Alpha
Consulting Engineers Pte Ltd

PROJECT QUALITY PLAN

HDB AT JURONG WEST N4 C22

For

HOUSING & DEVELOPMENT BOARD

Copy No.	1

Prepared By: Yip Yoke Fun

Authorised By: Loh Fook Yuen

Date: 6 May 2026

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SECTION 1

QUALITY PLAN CONTROL AND DISTRIBUTION

1.1 List of Copy Holders

Copy No.	Copy Holder	Date of Issue
1	6321	6 May 2026

1.2 Revision Record

Revision	Date of Issue	Section Reference	Page(s)	Remarks
0	21 February 2023	1 to 11	29	+ 1 page (Section 9.1 – Sustainable Design Features / Criteria)
1	9 September 2024	1 to 11	29	+ 1 page (Section 4.1 – Overall Programme) + 1 page (Section 9.1 – Sustainable Design Features / Criteria)
2	5 June 2025	1 to 11	29	+ 1 page (Section 4.1 – Overall Programme) + 1 page (Section 9.1 – Sustainable Design Features / Criteria)
3	6 May 2026	1 to 11	30	+ 9 pages (Section 4.1 – Overall Programme) + 1 page (Section 9.1 – Sustainable Design Features / Criteria)

SECTION 2

PROJECT INFORMATION

2.1 Project Description

Type of Development	Residential

Statistics of Development	
Site Area, m²	28,911
Nett Floor Area, m²	–
Gross Floor Area, m²	87,694.32
Covered Carpark, m²	1,122.96
No. of Covered Carpark Lots	122
No. of Apartments/Houses	716
No. of Beds (for Hospitals)	–
No. of Guestroom (for Hotels)	–
No. of Blocks / No. of Storeys	6 blocks of 17-storey residential flats & 1 block of 6/6 storey car park with commercial facilities, ESS & MSCP Roof Garden
Green Mark Category	Gold Plus
No. of Phases	18

2.2 Project Cost

M&E Services Cost Plan (S$ x 1M)										
Services	EI	ACVI	LEI	FFAI	PSI	SPFI				
Estimate						-				
Awarded	7.5956	0.2106	-	0.6485	4.6965	-				

Total Project Construction Cost (S$ x1M)			
	Site Clearance	Piling Works	Main Contract
Estimate	–	–	–
Awarded	–	–	$194.788

Site Clearance shall include earth work, soil improvement, service diversion and termination.

2.3 Scope of Works

2.3.1 Scope of Consultancy Services

Conceptual/Schematic Design	✓
Detailed Design	✓
Tender Documentation	-
Tender Evaluation	-
Contract Supervision	✓
M&E Costing	✓
Submissions to Authority	✓

(✓ where applicable)

2.3.2 Scope of M&E Services

ELECTRICAL	✓	AIR CONDITIONING		SPRINKLER		SANITARY	✓	SWIMMING POOL	
LIFT	✓	MECHANICAL VENTILATION	✓	FIRE ALARM	✓	COLD WATER	✓	STEAM BOILER	
ESCALATOR		MECHANICAL SMOKE EXTRACT		HOSEREEL	✓	HOT WATER	✓	FUEL STORAGE	
PABX		COMPUTER A/C		WET RISER		TOWN GAS	✓		
SECURITY		BST CARPARK EXH		DRY RISER	✓	LPG GAS			
TELELIFT		HEATING				MEDICAL GAS			
DATA COMM.									
FLUSHFLOOR TRUNKING									

(✓*where applicable*)

2.3.3 Submission to Relevant Authorities by Others

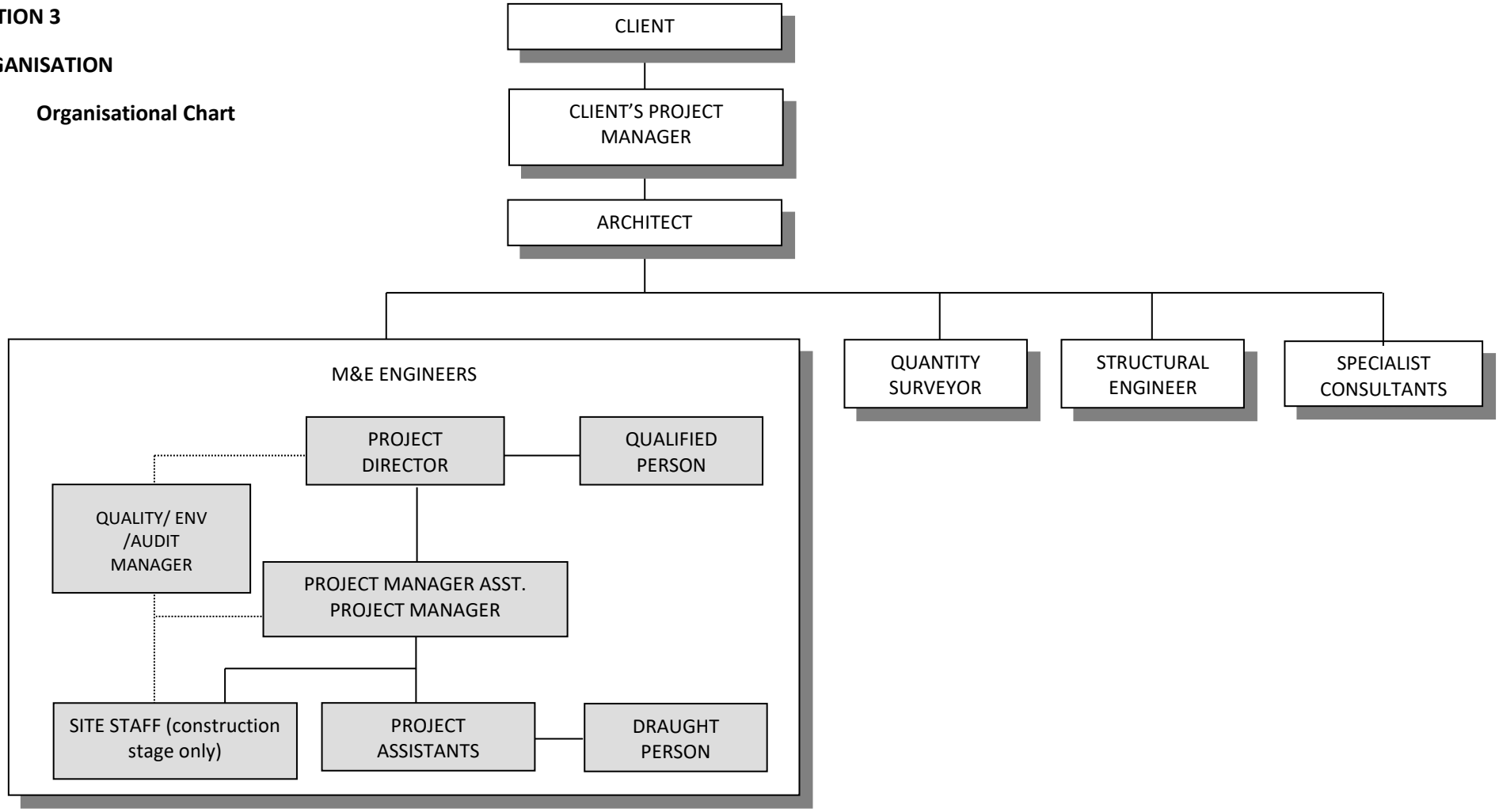
EJECTOR & DIVERTER		SUMP PUMP		FUEL OIL TANK		LIFT & ESCALATOR		PRESSURE VESSEL		HOISTS		FOAM	

(✓ where applicable)

SECTION 3

ORGANISATION

3.1 Organisational Chart



SECTION 3

ORGANISATION

3.2 ACEPL's Project Team Member

TITLE		NAME
Project Director		Loh Fook Yuen (LFY)
Qualified Person	Mechanical	Choong Choon Guan (CCG)
	Electrical	Loh Fook Yuen (LFY)
Project Manager		Yip Yoke Fun (YYF)
Assistant Project Manager		–
Project Assistant (Mech)		–
Project Assistant (Elect)		Lim Sheng, Benedict (LSH)
Draughtsperson		Common Pool
Resident Engineer (M&E)		–
Assistant Resident Engineer (M&E)		–
Clerk-of-Work (M&E)		–

3.3 Client/Client's Representatives

Client: Housing & Development Board

Address: HDB Hub
480 Lorong 6 Toa Payoh
Singapore 310480

Tel: 6490 2108

Fax: 6397 2457

Client's Representatives:

Name of Company	Contact Person	Contact
Housing & Development Board	Name: Mr Elvin Tan Position: Project Director	Tel: 6490 3263 Fax: – Handphone: 9711 0840 Email: elvin_mk_tan@hdb.gov.sg
Housing & Development Board	Name: Ms Mandy Ong Yee Min Position: Senior Contracts Manager	Tel: 6490 2049 Fax: – Handphone: – Email: mandy_ym_ong@hdb.gov.sg
Housing & Development Board	Name: Ms Ang Shifang Position: Senior Architect	Tel: – Fax: – Handphone: 9737 0152 Email: ang_shifang@hdb.gov.sg
	Name: Position:	Tel: Fax: Handphone: Email:
	Name: Position:	Tel: Fax: Handphone: Email:

3.4 **Other Consultants** (Local)

Function / Name of Company	Contact Person	Contact
Architect DP Architects Pte Ltd	Name: Mr Daniel Po Position: Associate Director	Tel: 6828 7870 Fax: 6337 9989 Handphone: 9029 0910 Email: hdb-jrg-w-n4c22@dpa.com.sg
Quantity Surveyor Northcroft Lim Consultants Pte Ltd	Name: Mr Sunny Tan Position: Director	Tel: 6220 7188 Fax: 6220 0868 Handphone: 9674 1858 Email: 2248jw@northcroft.sg
Structural Engineer E2000 Pte Ltd	Name: Mr Ngui Chee Yau Position: Associate Director	Tel: 6221 0388 Fax: 6221 2600 Handphone: 8298 5730 Email: e2000@e2000.com.sg
Interior Designer NA	Name: Position:	Tel: Fax: Handphone: Email:
Lighting Consultant NA	Name: Position:	Tel: Fax: Handphone: Email:
Acoustic Consultant Affinity Engineering Consultancy Pte Ltd	Name: Mr Vincent Hii Position: Director	Tel: 6316 4432 Fax: 6567 8015 Handphone: 9006 8652 Email: vincent.hii@affinityec.com
Landscape Consultant DP Green Pte Ltd	Name: Mr Tay Kwang Liang Position: Associate Director	Tel: 6829 3420 Fax: 6337 9989 Handphone: 8268 5309 Email: taykwangliang@dpg.com.sg
Project Consultant AIS-Hill Pte Ltd	Name: Mr Kalidasan Shanmugam Position: Senior Director	Tel: 6222 3888 Fax: – Handphone: 8499 3314 Email: kalidasan.shanmugam@ais-hill.com

3.4 Other Consultants (Overseas) – **NOT APPLICABLE**

Function / Name of Company	Contact Person	Contact
Architect	Name: Position:	Tel: Fax: Handphone: Email:
M&E Consultant	Name: Position:	Tel: Fax: Handphone: Email:
Quantity Surveyor	Name: Position:	Tel: Fax: Handphone: Email:
Structural Engineer	Name: Position:	Tel: Fax: Handphone: Email:
Interior Designer	Name: Position:	Tel: Fax: Handphone: Email:
Lighting Consultant	Name: Position:	Tel: Fax: Handphone: Email:
Acoustic Consultant	Name: Position:	Tel: Fax: Handphone: Email:
	Name: Position:	Tel: Fax: Handphone: Email:

3.5 Contractors/Sub-Contractors

Function / Name of Company	Contract *	Contact Person	Contact
Main Contractor Teambuild Engineering & Construction Pte Ltd		Name: Mr Woo Kai Dick Position: Project Manager	Tel: 6586 7077 Fax: 6362 5055 Handphone: 8133 7935 Email: kdwoo@teambuild.com.sg
Air Conditioning & Ventilation Installation Sub-Contractor Aston Air Control Pte Ltd		Name: Mr Patrick Chan Position: Senior Project Manager	Tel: 6298 0682 Fax: – Handphone: 9764 1193 Email: patrickchan@astonair.com
Plumbing, Sanitary, Gas, Dry Rising & Hosereel Installation Sub-Contractor Kim Chuan Gas, Sanitary & Construction Pte Ltd	DC	Name: Mr Ong Kok Kim Position: Director	Tel: 6785 7739 Fax: 6785 2689 Handphone: – Email: kcgspl@singnet.com.sg
Electrical Installation & Automatic Fire Alarm Installation Sub-Contractor United Engineering Pte Ltd	DC	Name: Mr Zheng Xin Lin Position: Director	Tel: 6659 5055 Fax: 6659 9587 Handphone: 9838 5341 Email: zheng4040@uepl.com.sg
Lift & Escalator Installation Sub-Contractor Hitachi Elevator Asia Pte Ltd	DC	Name: Mr Isaac Ong Position: Engineer	Tel: 6416 1833 Fax: – Handphone: 8233 8058 Email: isaacong.ys.hq@hitachi.com
Fire Fighting & Alarm Installation Sub-Contractor		Name: Position:	Tel: Fax: Handphone: Email:
Swimming Pool Filtration Plant Installation Sub-Contractor		Name: Position:	Tel: Fax: Handphone: Email:
Carpark System Installation Sub-Contractor		Name: Position:	Tel: Fax: Handphone: Email:
Cable Detection Sub-Contractor Cables & Utilities Detection Services Pte Ltd	DC	Name: Johan Position: Operation Director	Tel: 6269 2005 Fax: 6269 1955 Handphone: 9435 3456 Email: johan@cabledetection.com.sg

** Type of Contract*
- *NSC (Nominated Sub-Contract)*
- *DSC (Domesticated Sub-Contract)*
- *DC (Direct Contract)*
- *NS (Nominated Supplier)*

3.6 Authorities

Authorities/Department	Contact Person	Tel/Fax Nos./E-mail
SP PowerGrid: (a) Sub-Station	Mr Goh Liqing (West)	liqing@spgroup.com.sg
(b) Diversion	–	–
SP Services: (a) Customer Supply	–	6916 7200 / install@spgroup.com.sg
(b) Installation	–	6916 7200 / install@spgroup.com.sg
(c) Meter Section	–	6916 8555
(d) Road Lighting	–	–
TFCC: (a) SCV	–	–
(b) SingTel	Ganesan S/O Salvakumar	8869 9532/ gansalva@singtel.com
(c) IDA	Mr Jimmy Tan	6377 3800/ jimmy_tan@imda.gov.sg
BCA: (a) Building Plan		
(b) Green Mark		
FSSD: (a) Building Plan		
(b) M&E Plan		
PUB (Water Supply) Network Dept: (a) Water Conservation		
(b) Plumbing Plan	M/s Sim Lye Huat/Pavithra Krishnan	9848 9181/6731 3722
(c) Diversion	Mr Poon Yee Sheng	9835 3138
(d) NEWater		
PUB Water Reclamation (Network) Dept: (a) Building Plan/CBPU		
(b) M&E Plan	Mr Muhd Aniq Aqil Bin A Rashid	9877 4591
(c) Diversion		
City Gas Pte Ltd: (a) Planning/Submission	M/s Jackson Houng/Ahmad Shahid	9694 9383 / 8866 4623
(b) Installation/Inspection		
PowerGas Pte Ltd (a) Diversion		
NEA (Pollution Control) (a) Planning/Submission		
(b) Inspection		

