APM TEAM ASSESSMENT-2

E-WASTE RECYCLING PLANT SETUP

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AHN PVT LTD
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Table of Contents

1. DESCRIPTION OF PROJECT

1.1 PROJECT OVERVIEW

In today's global business environment, green businesses are significant economic drivers. Waste recycling has the largest positive impact on the environment of all the green activities. Electronic waste has the characteristics of being seen as
a) the fastest-growing category of junk
b) the most valuable due to its basic composition.
c) highly dangerous if not handled correctly.

In 2019, more than 50 million metric tons of e-waste were produced globally, which is a significant amount. According to the Australian Bureau of Statistics, the Australian economy created 465,818 tons of e-waste in 2016-17, with 253,507 tons (or 54.4%) going to landfills. As the population develops, this number will increase, necessitating some environmental protection measures. Fortunately, there is a solution to this problem, and recycling e-waste is the best alternative we have.

E-waste recycling is the process of recovering and reusing electronic junk. To look at it another way, valuable material is salvaged from e-waste and utilized to protect the environment. Some parts can be simply fixed and reused; however, most parts must be reprocessed before being deployed in the manufacturing of different products.

This document aims to give a project management report on electronic waste recycling as a profitable business opportunity. We have discovered that the e-waste industry is both economically and environmentally profitable. There are a few well-known success tales throughout the world. However, the unorganized sector is thought to have a cost advantage. As a result, systematic waste management is still limited.

We at AHN PVT LTD believe that the unorganized sector's expenses are not always lower than the organized sector's, especially when three important factors are considered:

- ✓ Labour costs are rising
- ✓ Labour efficiency is low
- ✓ The product is of poor quality

Large capacity automated or semi-automated factories require less manpower, can work at a high level of efficiency constantly, and generate a higher quality final product. As a result, in the long run, they are highly cost-effective. As a result, even if the unorganized sector is competitive, e-waste management can be a financially feasible and high-return enterprise for the organized sector.

1.2 WHY THERE IS A NEED FOR E-WASTE PLANT SET-UP?

In Australia and around the world, e-waste is accumulating at a faster rate than any other sort of waste. According to the Australian Bureau of Statistics, by 2027-28, the overall volume of televisions and computers that have reached the end of their estimated useful life will be 181,000 tonnes or 44 million units.

Gold, steel, copper, zinc, aluminium, and brass are all important precious metals found in e-waste that can be recovered and recycled into new goods. 6000 mobile phones are anticipated to be

recyclable, yielding 3.5 kilogrammes of silver, 340 grammes of gold, 140 grammes of palladium, and 130 kilogrammes of copper.

While it is the responsible thing to do for the environment to recycle e-waste, businesses must also consider data security.

Sensitive information is a big aspect of corporate communications, whether it's on a hard drive or a phone. Under the Privacy Act, any unlawful distribution of such information might be considered a notifiable data breach. According to Osterman Research, asset disposal accounts for 16% of all data breaches. This includes negligent disposal of digital records that may have been recovered from unprotected landfills, as well as rejected electronic equipment that hasn't been destroyed in a way that makes data extraction impossible.

AHN PVT LTD's e-waste recycling plant setup ensures that sensitive data in your e-waste is destroyed, not just erased, to prevent data breaches and unauthorized access to your data. From collection and transportation to disposal and recycling, we create solutions for enterprises that would provide complete security.

It's no wonder that businesses generate a large amount of e-waste when you consider the number of individuals in the average office building and the amount of technology each person utilizes to accomplish daily tasks. Computer monitors, laptops, desk phones, cell phones, printers, and computer accessories are all considered e-waste and will need to be replaced at some point. We, at AHN PVT LTD E-waste recycling plant, guarantee that once these items have reached the end of their useful lives and must be disposed of, our client firm is responsible for finding a safe and ethical manner to recycle them while still receiving a benefit.

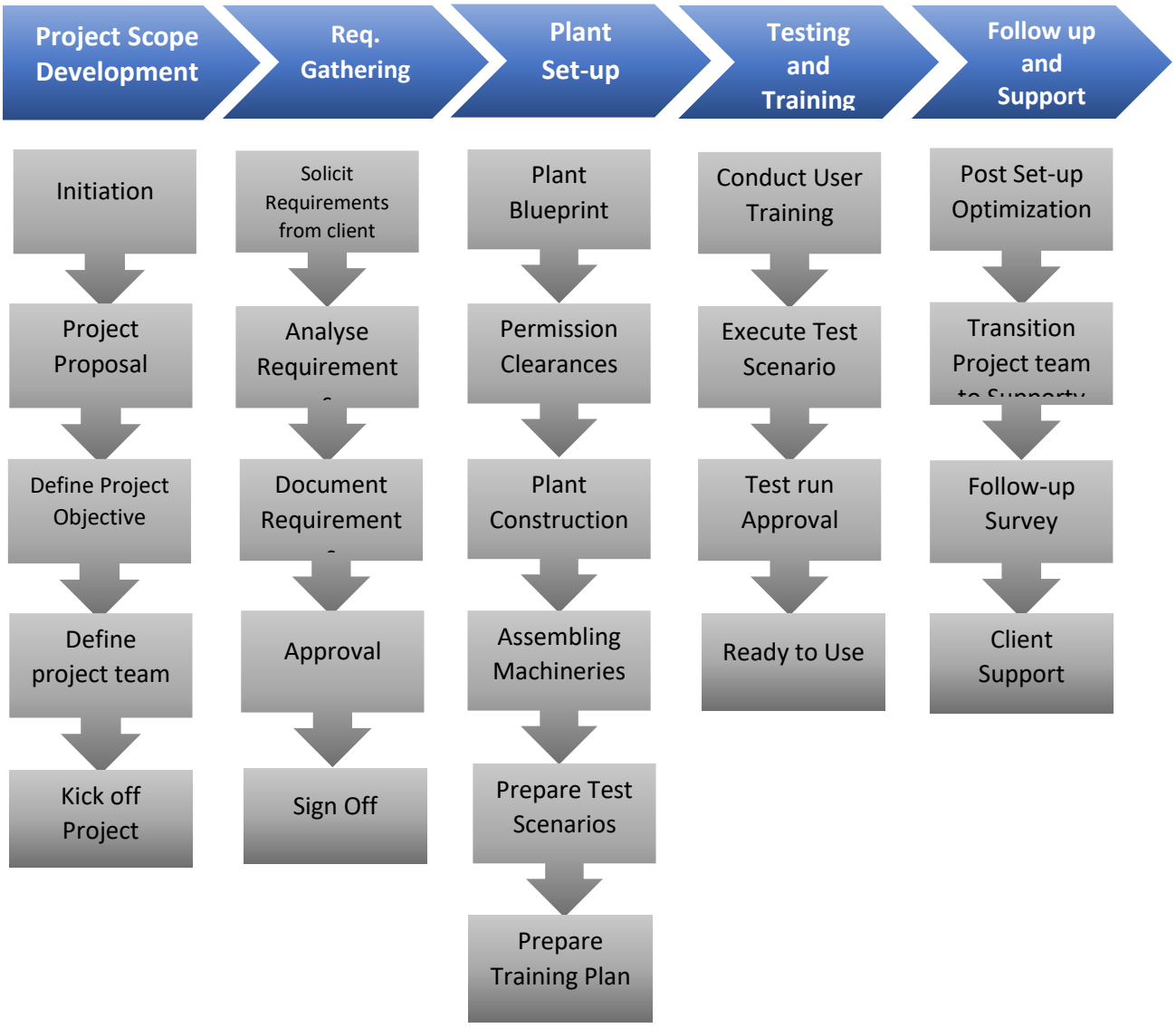
1.2.a WHY CHOOSE US?

E-waste recycling is as significant as recycling any other waste stream, and considering the various materials inside electronic devices, this may be one of the most important waste streams to recycle properly. When e-waste is managed properly, 90-95% of its components can be recycled. This lowers the environmental impact of landfills, new material sourcing, pollution, and contamination substantially.

Gold, platinum, plastics, lead, and glass are some of the materials that can be recycled for reuse in e-waste. They might include hazardous materials like mercury and lead, which must be handled carefully to avoid harming the individuals or the environment.

It's important to recycle your e-waste with a reliable firm that manages the recycling process ethically and safely. The AHN PVT LTD E-waste recycling plant offers an e-waste recycling service to ensure that your outdated electronics are recycled instead of being disposed of in a landfill. The recycling procedure also assures that your private details cannot be recovered, ensuring that your data security is never compromised.

1.3 TECHNICAL METHODOLOGY



1.4 ASSUMPTIONS

- ✓ Once the stakeholders have signed off on the scope statement, the project will follow a waterfall technique throughout its implementation.
- ✓ The project will adhere to the principles and requirements for team governance.
- ✓ Within the project schedule, materials will arrive on time.
- ✓ As needed, training rooms will be available at the training facility.
- ✓ The client company will be accessible for testing during the agreed-upon time frame.
- ✓ The project servers arrive fully configured.
- ✓ The correct quantity of handheld devices arrives on time and without any delays.
- ✓ The project's costs will remain the same as they were originally estimated.
- ✓ There will be no additional training expenses because the training would be provided internally.

2. PROJECT SCOPE

2.1 REQUIREMENTS TRACEABILITY MATRIX

The requirement matrix is a document that we provide to show the relationship between requirements and other deliverables. Used to show that requirements have been met. It also keeps track of requirements, tests, results, and issues.

It's essential to keep track of your requirements. It starts when a requirement is formed. This will continue until the criterion has been met. As a result, it ensures that your requirements meet your original objectives. This increases test coverage by connecting test cases to requirements. As a result, QA will be able to test everything correctly. The requirements matrix is useful for project management. You'll also have authority over the scope of your requirements.

The requirements matrix connects the development lifecycle's components - requirements, source code, tests, and issues. Teams will be able to achieve quality requirements, develop safe products, and remain competitive as a result of this

RTM documents all of the client's requirements and their traceability in a single document supplied at the end of the life cycle.

The software business enters the picture here. RTM is a document used in software development projects to ensure that all requirements are linked to test cases. RTM is primarily used by project managers to ensure that all criteria will be met throughout the testing phase.

RTM is frequently used to assess the impact of project requirements. When project requirements change in the middle, a traceability matrix shows you which workflows, test cases, training materials, and software code are affected.

2.2 PROJECT DELIVERABLES

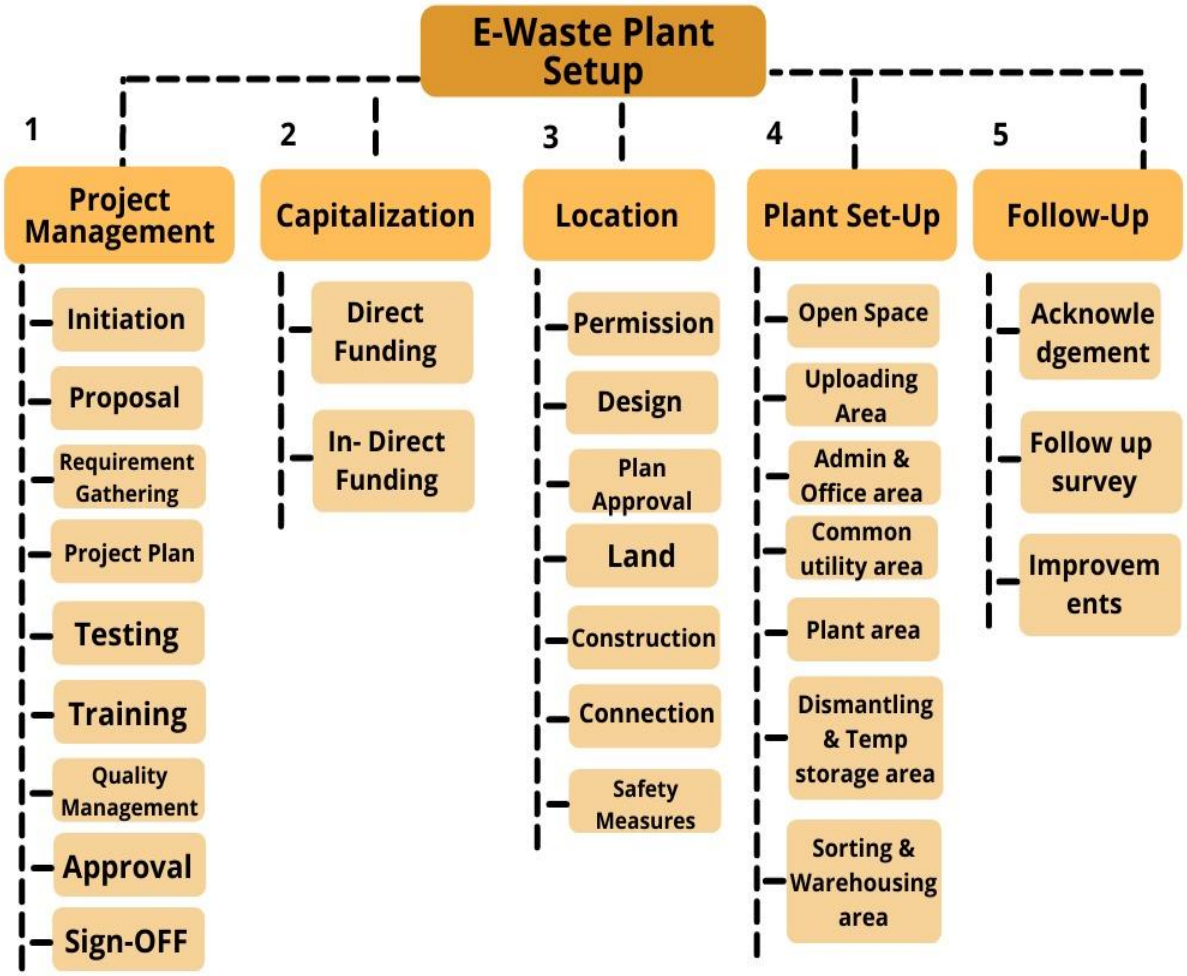
A deliverable is real or intangible good or service that is supposed to be delivered as a result of this project. Internal and external stakeholders should agree on the deliverable within the scope of the project. This will assist in meeting the project's objectives.

