result

- 1) The project completion date according to the planned schedule is 15 Apr-2024.
- 2) Total Cost of Construction is ₹23,25,50,580.
- 3) Total duration of the project is 749 days.
- 4) Total of 281 activities are involved with this project from its initiation to delivery.
- 5) It shows the critical activities and path which helps to keep

more focus on them to avoid schedule and cost overrun.

6) It provides an idea of arranging the required resources for the upcoming activity.

4. Conclusion

The main goal and the mission of the study was to learn and analyze of Planning and Management of the residential building with timely accomplishment of any construction project. This helps to forecast the total duration of the project which was expected to be 749 days. The required resources for the completion of the project are known and at which stage the particular resource will be required is also known. In this study proved as an interpreting the progress of Puranik's Hometown building, which helps to recognize the various problems aroused during or prior the execution process. The output results of the current case study define the usefulness of efficient planning, Scheduling, Monitoring and Controlling. Primavera helps Project Manager to help him aware about the schedule with respect to the activities which are to be started or finished according to the schedule.

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