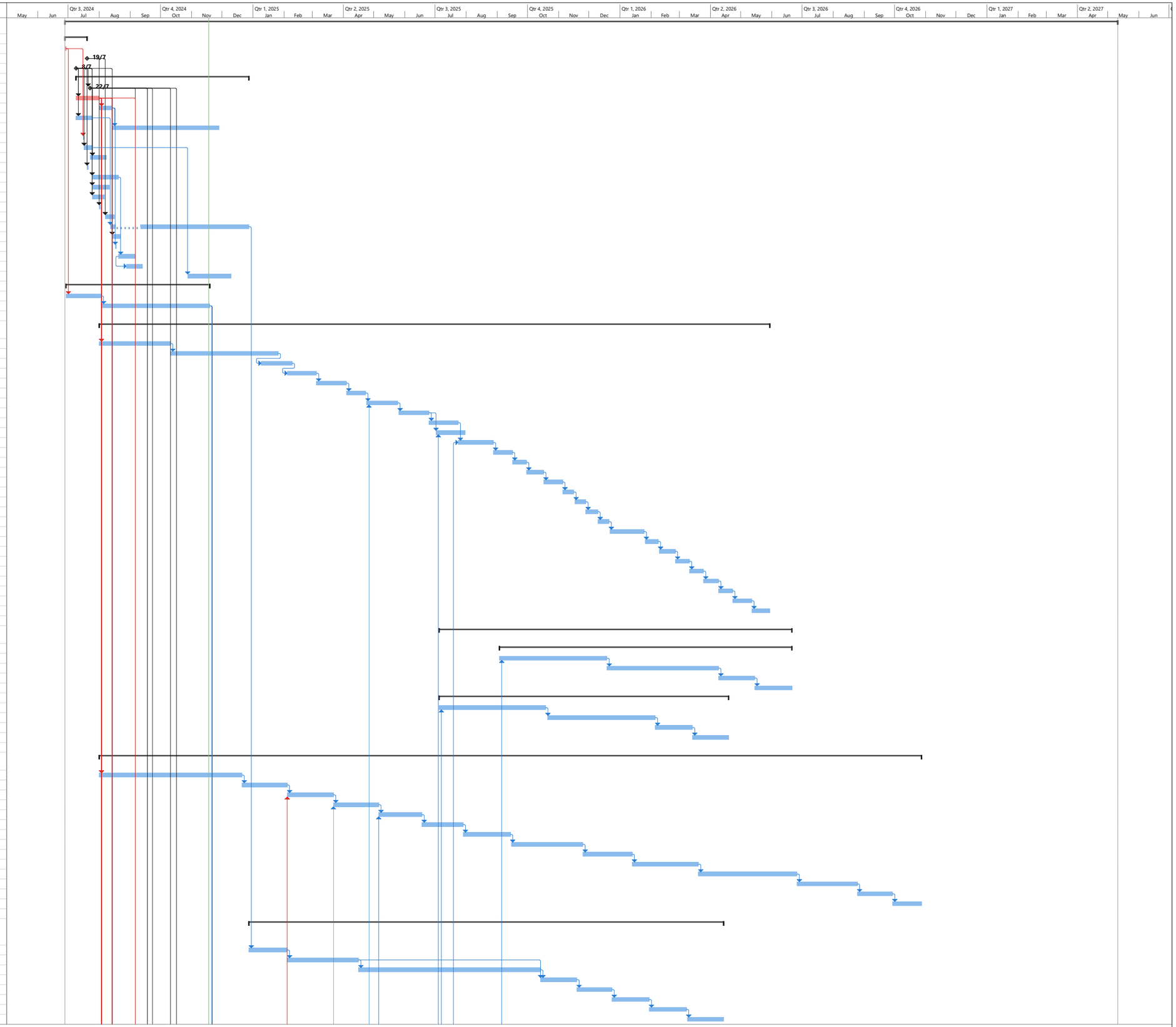
SECTION 4

PROGRAMME

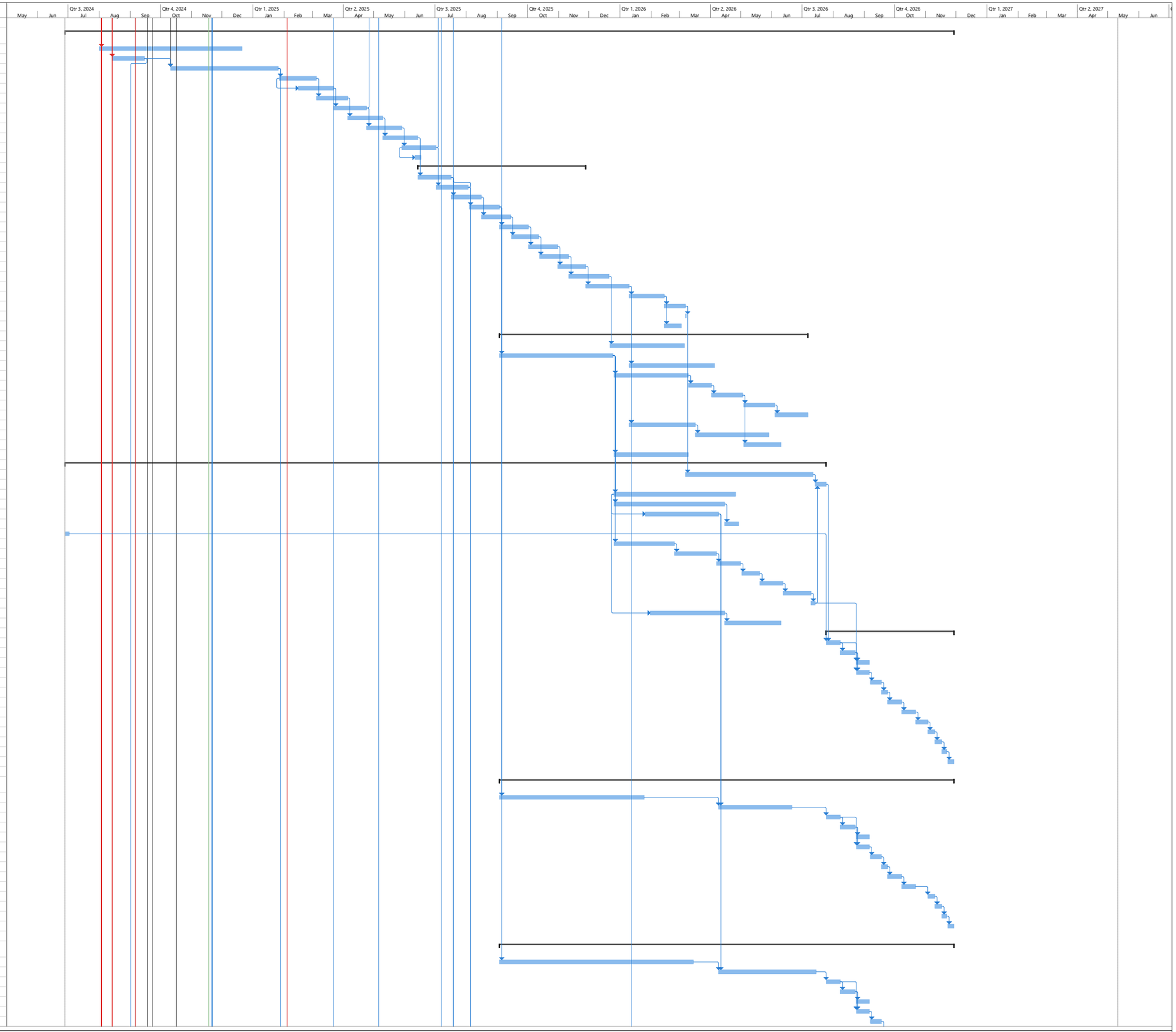
4.1 Overall Programme (Refer to attached Master Programme)

ID	TASK NAME	MONTHS	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
1.	Preliminary Planning																									
2.	Planning Submission																									
3.	Detail Design																									
4.	BP Submission																									
5.	BP Submission (Amendments)																									
6.	Tender Period for Piling																									
7.	Tender Period for Sub-Structure																									
8.	Tender Period for Super-Structure																									
9.	Piling Period																									
10.	Sub-Structure Construction Period																									
11.	Super-Structure Construction Period																									
12.	TOP																									
13.	CSC																									

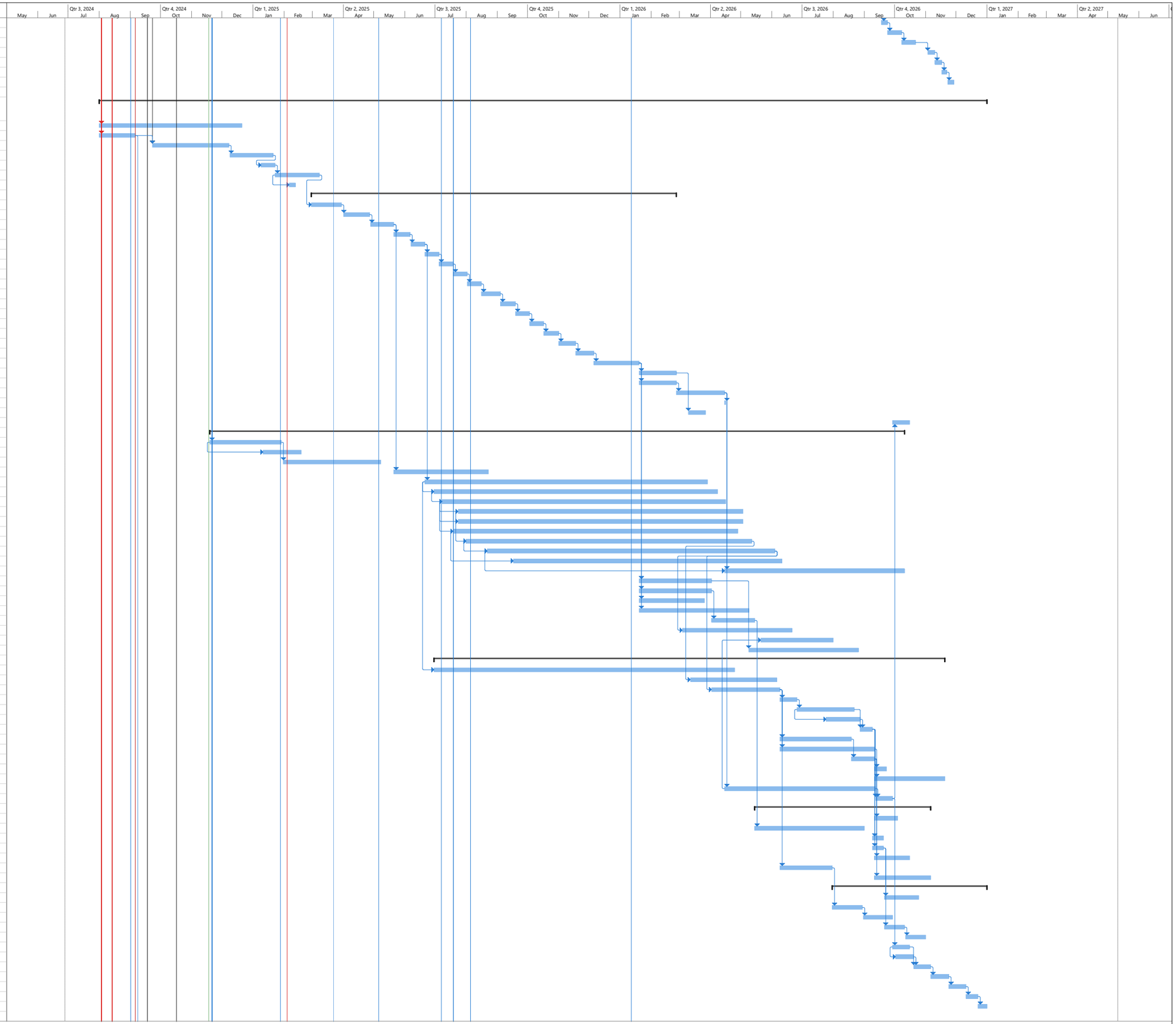
ID	Task Mode	Task Name	Duration	Start	Finish
1		**MASTER PROGRAMME - JURONG WEST N4C22 (28-Jun-2024 to 18-May-2027)**	**870d**	**28/6/2024**	**10/5/2027**
2		**PROJECT KEY PLAN**	**19d**	**28/6/2024**	**19/7/2024**
3		Letter of Acceptance	1d	28/6/2024	28/6/2024
4		Contract Commencement	1d	19/7/2024	19/7/2024
5		Site Possession	1d	8/7/2024	8/7/2024
6		**PREMILINARY WORKS**	**145d**	**9/7/2024**	**27/12/2024**
7		Obtain Authorities Permit to Commence work	12d	9/7/2024	22/7/2024
8		Insurance Bond Cover	20d	9/7/2024	31/7/2024
9		Site Mobilisation	10d	1/8/2024	13/8/2024
10		Temp Hoarding & Site Gate	14d	9/7/2024	24/7/2024
11		ECM work	90d	14/8/2024	27/11/2024
12		Submission of Preconditioning Photography Survey	1d	16/7/2024	16/7/2024
13		Temporary Site Office	7d	17/7/2024	24/7/2024
14		BCA Project Sign board	14d	23/7/2024	7/8/2024
15		Underground Service Detection	1d	20/7/2024	20/7/2024
16		LTA Road Opening Application	21d	25/7/2024	19/8/2024
17		Trees Removal	14d	25/7/2024	10/8/2024
18		Ambient noise Submission & Noise Meter Monitoring	10d	25/7/2024	5/8/2024
19		Boundary Setup / Precommpution Plan	1d	1/8/2024	1/8/2024
20		Issuance of Construction Drawings	7d	7/8/2024	15/8/2024
21		12m Noise Barrier Hoarding Erection	96d	12/8/2024	27/12/2024
22		Instrumentation Installation	7d	14/8/2024	21/8/2024
23		Registered Land Surveyor	1d	17/8/2024	17/8/2024
24		Site Entrance	15d	20/8/2024	5/9/2024
25		Vehicular Washing Bay	14d	28/8/2024	12/9/2024
26		Prefabricated Site Office	36d	28/10/2024	9/12/2024
27		**IDD Executive Plan**	**120d**	**29/6/2024**	**18/11/2024**
28		IDD Executive Plan Submission	30d	29/6/2024	2/8/2024
29		Virtual Mockup Review & Approval	90d	3/8/2024	18/11/2024
30					
31		**Phase 1: Electrical Substation at Block 402C [OCD: 28-Jun-2024 to 2-Jun-2026]**	**553d**	**1/8/2024**	**29/5/2026**
32		Preliminaries	60d	1/8/2024	10/10/2024
33		Piling	90d	11/10/2024	25/1/2025
34		Excavation	25d	9/1/2025	8/2/2025
35		Pile Cap	25d	4/2/2025	4/3/2025
36		Underground Services	25d	5/3/2025	3/4/2025
37		Back-Fill	15d	4/4/2025	22/4/2025
38		Cable Trench Level (Deck 1A)	25d	24/4/2025	24/5/2025
39		Transformer Room Level & Cable Chamber (Deck 1B)	25d	26/5/2025	24/6/2025
40		Switchroom Slab (Between Deck 1B & 2B)	25d	25/6/2025	23/7/2025
41		Transformer Room Roof (Deck 2B)	25d	2/7/2025	30/7/2025
42		Switichroom Roof (Deck 3B)	30d	24/7/2025	27/8/2025
43		Waterproofing	15d	28/8/2025	15/9/2025
44		LWP Wall	12d	16/9/2025	29/9/2025
45		Glass blocks/Window/door frames	15d	30/9/2025	16/10/2025
46		Plastering Works / Skim Coat	15d	17/10/2025	4/11/2025
47		Internal Painting	10d	5/11/2025	15/11/2025
48		Electrical Wiring Conduit + Lightings	10d	17/11/2025	27/11/2025
49		External Painting	10d	28/11/2025	9/12/2025
50		Installation of Stairs Railing	10d	10/12/2025	20/12/2025
51		Underground Cable Pipe System	28d	22/12/2025	24/1/2026
52		Electrical Testing	12d	26/1/2026	7/2/2026
53		Defect Inspection & Rectification (internal)	12d	9/2/2026	24/2/2026
54		Handover Inspection (Consultant)	12d	25/2/2026	10/3/2026
55		Cleaning-up	12d	11/3/2026	24/3/2026
56		SPPG Inspection 1 + Defects rectification	12d	25/3/2026	8/4/2026
57		SPPG Inspection 2 + Defects rectification	12d	9/4/2026	22/4/2026
58		Handover to Powergrid	15d	23/4/2026	11/5/2026
59		SPPG Power turn-on	15d	12/5/2026	29/5/2026
60					
61		**Phase 2: Main Distribution Frame (MDF) Room at Block 402B & 402C (MSCP) [OCD: 28-Jun-2024 to 3-Jul-2026]**	**291d**	**5/7/2025**	**20/6/2026**
62		**Block 402C (MSCP) MDF Room**	**240d**	**3/9/2025**	**20/6/2026**
63		Archi Works	90d	3/9/2025	18/12/2025
64		M&E Works	90d	19/12/2025	8/4/2026
65		Inspection By IDA	30d	9/4/2026	14/5/2026
66		Handing Over to IDA	30d	15/5/2026	20/6/2026
67		**Block 402B MDF Room**	**240d**	**5/7/2025**	**18/4/2026**
68		Archi Works	90d	5/7/2025	18/10/2025
69		M&E Works	90d	21/10/2025	4/2/2026
70		Inspection By IDA	30d	5/2/2026	13/3/2026
71		Handing Over to IDA	30d	14/3/2026	18/4/2026
72					
73		**Phase 3: Minor Sewer Works and associated Civil Engineering (CE) works [OCD: 28-Jun-2024 to 2-Nov-2026]**	**680d**	**1/8/2024**	**27/10/2026**
74		Preliminaries	120d	1/8/2024	20/12/2024
75		Submission	35d	21/12/2024	3/2/2025
76		Construction of MH1	40d	4/2/2025	21/3/2025
77		Construction of MH2	35d	22/3/2025	5/5/2025
78		Construction of MH3	35d	6/5/2025	17/6/2025
79		Construction of MH4	35d	18/6/2025	28/7/2025
80		Construction of MH5	40d	29/7/2025	13/9/2025
81		MH1 to MH2 (46.5m) - Pipe Jacking	60d	15/9/2025	24/11/2025
82		MH2 to MH3 (17.5m) - Pipe Jacking	40d	25/11/2025	12/1/2026
83		MH3 to MH4 (42.5m) - Pipe Jacking	55d	13/1/2026	19/3/2026
84		MH4 to MH5 (57.0m) - Pipe Jacking	80d	20/3/2026	25/6/2026
85		MH5 to Extg manhole (13.8m) - Pipe Jacking	50d	26/6/2026	24/8/2026
86		Preparation and Submission of Form C and As-Built Drawin	30d	25/8/2026	28/9/2026
87		CBPU Approval / Connection to Existing MH	25d	29/9/2026	27/10/2026
88					
89		**Phase 4: Detention drain(s), Urban rainwater harvesting tank(s) and associated Civil Engineering (CE) works [OCD: 28-Jun-2024 to 2-Nov-2026]**	**390d**	**28/12/2024**	**13/4/2026**
90		Detention Drain PART 1B (40m)	30d	28/12/2024	3/2/2025
91		Detention Drain PART 1A (90m) & Harvesting Tank 1	60d	4/2/2025	15/4/2025
92		Detention Drain PART 2 (225m) & Harvesting Tank 2	150d	16/4/2025	13/10/2025
93		Archi Work/Metal Works	30d	14/10/2025	18/11/2025
94		Cleaning	30d	19/11/2025	23/12/2025
95		M&E Fit-out	30d	24/12/2025	29/1/2026
96		HDB TMME inspection and rectification	30d	30/1/2026	7/3/2026
97		Handover	30d	9/3/2026	13/4/2026