MILESTONE	DELIVERABLES
i. Project Initiation	Kick-off meeting Project charter Project repository
ii. Requirement Gathering	Requirement documents sign-off Approval letter signed-off
iii. Project Planning	Project plan Project schedule Risk and issue log Communications plan
iv. Project Approvals	Plant blueprint approved Legal clearances document
v. Project execution	Weekly project status report Meeting notes Assignment of execution team members and other support personnel
vi. Project Development	Periodic development reviews Revised project schedule Revised risk and issues log Weekly project status report Weekly project status meeting
vii. Project Testing and Training	Test scenario report Test run report Training modules/materials Training environment
viii. Project control	Project control report Project change request Final project acceptance
ix. Project closure	Project cost report Project completion report Production environment Deployed production-ready system Team performance report Team reflection meeting notes

2.3 WBS

Our project's work breakdown structure (WBS) provides a visible, hierarchical, and deliverable-oriented breakdown. The work breakdown structure chart outlines all of the project's steps, making it a crucial project planning tool. The final project deliverable, as well as the tasks and work packages associated with it, sit atop the WBS diagram, while the WBS levels below partition the project scope to show the activities, deliverables, and work packages required to complete the project from the beginning to end.

WBS identifies all of the tasks that must be accomplished (and in what order) to meet the project's goals and objectives. We can better understand our project scope and devote resources to all project tasks by visualizing them in this way.



WBS	Task name	Duration	Start	Finish	Predecessors	Resource names
EWSTPROJ2022-	**Project1**	**190 days**	**Wed 1/06/22**	**Tue 21/02/23**		
EWSTPROJ2022-01	PROJECT DURATION	189 days	Wed 1/06/22	Mon 20/02/23		
EWSTPROJ2022-02	**1. Project Management**	**30 days**	**Wed 1/06/22**	**Tue 12/07/22**		
EWSTPROJ2022-02.01	**1.1 Initiation**	**5 days**	**Wed 1/06/22**	**Tue 7/06/22**		
EWSTPROJ2022-02.01.01	1.1.1 Project Charter	2 days	Wed 1/06/22	Thu 2/06/22		Asst. Proj Manager [75%], Team member 1
EWSTPROJ2022-02.01.02	1.1.2 Approval	1 day	Fri 3/06/22	Fri 3/06/22	4	Asst. Proj Manager [75%]
EWSTPROJ2022-02.01.03	1.1.3 Continue with project proposal	2 days	Mon 6/06/22	Tue 7/06/22	5	Asst. Proj Manager [75%]
EWSTPROJ2022-02.02	**1.2 Proposal**	**4 days**	**Wed 8/06/22**	**Mon 13/06/22**	**3**	
EWSTPROJ2022-02.02.01	1.2.1 Project Overview	2 days	Wed 8/06/22	Thu 9/06/22	6	Asst. Proj Manager [75%]
EWSTPROJ2022-02.02.02	1.2.2 Project Objective	2 days	Wed 8/06/22	Thu 9/06/22	6	Team member 1
EWSTPROJ2022-02.02.03	1.2.3Proceed with requirement gathering	1 day	Fri 10/06/22	Fri 10/06/22	9	
EWSTPROJ2022-02.03	**1.3 Requirement Gathering**	**7 days**	**Tue 14/06/22**	**Wed 22/06/22**	**7**	
EWSTPROJ2022-02.03.01	1.3.1 Scope Statement	1 day	Tue 14/06/22	Tue 14/06/22	10	Team member 2
EWSTPROJ2022-02.03.02	1.3.2 Define Scope	2 days	Tue 14/06/22	Wed 15/06/22	10	Team member 1
EWSTPROJ2022-02.03.03	1.3.3 Requirements	2 days	Thu 16/06/22	Fri 17/06/22	13	Team member 2

EWSTPROJ2022-02.03.04	1.3.4 Ideology	1 day	Mon 20/06/22	Mon 20/06/22	14	Team member 2
EWSTPROJ2022-02.03.05	1.3.5 Perform integrated change control (if any)	1 day	Mon 20/06/22	Mon 20/06/22	14	Asst. Proj Manager [75%]
EWSTPROJ2022-02.03.06	1.3.6 Requirement document approved	1 day	Tue 21/06/22	Tue 21/06/22	16	Asst. Proj Manager [75%]
EWSTPROJ2022-02.03.07	1.3.7 Continue with Project plan	1 day	Wed 22/06/22	Wed 22/06/22	17	
EWSTPROJ2022-02.04	**1.4 Project Plan**	**8 days**	**Thu 23/06/22**	**Mon 4/07/22**	**11**	
EWSTPROJ2022-02.04.01	1.4.1 Assumptions	1 day	Thu 23/06/22	Thu 23/06/22		Team member 3
EWSTPROJ2022-02.04.02	1.4.2 Risk Management	2 days	Fri 24/06/22	Mon 27/06/22	20	Team member 2
EWSTPROJ2022-02.04.03	1.4.3 Security Initial review	1 day	Fri 24/06/22	Fri 24/06/22	20	Team member 3
EWSTPROJ2022-02.04.04	1.4.4 Plan approval	2 days	Mon 27/06/22	Tue 28/06/22	22	Asst. Proj Manager [75%]
EWSTPROJ2022-02.04.05	1.4.5 Communication	2 days	Wed 29/06/22	Thu 30/06/22	23	Team member 2
EWSTPROJ2022-02.04.06	1.4.6 Purchases and acquisition	2 days	Wed 29/06/22	Thu 30/06/22	23	Asst. Proj Manager [75%]
EWSTPROJ2022-02.04.07	1.4.7 Budget	2 days	Wed 29/06/22	Thu 30/06/22	23	Project Manager
EWSTPROJ2022-02.04.08	1.4.8 Staffing	2 days	Fri 1/07/22	Mon 4/07/22	26	Team member 4
EWSTPROJ2022-02.04.09	1.4.9 Resources	2 days	Fri 1/07/22	Mon 4/07/22	26	Asst. Proj Manager [75%]
EWSTPROJ2022-02.05	**1.5 Quality Management**	**5 days**	**Tue 5/07/22**	**Mon 11/07/22**	**19**	
EWSTPROJ2022-02.05.01	1.5.1 Quality assurance	1 day	Tue 5/07/22	Tue 5/07/22		QA Analyst 1

EWSTPROJ2022-02.05.02	1.5.2 Quality Control	2 days	Wed 6/07/22	Thu 7/07/22	30	Asst. Proj Manager [75%], QA Analyst 1
EWSTPROJ2022-02.05.03	1.5.3 Inspection	2 days	Fri 8/07/22	Mon 11/07/22	31	QA Analyst 1
EWSTPROJ2022-02.06	**1.6 Approval**	**2 days**	**Mon 11/07/22**	**Tue 12/07/22**		
EWSTPROJ2022-02.06.01	1.6.1 Final project flow	1 day	Mon 11/07/22	Mon 11/07/22		Asst. Proj Manager [75%]
EWSTPROJ2022-02.06.02	1.6.2 Change Control	1 day	Tue 12/07/22	Tue 12/07/22	34	Asst. Proj Manager [75%]
EWSTPROJ2022-02.06.03	1.6.3 Implement Changes	1 day	Tue 12/07/22	Tue 12/07/22	34	
EWSTPROJ2022-02.06.04	1.6.4 Final Approval	1 day	Tue 12/07/22	Tue 12/07/22	34	Project Manager
EWSTPROJ2022-03	**2 Capitalization**	**10 days**	**Wed 13/07/22**	**Tue 26/07/22**		
EWSTPROJ2022-03.01	**2.1 Direct Funding**	**4 days**	**Wed 13/07/22**	**Mon 18/07/22**		
EWSTPROJ2022-03.01.01	2.1.1 Partnership funds	3 days	Wed 13/07/22	Fri 15/07/22		
EWSTPROJ2022-03.01.02	2.1.2 Revenue funds	2 days	Wed 13/07/22	Thu 14/07/22		
EWSTPROJ2022-03.01.03	2.1.3 Re innovating funds	2 days	Wed 13/07/22	Thu 14/07/22		
EWSTPROJ2022-03.01.04	2.1.4 Stock market funds	4 days	Wed 13/07/22	Mon 18/07/22		
EWSTPROJ2022-03.02	**2.2 In- Direct Funding**	**6 days**	**Wed 13/07/22**	**Wed 20/07/22**	**39**	
EWSTPROJ2022-03.02.01	2.2.1 Sponsors	3 days	Wed 13/07/22	Fri 15/07/22		
EWSTPROJ2022-03.02.02	2.2.2 Angel Investors	4 days	Wed 13/07/22	Mon 18/07/22		
EWSTPROJ2022-03.02.03	2.2.3 Venture capitalists	5 days	Wed 13/07/22	Tue 19/07/22		

EWSTPROJ2022-03.02.04	2.2.4 Institutional funds	4 days	Wed 13/07/22	Mon 18/07/22		
EWSTPROJ2022-04	**3 Location**	**25 days**	**Thu 28/07/22**	**Wed 31/08/22**	**38**	
EWSTPROJ2022-04.01	**3.1 Permission**	**5 days**	**Thu 28/07/22**	**Wed 3/08/22**		
EWSTPROJ2022-04.01.01	3.1.1 Local authority clearance	4 days	Thu 28/07/22	Tue 2/08/22		Project Manager
EWSTPROJ2022-04.01.02	3.1.2 Environment authority clearance	3 days	Thu 28/07/22	Mon 1/08/22		Asst. Proj Manager [75%]
EWSTPROJ2022-04.02	**3.2 Design**	**15 days**	**Thu 4/08/22**	**Wed 24/08/22**	**50**	
EWSTPROJ2022-04.02.01	3.2.1 Design Consultant	4 days	Thu 4/08/22	Tue 9/08/22		Architect 1
EWSTPROJ2022-04.02.02	3.2.2 Design Planning	8 days	Wed 10/08/22	Fri 19/08/22	54	Architect 1
EWSTPROJ2022-04.02.03	3.2.3 Execution	2 days	Mon 22/08/22	Tue 23/08/22	55	Architect 1
EWSTPROJ2022-04.02.04	3.2.4 Approval	1 day	Wed 24/08/22	Wed 24/08/22	56	Project Manager
EWSTPROJ2022-04.03	**3.3 Land**	**8 days**	**Thu 4/08/22**	**Mon 15/08/22**	**50**	
EWSTPROJ2022-04.03.01	3.3.1 Govt Approved land	2 days	Thu 4/08/22	Fri 5/08/22		
EWSTPROJ2022-04.03.02	3.3.2 Area of extent	3 days	Mon 8/08/22	Wed 10/08/22	59	
EWSTPROJ2022-04.03.03	3.3.3 Terrain of the land	4 days	Mon 8/08/22	Thu 11/08/22	59	
EWSTPROJ2022-04.03.04	3.3.4 Land Survey and inspection	2 days	Fri 12/08/22	Mon 15/08/22	61	Civil Eng. 1, Project Manager
EWSTPROJ2022-04.04	**3.4 Other considerations**	**8 days**	**Tue 16/08/22**	**Thu 25/08/22**		