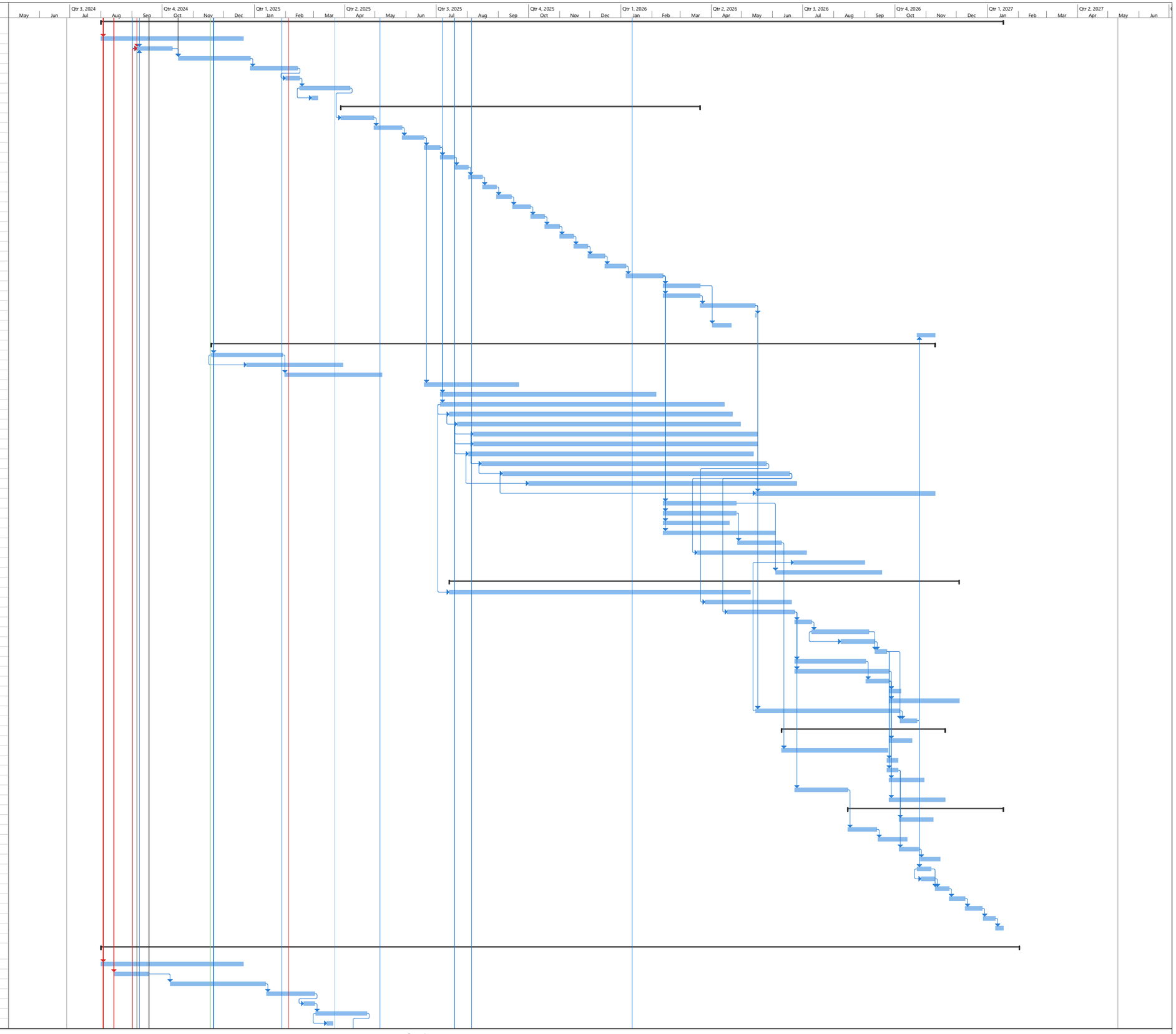
ID	Task Mode	Task Name	Duration	Start	Finish
98					
99		**Phase 5: BLK 402C MSCP, Service Road and Fire Engine Access [OCD: 28-Jun-2024 to 3-Dec-2026]**	**737d**	**28/6/2024**	**28/11/2026**
100		Preliminaries	120d	1/8/2024	20/12/2024
101		Mobilisation	28d	14/8/2024	14/9/2024
102		Piling	90d	11/10/2024	25/1/2025
103		Pilecap for Deck 1A	30d	27/1/2025	4/3/2025
104		Pilecap for Deck 1B	30d	15/2/2025	21/3/2025
105		Backfill and Compact Deck 1A	26d	5/3/2025	4/4/2025
106		Backfill and Compact Deck 1B	26d	22/3/2025	23/4/2025
107		Underground M&E Services Deck 1A	28d	5/4/2025	9/5/2025
108		Underground M&E Services Deck 1B	28d	24/4/2025	28/5/2025
109		Deck 1A Slab	28d	10/5/2025	13/6/2025
110		Deck 1B Slab	28d	29/5/2025	1/7/2025
111		Erection of Tower Crane	5d	11/6/2025	16/6/2025
112		**Superstructure works**	**141d**	**14/6/2025**	**27/11/2025**
113		Deck 2A Slab	28d	14/6/2025	16/7/2025
114		Deck 2B Slab	28d	2/7/2025	2/8/2025
115		Deck 3A Slab	26d	17/7/2025	15/8/2025
116		Deck 3B Slab	26d	4/8/2025	2/9/2025
117		Deck 4A Slab	24d	16/8/2025	13/9/2025
118		Deck 4B Slab	24d	3/9/2025	1/10/2025
119		Deck 5A Slab	24d	15/9/2025	11/10/2025
120		Deck 5B Slab	24d	2/10/2025	30/10/2025
121		Deck 6A Slab	24d	13/10/2025	10/11/2025
122		Deck 6B Slab	24d	31/10/2025	27/11/2025
123		Roof A Slab	35d	11/11/2025	20/12/2025
124		Roof B Slab	35d	28/11/2025	9/1/2026
125		LMR, Roof Landscape parpet, plinth & Roof feature	30d	10/1/2026	13/2/2026
126		LMR Archi	16d	14/2/2026	6/3/2026
127		Lift Shaft & LMR handover to NSC	1d	7/3/2026	7/3/2026
128		Dismantle of Tower Crane	12d	14/2/2026	2/3/2026
129		**Architectural Work**	**253d**	**3/9/2025**	**6/7/2026**
130		Metal Railing Installation	60d	22/12/2025	5/3/2026
131		Internal Wall Partition/Plastering/Skim Coat	95d	3/9/2025	24/12/2025
132		External Plastering	70d	10/1/2026	4/4/2026
133		Painting	60d	26/12/2025	9/3/2026
134		Signages & Gantry installation/Doors	20d	10/3/2026	1/4/2026
135		Ironmongeries	25d	2/4/2026	2/5/2026
136		Car Stopper	25d	4/5/2026	3/6/2026
137		Carpark markings / non-skid coating	28d	4/6/2026	6/7/2026
138		Roof Waterproofing	54d	10/1/2026	16/3/2026
139		External Work - Access & Perimeter	60d	17/3/2026	28/5/2026
140		MDF Room - Consultant Defect Rectification and Handov	30d	4/5/2026	9/6/2026
141		Ground level work	60d	26/12/2025	9/3/2026
142		**M&E Works**	**629d**	**28/6/2024**	**24/7/2026**
143		Lift Installation	105d	7/3/2026	11/7/2026
144		Lift T&C	10d	14/7/2026	24/7/2026
145		Plumbing Works - Conduit pipings	100d	26/12/2025	25/4/2026
146		Plumbing Works - Pump Room Work/Fire Fighting	90d	26/12/2025	14/4/2026
147		M&E Work at Ground Sty	60d	26/1/2026	8/4/2026
148		Water Works Inspection	12d	15/4/2026	28/4/2026
149		Water Meter Turn On	3d	28/6/2024	1/7/2024
150		Electrical Works - Conduit Pipings	48d	26/12/2025	23/2/2026
151		Electrical Works - Install Wiring	35d	24/2/2026	6/4/2026
152		Electrical Works - Install electrical fixtures	21d	7/4/2026	30/4/2026
153		SPPG Cable Pulling	15d	2/5/2026	19/5/2026
154		Install MSB	18d	20/5/2026	11/6/2026
155		SPPF Power turn-on	24d	12/6/2026	9/7/2026
156		MSB Testing and Energise	3d	10/7/2026	13/7/2026
157		Fire Protection Work	60d	31/1/2026	14/4/2026
158		Fire Protection Inspection	45d	15/4/2026	9/6/2026
159		**Handover Requirements**	**108d**	**25/7/2026**	**28/11/2026**
160		In House M&E / Archi Check	12d	25/7/2026	7/8/2026
161		Consultant Archi & M&E Audit	12d	8/8/2026	22/8/2026
162		Testing & Commissioning (HDB M&E)	12d	24/8/2026	5/9/2026
163		Defect Inspection & Rectification	12d	24/8/2026	5/9/2026
164		RI inspection (Archi & M&E)	10d	7/9/2026	17/9/2026
165		BCA TOP	5d	18/9/2026	23/9/2026
166		1st BIT & Defect Rectification	12d	24/9/2026	7/10/2026
167		2nd BIT & Defect Rectification	12d	8/10/2026	21/10/2026
168		HDB Carpark Section / TC Review	10d	22/10/2026	2/11/2026
169		PLG pre-inspection	6d	3/11/2026	9/11/2026
170		PLG inspection	6d	10/11/2026	16/11/2026
171		Handover to PLG	5d	17/11/2026	21/11/2026
172		Handover to HDB/ BO	6d	23/11/2026	28/11/2026
173					
174		**Phase 6: Childcare Centre at Block 402C (MSCP) [OCD: 28-Jun-2024 to 3-Dec-2026]**	**377d**	**3/9/2025**	**28/11/2026**
175		Architectural Work	120d	3/9/2025	24/1/2026
176		M&E Works	60d	9/4/2026	20/6/2026
177		In House M&E / Archi Check	12d	25/7/2026	7/8/2026
178		Consultant Archi & M&E Audit	12d	8/8/2026	22/8/2026
179		Testing & Commissioning (HDB M&E)	12d	24/8/2026	5/9/2026
180		Defect Inspection & Rectification	12d	24/8/2026	5/9/2026
181		RI inspection (Archi & M&E)	10d	7/9/2026	17/9/2026
182		BCA TOP	5d	18/9/2026	23/9/2026
183		1st BIT & Defect Rectification	12d	24/9/2026	7/10/2026
184		2nd BIT & Defect Rectification	12d	8/10/2026	21/10/2026
185		PLG pre-inspection	6d	3/11/2026	9/11/2026
186		PLG inspection	6d	10/11/2026	16/11/2026
187		Handover to PLG	5d	17/11/2026	21/11/2026
188		Handover to HDB/ BO	6d	23/11/2026	28/11/2026
189					
190		**Phase 7: Eating House and Supermarket at Block [OCD: 28-Jun-2024 to 3-Dec-2026]**	**377d**	**3/9/2025**	**28/11/2026**
191		Architectural Work	160d	3/9/2025	14/3/2026
192		M&E Works	80d	9/4/2026	14/7/2026
193		In House M&E / Archi Check	12d	25/7/2026	7/8/2026
194		Consultant Archi & M&E Audit	12d	8/8/2026	22/8/2026
195		Testing & Commissioning (HDB M&E)	12d	24/8/2026	5/9/2026
196		Defect Inspection & Rectification	12d	24/8/2026	5/9/2026
197		RI inspection (Archi & M&E)	10d	7/9/2026	17/9/2026