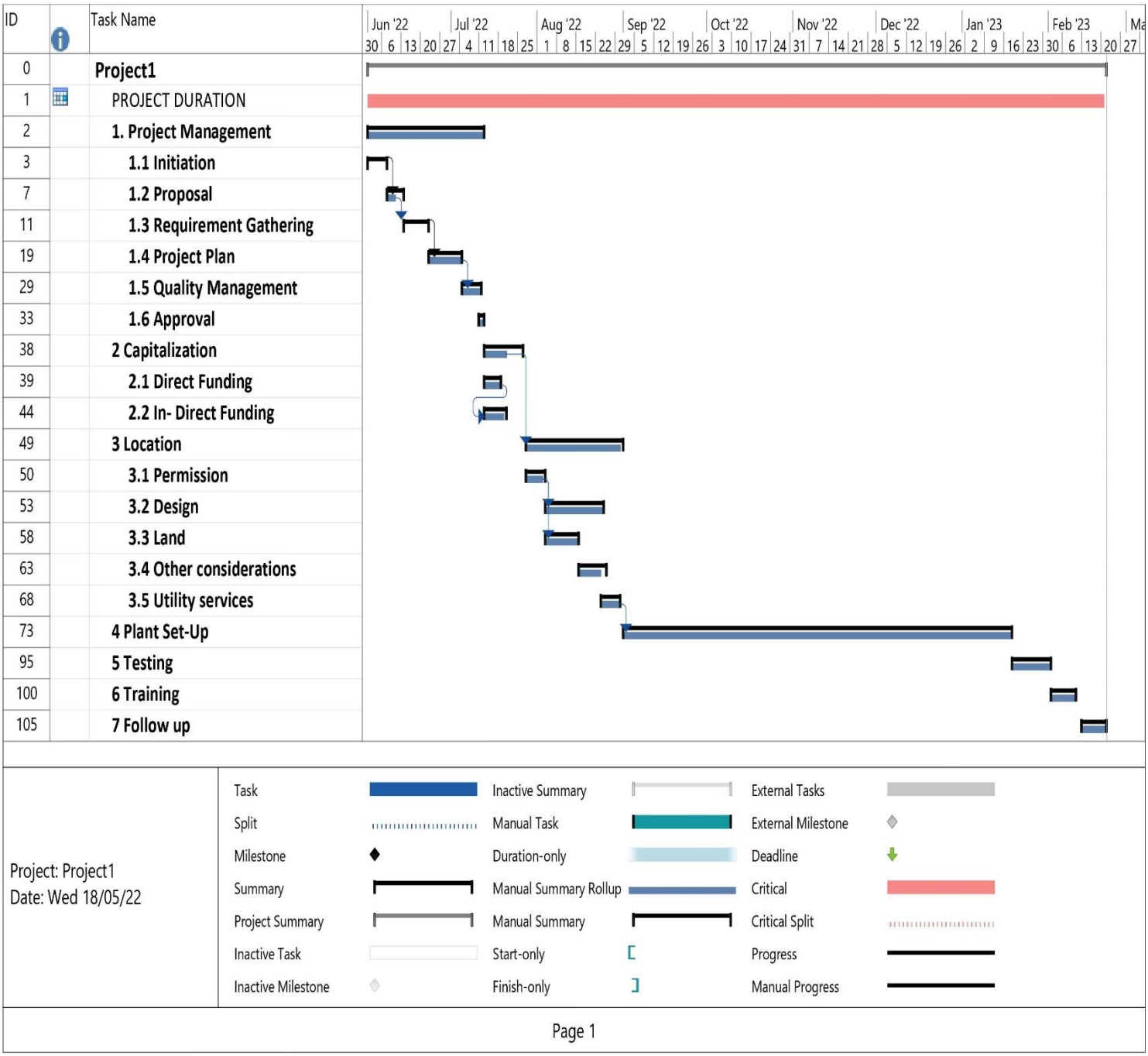
EWSTPROJ2022-04.04.01	3.4.1 Soil quality testing	6 days	Tue 16/08/22	Tue 23/08/22	62	Civil Eng. 1
EWSTPROJ2022-04.04.02	3.4.2 Pollution safety measures	4 days	Tue 16/08/22	Fri 19/08/22		Safety Eng. 1
EWSTPROJ2022-04.04.03	3.4.3 Zoning	2 days	Tue 16/08/22	Wed 17/08/22	59	Asst. Proj Manager [75%]
EWSTPROJ2022-04.04.04	3.4.4 Accessibility	3 days	Tue 16/08/22	Thu 18/08/22	62	
EWSTPROJ2022-04.05	**3.5 Utility services**	**5 days**	**Wed 24/08/22**	**Tue 30/08/22**	**62**	
EWSTPROJ2022-04.05.01	3.5.1 Electricity connection	3 days	Wed 24/08/22	Fri 26/08/22		Electrical eng.1
EWSTPROJ2022-04.05.02	3.5.2 Water connection	2 days	Mon 29/08/22	Tue 30/08/22	69	Piping Eng. 1
EWSTPROJ2022-04.05.03	3.5.3 Gas connection	2 days	Mon 29/08/22	Tue 30/08/22	69	
EWSTPROJ2022-04.05.04	3.5.4 Drainage	2 days	Mon 29/08/22	Tue 30/08/22	69	
EWSTPROJ2022-05	**4 Plant Set-Up**	**100 days**	**Thu 1/09/22**	**Wed 18/01/23**	**68**	
EWSTPROJ2022-05.01	4.1 Gathering machinery	22 days	Thu 1/09/22	Fri 30/09/22	70	Asst. Proj Manager [75%]
EWSTPROJ2022-05.02	4.2 Assign the Construction manager	3 days	Mon 3/10/22	Wed 5/10/22	74	Team member 5
EWSTPROJ2022-05.03	4.3 Assign the construction supervisor	4 days	Thu 6/10/22	Tue 11/10/22	75	Team member 5
EWSTPROJ2022-05.04	4.4 Assign Labourers	10 days	Thu 6/10/22	Wed 19/10/22	75	Asst. Proj Manager [75%]
EWSTPROJ2022-05.05	4.5 Gathering Materials (Iron rods, Metal sheets, bricks, cement, sand)	20 days	Thu 6/10/22	Wed 2/11/22	75	Project Manager
EWSTPROJ2022-05.06	4.6 Gathering Equipment's (cement mixer, crane,	12 days	Thu 6/10/22	Fri 21/10/22	75	Civil Eng. 1

	dozers, other transports ..)					
EWSTPROJ2022-05.07	4.7 Lay down the foundations	10 days	Thu 20/10/22	Wed 2/11/22	77	Work force 1, Work force 2, Work force 3
EWSTPROJ2022-05.08	4.8 Construct support pillars	7 days	Thu 3/11/22	Fri 11/11/22	80	Work force 3, Work force 4
EWSTPROJ2022-05.09	4.9 Assemble sheet metals	8 days	Mon 14/11/22	Wed 23/11/22	81	Work force 1, Work force 4, Work force 5
EWSTPROJ2022-05.10	4.10 Flooring	10 days	Thu 24/11/22	Wed 7/12/22	82	Work force 14, Work force 15
EWSTPROJ2022-05.11	4.11 Painting	5 days	Thu 24/11/22	Wed 30/11/22	82	Work force 5, Work force 6
EWSTPROJ2022-05.12	4.12 Wiring	8 days	Thu 24/11/22	Mon 5/12/22	82	Electrical eng.1, Work force 13
EWSTPROJ2022-05.13	4.13 Open Space area set-up (Parking, dock floor)	4 days	Thu 8/12/22	Tue 13/12/22	83	Civil Eng. 1, Work force 5, Work force 6
EWSTPROJ2022-05.14	4.14 Warehouse area setup (godowns, warehouse)	3 days	Thu 24/11/22	Mon 28/11/22	82	Structural Eng. 1, Work force 2
EWSTPROJ2022-05.15	4.15 Admin & office Area setup (Furniture, fixtures)	7 days	Thu 24/11/22	Fri 2/12/22	82	Project Manager, Work force 1
EWSTPROJ2022-05.16	4.16 Common utility area setup (Vending machines, Kitchen appliances, Sanitary appliances)	10 days	Thu 8/12/22	Wed 21/12/22	83	Team member 3, Work force 7
EWSTPROJ2022-05.17	4.17 Assemble the machineries used for the recycling procedure	10 days	Tue 29/11/22	Mon 12/12/22	87	Design Eng. 1, Work force 10, Work force 11, Work force 12

EWSTPROJ2022-05.18	4.18 Control room setup (systems, cameras, internet, servers, others)	4 days	Tue 13/12/22	Fri 16/12/22	90	System Eng. 1, Team member 5, Work force 9, Work force 15
EWSTPROJ2022-05.19	4.19 Dismantle and Temp storage area setup	8 days	Tue 13/12/22	Thu 22/12/22	90	Team member 6, Work force 12, Work force 13, Work force 14
EWSTPROJ2022-05.20	4.20 Sorting and Finished products warehouse (categorical sorting, non-ferrous, precious, toxic, cold storage, general, finished products and hazardous)	16 days	Fri 23/12/22	Fri 13/01/23	92	Asst. Proj Manager [75%], Work force 11, Work force 12, Work force 13
EWSTPROJ2022-05.21	4.21 Plant ready for test run	3 days	Mon 16/01/23	Wed 18/01/23	93	Asst. Proj Manager [75%], Project Manager, Safety Eng. 1, System Eng. 1
EWSTPROJ2022-06	**5 Testing**	**10 days**	**Thu 19/01/23**	**Wed 1/02/23**	**94**	
EWSTPROJ2022-06.01	5.1 Reporting	2 days	Thu 19/01/23	Fri 20/01/23	94	Team member 4
EWSTPROJ2022-06.02	5.2 Test Scenarios	3 days	Thu 19/01/23	Mon 23/01/23	94	Team member 5
EWSTPROJ2022-06.03	5.3 Test Runs	5 days	Mon 23/01/23	Fri 27/01/23	96	System Eng. 1, Team member 6
EWSTPROJ2022-06.04	5.4 Load Test	3 days	Mon 30/01/23	Wed 1/02/23	98	System Eng. 1, Team member 5, Work force 14
EWSTPROJ2022-07	**6 Training**	**7 days**	**Thu 2/02/23**	**Fri 10/02/23**	**99**	
EWSTPROJ2022-07.01	6.1 User Manual	1 day	Thu 2/02/23	Thu 2/02/23	99	Technician/ trainer 1, Technician/

						trainer 3
EWSTPROJ2022-07.02	6.2 Training modules	3 days	Fri 3/02/23	Tue 7/02/23	101	Technician/ trainer 2
EWSTPROJ2022-07.03	6.3Mock Trials	2 days	Wed 8/02/23	Thu 9/02/23	102	Technician/ trainer 3, Technician/ trainer 5
EWSTPROJ2022-07.04	6.4 Plant ready to use	1 day	Fri 10/02/23	Fri 10/02/23	103	Technician/ trainer 4, Technician/ trainer 5
EWSTPROJ2022-08	**7 Follow up**	**7 days**	**Mon 13/02/23**	**Tue 21/02/23**	**104**	
EWSTPROJ2022-08.01	7.1 Follow up survey	3 days	Mon 13/02/23	Wed 15/02/23	104	Support team member 3, Support team member 4
EWSTPROJ2022-08.02	7.2 Maintenance and support	2 days	Thu 16/02/23	Fri 17/02/23	106	Support team member 1, Support team member 2
EWSTPROJ2022-08.03	7.3 Improvements	2 days	Thu 16/02/23	Fri 17/02/23	106	Support team member 3, Support team member 4
EWSTPROJ2022-08.04	7.4 Acknowledgement	2 days	Mon 20/02/23	Tue 21/02/23	108	Project Manager, Support team member 1

2.3.a WBS Indented format with Gantt chart

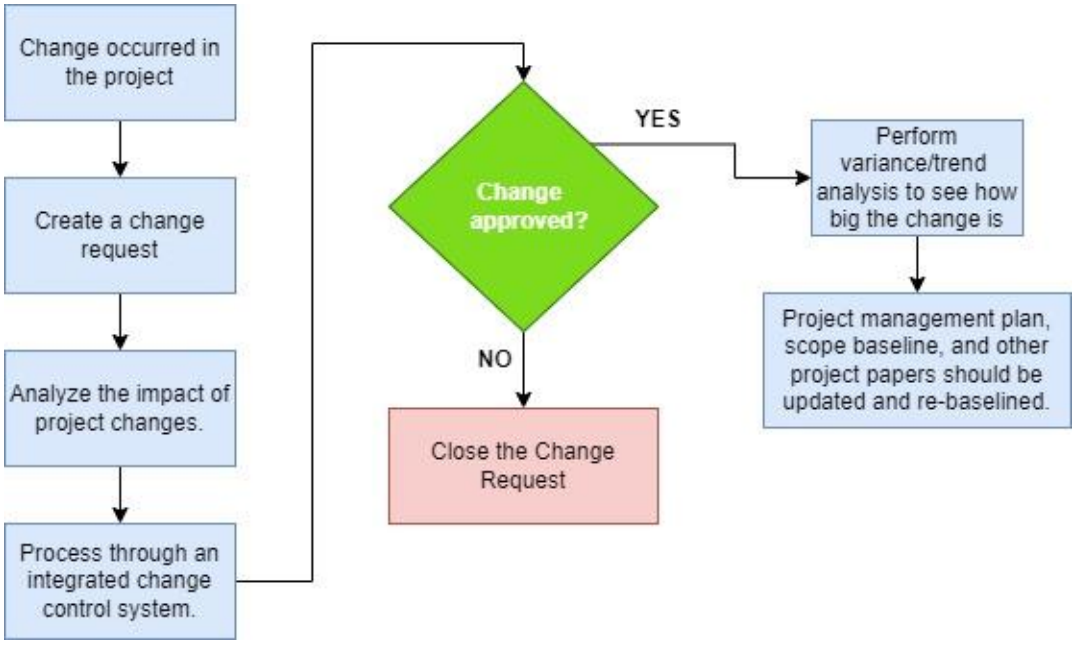


Project: Project1
Date: Wed 18/05/22

Task	Inactive Summary	External Tasks
Split	Manual Task	External Milestone
Milestone	Duration-only	Deadline
Summary	Manual Summary Rollup	Critical
Project Summary	Manual Summary	Critical Split
Inactive Task	Start-only	Progress
Inactive Milestone	Finish-only	Manual Progress

2.4 SCOPE CONTROL

Scope control keeps track of the scope baseline and modifies it as required. It maintains a record of the project's and product's progress, as well as any changes to the scope baseline.



In the scope control process, the following are provided as inputs:

- Project Management Plan:
  The following Project Management Plan criteria will assist in scope management: Plan for Scope Management, Requirements Management, Change Management, and Baseline for Scope
- Project Documents:
  Documentation of requirements, requirement traceability matrix
- Work Performance Data:
  The percentage of change requests received, approved changes, and project deliverables completed are all documented in work performance data.
- Organizational Process Assets:
  This includes any scope management policies and procedures that have been developed by the performing organization.

The tools and techniques used in this control process are Variance Analysis and Trend Analysis. The degree and causes of differences between the project baseline and actual performance during the execution stage are determined using variance analysis. Only after the comparison has been made can the project manager evaluate the project's performance. Trend analysis is a method to periodically analyse a project's performance to determine if it is declining or improving.

In the Scope control process, the following outputs are included:

- Work performance information:
  When compared to the scope baseline, the work performance information describes how the project scope is performing. Everything is documented under the job performance information, including the cause of the scope variance and the effects of the revisions.
- Change requests:
  Preventive or corrective measures, defect repairs, and enhancement requests are all examples of change requests.
- Project management plan updates:
  The Project Management Plan must be revised regularly. The following are the most important areas to update:
  - Scope management plan: Any alterations to the project's scope will be reflected in the scope management plan, which will show how the scope will be managed.
  - Scope baseline updates: When approved change requests have an impact on the project scope, the scope statement, WBS, and WBS dictionary shall be updated to reflect the changes and the adjustments must be deployed.
  - Schedule baseline: In response to approved modifications in scope, resources, or schedule projections, any changes to the schedule baseline are incorporated.
  - Cost baseline: In response to approved modifications in scope, resources, or schedule projections, any changes to the cost baseline are incorporated.
  - Performance measurement baseline: In response to approved modifications in scope, schedule performance, or cost estimates, every modification to the performance measurement baseline is incorporated. A change request may be submitted in some situations to update the performance measurement baseline to give a much more realistic basis for performance measurement.
- Project document updates: The requirements documentation and the requirements traceability matrix are two documents that may need to be updated. Keeping both documents updated helps in managing and controlling changes to a project's scope.

3. Project Schedule

3.1 Milestone list

A project's timeline is incomplete without a milestone. Milestones are important in project management because they enhance the project schedule. It enables project managers to identify whether or not their projects are on track. The detailed work-based structure [WBS] of the company's project is shown in the table below. The tasks that must be finished are organized into a simple and practical framework that describes the project's duration.

The project will take around 190 days to complete. The project will begin on June 1, 2022, and will conclude on February 22, 2023. The start and finish dates refer to the time it will take to complete each task or activity in the project. Throughout the project, Australia West Standard Time (AWST) is used. The Australian holiday calendar is followed.

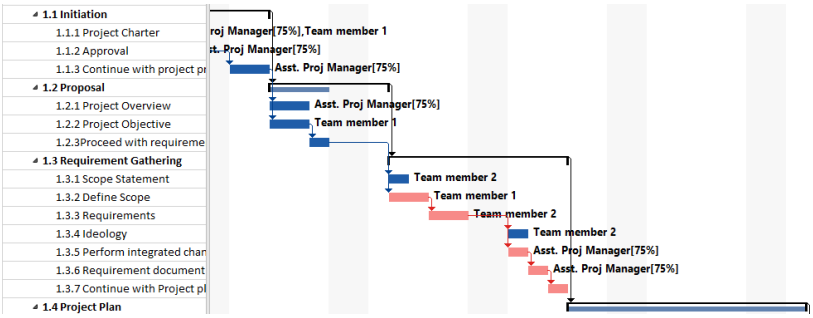
Task Name	Duration	Start	Finish
Project1	**190 days**	**Wed 1/06/22**	**Tue 21/02/23**
1. Project Management	**30 days**	**Wed 1/06/22**	**Tue 12/07/22**
Initiation	**5 days**	**Wed 1/06/22**	**Tue 7/06/22**
Project Charter	2 days	Wed 1/06/22	Thu 2/06/22
Approval	1 day	Fri 3/06/22	Fri 3/06/22
Continue with project proposal	2 days	Mon 6/06/22	Tue 7/06/22
Proposal	**4 days**	**Wed 8/06/22**	**Mon 13/06/22**
Project Overview	2 days	Wed 8/06/22	Thu 9/06/22
Project Objective	2 days	Wed 8/06/22	Thu 9/06/22
Proceed with requirement gathering	1 day	Fri 10/06/22	Fri 10/06/22
Requirement Gathering	**7 days**	**Tue 14/06/22**	**Wed 22/06/22**
Scope Statement	1 day	Tue 14/06/22	Tue 14/06/22
Define Scope	2 days	Tue 14/06/22	Wed 15/06/22
Requirements	2 days	Thu 16/06/22	Fri 17/06/22
Ideology	1 day	Mon 20/06/22	Mon 20/06/22
Perform integrated change control (if any)	1 day	Mon 20/06/22	Mon 20/06/22
Requirement document approved	1 day	Tue 21/06/22	Tue 21/06/22
Continue with Project plan	1 day	Wed 22/06/22	Wed 22/06/22
Project Plan	**8 days**	**Thu 23/06/22**	**Mon 4/07/22**
Assumptions	1 day	Thu 23/06/22	Thu 23/06/22
Risk Management	2 days	Fri 24/06/22	Mon 27/06/22
Security Initial review	1 day	Fri 24/06/22	Fri 24/06/22
Plan approval	2 days	Mon 27/06/22	Tue 28/06/22
Communication	2 days	Wed 29/06/22	Thu 30/06/22
Purchases and acquisition	2 days	Wed 29/06/22	Thu 30/06/22
Budget	2 days	Wed 29/06/22	Thu 30/06/22
Staffing	2 days	Fri 1/07/22	Mon 4/07/22
Resources	2 days	Fri 1/07/22	Mon 4/07/22
Quality Management	**5 days**	**Tue 5/07/22**	**Mon 11/07/22**
Quality assurance	1 day	Tue 5/07/22	Tue 5/07/22
Quality Control	2 days	Wed 6/07/22	Thu 7/07/22
Inspection	2 days	Fri 8/07/22	Mon 11/07/22
Approval	**2 days**	**Mon 11/07/22**	**Tue 12/07/22**
Final project flow	1 day	Mon 11/07/22	Mon 11/07/22
Change Control	1 day	Tue 12/07/22	Tue 12/07/22
Implement Changes	1 day	Tue 12/07/22	Tue 12/07/22

Final Approval	1 day	Tue 12/07/22	Tue 12/07/22
Capitalization	**10 days**	**Wed 13/07/22**	**Tue 26/07/22**
Direct Funding	**4 days**	**Wed 13/07/22**	**Mon 18/07/22**
Partnership funds	3 days	Wed 13/07/22	Fri 15/07/22
Revenue funds	2 days	Wed 13/07/22	Thu 14/07/22
Re innovating funds	2 days	Wed 13/07/22	Thu 14/07/22
Stock market funds	4 days	Wed 13/07/22	Mon 18/07/22
In- Direct Funding	**6 days**	**Wed 13/07/22**	**Wed 20/07/22**
Sponsors	3 days	Wed 13/07/22	Fri 15/07/22
Angel Investors	4 days	Wed 13/07/22	Mon 18/07/22
Venture capitalists	5 days	Wed 13/07/22	Tue 19/07/22
Institutional funds	4 days	Wed 13/07/22	Mon 18/07/22
Location	**25 days**	**Thu 28/07/22**	**Wed 31/08/22**
Permission	**5 days**	**Thu 28/07/22**	**Wed 3/08/22**
Local authority clearance	4 days	Thu 28/07/22	Tue 2/08/22
Environment authority clearance	3 days	Thu 28/07/22	Mon 1/08/22
Design	**15 days**	**Thu 4/08/22**	**Wed 24/08/22**
Design Consultant	4 days	Thu 4/08/22	Tue 9/08/22
Design Planning	8 days	Wed 10/08/22	Fri 19/08/22
Execution	2 days	Mon 22/08/22	Tue 23/08/22
Approval	1 day	Wed 24/08/22	Wed 24/08/22
Land	**8 days**	**Thu 4/08/22**	**Mon 15/08/22**
Govt Approved land	2 days	Thu 4/08/22	Fri 5/08/22
Area of extent	3 days	Mon 8/08/22	Wed 10/08/22
Terrain of the land	4 days	Mon 8/08/22	Thu 11/08/22
Land Survey and inspection	2 days	Fri 12/08/22	Mon 15/08/22
Other considerations	**8 days**	**Tue 16/08/22**	**Thu 25/08/22**
Soil quality testing	6 days	Tue 16/08/22	Tue 23/08/22
Pollution safety measures	4 days	Tue 16/08/22	Fri 19/08/22
Zoning	2 days	Tue 16/08/22	Wed 17/08/22
Accessibility	3 days	Tue 16/08/22	Thu 18/08/22
Utility services	**5 days**	**Wed 24/08/22**	**Tue 30/08/22**
Electricity connection	3 days	Wed 24/08/22	Fri 26/08/22
Water connection	2 days	Mon 29/08/22	Tue 30/08/22
Gas connection	2 days	Mon 29/08/22	Tue 30/08/22
Drainage	2 days	Mon 29/08/22	Tue 30/08/22
Plant Set-Up	**100 days**	**Thu 1/09/22**	**Wed 18/01/23**
Gathering machinery	22 days	Thu 1/09/22	Fri 30/09/22
Assign the Construction manager	3 days	Mon 3/10/22	Wed 5/10/22
Assign the construction supervisor	4 days	Thu 6/10/22	Tue 11/10/22
Assign Labourers	10 days	Thu 6/10/22	Wed 19/10/22
Gathering Materials (Iron rods, Metal sheets, bricks, cement, sand)	20 days	Thu 6/10/22	Wed 2/11/22
Gathering Equipment (cement mixer, crane, dozers, other transports .)	12 days	Thu 6/10/22	Fri 21/10/22
Lay down the foundations	10 days	Thu 20/10/22	Wed 2/11/22
Construct support pillars	7 days	Thu 3/11/22	Fri 11/11/22
Assemble sheet metals	8 days	Mon 14/11/22	Wed 23/11/22
Flooring	10 days	Thu 24/11/22	Wed 7/12/22
Painting	5 days	Thu 24/11/22	Wed 30/11/22
Wiring	8 days	Thu 24/11/22	Mon 5/12/22
Open Space area set-up (Parking, Adock floor)	4 days	Thu 8/12/22	Tue 13/12/22
Warehouse area setup (godowns, warehouse)	3 days	Thu 24/11/22	Mon 28/11/22
Admin & office Area setup (Furniture, fixtures)	7 days	Thu 24/11/22	Fri 2/12/22

Common utility area setup (Vending machines, Kitchen appliances, Sanitary appliances)	10 days	Thu 8/12/22	Wed 21/12/22
Assemble the machineries used for the recycling procedure	10 days	Tue 29/11/22	Mon 12/12/22
Control room setup (systems, cameras, internet, servers, others)	4 days	Tue 13/12/22	Fri 16/12/22
Dismantle and Temp storage area setup	8 days	Tue 13/12/22	Thu 22/12/22
Sorting and Finished products warehouse (categorical sorting, non-ferrous, precious, toxic, cold storage, general, finished products and hazardous)	16 days	Fri 23/12/22	Fri 13/01/23
Plant ready for test run	3 days	Mon 16/01/23	Wed 18/01/23
Testing	**10 days**	**Thu 19/01/23**	**Wed 1/02/23**
Reporting	2 days	Thu 19/01/23	Fri 20/01/23
Test Scenarios	3 days	Thu 19/01/23	Mon 23/01/23
Test Runs	5 days	Mon 23/01/23	Fri 27/01/23
Load Test	3 days	Mon 30/01/23	Wed 1/02/23
Training	**7 days**	**Thu 2/02/23**	**Fri 10/02/23**
User Manual	1 day	Thu 2/02/23	Thu 2/02/23
Training modules	3 days	Fri 3/02/23	Tue 7/02/23
Mock Trials	2 days	Wed 8/02/23	Thu 9/02/23
Plant ready to use	1 day	Fri 10/02/23	Fri 10/02/23
Follow up	**7 days**	**Mon 13/02/23**	**Tue 21/02/23**
Follow up survey	3 days	Mon 13/02/23	Wed 15/02/23
Maintenance and support	2 days	Thu 16/02/23	Fri 17/02/23
Improvements	2 days	Thu 16/02/23	Fri 17/02/23
Acknowledgement	2 days	Mon 20/02/23	Tue 21/02/23

3.2. Discussion on Task Dependences

The milestones list and charts show how major deliverables and other critical phases are accomplished (Project Management Institute, 2017, p.469). The milestone schedule list depicts important project milestones, each of which refers to a critical stage in the setup of an E waste recycling plant. Defining task dependencies allows you to specify when tasks commence and end, as well as when the project might be finished. A job with such a Finish-to-Start dependency cannot begin until its predecessors have completed. To put it another way, Task B cannot begin until Task A is accomplished.