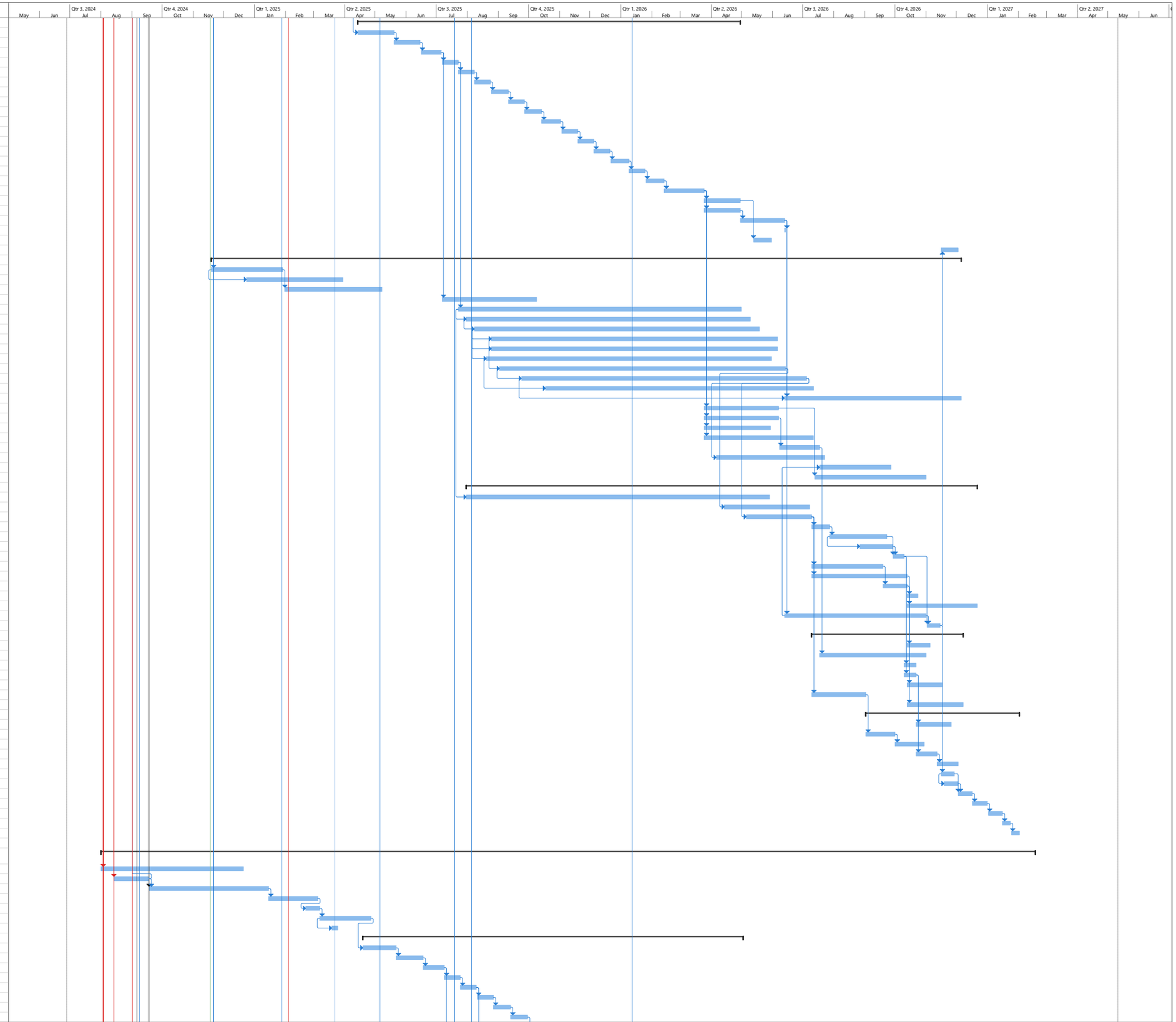
ID	Task Mode	Task Name	Duration	Start	Finish
198		BCA TOP	5d	18/9/2026	23/9/2026
199		1st BIT & Defect Rectification	12d	24/9/2026	7/10/2026
200		2nd BIT & Defect Rectification	12d	8/10/2026	21/10/2026
201		PLG pre-inspection	6d	3/11/2026	9/11/2026
202		PLG inspection	6d	10/11/2026	16/11/2026
203		Handover to PLG	5d	17/11/2026	21/11/2026
204		Handover to HDB/ BO	6d	23/11/2026	28/11/2026
205					
206		**Phase 8: BLK 402A, DOP, Linkways to MSCP & DOP and Linkway from BLK 402A to existing BLK 402, linkways from MSCP to Jurong West Street 42 [OCD: 28-Jun-2024 to 2-Jan-2027]**	**735d**	**1/8/2024**	**31/12/2026**
207		Preliminaries	120d	1/8/2024	20/12/2024
208		Mobilisation & ULT-1	30d	1/8/2024	5/9/2024
209		Piling	65d	23/9/2024	7/12/2024
210		Pilecap	36d	9/12/2024	20/1/2025
211		Underground Services	12d	9/1/2025	22/1/2025
212		Anit-termite treatment & Ground Slab	36d	23/1/2025	7/3/2025
213		Erection of Tower Crane	5d	6/2/2025	11/2/2025
214		**Superstructure works**	**300d**	**28/2/2025**	**25/2/2026**
215		2nd Sty	26d	28/2/2025	29/3/2025
216		3rd sty	22d	1/4/2025	26/4/2025
217		4th sty	18d	28/4/2025	20/5/2025
218		5th sty	14d	21/5/2025	5/6/2025
219		6th sty	12d	7/6/2025	20/6/2025
220		7th sty	12d	21/6/2025	4/7/2025
221		8th sty	12d	5/7/2025	18/7/2025
222		9th sty	12d	19/7/2025	1/8/2025
223		10th sty	12d	2/8/2025	15/8/2025
224		11th sty - TC Jacking	16d	16/8/2025	3/9/2025
225		12th sty	12d	4/9/2025	18/9/2025
226		13th sty	12d	19/9/2025	2/10/2025
227		14th sty	12d	3/10/2025	16/10/2025
228		15th sty	12d	17/10/2025	31/10/2025
229		16th sty	14d	1/11/2025	17/11/2025
230		17th sty	16d	18/11/2025	5/12/2025
231		Lower Roof	36d	6/12/2025	19/1/2026
232		Upper Roof & Water Tank	30d	20/1/2026	25/2/2026
233		LMR Floor	30d	20/1/2026	25/2/2026
234		LMR & Archi Work	40d	26/2/2026	14/4/2026
235		Lift Shaft & LMR handover to NSC	1d	15/4/2026	15/4/2026
236		Dismantle of Tower Crane	15d	10/3/2026	26/3/2026
237		Dismantle of PH	15d	29/9/2026	15/10/2026
238		**Architectural Work**	**574d**	**19/11/2024**	**10/10/2026**
239		Submission of PC drawings	60d	19/11/2024	28/1/2025
240		PC Production for 2nd sty	30d	11/1/2025	17/2/2025
241		Materials & Sub cons Approval	80d	31/1/2025	7/5/2025
242		Trade Demo	80d	21/5/2025	22/8/2025
243		Wall Partition	235d	21/6/2025	28/3/2026
244		Ceiling Skimming	235d	30/6/2025	7/4/2026
245		Wet Area Waterproofing	235d	8/7/2025	15/4/2026
246		Outer Frames Installation (Window & door)	235d	24/7/2025	2/5/2026
247		Floor Screed	235d	24/7/2025	2/5/2026
248		Wall Tiling	235d	19/7/2025	27/4/2026
249		Plastering / Skim Coat	235d	1/8/2025	11/5/2026
250		Internal Painting	235d	22/8/2025	3/6/2026
251		Carpentry Works	220d	17/9/2025	10/6/2026
252		Fixtures/Signages	150d	15/4/2026	10/10/2026
253		Railing	60d	20/1/2026	1/4/2026
254		External Touch up PC Joints	60d	20/1/2026	1/4/2026
255		Roof Waterproofing	54d	20/1/2026	25/3/2026
256		Clothes Drying Rack (Internal & External)	90d	20/1/2026	8/5/2026
257		External Painting	35d	2/4/2026	14/5/2026
258		Glazing / Inner Frames	90d	4/3/2026	20/6/2026
259		Common Areas / Lift Lobby	60d	21/5/2026	31/7/2026
260		Ground Floor Works	90d	9/5/2026	25/8/2026
261		**M&E Works**	**425d**	**30/6/2025**	**19/11/2026**
262		M&E 1st Fix - Conduit piping, SSO	250d	30/6/2025	24/4/2026
263		M&E 2nd Fix - Wiring	70d	12/3/2026	5/6/2026
264		M&E 3rd Fix - Fixtures	54d	2/4/2026	8/6/2026
265		SPPG Cable Pulling	15d	9/6/2026	25/6/2026
266		SPPF Power turn-on	48d	26/6/2026	21/8/2026
267		Install MSB	28d	25/7/2026	27/8/2026
268		MSB Testing and Energise	10d	28/8/2026	8/9/2026
269		Gas Works & Charge-in	60d	9/6/2026	18/8/2026
270		Fire Protection Work	80d	9/6/2026	10/9/2026
271		Gas & Water Inspection (PUB)	20d	19/8/2026	10/9/2026
272		Water Meter Turn On	10d	11/9/2026	22/9/2026
273		Fire Protection Inspection	60d	11/9/2026	19/11/2026
274		Lift Installation	125d	15/4/2026	11/9/2026
275		Lift T&C	14d	12/9/2026	28/9/2026
276		**In House Testing and Audit**	**147d**	**15/5/2026**	**5/11/2026**
277		Flush Test	20d	11/9/2026	3/10/2026
278		Window Water Tightness Test - WWTT	90d	15/5/2026	31/8/2026
279		Electrical Test / Data Point Test	10d	9/9/2026	19/9/2026
280		Electrical Test (Common Area) / LPS	10d	9/9/2026	19/9/2026
281		Pump Room/Booster Pump T&C	30d	11/9/2026	15/10/2026
282		HHS Pre-comm Test	45d	9/6/2026	30/7/2026
283		Perimeter Landscape	48d	11/9/2026	5/11/2026
284		**Handover Requirements**	**130d**	**31/7/2026**	**31/12/2026**
285		Critical Function Test - CFT (HDB)	30d	21/9/2026	24/10/2026
286		HHS Commissioning (HDB)	25d	31/7/2026	29/8/2026
287		HHS Commissioning (BCA)	25d	31/8/2026	28/9/2026
288		CSR Power Turn On & Electrical Audit (HDB TMME)	18d	21/9/2026	10/10/2026
289		Defect Inspection & Rectification	18d	12/10/2026	31/10/2026
290		M&E RI	15d	29/9/2026	15/10/2026
291		Archi RI	15d	2/10/2026	19/10/2026
292		BCA TOP	15d	20/10/2026	5/11/2026
293		1st BIT & Defect Rectification	15d	6/11/2026	23/11/2026
294		2nd BIT & Defect Rectification	15d	24/11/2026	10/12/2026
295		Lock up inspection & Defect Rectification	10d	11/12/2026	22/12/2026
296		Handover	7d	23/12/2026	31/12/2026
297					