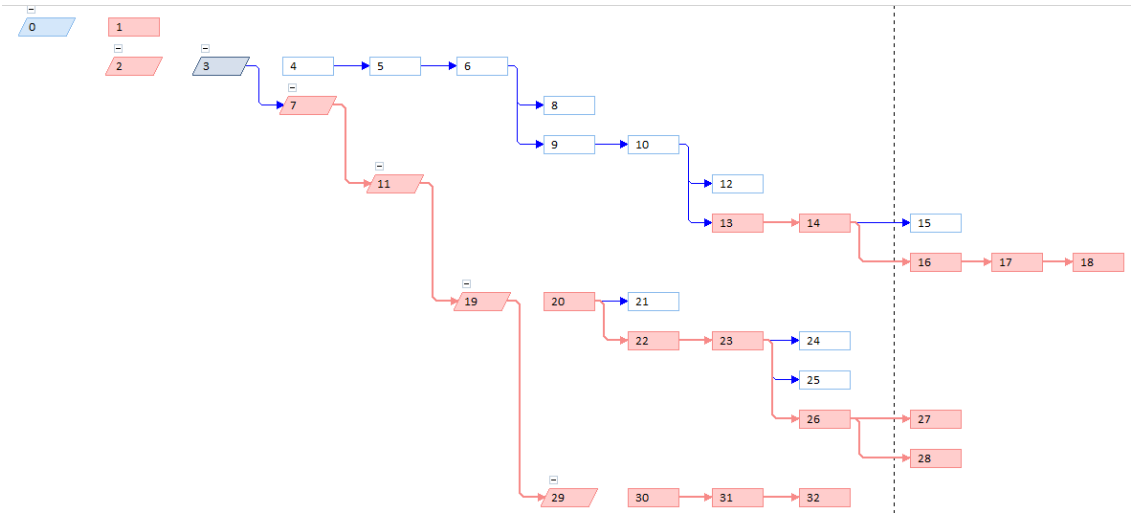


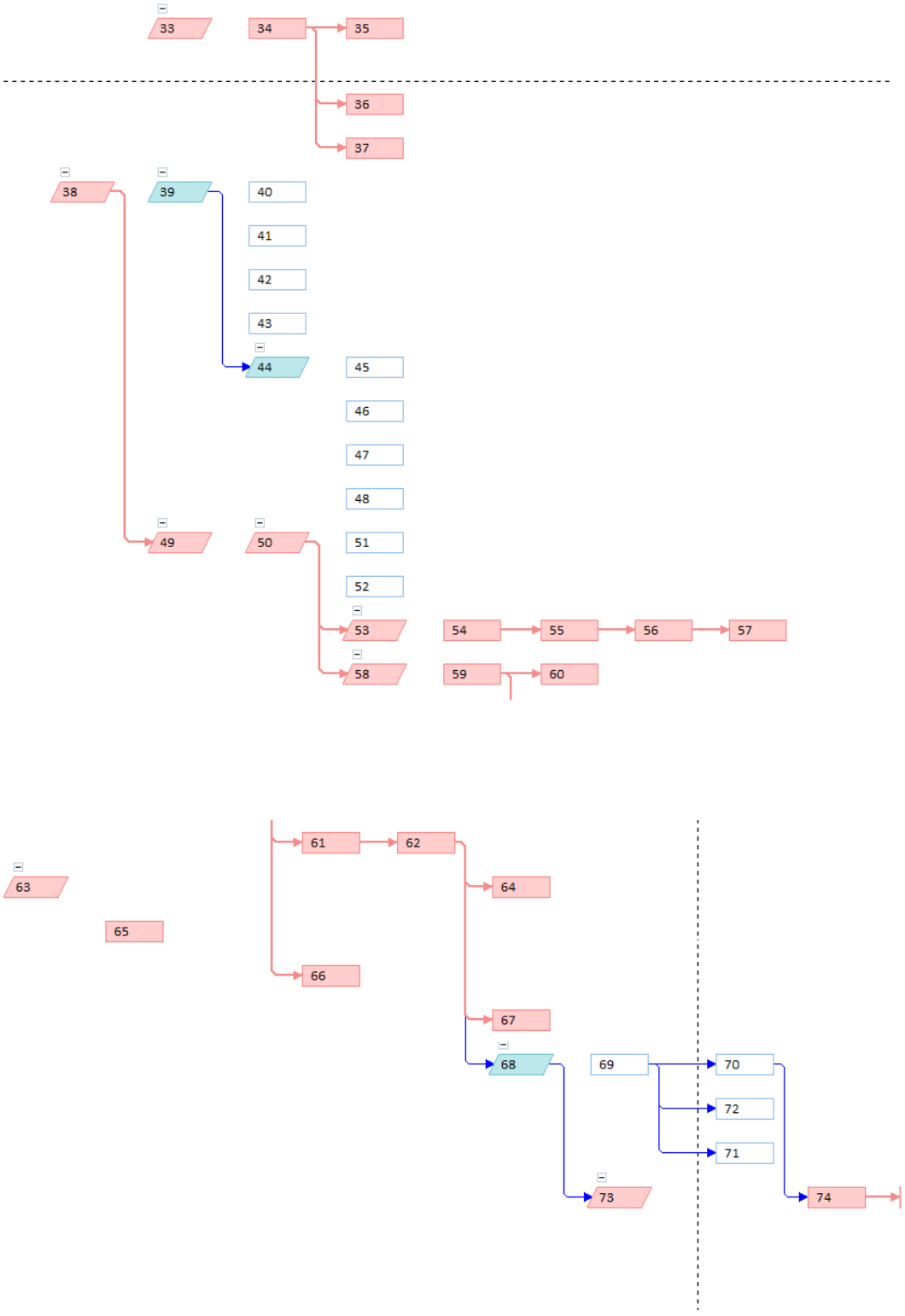
The task dependencies in this project is "Finish-to-start."
From June 1, 2022, through February 22, 2023, the overall anticipated duration is 190 days. For this e-waste plant setup, there are seven major milestones that must be reached in order to accomplish various activities under this using the finish-to-start method. The finish-to-start task dependency is shown in the picture above. Each overview represents the first step in a series of tasks. For example, the Initiation milestone is "Start the project," and the End of Project milestone is "Follow up survey and plant maintenance."

3.3 Project Plan (Detailed Network Diagram)

A project plan is a collection of formal documents that outline the project's implementation and control stages. Risk assessment, resource planning, and communications are all addressed in the plan, as well as scope, budget, and schedule baselines. The critical path must be identified before a project schedule can be created. The project is meticulously planned, with various factors taken into account, as it is for E-waste recycling plant setup. It has been planned in a precise structural manner, and even the length of time is taken into account as it is structured to meet the end and start dates. It assists in the identification of the project's critical path.

The AHN PVT LTD company's critical pathway is in the early planning stages for plant configuration, as shown in the network diagram, and many factors must be considered. The plant setup involves various activities and processes to be followed, as well as the implementation of any change control measures in each of the project phases, so putting the plan in the process is a monumental task. The critical path appears for various sub-tasks because they must be finished by the end date or "early period of time" in order for the following activity to be implemented. One task cannot begin without the completion of the other. If a project's earlier phases are delayed owing to an issue or fault, the entire project is delayed. The resources should be spent wisely in order to meet the project's objectives. Because it can only flow in one direction.
Here is the view of the network diagram.

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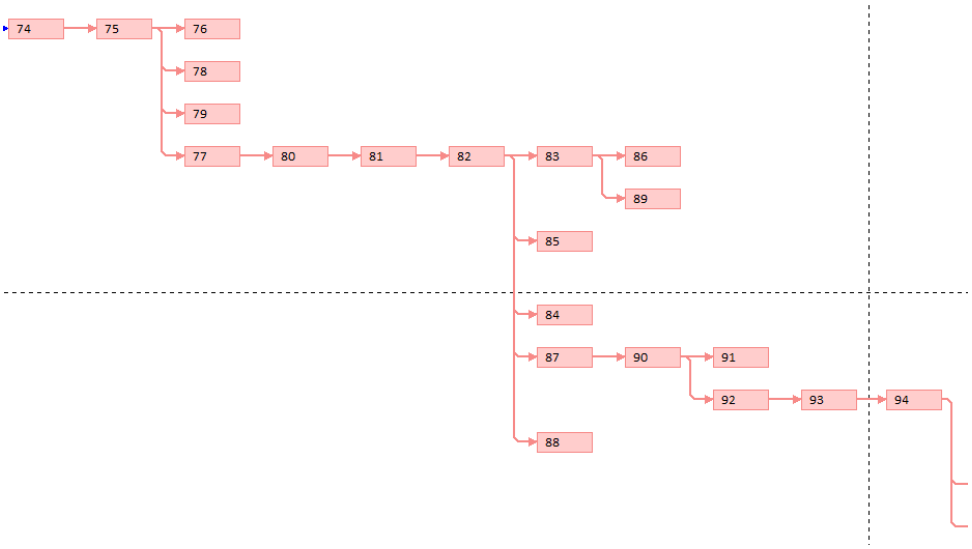
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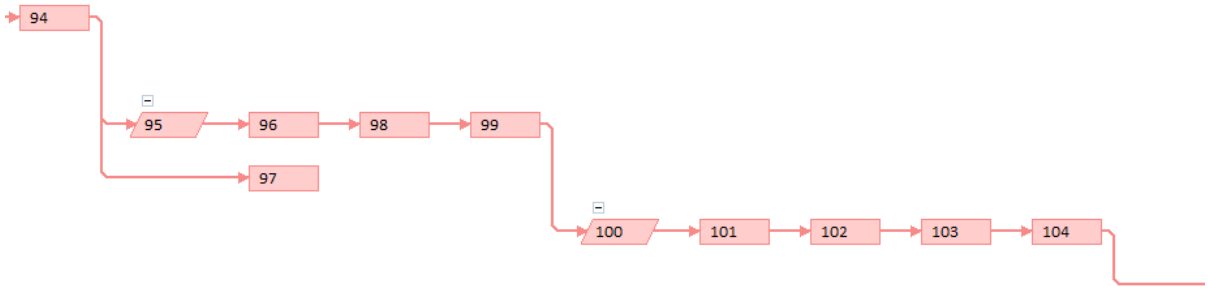
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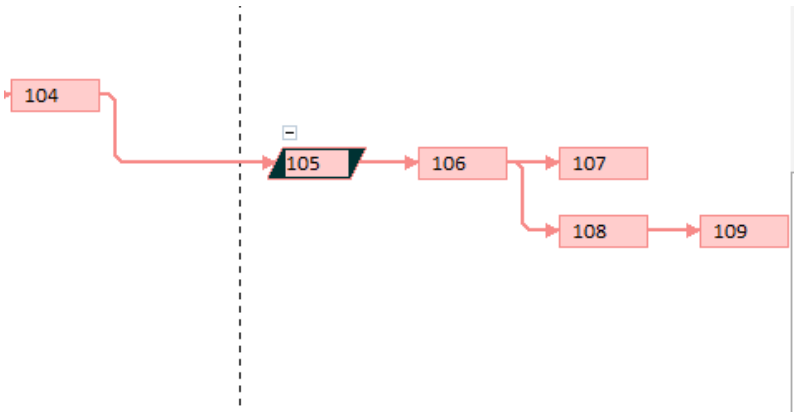
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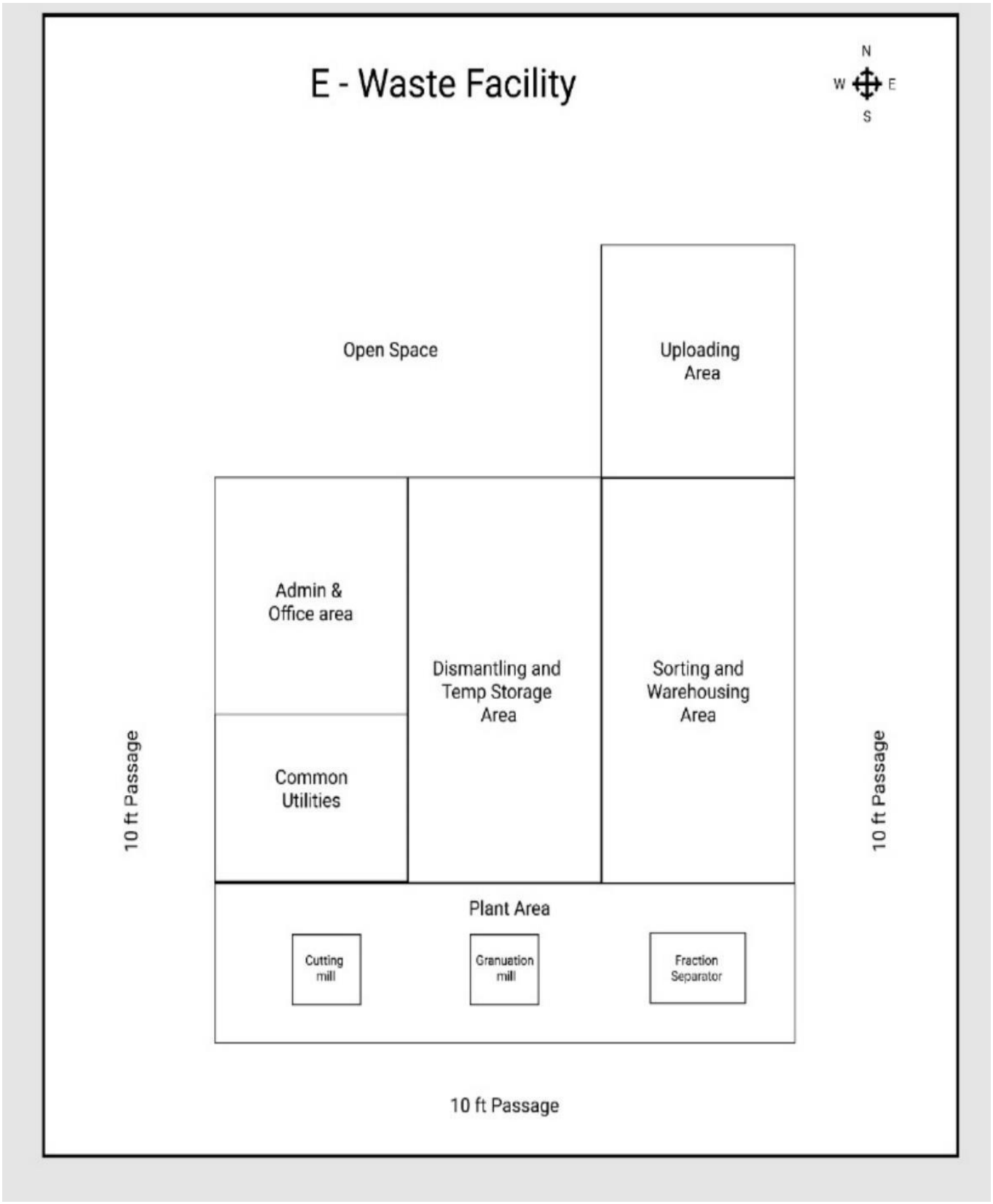
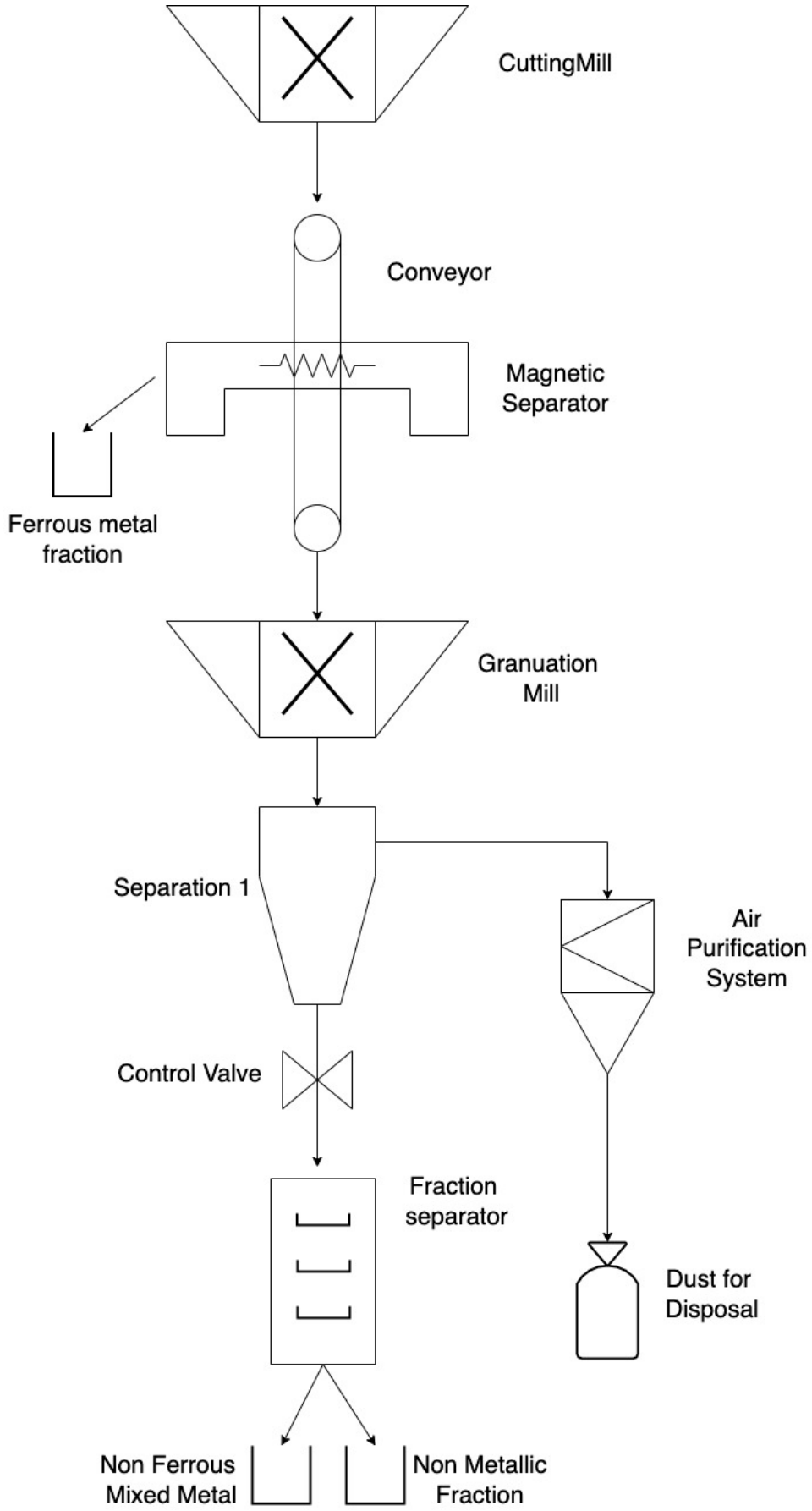
Project Floor Plan: -



Plant Area Plan: -



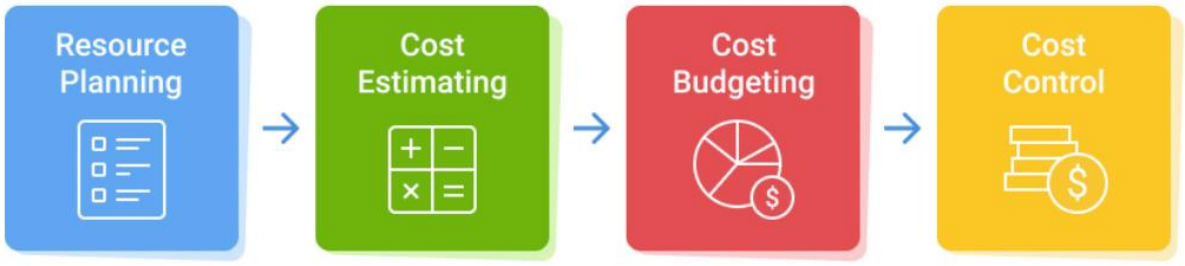
3.4 Schedule Control

Project control is a method of gathering and analysing project data in order to keep track of timelines and expenditures. Project initiation, planning, regulating, monitoring, and updating schedules are all part of this process. It provides further information about the project's status. It enhances the project's job performance. The project schedule is used to estimate the future significance and informs you what's effective for recovering multiple variations.

According to the task completion or delay, the project manager and other managers should update the schedule. To build the ultimate project plan, project managers use MS PROJECT. If a schedule change occurs, the entire project's schedule shifts, making it more difficult to complete the project on time. The project team should adjust the schedule if any tasks are done earlier than expected.

The project team is constantly updating the work sequence. The project manager must analyse the tasks in the schedule to the baseline. This contributes in the project's baseline management and maintenance. The project manager must evaluate, and weekly reviews are scheduled until the project's date of completion. The project manager must address any delays or changes (if any) with the Project Sponsors and any higher-ranking project officials, and can make changes based on resources and situations. As a consequence, the changes are discussed with all departments as the project nears completion.

4. Project Budget



4.1 Method of Cost estimation

The cost estimate is the process of calculating all of the expenses associated with executing a project within scope and on schedule in the discipline of project management.

Initial, high-level estimates are frequently utilised in the early phases of project planning and can influence whether a project is pursued or not. Once a project is accepted and an organisation decides to proceed, more thorough and granular cost estimates are required in order to distribute various resources correctly.

A comprehensive cost estimate should include both direct and indirect expenses connected with completing a project. Various overhead expenses (utilities, labour, etc.) and labour costs (both time and money) will likely be included, depending on the nature of the enterprise.

There are 3 methods of cost estimation

1) Analogous Estimating
2) Parametric Estimating
3) Bottom-Up Estimating

Out of the 3 methodologies we have chosen Bottom-Up Estimating for the better way for cost estimating.

Bottom-Up Estimating:

Bottom-up estimating divides a larger project into several smaller components. The project manager then breaks down the costs for each of these smaller work packages. If a project involves work that will be dispersed among many departments within a corporation, for example, expenses may be allotted by department. After all of the costs have been estimated, they are combined together to generate a single project cost estimate.

Bottom-up estimating allows a project manager to examine specific project tasks in more depth, resulting in more accurate estimation.

4.2. Budget Breakdown

The Cost Breakdown Structure (CBS) is a breakdown of the expenses of the various components of the Work Breakdown Structure (WBS), including any subcontractor work or services. It is used to compare actual expenses to the budget on a regular basis and to interact with the cost control system.

E-Waste Mangement	CONSTRUCTION BUDGET

PROJECT INFORMATION

Project Name	E-Waste Recyling Plant Setup
Project Description	Construction and setup for E-waste recycling plant area.
Contractor	Fox-Line Constructions
Licensed/Bonded Number	EWSTPROJ2022
Contact Name	David Jones
Phone	0897 345 127
Address	UWA Business School, 8716 Hackett Dr, Crawley WA 6009

FINANCIAL STATUS

Cash Amount	$15,000
Financed Amount	$85,000
Total Allotted Funds	$1,00,000
Funds Used To Date	$81,150
Funds Remaining	$18,850

LIST OF EXPENSES

PROJECT FUNDS ALLOTTED	FUNDS USED TO DATE	FUNDS REMAINING
$1,00,000.00	$81,150.00	$18,850.00

Item	Category	Amount
Cutting mill	Materials	$8,000.00
Granulation mill	Materials	$800.00
Vibratory feeder	Materials	$3,000.00
Air purification system	Materials	$2,500.00
Conveyer belt	Materials	$1,000.00
Magnetic separator	Materials	$3,500.00
Electrical control panel	Materials	$1,500.00
Desktops	Materials	$3,000.00
Air conditioners	Materials	$2,000.00
Televisions	Materials	$1,000.00
Security Cameras	Materials	$800.00
Other equipments	Materials	$800.00
Furnitures	Materials	$600.00
Fixtures	Materials	$500.00
Iron	Materials	$750.00
metal sheets	Materials	$800.00
bricks	Materials	$3,500.00
cement	Materials	$1,600.00
sand	Materials	$5,500.00
cement mixer	Materials	$4,000.00
Cranes	Materials	$6,000.00
dozer	Materials	$6,000.00
Roller	Materials	$4,000.00
Workers	Labours	$20,000.00
Total		$81,150.00

4.3. Cost control

The act of reviewing and managing project spending as well as planning for any financial hazards is known as cost control. The project manager is usually in charge of this. Budget management, as well as planning and risk mitigation, are all part of cost control. Risks can cause delays in projects and potentially result in unanticipated costs. Preparing for these setbacks might help your team save time and money.

Project cost controls are crucial because they may assist a project stay on budget, which is a critical component of a successful project. Cost controls allow the previous cost management measures to remain effective and precise throughout the project. When a firm consistently completes projects on time and on budget, it may increase profits, strengthen its brand and reputation for dependability, and budget more correctly for future projects.