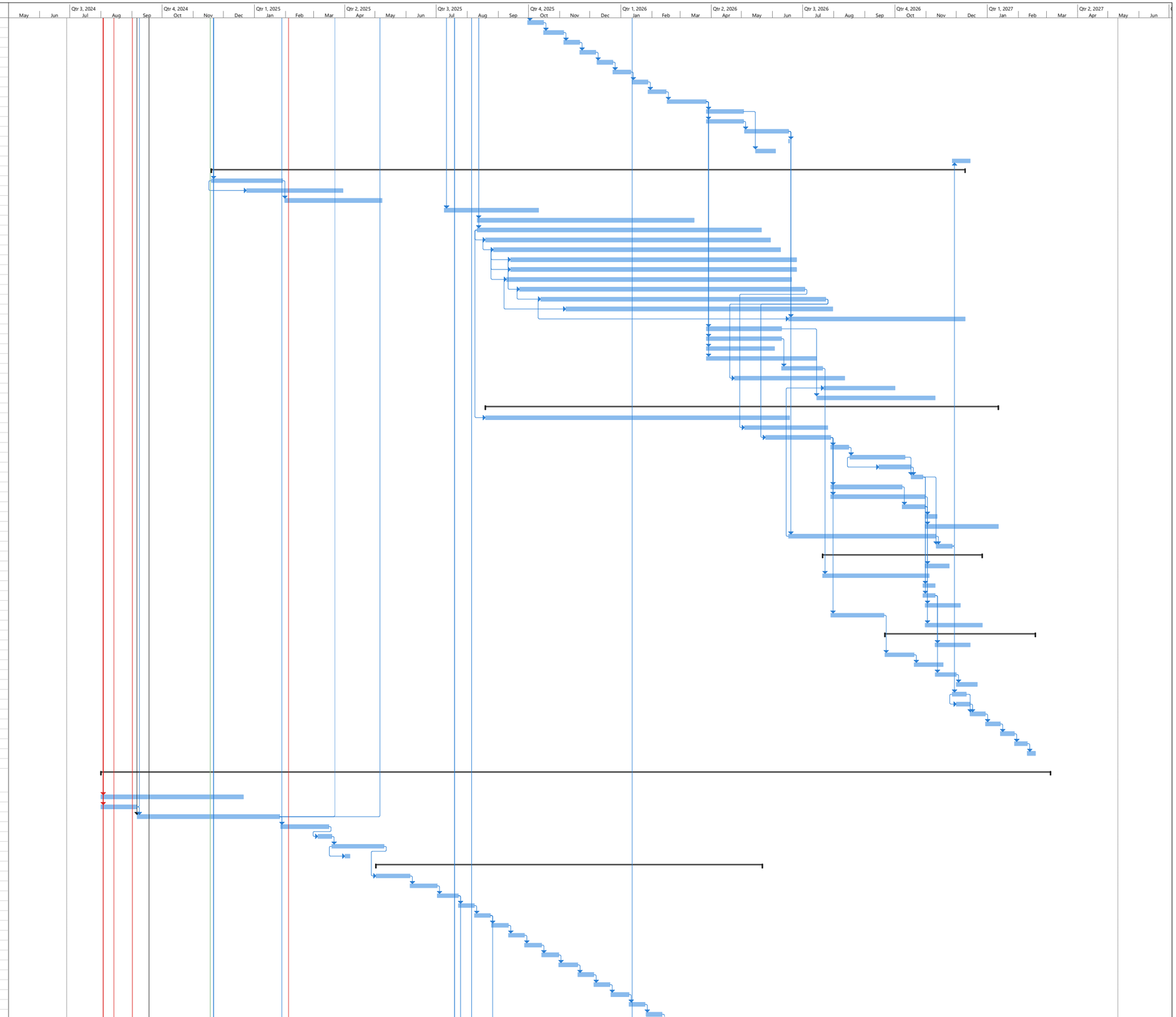
ID	Task Mode	Task Name	Duration	Start	Finish
298		**Phase 9: BLK 402B, BLK 404C Precinct Pavilion (PP) and Linkways to MSCP, DOP & PP [OCD: 28-Jun-2024 to 18-Jan-2027]**	**748d**	**1/8/2024**	**16/1/2027**
299		Preliminaries	120d	1/8/2024	20/12/2024
300		Mobilisation & ULT-2	30d	6/9/2024	10/10/2024
301		Piling	60d	17/10/2024	27/12/2024
302		Pilecap	38d	28/12/2024	12/2/2025
303		Underground Services	12d	1/2/2025	14/2/2025
304		Anit-termite treatment & Ground Slab	42d	15/2/2025	5/4/2025
305		Erection of Tower Crane	5d	27/2/2025	4/3/2025
306		**Superstructure works**	**296d**	**28/3/2025**	**20/3/2026**
307		2nd Sty	26d	28/3/2025	29/4/2025
308		3rd sty	22d	30/4/2025	27/5/2025
309		4th sty	18d	28/5/2025	18/6/2025
310		5th sty	14d	19/6/2025	4/7/2025
311		6th sty	12d	5/7/2025	18/7/2025
312		7th sty	12d	19/7/2025	1/8/2025
313		8th sty	12d	2/8/2025	15/8/2025
314		9th sty	12d	16/8/2025	29/8/2025
315		10th sty	12d	30/8/2025	13/9/2025
316		11th sty - TC Jacking	16d	15/9/2025	2/10/2025
317		12th sty	12d	3/10/2025	16/10/2025
318		13th sty	12d	17/10/2025	31/10/2025
319		14th sty	12d	1/11/2025	14/11/2025
320		15th sty	12d	15/11/2025	28/11/2025
321		16th sty	14d	29/11/2025	15/12/2025
322		17th sty	16d	16/12/2025	5/1/2026
323		Lower Roof	32d	6/1/2026	11/2/2026
324		Upper Roof & Water Tank	30d	12/2/2026	20/3/2026
325		LMR Floor	30d	12/2/2026	20/3/2026
326		LMR & Archi Work	45d	21/3/2026	14/5/2026
327		Lift Shaft & LMR handover to NSC	1d	15/5/2026	15/5/2026
328		Dismantle of Tower Crane	15d	2/4/2026	20/4/2026
329		Dismantle of PH	15d	23/10/2026	9/11/2026
330		**Architectural Work**	**599d**	**19/11/2024**	**9/11/2026**
331		Submission of PC drawings	60d	19/11/2024	28/1/2025
332		PC Production for 2nd sty	80d	24/12/2024	29/3/2025
333		Materials & Sub cons Approval	80d	31/1/2025	7/5/2025
334		Trade Demo	80d	19/6/2025	20/9/2025
335		Sample Units (2R1, 2R2, 3R, 4R)	180d	5/7/2025	4/2/2026
336		Wall Partition	235d	5/7/2025	13/4/2026
337		Ceiling Skimming	235d	14/7/2025	21/4/2026
338		Wet Area Waterproofing	235d	22/7/2025	29/4/2026
339		Outer Frames Installation (Window & door)	235d	7/8/2025	16/5/2026
340		Floor Screed	235d	7/8/2025	16/5/2026
341		Wall Tiling	235d	2/8/2025	12/5/2026
342		Plastering / Skim Coat	235d	15/8/2025	25/5/2026
343		Internal Painting	235d	5/9/2025	17/6/2026
344		Carpentry Works	220d	1/10/2025	24/6/2026
345		Fixtures/Signages	150d	15/5/2026	9/11/2026
346		Railing	60d	12/2/2026	25/4/2026
347		External Touch up PC Joints	60d	12/2/2026	25/4/2026
348		Roof Waterproofing	54d	12/2/2026	18/4/2026
349		Clothes Drying Rack (Internal & External)	90d	12/2/2026	3/6/2026
350		External Painting	35d	27/4/2026	9/6/2026
351		Glazing / Inner Frames	90d	18/3/2026	4/7/2026
352		Common Areas / Lift Lobby	60d	22/6/2026	31/8/2026
353		Ground Floor Works	90d	4/6/2026	17/9/2026
354		**M&E Works**	**425d**	**14/7/2025**	**3/12/2026**
355		M&E 1st Fix - Conduit piping, SSO	250d	14/7/2025	9/5/2026
356		M&E 2nd Fix - Wiring	70d	26/3/2026	19/6/2026
357		M&E 3rd Fix - Fixtures	54d	17/4/2026	22/6/2026
358		SPPG Cable Pulling	15d	23/6/2026	9/7/2026
359		SPPF Power turn-on	48d	10/7/2026	4/9/2026
360		Install MSB	28d	8/8/2026	10/9/2026
361		MSB Testing and Energise	10d	11/9/2026	22/9/2026
362		Gas Works & Charge-in	60d	23/6/2026	1/9/2026
363		Fire Protection Work	80d	23/6/2026	24/9/2026
364		Gas & Water Inspection (PUB)	20d	2/9/2026	24/9/2026
365		Water Meter Turn On	10d	25/9/2026	6/10/2026
366		Fire Protection Inspection	60d	25/9/2026	3/12/2026
367		Lift Installation	120d	15/5/2026	5/10/2026
368		Lift T&C	15d	6/10/2026	22/10/2026
369		**In House Testing and Audit**	**139d**	**10/6/2026**	**19/11/2026**
370		Flush Test	20d	25/9/2026	17/10/2026
371		Window Water Tightness Test - WWTT	90d	10/6/2026	23/9/2026
372		Electrical Test / Data Point Test	10d	23/9/2026	3/10/2026
373		Electrical Test (Common Area) / LPS	10d	23/9/2026	3/10/2026
374		Pump Room/Booster Pump T&C	30d	25/9/2026	29/10/2026
375		HHS Pre-comm Test	45d	23/6/2026	14/8/2026
376		Perimeter Landscape	48d	25/9/2026	19/11/2026
377		**Handover Requirements**	**131d**	**15/8/2026**	**16/1/2027**
378		Critical Function Test - CFT (HDB)	30d	5/10/2026	7/11/2026
379		HHS Commissioning (HDB)	25d	15/8/2026	12/9/2026
380		HHS Commissioning (BCA)	25d	14/9/2026	12/10/2026
381		CSR Power Turn On & Electrical Audit (HDB TMME)	18d	5/10/2026	24/10/2026
382		Defect Inspection & Rectification	18d	26/10/2026	14/11/2026
383		M&E RI	12d	23/10/2026	5/11/2026
384		Archi RI	12d	27/10/2026	9/11/2026
385		BCA TOP	12d	10/11/2026	23/11/2026
386		1st BIT & Defect Rectification	14d	24/11/2026	9/12/2026
387		2nd BIT & Defect Rectification	14d	10/12/2026	26/12/2026
388		Lock up inspection & Defect Rectification	10d	28/12/2026	8/1/2027
389		Handover	7d	9/1/2027	16/1/2027
390					
391		**Phase 10-11: BLK 404A, DOP serving BLK 404A & 406A and Linkways to MSCP & DOP [OCD: 28-Jun-2024 to 2-Feb-2027]**	**761d**	**1/8/2024**	**1/2/2027**
392		Preliminaries	120d	1/8/2024	20/12/2024
393		Mobilisation & ULT-3	30d	14/8/2024	17/9/2024
394		Piling	80d	9/10/2024	11/1/2025
395		Pilecap	40d	13/1/2025	1/3/2025
396		Underground Services	10d	19/2/2025	1/3/2025
397		Anit-termite treatment & Ground Slab	42d	3/3/2025	22/4/2025
398		Erection of Tower Crane	5d	14/3/2025	19/3/2025