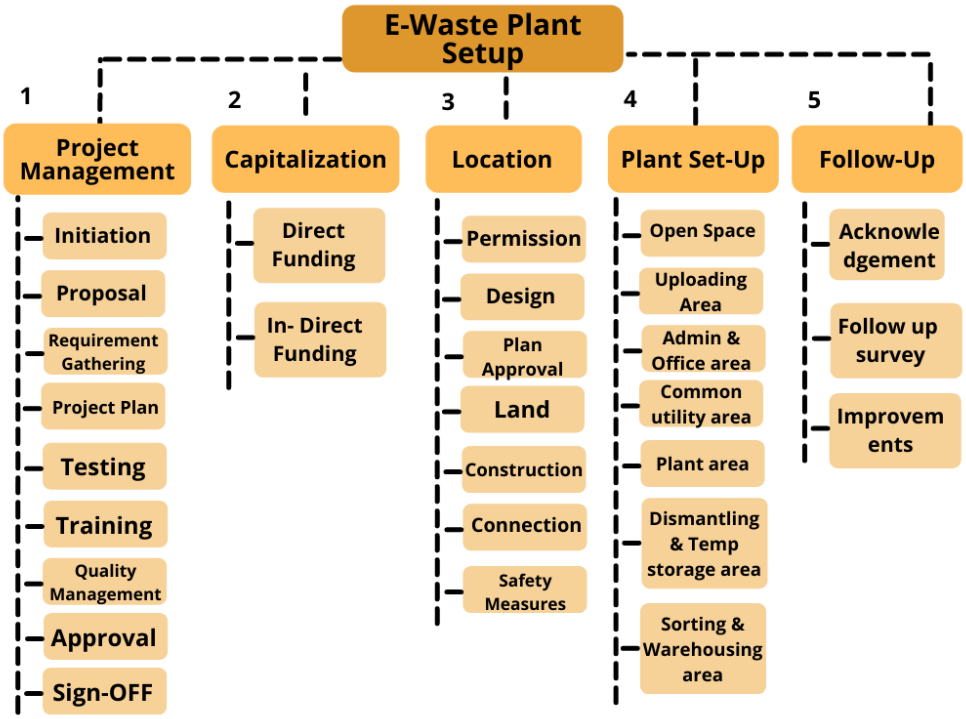
APPENDICES

Detailed Communication Matrix

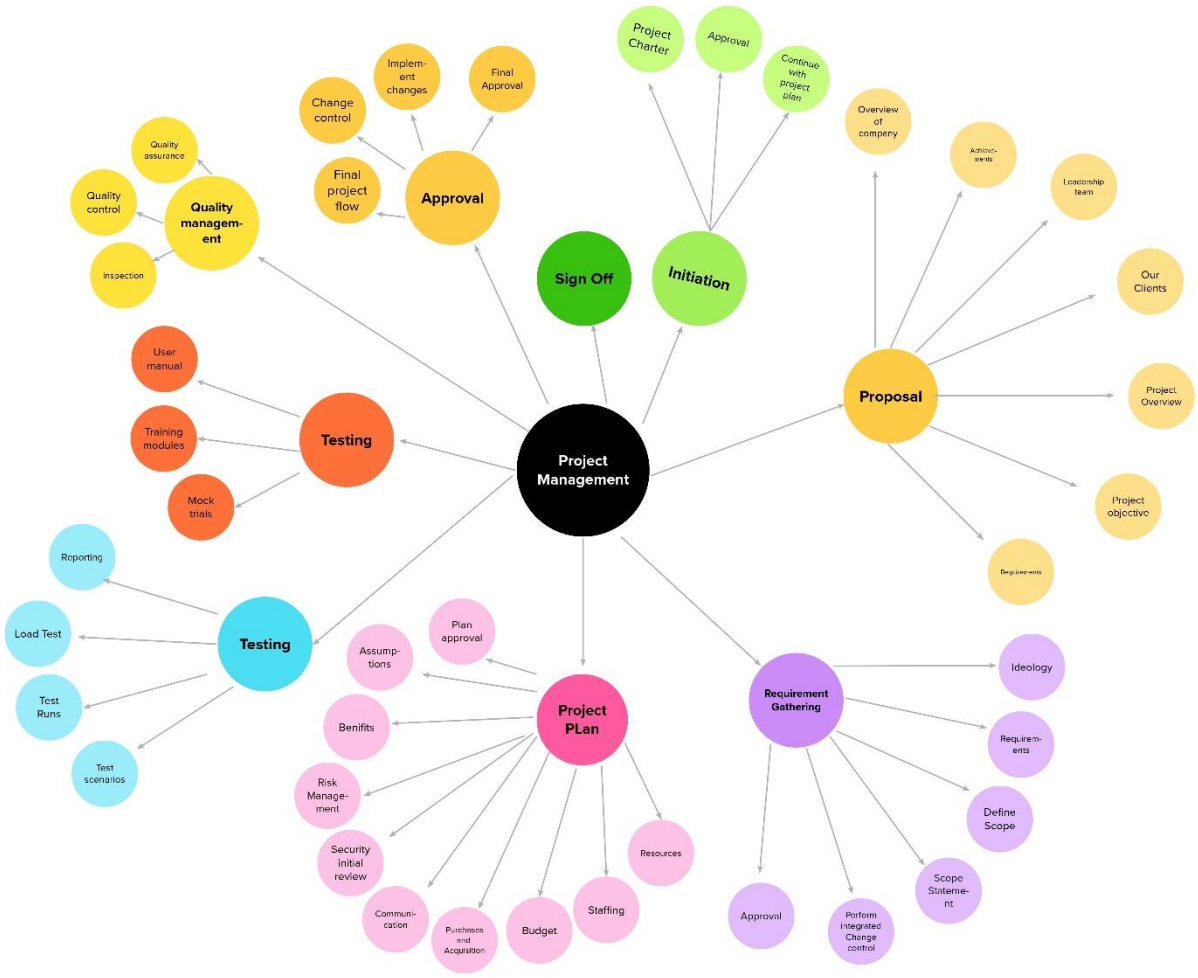
Communication type	Purpose	Medium of communication	Frequency	Audience
Kick-off meeting	Project introduction. Reviewing the objectives and goals.	In-person	Once	Project manager Team members Stakeholders
Team meetings	Reviewing and updating project's status	In-person/online meetings	Weekly	Project manager Project team
Stakeholders meeting	Deciding on sourcing and funding of the project. Development of project.	In-person/online meeting	Monthly	Project manager Stakeholders
Design and development meeting	Discussion, development and designing of the plant area.	In-person/online	Weekly	Project manager Architect Civil engineer Safety engineer
Construction meeting	Planning on the phases of construction. Assigning tasks. Reviews and updates.	In-person	Daily	Project manager Civil engineer Construction engineer Safety engineer Work force Supervisor
Technical meetings	Proper assembly of machineries and other equipment for the running of the plant.	In-person	Daily (on/after commencement of the phase)	Project manager System engineer Design engineer Technicians

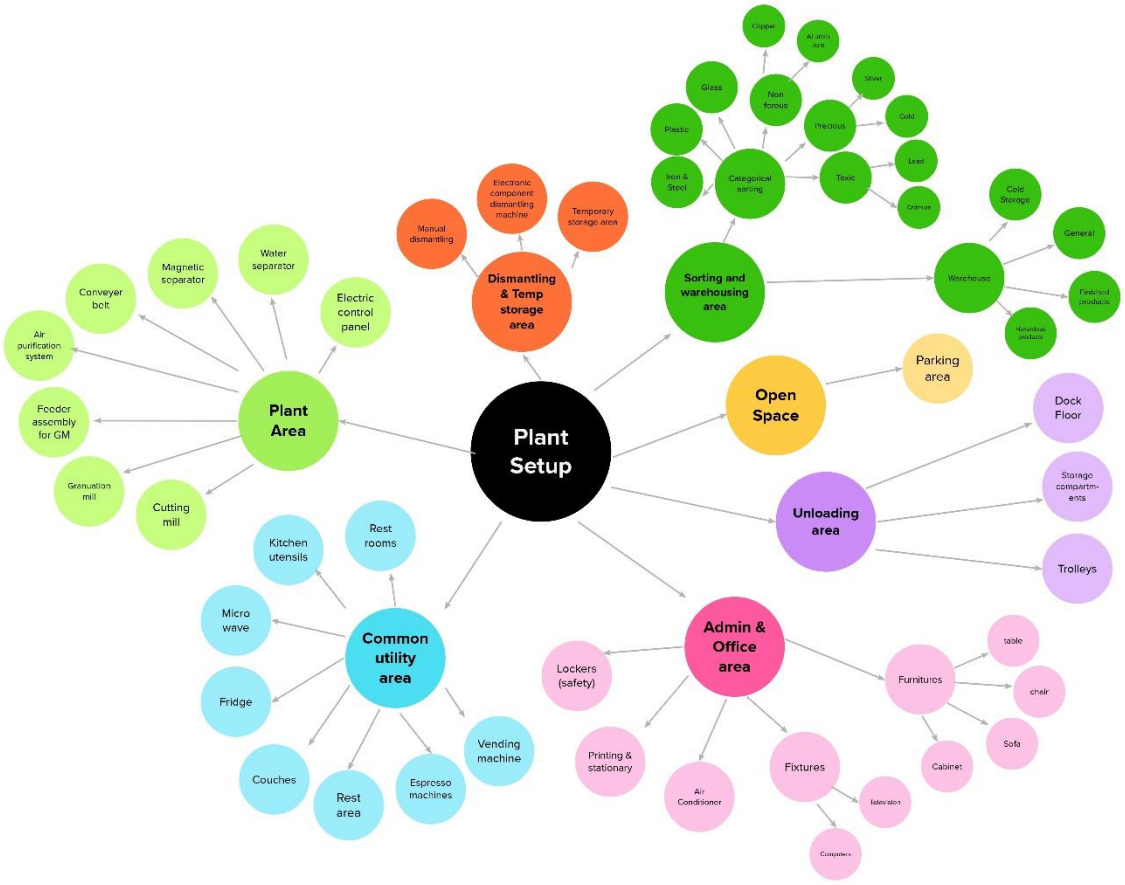
Test run discussion meetings	Create and execute test scenarios to identify and rectify any faults (if any) before putting the plant into operation.	In-person	Daily (on/after commencement of the phase)	Project manager QA Analyst Technicians
Monthly project status meetings	Discuss the project's monthly progress. Inform the project's leadership.	In-person/ Online/ Email	Monthly	Project manager Stakeholders
Project status report	A detailed report on the progress of the project, finances, and issues.	online/ email	Monthly	Project manager Stakeholders