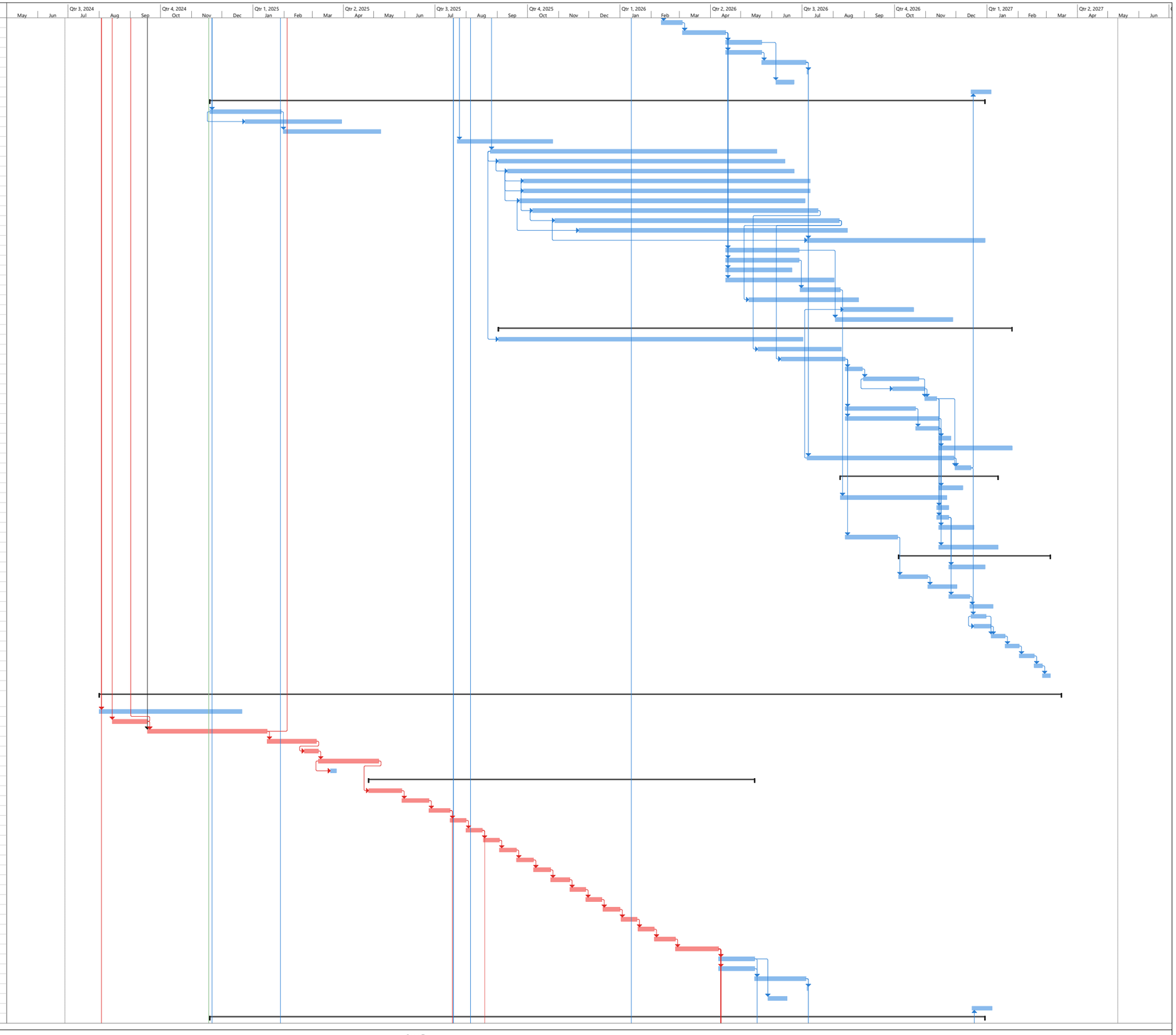
ID	Task Mode	Task Name	Duration	Start	Finish
399		**Superstructure works**	**316d**	**14/4/2025**	**29/4/2026**
400		2nd Sty	28d	14/4/2025	19/5/2025
401		3rd sty	22d	20/5/2025	14/6/2025
402		4th sty	18d	16/6/2025	5/7/2025
403		5th sty	14d	7/7/2025	22/7/2025
404		6th sty	14d	23/7/2025	7/8/2025
405		7th sty	14d	8/8/2025	23/8/2025
406		8th sty	14d	25/8/2025	10/9/2025
407		9th sty	14d	11/9/2025	26/9/2025
408		10th sty	14d	27/9/2025	13/10/2025
409		11th sty - TC Jacking	16d	14/10/2025	1/11/2025
410		12th sty	14d	3/11/2025	18/11/2025
411		13th sty	14d	19/11/2025	4/12/2025
412		14th sty	14d	5/12/2025	20/12/2025
413		15th sty	14d	22/12/2025	8/1/2026
414		16th sty	14d	9/1/2026	24/1/2026
415		17th sty	16d	26/1/2026	12/2/2026
416		Lower Roof	32d	13/2/2026	24/3/2026
417		Upper Roof & Water Tank	30d	25/3/2026	29/4/2026
418		LMR Floor	30d	25/3/2026	29/4/2026
419		LMR & Archi Work	35d	30/4/2026	12/6/2026
420		Lift Shaft & LMR handover to NSC	1d	13/6/2026	13/6/2026
421		Dismantle of Tower Crane	15d	13/5/2026	30/5/2026
422		Dismantle of PH	15d	16/11/2026	2/12/2026
423		**Architectural Work**	**622d**	**19/11/2024**	**5/12/2026**
424		Submission of PC drawings	60d	19/11/2024	28/1/2025
425		PC Production for 2nd sty	80d	24/12/2024	29/3/2025
426		Materials & Sub cons Approval	80d	31/1/2025	7/5/2025
427		Trade Demo	80d	7/7/2025	8/10/2025
428		Wall Partition	235d	23/7/2025	30/4/2026
429		Ceiling Skimming	235d	31/7/2025	9/5/2026
430		Wet Area Waterproofing	235d	8/8/2025	18/5/2026
431		Outer Frames Installation (Window & door)	235d	25/8/2025	5/6/2026
432		Floor Screed	235d	25/8/2025	5/6/2026
433		Wall Tiling	235d	20/8/2025	30/5/2026
434		Plastering / Skim Coat	235d	2/9/2025	13/6/2026
435		Internal Painting	235d	24/9/2025	4/7/2026
436		Carpentry Works	220d	18/10/2025	11/7/2026
437		Fixtures/Signages	150d	13/6/2026	5/12/2026
438		Railing	60d	25/3/2026	6/6/2026
439		External Touch up PC Joints	60d	25/3/2026	6/6/2026
440		Roof Waterproofing	54d	25/3/2026	29/5/2026
441		Clothes Drying Rack (Internal & External)	90d	25/3/2026	11/7/2026
442		External Painting	35d	8/6/2026	17/7/2026
443		Glazing / Inner Frames	90d	6/4/2026	22/7/2026
444		Common Areas / Lift Lobby	60d	18/7/2026	26/9/2026
445		Ground Floor Works	95d	13/7/2026	31/10/2026
446		**M&E Works**	**425d**	**31/7/2025**	**21/12/2026**
447		M&E 1st Fix - Conduit piping, SSO	250d	31/7/2025	28/5/2026
448		M&E 2nd Fix - Wiring	70d	14/4/2026	7/7/2026
449		M&E 3rd Fix - Fixtures	54d	6/5/2026	9/7/2026
450		SPPG Cable Pulling	15d	10/7/2026	27/7/2026
451		SPPF Power turn-on	48d	28/7/2026	22/9/2026
452		Install MSB	28d	27/8/2026	28/9/2026
453		MSB Testing and Energise	10d	29/9/2026	9/10/2026
454		Gas Works & Charge-in	60d	10/7/2026	18/9/2026
455		Fire Protection Work	80d	10/7/2026	12/10/2026
456		Gas & Water Inspection (PUB)	20d	19/9/2026	12/10/2026
457		Water Meter Turn On	10d	13/10/2026	23/10/2026
458		Fire Protection Inspection	60d	13/10/2026	21/12/2026
459		Lift Installation	120d	13/6/2026	31/10/2026
460		Lift T&C	12d	2/11/2026	14/11/2026
461		**In House Testing and Audit**	**128d**	**10/7/2026**	**7/12/2026**
462		Flush Test	20d	13/10/2026	4/11/2026
463		Water Tightness Test - WWTT	90d	18/7/2026	31/10/2026
464		Electrical Test / Data Point Test	10d	10/10/2026	21/10/2026
465		Electrical Test (Common Area) / LPS	10d	10/10/2026	21/10/2026
466		Pump Room/Booster Pump T&C	30d	13/10/2026	16/11/2026
467		HHS Pre-comm Test	45d	10/7/2026	1/9/2026
468		Perimeter Landscape	48d	13/10/2026	7/12/2026
469		**Handover Requirements**	**129d**	**2/9/2026**	**1/2/2027**
470		Critical Function Test - CFT (HDB)	30d	22/10/2026	25/11/2026
471		HHS Commissioning (HDB)	25d	2/9/2026	30/9/2026
472		HHS Commissioning (BCA)	25d	1/10/2026	29/10/2026
473		CSR Power Turn On & Electrical Audit (HDB TMME)	18d	22/10/2026	11/11/2026
474		Defect Inspection & Rectification	18d	12/11/2026	2/12/2026
475		M&E RI	12d	16/11/2026	28/11/2026
476		Archi RI	12d	19/11/2026	2/12/2026
477		BCA TOP	12d	3/12/2026	16/12/2026
478		1st BIT & Defect Rectification	12d	17/12/2026	31/12/2026
479		2nd BIT & Defect Rectification	12d	2/1/2027	15/1/2027
480		Lock up inspection & Defect Rectification	7d	16/1/2027	23/1/2027
481		Handover	7d	25/1/2027	1/2/2027
482					
483		**Phase 12: BLK 406A, BLK 406C PP and Linkways to MSCP, DOP & PP [OCD: 28-Jun-2024 to 18-Feb-2027]**	**774d**	**1/8/2024**	**17/2/2027**
484		Preliminaries	120d	1/8/2024	20/12/2024
485		Mobilisation & ULT-4	30d	14/8/2024	17/9/2024
486		Piling	100d	18/9/2024	14/1/2025
487		Pilecap	40d	15/1/2025	4/3/2025
488		Underground Services	12d	21/2/2025	6/3/2025
489		Anit-termite treatment & Ground Slab	42d	7/3/2025	26/4/2025
490		Erection of Tower Crane	5d	19/3/2025	24/3/2025
491		**Superstructure works**	**314d**	**19/4/2025**	**2/5/2026**
492		2nd Sty	26d	19/4/2025	21/5/2025
493		3rd sty	22d	22/5/2025	17/6/2025
494		4th sty	18d	18/6/2025	8/7/2025
495		5th sty	14d	9/7/2025	24/7/2025
496		6th sty	14d	25/7/2025	9/8/2025
497		7th sty	14d	11/8/2025	26/8/2025
498		8th sty	14d	27/8/2025	12/9/2025
499		9th sty	14d	13/9/2025	29/9/2025



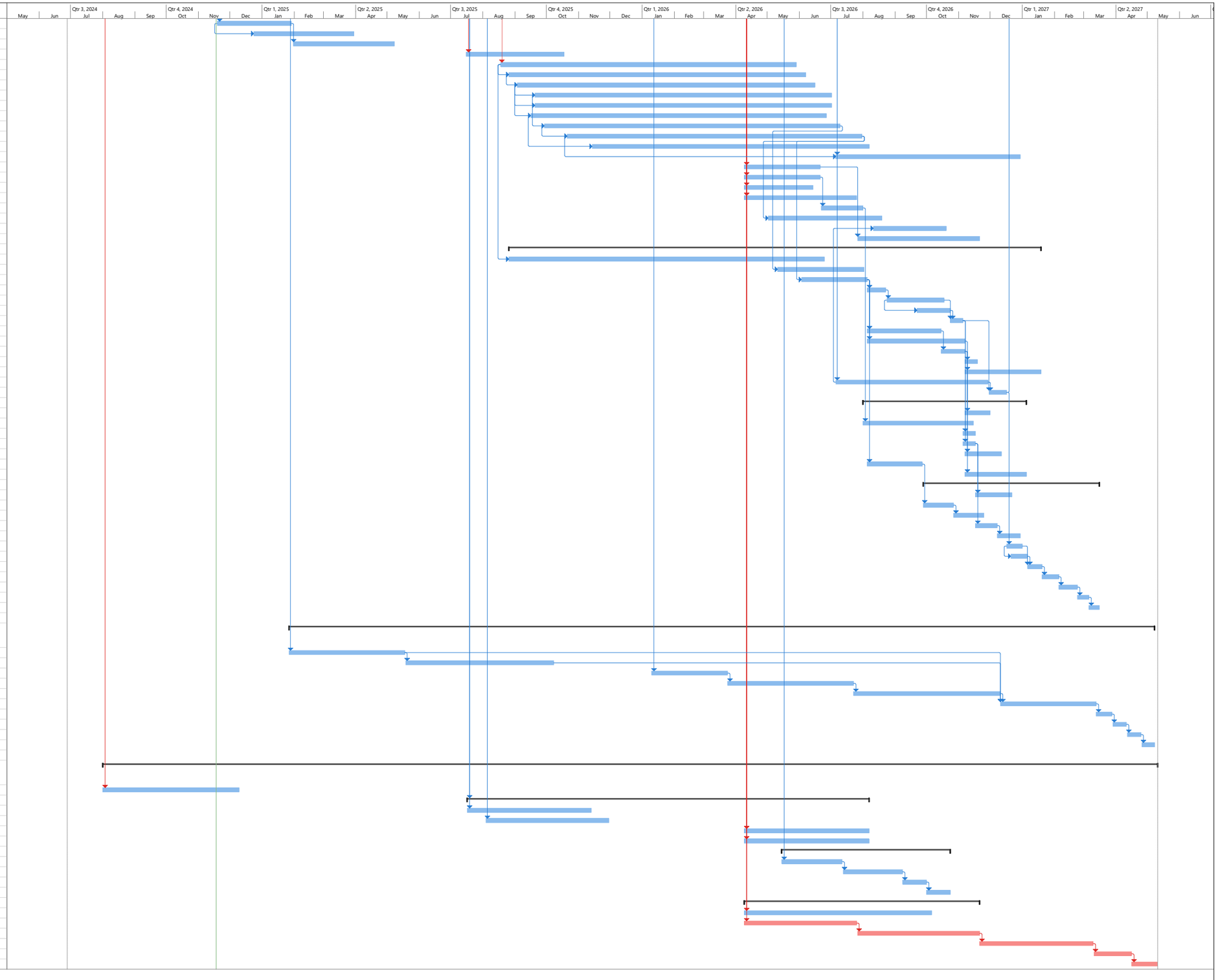
ID	Task Mode	Task Name	Duration	Start	Finish
500		10th sty	14d	30/9/2025	15/10/2025
501		11th sty - TC Jacking	16d	16/10/2025	4/11/2025
502		12th sty	14d	5/11/2025	20/11/2025
503		13th sty	14d	21/11/2025	6/12/2025
504		14th sty	14d	8/12/2025	23/12/2025
505		15th sty	14d	24/12/2025	10/1/2026
506		16th sty	14d	12/1/2026	27/1/2026
507		17th sty	16d	28/1/2026	14/2/2026
508		Lower Roof	32d	16/2/2026	26/3/2026
509		Upper Roof & Water Tank	30d	27/3/2026	2/5/2026
510		LMR Floor	30d	27/3/2026	2/5/2026
511		LMR & Archi Work	36d	4/5/2026	16/6/2026
512		Lift Shaft & LMR handover to NSC	1d	17/6/2026	17/6/2026
513		Dismantle of Tower Crane	15d	15/5/2026	3/6/2026
514		Dismantle of PH	15d	27/11/2026	14/12/2026
515		**Architectural Work**	**625d**	**19/11/2024**	**9/12/2026**
516		Submission of PC drawings	60d	19/11/2024	28/1/2025
517		PC Production for 2nd sty	80d	24/12/2024	29/3/2025
518		Materials & Sub cons Approval	80d	31/1/2025	7/5/2025
519		Trade Demo	80d	9/7/2025	10/10/2025
520		Sample Units (5R)	180d	11/8/2025	14/3/2026
521		Wall Partition	235d	11/8/2025	20/5/2026
522		Ceiling Skimming	235d	19/8/2025	29/5/2026
523		Wet Area Waterproofing	235d	27/8/2025	8/6/2026
524		Outer Frames Installation (Window & door)	235d	13/9/2025	24/6/2026
525		Floor Screed	235d	13/9/2025	24/6/2026
526		Wall Tiling	235d	9/9/2025	19/6/2026
527		Plastering / Skim Coat	235d	22/9/2025	2/7/2026
528		Internal Painting	235d	13/10/2025	23/7/2026
529		Carpentry Works	220d	7/11/2025	30/7/2026
530		Fixtures/Signages	150d	17/6/2026	9/12/2026
531		Railing	60d	27/3/2026	9/6/2026
532		External Touch up PC Joints	60d	27/3/2026	9/6/2026
533		Roof Waterproofing	54d	27/3/2026	2/6/2026
534		Clothes Drying Rack (Internal & External)	90d	27/3/2026	14/7/2026
535		External Painting	35d	10/6/2026	20/7/2026
536		Glazing / Inner Frames	90d	24/4/2026	11/8/2026
537		Common Areas / Lift Lobby	60d	22/7/2026	30/9/2026
538		Ground Floor Works	100d	15/7/2026	9/11/2026
539		**M&E Works**	**425d**	**19/8/2025**	**11/1/2027**
540		M&E 1st Fix - Conduit piping, SSO	250d	19/8/2025	17/6/2026
541		M&E 2nd Fix - Wiring	70d	4/5/2026	25/7/2026
542		M&E 3rd Fix - Fixtures	54d	25/5/2026	28/7/2026
543		SPPG Cable Pulling	15d	29/7/2026	15/8/2026
544		SPPF Power turn-on	48d	17/8/2026	10/10/2026
545		Install MSB	28d	15/9/2026	16/10/2026
546		MSB Testing and Energise	10d	17/10/2026	28/10/2026
547		Gas Works & Charge-in	60d	29/7/2026	7/10/2026
548		Fire Protection Work	80d	29/7/2026	30/10/2026
549		Gas & Water Inspection (PUB)	20d	8/10/2026	30/10/2026
550		Water Meter Turn On	10d	31/10/2026	11/11/2026
551		Fire Protection Inspection	60d	31/10/2026	11/1/2027
552		Lift Installation	125d	17/6/2026	10/11/2026
553		Lift T&C	14d	11/11/2026	26/11/2026
554		**In House Testing and Audit**	**135d**	**21/7/2026**	**26/12/2026**
555		Flush Test	20d	31/10/2026	23/11/2026
556		Water Tightness Test - WWTT	90d	21/7/2026	3/11/2026
557		Electrical Test / Data Point Test	10d	29/10/2026	9/11/2026
558		Electrical Test (Common Area) / LPS	10d	29/10/2026	9/11/2026
559		Pump Room/Booster Pump T&C	30d	31/10/2026	4/12/2026
560		HHS Pre-comm Test	45d	29/7/2026	19/9/2026
561		Perimeter Landscape	48d	31/10/2026	26/12/2026
562		**Handover Requirements**	**126d**	**21/9/2026**	**17/2/2027**
563		Critical Function Test - CFT (HDB)	30d	10/11/2026	14/12/2026
564		HHS Commissioning (HDB)	25d	21/9/2026	19/10/2026
565		HHS Commissioning (BCA)	25d	20/10/2026	17/11/2026
566		CSR Power Turn On & Electrical Audit (HDB TMME)	18d	10/11/2026	30/11/2026
567		Defect Inspection & Rectification	18d	1/12/2026	21/12/2026
568		M&E RI	12d	27/11/2026	10/12/2026
569		Archi RI	12d	1/12/2026	14/12/2026
570		BCA TOP	12d	15/12/2026	29/12/2026
571		1st BIT & Defect Rectification	12d	30/12/2026	13/1/2027
572		2nd BIT & Defect Rectification	12d	14/1/2027	27/1/2027
573		Lock up inspection & Defect Rectification	10d	28/1/2027	9/2/2027
574		Handover	7d	10/2/2027	17/2/2027
575					
576		**Phase 13-14: BLK 404B, DOP at BLK 404B, Linkways from BLK 404B to existing BLK 411 and Linkways to MSCP [OCD: 28-Jun-2024 to 5-Mar-2027]**	**787d**	**1/8/2024**	**4/3/2027**
577		Preliminaries	120d	1/8/2024	20/12/2024
578		Mobilisation & ULT-6	30d	1/8/2024	5/9/2024
579		Piling	120d	6/9/2024	25/1/2025
580		Pilecap	40d	27/1/2025	15/3/2025
581		Underground Services	12d	5/3/2025	18/3/2025
582		Anit-termite treatment & Ground Slab	42d	19/3/2025	9/5/2025
583		Erection of Tower Crane	5d	1/4/2025	5/4/2025
584		**Superstructure works**	**320d**	**2/5/2025**	**21/5/2026**
585		2nd Sty	28d	2/5/2025	4/6/2025
586		3rd sty	22d	5/6/2025	1/7/2025
587		4th sty	18d	2/7/2025	22/7/2025
588		5th sty	14d	23/7/2025	7/8/2025
589		6th sty	14d	8/8/2025	23/8/2025
590		7th sty	14d	25/8/2025	10/9/2025
591		8th sty	14d	11/9/2025	26/9/2025
592		9th sty	14d	27/9/2025	13/10/2025
593		10th sty	14d	14/10/2025	30/10/2025
594		11th sty - TC Jacking	16d	31/10/2025	18/11/2025
595		12th sty	14d	19/11/2025	4/12/2025
596		13th sty	14d	5/12/2025	20/12/2025
597		14th sty	14d	22/12/2025	8/1/2026
598		15th sty	14d	9/1/2026	24/1/2026
599		16th sty	14d	26/1/2026	10/2/2026



ID	Task Mode	Task Name	Duration	Start	Finish
600		17th sty	16d	11/2/2026	3/3/2026
601		Lower Roof	36d	4/3/2026	15/4/2026
602		Upper Roof & Water Tank	30d	16/4/2026	21/5/2026
603		LMR Floor	30d	16/4/2026	21/5/2026
604		LMR & Archi Work	36d	22/5/2026	4/7/2026
605		Lift Shaft & LMR handover to NSC	1d	6/7/2026	6/7/2026
606		Dismantle of Tower Crane	15d	5/6/2026	22/6/2026
607		Dismantle of PH	15d	16/12/2026	4/1/2027
608		**Architectural Work**	**641d**	**19/11/2024**	**29/12/2026**
609		Submission of PC drawings	60d	19/11/2024	28/1/2025
610		PC Production for 2nd sty	80d	24/12/2024	29/3/2025
611		Materials & Sub cons Approval	80d	31/1/2025	7/5/2025
612		Trade Demo	80d	23/7/2025	25/10/2025
613		Wall Partition	235d	25/8/2025	5/6/2026
614		Ceiling Skimming	235d	2/9/2025	13/6/2026
615		Wet Area Waterproofing	235d	11/9/2025	22/6/2026
616		Outer Frames Installation (Window & door)	235d	27/9/2025	8/7/2026
617		Floor Screed	235d	27/9/2025	8/7/2026
618		Wall Tiling	235d	23/9/2025	3/7/2026
619		Plastering / Skim Coat	235d	6/10/2025	16/7/2026
620		Internal Painting	235d	28/10/2025	6/8/2026
621		Carpentry Works	220d	21/11/2025	14/8/2026
622		Fixtures/Signages	150d	6/7/2026	29/12/2026
623		Railing	60d	16/4/2026	27/6/2026
624		External Touch up PC Joints	60d	16/4/2026	27/6/2026
625		Roof Waterproofing	54d	16/4/2026	20/6/2026
626		Clothes Drying Rack (Internal & External)	90d	16/4/2026	1/8/2026
627		External Painting	35d	29/6/2026	7/8/2026
628		Glazing / Inner Frames	90d	9/5/2026	25/8/2026
629		Common Areas / Lift Lobby	60d	11/8/2026	19/10/2026
630		Ground Floor Works	100d	3/8/2026	27/11/2026
631		**M&E Works**	**425d**	**2/9/2025**	**25/1/2027**
632		M&E 1st Fix - Conduit piping, SSO	250d	2/9/2025	1/7/2026
633		M&E 2nd Fix - Wiring	70d	18/5/2026	8/8/2026
634		M&E 3rd Fix - Fixtures	54d	10/6/2026	12/8/2026
635		SPPG Cable Pulling	15d	13/8/2026	29/8/2026
636		SPPF Power turn-on	48d	31/8/2026	24/10/2026
637		Install MSB	28d	29/9/2026	30/10/2026
638		MSB Testing and Energise	10d	31/10/2026	11/11/2026
639		Gas Works & Charge-in	60d	13/8/2026	21/10/2026
640		Fire Protection Work	80d	13/8/2026	13/11/2026
641		Gas & Water Inspection (PUB)	20d	22/10/2026	13/11/2026
642		Water Meter Turn On	10d	14/11/2026	25/11/2026
643		Fire Protection Inspection	60d	14/11/2026	25/1/2027
644		Lift Installation	125d	6/7/2026	28/11/2026
645		Lift T&C	14d	30/11/2026	15/12/2026
646		**In House Testing and Audit**	**131d**	**8/8/2026**	**11/1/2027**
647		Flush Test	20d	14/11/2026	7/12/2026
648		Water Tightness Test - WWTT	90d	8/8/2026	21/11/2026
649		Electrical Test / Data Point Test	10d	12/11/2026	23/11/2026
650		Electrical Test (Common Area) / LPS	10d	12/11/2026	23/11/2026
651		Pump Room/Booster Pump T&C	30d	14/11/2026	18/12/2026
652		HHS Pre-comm Test	45d	13/8/2026	3/10/2026
653		Perimeter Landscape	48d	14/11/2026	11/1/2027
654		**Handover Requirements**	**127d**	**5/10/2026**	**4/3/2027**
655		Critical Function Test - CFT (HDB)	30d	24/11/2026	29/12/2026
656		HHS Commissioning (HDB)	25d	5/10/2026	2/11/2026
657		HHS Commissioning (BCA)	25d	3/11/2026	1/12/2026
658		CSR Power Turn On & Electrical Audit (HDB TMME)	18d	24/11/2026	14/12/2026
659		Defect Inspection & Rectification	18d	15/12/2026	6/1/2027
660		M&E RI	12d	16/12/2026	30/12/2026
661		Archi RI	12d	19/12/2026	4/1/2027
662		BCA TOP	12d	5/1/2027	18/1/2027
663		1st BIT & Defect Rectification	12d	19/1/2027	1/2/2027
664		2nd BIT & Defect Rectification	12d	2/2/2027	16/2/2027
665		Lock up inspection & Defect Rectification	7d	17/2/2027	24/2/2027
666		Handover	7d	25/2/2027	4/3/2027
667					
668		**Phase 15-16: BLK 406B and Linkways to MSCP, DOP and BLK 404B [OCD: 28-Jun-2024 to 18-Mar-2027]**	**795d**	**1/8/2024**	**15/3/2027**
669		Preliminaries	120d	1/8/2024	20/12/2024
670		Mobilisation & ULT-5	30d	14/8/2024	17/9/2024
671		Piling	100d	18/9/2024	14/1/2025
672		Pilecap	40d	15/1/2025	4/3/2025
673		Underground Services	12d	21/2/2025	6/3/2025
674		Anit-termite treatment & Ground Slab	48d	7/3/2025	5/5/2025
675		Erection of Tower Crane	5d	19/3/2025	24/3/2025
676		**Superstructure works**	**318d**	**26/4/2025**	**14/5/2026**
677		2nd Sty	26d	26/4/2025	28/5/2025
678		3rd sty	22d	29/5/2025	24/6/2025
679		4th sty	18d	25/6/2025	15/7/2025
680		5th sty	14d	16/7/2025	31/7/2025
681		6th sty	14d	1/8/2025	16/8/2025
682		7th sty	14d	18/8/2025	2/9/2025
683		8th sty	14d	3/9/2025	19/9/2025
684		9th sty	14d	20/9/2025	6/10/2025
685		10th sty	14d	7/10/2025	23/10/2025
686		11th sty - TC Jacking	16d	24/10/2025	11/11/2025
687		12th sty	14d	12/11/2025	27/11/2025
688		13th sty	14d	28/11/2025	13/12/2025
689		14th sty	14d	15/12/2025	31/12/2025
690		15th sty	14d	2/1/2026	17/1/2026
691		16th sty	14d	19/1/2026	3/2/2026
692		17th sty	16d	4/2/2026	24/2/2026
693		Lower Roof	36d	25/2/2026	8/4/2026
694		Upper Roof & Water Tank	30d	9/4/2026	14/5/2026
695		LMR Floor	30d	9/4/2026	14/5/2026
696		LMR & Archi Work	42d	15/5/2026	4/7/2026
697		Lift Shaft & LMR handover to NSC	1d	6/7/2026	6/7/2026
698		Dismantle of Tower Crane	15d	28/5/2026	15/6/2026
699		Dismantle of PH	15d	17/12/2026	5/1/2027
700		**Architectural Work**	**641d**	**19/11/2024**	**29/12/2026**



ID	Task Mode	Task Name	Duration	Start	Finish
701		Submission of PC drawings	60d	19/11/2024	28/1/2025
702		PC Production for 2nd sty	80d	24/12/2024	29/3/2025
703		Materials & Sub cons Approval	80d	31/1/2025	7/5/2025
704		Trade Demo	80d	16/7/2025	17/10/2025
705		Wall Partition	235d	18/8/2025	28/5/2026
706		Ceiling Skimming	235d	26/8/2025	6/6/2026
707		Wet Area Waterproofing	235d	3/9/2025	15/6/2026
708		Outer Frames Installation (Window & door)	235d	20/9/2025	1/7/2026
709		Floor Screed	235d	20/9/2025	1/7/2026
710		Wall Tiling	235d	16/9/2025	26/6/2026
711		Plastering / Skim Coat	235d	29/9/2025	9/7/2026
712		Internal Painting	235d	21/10/2025	30/7/2026
713		Carpentry Works	220d	14/11/2025	6/8/2026
714		Fixtures/Signages	150d	6/7/2026	29/12/2026
715		Railing	60d	9/4/2026	20/6/2026
716		External Touch up PC Joints	60d	9/4/2026	20/6/2026
717		Roof Waterproofing	54d	9/4/2026	13/6/2026
718		Clothes Drying Rack (Internal & External)	90d	9/4/2026	25/7/2026
719		External Painting	35d	22/6/2026	31/7/2026
720		Glazing / Inner Frames	90d	2/5/2026	18/8/2026
721		Common Areas / Lift Lobby	60d	11/8/2026	19/10/2026
722		Ground Floor Works	100d	27/7/2026	20/11/2026
723		**M&E Works**	**425d**	**26/8/2025**	**18/1/2027**
724		M&E 1st Fix - Conduit piping, SSO	250d	26/8/2025	24/6/2026
725		M&E 2nd Fix - Wiring	70d	11/5/2026	1/8/2026
726		M&E 3rd Fix - Fixtures	54d	3/6/2026	4/8/2026
727		SPPG Cable Pulling	15d	5/8/2026	22/8/2026
728		SPPF Power turn-on	48d	24/8/2026	17/10/2026
729		Install MSB	28d	22/9/2026	23/10/2026
730		MSB Testing and Energise	10d	24/10/2026	4/11/2026
731		Gas Works & Charge-in	60d	5/8/2026	14/10/2026
732		Fire Protection Work	80d	5/8/2026	6/11/2026
733		Gas & Water Inspection (PUB)	20d	15/10/2026	6/11/2026
734		Water Meter Turn On	10d	7/11/2026	18/11/2026
735		Fire Protection Inspection	60d	7/11/2026	18/1/2027
736		Lift Installation	125d	6/7/2026	28/11/2026
737		Lift T&C	15d	30/11/2026	16/12/2026
738		**In House Testing and Audit**	**131d**	**1/8/2026**	**4/1/2027**
739		Flush Test	20d	7/11/2026	30/11/2026
740		Water Tightness Test - WWTT	90d	1/8/2026	14/11/2026
741		Electrical Test / Data Point Test	10d	5/11/2026	16/11/2026
742		Electrical Test (Common Area) / LPS	10d	5/11/2026	16/11/2026
743		Pump Room/Booster Pump T&C	30d	7/11/2026	11/12/2026
744		HHS Pre-comm Test	45d	5/8/2026	26/9/2026
745		Perimeter Landscape	48d	7/11/2026	4/1/2027
746		**Handover Requirements**	**141d**	**28/9/2026**	**15/3/2027**
747		Critical Function Test - CFT (HDB)	30d	17/11/2026	21/12/2026
748		HHS Commissioning (HDB)	25d	28/9/2026	26/10/2026
749		HHS Commissioning (BCA)	25d	27/10/2026	24/11/2026
750		CSR Power Turn On & Electrical Audit (HDB TMME)	18d	17/11/2026	7/12/2026
751		Defect Inspection & Rectification	18d	8/12/2026	29/12/2026
752		M&E RI	12d	17/12/2026	31/12/2026
753		Archi RI	12d	21/12/2026	5/1/2027
754		BCA TOP	12d	6/1/2027	19/1/2027
755		1st BIT & Defect Rectification	14d	20/1/2027	4/2/2027
756		2nd BIT & Defect Rectification	14d	5/2/2027	22/2/2027
757		Lock up inspection & Defect Rectification	10d	23/2/2027	5/3/2027
758		Handover	7d	6/3/2027	15/3/2027
759					
760		**Phase 17: BLK 402C (MSCP) Roof Garden, all other site works / Landscaping works, Precinct structures and all remaining works [OCD: 28-Jun-2024 to 18-May-2027]**	**689d**	**27/1/2025**	**7/5/2027**
761		Submission & Approval of ABC	90d	27/1/2025	17/5/2025
762		Submission & Approval of Landscaping & Irrigation System	120d	19/5/2025	7/10/2025
763		Green Roof Mobilization	60d	10/1/2026	23/3/2026
764		MSCP Roof Garden	100d	24/3/2026	22/7/2026
765		Precinct Structures	120d	23/7/2026	10/12/2026
766		Landscaping & Irrigation System	75d	11/12/2026	12/3/2027
767		Pre-inspection	12d	13/3/2027	27/3/2027
768		HDB inspection	12d	29/3/2027	10/4/2027
769		Branch Office & Town Council Inspection	12d	12/4/2027	24/4/2027
770		Handover	10d	26/4/2027	7/5/2027
771					
772		**Phase 18: Linkway across Jurong West Street 42, Zebra crossing and all remaining external works [OCD: 28-Jun-2024 to 18-May-2027]**	**841d**	**1/8/2024**	**10/5/2027**
773		Preliminaries	110d	1/8/2024	9/12/2024
774		**Underground Services**	**321d**	**17/7/2025**	**6/8/2026**
775		UPS	100d	17/7/2025	12/11/2025
776		UTS	100d	4/8/2025	29/11/2025
777		Water Pipe	100d	9/4/2026	6/8/2026
778		Gas Pipe	100d	9/4/2026	6/8/2026
779		**Linkway Across Jurong West St.42**	**136d**	**15/5/2026**	**23/10/2026**
780		Footing	48d	15/5/2026	11/7/2026
781		Steel Structure	48d	13/7/2026	7/9/2026
782		Roofing	20d	8/9/2026	30/9/2026
783		Raised Zebra Crossing	20d	1/10/2026	23/10/2026
784		**CE Works**	**190d**	**9/4/2026**	**20/11/2026**
785		Retaining Walls	150d	9/4/2026	5/10/2026
786		CE Drains/ Culverts	90d	9/4/2026	25/7/2026
787		Roadworks	100d	27/7/2026	20/11/2026
788		Landscape	90d	21/11/2026	9/3/2027
789		Inspection	30d	11/3/2027	15/4/2027
790		Handover	20d	16/4/2027	10/5/2027