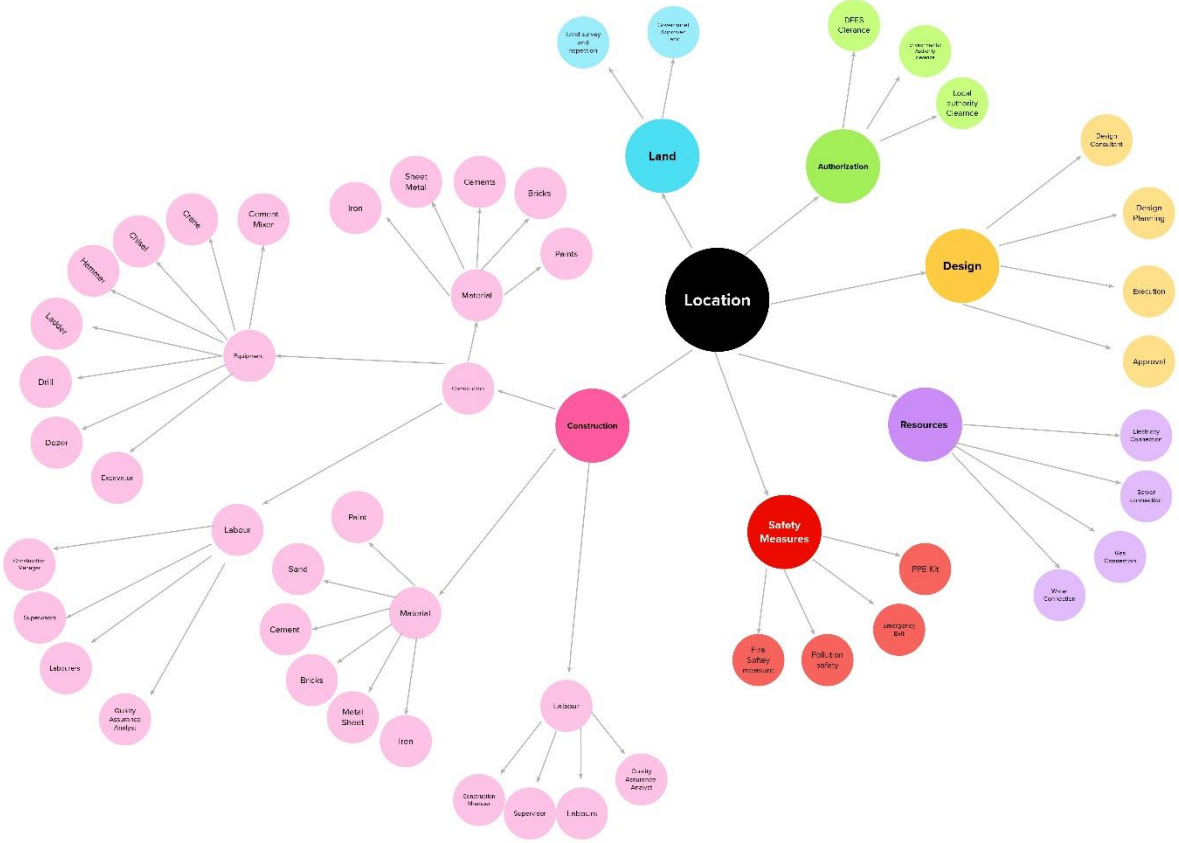
Detailed WBS



WBS MIND MAPPING METHOD




Plant Setup
Plant Area
Conveyer belt
Magnetic separator
Water separator
Electric control panel
Air purification system
Feeder assembly for GM
Granuation mill
Cutting mill
Dismantling & Temp storage area
Manual dismantling
Electronic component dismantling machine
Temporary storage area
Sorting and warehousing area
Categorical sorting
Glass
Non ferous
Plastic
Iron & Steel
Precious
Toxic
Copper
Silver
Gold
Lead
Cadmium
Warehouse
Cold Storage
General
Finished products
Open Space
Parking area
Unloading area
Dock Floor
Storage compartments
Trolleys
Common utility area
Kitchen utensils
Rest rooms
Micro wave
Fridge
Couches
Rest area
Espresso machines
Vending machine
Admin & Office area
Lockers (safety)
Printing & stationary
Air Conditioner
Furnitures
table
chair
Sofa
Cabinet
Fixtures
television
Computers


Location
Land
Land survey and inspection
Authorization
DPES Clearance
Local authority Clearance
Design
Design Consultant
Design Planning
Execution
Approval
Resources
Electricity Connection
Sewer connection
Gas Connection
Water Connection
Construction
Material
Iron
Sheet Metal
Cements
Bricks
Paints
Equipment
Crane
Cement Mixer
Chisel
Hammer
Ladder
Drill
Dozer
Excavator
Labour
Supervisors
Labourers
Safety Measures
PPE Kit
Fire Safety measures
Pollution safety
Material
Sand
Cement
Bricks
Metal Sheet
Iron
Paint
Labour
Supervisor
Labourers

Project Schedule

Project1	190 days	Wed 1/06/22	Tue 21/02/23
1. Project Management	**30 days**	**Wed 1/06/22**	**Tue 12/07/22**
Initiation	**5 days**	**Wed 1/06/22**	**Tue 7/06/22**
Project Charter	2 days	Wed 1/06/22	Thu 2/06/22
Approval	1 day	Fri 3/06/22	Fri 3/06/22
Continue with project proposal	2 days	Mon 6/06/22	Tue 7/06/22
Proposal	**4 days**	**Wed 8/06/22**	**Mon 13/06/22**
Project Overview	2 days	Wed 8/06/22	Thu 9/06/22
Project Objective	2 days	Wed 8/06/22	Thu 9/06/22
Proceed with requirement gathering	1 day	Fri 10/06/22	Fri 10/06/22
Requirement Gathering	**7 days**	**Tue 14/06/22**	**Wed 22/06/22**
Scope Statement	1 day	Tue 14/06/22	Tue 14/06/22
Define Scope	2 days	Tue 14/06/22	Wed 15/06/22
Requirements	2 days	Thu 16/06/22	Fri 17/06/22
Ideology	1 day	Mon 20/06/22	Mon 20/06/22
Perform integrated change control (if any)	1 day	Mon 20/06/22	Mon 20/06/22
Requirement document approved	1 day	Tue 21/06/22	Tue 21/06/22
Continue with Project plan	1 day	Wed 22/06/22	Wed 22/06/22
Project Plan	**8 days**	**Thu 23/06/22**	**Mon 4/07/22**
Assumptions	1 day	Thu 23/06/22	Thu 23/06/22
Risk Management	2 days	Fri 24/06/22	Mon 27/06/22
Security Initial review	1 day	Fri 24/06/22	Fri 24/06/22
Plan approval	2 days	Mon 27/06/22	Tue 28/06/22
Communication	2 days	Wed 29/06/22	Thu 30/06/22
Purchases and acquisition	2 days	Wed 29/06/22	Thu 30/06/22
Budget	2 days	Wed 29/06/22	Thu 30/06/22
Staffing	2 days	Fri 1/07/22	Mon 4/07/22
Resources	2 days	Fri 1/07/22	Mon 4/07/22
Quality Management	**5 days**	**Tue 5/07/22**	**Mon 11/07/22**
Quality assurance	1 day	Tue 5/07/22	Tue 5/07/22
Quality Control	2 days	Wed 6/07/22	Thu 7/07/22
Inspection	2 days	Fri 8/07/22	Mon 11/07/22
Approval	**2 days**	**Mon 11/07/22**	**Tue 12/07/22**
Final project flow	1 day	Mon 11/07/22	Mon 11/07/22
Change Control	1 day	Tue 12/07/22	Tue 12/07/22
Implement Changes	1 day	Tue 12/07/22	Tue 12/07/22
Final Approval	1 day	Tue 12/07/22	Tue 12/07/22
Capitalization	**10 days**	**Wed 13/07/22**	**Tue 26/07/22**
Direct Funding	**4 days**	**Wed 13/07/22**	**Mon 18/07/22**
Partnership funds	3 days	Wed 13/07/22	Fri 15/07/22
Revenue funds	2 days	Wed 13/07/22	Thu 14/07/22
Re innovating funds	2 days	Wed 13/07/22	Thu 14/07/22
Stock market funds	4 days	Wed 13/07/22	Mon 18/07/22
In- Direct Funding	**6 days**	**Wed 13/07/22**	**Wed 20/07/22**
Sponsors	3 days	Wed 13/07/22	Fri 15/07/22
Angel Investors	4 days	Wed 13/07/22	Mon 18/07/22
Venture capitalists	5 days	Wed 13/07/22	Tue 19/07/22
Institutional funds	4 days	Wed 13/07/22	Mon 18/07/22
Location	**25 days**	**Thu 28/07/22**	**Wed 31/08/22**
Permission	**5 days**	**Thu 28/07/22**	**Wed 3/08/22**
Local authority clearance	4 days	Thu 28/07/22	Tue 2/08/22
Environment authority clearance	3 days	Thu 28/07/22	Mon 1/08/22
Design	**15 days**	**Thu 4/08/22**	**Wed 24/08/22**
Design Consultant	4 days	Thu 4/08/22	Tue 9/08/22
Design Planning	8 days	Wed 10/08/22	Fri 19/08/22
Execution	2 days	Mon 22/08/22	Tue 23/08/22
Approval	1 day	Wed 24/08/22	Wed 24/08/22
Land	**8 days**	**Thu 4/08/22**	**Mon 15/08/22**
Govt Approved land	2 days	Thu 4/08/22	Fri 5/08/22

Area of extent	3 days	Mon 8/08/22	Wed 10/08/22
Terrain of the land	4 days	Mon 8/08/22	Thu 11/08/22
Land Survey and inspection	2 days	Fri 12/08/22	Mon 15/08/22
Other considerations	**8 days**	**Tue 16/08/22**	**Thu 25/08/22**
Soil quality testing	6 days	Tue 16/08/22	Tue 23/08/22
Pollution safety measures	4 days	Tue 16/08/22	Fri 19/08/22
Zoning	2 days	Tue 16/08/22	Wed 17/08/22
Accessibility	3 days	Tue 16/08/22	Thu 18/08/22
Utility services	**5 days**	**Wed 24/08/22**	**Tue 30/08/22**
Electricity connection	3 days	Wed 24/08/22	Fri 26/08/22
Water connection	2 days	Mon 29/08/22	Tue 30/08/22
Gas connection	2 days	Mon 29/08/22	Tue 30/08/22
Drainage	2 days	Mon 29/08/22	Tue 30/08/22
Plant Set-Up	**100 days**	**Thu 1/09/22**	**Wed 18/01/23**
Gathering machinery	22 days	Thu 1/09/22	Fri 30/09/22
Assign the Construction manager	3 days	Mon 3/10/22	Wed 5/10/22
Assign the construction supervisor	4 days	Thu 6/10/22	Tue 11/10/22
Assign Labourers	10 days	Thu 6/10/22	Wed 19/10/22
Gathering Materials (Iron rods, Metal sheets, bricks, cement, sand)	20 days	Thu 6/10/22	Wed 2/11/22
Gathering Equipment (cement mixer, crane, dozers, other transports .)	12 days	Thu 6/10/22	Fri 21/10/22
Lay down the foundations	10 days	Thu 20/10/22	Wed 2/11/22
Construct support pillars	7 days	Thu 3/11/22	Fri 11/11/22
Assemble sheet metals	8 days	Mon 14/11/22	Wed 23/11/22
Flooring	10 days	Thu 24/11/22	Wed 7/12/22
Painting	5 days	Thu 24/11/22	Wed 30/11/22
Wiring	8 days	Thu 24/11/22	Mon 5/12/22
Open Space area set-up (Parking, Adock floor)	4 days	Thu 8/12/22	Tue 13/12/22
Warehouse area setup (godowns, warehouse)	3 days	Thu 24/11/22	Mon 28/11/22
Admin & office Area setup (Furniture, fixtures)	7 days	Thu 24/11/22	Fri 2/12/22
Common utility area setup (Vending machines, Kitchen appliances, Sanitary appliances)	10 days	Thu 8/12/22	Wed 21/12/22
Assemble the machineries used for the recycling procedure	10 days	Tue 29/11/22	Mon 12/12/22
Control room setup (systems, cameras, internet, servers, others)	4 days	Tue 13/12/22	Fri 16/12/22
Dismantle and Temp storage area setup	8 days	Tue 13/12/22	Thu 22/12/22
Sorting and Finished products warehouse (categorical sorting, non-ferrous, precious, toxic, cold storage, general, finished products and hazardous)	16 days	Fri 23/12/22	Fri 13/01/23
Plant ready for test run	3 days	Mon 16/01/23	Wed 18/01/23
Testing	**10 days**	**Thu 19/01/23**	**Wed 1/02/23**
Reporting	2 days	Thu 19/01/23	Fri 20/01/23
Test Scenarios	3 days	Thu 19/01/23	Mon 23/01/23
Test Runs	5 days	Mon 23/01/23	Fri 27/01/23
Load Test	3 days	Mon 30/01/23	Wed 1/02/23
Training	**7 days**	**Thu 2/02/23**	**Fri 10/02/23**
User Manual	1 day	Thu 2/02/23	Thu 2/02/23
Training modules	3 days	Fri 3/02/23	Tue 7/02/23
Mock Trials	2 days	Wed 8/02/23	Thu 9/02/23
Plant ready to use	1 day	Fri 10/02/23	Fri 10/02/23
Follow up	**7 days**	**Mon 13/02/23**	**Tue 21/02/23**
Follow up survey	3 days	Mon 13/02/23	Wed 15/02/23
Maintenance and support	2 days	Thu 16/02/23	Fri 17/02/23
Improvements	2 days	Thu 16/02/23	Fri 17/02/23
Acknowledgement	2 days	Mon 20/02/23	Tue 21/02/23

Detailed Budget baseline

E-Waste Mangement	CONSTRUCTION BUDGET

PROJECT INFORMATION

Project Name	E-Waste Recyling Plant Setup
Project Description	Construction and setup for E-waste recycling plant area.
Contractor	Fox-Line Constructions
Licensed/Bonded Number	EWSTPROJ2022
Contact Name	David Jones
Phone	0897 345 127
Address	UWA Business School, 8716 Hackett Dr, Crawley WA 6009

FINANCIAL STATUS

Cash Amount	$15,000
Financed Amount	$85,000
Total Allotted Funds	**$1,00,000**
Funds Used To Date	**$81,150**
Funds Remaining	**$18,850**

Detailed Risk Register

Risk Description	Impact Description	Impact level (1-5)	Probability Level (1-5)	Priority level (impact x of probability)	Owner
Inconsistent performance	Less communication between the project groups	5	2	10	Project manager
The customer puts forward te change requirements	Less communication between the project manager and stakeholders/clients	4	1	4	Project manager
Machinery and equipment fail during operation	Unstable connection	5	2	10	System engineer, Design engineer and technicians
There are hidden dangers of ıgd intrusion	Unstable security in the plant and technical systems	4	1	4	Project manager
The investor withdraws	Less communication on and cost over budget	3	2	7	Project manager
Employees lack skills	Less communication between managers and work force	2	1	7	Project manager