Project: JWN4C22_2024.10.14_d
Date: 18/11/2024

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

SECTION 4

PROGRAMME

4.2 Authority Submission Status for M&E Services – 1st Submission

Service	Authority	Original Submission		Comments/Resubmission						Approval/
		Scheduled	Actual	Comment	Resubmit	Comment	Resubmit	Comment	Resubmit	Clearance
Application for Electricity Supply	SP Services Ltd	26 Jan 2024	1 Feb 2024	6 Feb 2024	8 Feb 2024					12 Feb 2024
Power Supply Substation	SP PowerGrid Ltd	14 Aug 2024	16 Aug 2024	27 Aug 2024	14 Nov 2024	20 Nov 2024	10 Dec 2024	7 Jan 2025	27 Jan 2025	19 Feb 2025 23 Apr 2025 (Re-endorsed)
Underground Piping System	SP PowerGrid Ltd	5 May 2025	5 May 2025	19 May 2025	12 Jun 2025					23 June 2025
Metering Layout	SP Services Ltd									
Sanitary Installation	PUB Water Reclamation (Network) Dept	27 Feb 2026	1 Apr 2026							2 Apr 2026
Overall Plumbing Installation	PUB (Water Supply) Network Dept	28 Feb 2024	16 Dec 2023	17 Dec 2023	18 Dec 2023	3 Jan 2024	5 Aug 2024			2 Oct 2024
Domestic Water Supply		21 Jul 2025	21 Jul 2025	12 Sept 2025	18 Sep 2025					28 Sep 2025
Overall Gas Supply Installation	City Gas Pte Ltd	29 Mar 2024	16 Dec 2023	16 Feb 2024						27 Feb 2024

4.2 Authority Submission Status for M&E Services – 1st Submission (Cont'd)

Service	Authority	Original Submission		Comments/Resubmission						Approval/
		Scheduled	Actual	Comment	Resubmit	Comment	Resubmit	Comment	Resubmit	Clearance
Gas Supply Installation	City Gas Pte Ltd	30 Sep 2025	30 Sep 2025	9 Oct 2025	11 Nov 2025	17 Nov 2025	25 Nov 2025	22 Dec 2025	7 Jan 2026	4th WD – 9 Jan 2026 Resubmitted – 12 Jan 2026 5th WD – 27 Jan 2026 Resubmitted – 27 Feb 2026 6th WD – 4 Mar 2026 Resubmitted – 11 Mar 2026 7th WD – 26 Mar 2026 Resubmitted – 1 April 2026 Approved – 8 April 2026
Fire Fighting & Alarm Installation	FSSD	30 May 2026								
Mechanical Ventilation Installation	FSSD	15 May 2026								
Telephone Installation	TFCC	23 Aug 2024	27 Aug 2024	20 Sept 2024	21 Oct 2024	7 Feb 2025	10 Feb 2025	-	5 May 2025	3 Jun 2025
Broadband Co-axial Cable System (BCS) – NA (Discontinued)	Starhub Cable Vision	–	–	–	–	–	–	–	–	–

SECTION 4

PROGRAMME

4.3 Authority Submission Status for M&E Services (Amendments) – 2nd Submission – NOT APPLICABLE

Service	Authority	Original Submission		Comments/Resubmission						Approval/
		Scheduled	Actual	Comment	Resubmit	Comment	Resubmit	Comment	Resubmit	Clearance
Application for Electricity Supply	SP Services Ltd									
Power Supply Substation	SP PowerGrid Ltd									
Metering Layout	SP Services Ltd									
Sanitary Installation	PUB Water Reclamation (Network) Dept									
Domestic Water Supply	PUB (Water Supply) Network Dept									
Gas Supply Installation	City Gas Pte Ltd									
Air Conditioning & Ventilation Inst.	FSSD									
Fire Fighting & Alarm Installation	FSSD									
Telephone Installation	TFCC									
Broadband Co-axial Cable System (BCS) – NA (Discontinued)	Starhub Cable Vision									
Fuel Storage	FSSD									
	NEA (Pollution Control)									

SECTION 5

PROJECT RECORDS

5.1 List of Internal Files

Standard Files

File Ref:		File Ref:	
- Owner		- Architect	
- Authorities		- Other Consultants	
- Contractors		- CC	
- CF		- PQP/QSP	✓

Project Files to be initiated by PM as and when required

File Ref:		File Ref:		File Ref:	

(✓*where applicable*)

SECTION 5

PROJECT RECORDS

5.2 Filing of Drawings

The following team members shall take charge of filing of drawings, stamping "SUPERSEDED" drawings, etc.

Description	Team Member
Incoming Architectural Floor Plans	Softcopy saved in the server
Incoming Architectural Sketches/Details	
Incoming Structural Drawings	
M&E Drawings - Electrical Installation - Lift & Escalator Installation - Air Conditioning & Ventilation Installation - Fire Fighting & Alarm Installation - Plumbing & Sanitary Installation - Swimming Pool & Filtration Installation	
Other Drawings	

SECTION 6

INTERFACING

6.1 Method of Interface

Description	Method of Interface	
Client's Review & Approval	Pre-Management Review Briefing	✓
	Conceptual Briefing	✓
	Email and telephone	✓
Interface With External Design Teams	Design co-ordination meetings	✓
	Email and telephone	✓
Interface Between Internal Design Teams	Design Information saved in project folder	✓
	Internal Project Team Meeting	✓
	Email	✓

(✓*where applicable*)

SECTION 6

INTERFACING

6.2 Internal Design Interface – NOT APPLICABLE

Item No.	Description*	Required From	Required By	Date Required	Remarks

** Information required by INTERNAL DESIGN TEAM MEMBERS*

SECTION 6

INTERFACING

6.3 Circulation of Documents to External Parties

	Code: A - Approval Required C - For Comments I - For Information Only	Client/ Client Rep.	* Client's Project Manager	Architect	Structural Engineer	Quantity Surveyor	
1.	**Letters/Fax:**						
a.	Project Design	–	–	–	–	–	
b.	Project Administration						
c.	Project Cost Estimate/ Contract Cost	A	I	I	–	I	
2.	**Drawings**						
a.	Outline Design Drgs.	A	I	C	I	I	
b.	Sketch Design Drgs.	A	I	C	I	I	
c.	Final Design Drgs.	A	I	C	I	I	
d.	Shop Drawings	I	I	A	–	–	
e.	As Built Drgs.	I	I	I	–	–	
3.	**Other Document**						
a.	Specification						
b.	Tender Document						
c.	Tender Evaluation Report						
d.	Design Report						
e.	Progress Report	–	–	–	–	–	
f.	Financial Report	–	–	–	–	–	
g.	Minutes of Meeting	A	I	I	–	–	
h.	Inspection Report	I	I	I	–	–	
i.	Testing & Comm. Report	I	I	I	–	–	
j.	O & M Manual	I	I	I	–	–	

*Note: Applicable only, if the client engaged a Project Manager.

SECTION 7

WORK AUTHORISATION

Activity \ Authorised Signatories	PD	QP	PM	AE	SS
General Correspondences with Client			✓	✓	
General Correspondences with Other Consultants			✓	✓	
M&E Cost Estimate Report	✓	✓	✓		
M&E Design Report					
Check Prints		✓			
Tender Drawing Approval	✓	✓	✓		
Tender Specification Approval	✓	✓	✓		
List of Tenderers					
Tender Questionnaires					
Tender Reports					
Draft Letter of Award					
Review of Contractor's Shop Drawing			✓	✓	
Review of Contractor's Technical Submittal			✓	✓	
Review of Contractor's Sample Submittal			✓	✓	
Contractor's Request for Deviation		✓	✓		
Progress Payment Valuation Form	✓		✓		
Final Account Valuation	✓		✓		
Draft Variation Order	✓		✓		
Engineer/Architect's Instruction/Direction	✓		✓		
Site Instruction/Direction			✓		
Correspondence/Submission to Authorities	✓	✓			

(✓*where authorised*)

Key to abbreviations:-

PD : Project Director
QP : Qualified Person
PM : Project Manager/Assistant Project Manager
AE : Assistant Engineer
SS : ACEPL Site Staff

SECTION 8

DESIGN INPUT & METHODOLOGY

8.1 List of Client's Standards, Reference Documents or Brief

ITEM	KEPT BY
HDB Guide Drawings & Specification	Softcopy saved in the server
HDB M&E Checklist & Design Brief Requirement	Softcopy saved in the server

8.2 List of Applicable Code of Practice and Regulations

Services	Title of Code of Practice/Standard
Electrical Wiring	SS 638
Lightning Protection System	SS 555
Earthing	SS 551
Standby Generator System	SS 535
Emergency Voice Communication System	–
Air Conditioning & Ventilation Installation	–
Lift Installation	SS 550
Sprinkler System	SS CP 52
Dry/Wet Riser System	SS 575
Automatic Fire Alarm System	SS 645
Sanitary System	Code of Practice on Sewerage & Sanitary Works
Plumbing System	SS 636
Town Gas/LPG Supply System	SS 608
Boiler and Steam Supply System	–
Mechanical Smoke Control System	–

SECTION 8

DESIGN INPUT & METHODOLOGY

8.3 List of Design Guide or Handbook Used

Carrier's Handbook of Air Conditioning System Design

ASHRAE Handbooks

Institute of Plumbing's Plumbing Services Design Guide

The Vertical Transportation Handbook Third edition

8.4 List of Pre-Consultation and Waiver – NOT APPLICABLE

S/N	Description	Date of Application	Date of Approval	Remarks
1	*Clause number in Code of Practice for (Services) which require clarification or waiver. Consultation Ref No. Waiver Ref. No.			
2	*Clause number in Code of Practice for (Services) which require clarification or waiver. Consultation Ref No. Waiver Ref. No.			
3	*Clause number in Code of Practice for (Services) which require clarification or waiver. Consultation Ref No. Waiver Ref. No.			

*To fill in actual information

8.5 List of Applicable Quality System Procedures

Alpha Consulting Engineers Pte Ltd's Quality Management System Procedures

Section	Title	✓ where applicable
M1	Preparation of Consultancy Offer	✓
M2	Project Commissioning and Service Agreement	✓
M3	Design Control	✓
M4	Design Change Control	✓
M5	Tender Process and Evaluation	
M6	Authority Submission	✓
M7	Construction Process Control	✓
M8	Testing and Commissioning	✓
S1	Document Control	✓
S2	Documentation of Quality & Environmental Management System Procedure	✓
S3	Documentation of Project Quality Plan	✓
S4	Specification Control	
S5	Library Control	
S6	Archive Control	✓
S7	Filing Control	✓
S8	Drawing Control	✓
S9	Administration Control	✓
S10	Purchasing Control	
S11	Training Control	
S12	Computer Control	
S13	Non-Conformity and Corrective Action Procedures	✓
S14	Quality & Environmental System Audit	✓
S15	Feedback Reporting	✓
S16	Clients Feedback	✓
S17	Management Review	✓
S18	Risk Identification, Assessment & Control	✓

8.6 List of Software Used For Design/Analysis

DESCRIPTION/ PACKAGE NAME	VERSION	SUPPLIER/ SOURCE	PURPOSE	
Cophos	3.31	Zumtobel	Lighting design	
Carrier E20-II	3.21	Carrier	Programme for determination of heat load, duct size and its losses, etc.	
Gensize 2	2.1	Onan	Generator sizing	
Hyena	4.00.1	ACADS-BSG	Fire Sprinkler & Hydrant Analysis	
Dialux	4.11	Freeware	Lighting design	
Lift Traffic	7.18	Elevate	Lift traffic calculation	✓
Fault Level Calculation	11.11	ETAP	Calculation of fault level and voltage drop	

(✓*where applicable*)

SECTION 9

ENVIRONMENTAL CONSIDERATIONS

9.1 Sustainable Design Features/Criteria

Item	Remarks
Green Mark criteria	Gold Plus
Green Design Features	Refer to attached list

9.2 Site PPE Requirement

The necessary Personal Protective Equipment (detailed below) shall be provided by the main contractor/Company in accordance to the site EHS requirements prior to the site monitoring.

PPE	✓ where applicable
Safety Helmet	✓
Safety Shoes	✓
Eye Protection	
Ear Protection	
Safety Harness / Belt	
Others:	

9.3 Site Emergency Preparedness

Site staff shall comply with the site emergency preparedness and response procedure, established by the main contractor/owner, which shall include the following details.

Items	✓ where applicable
Evacuation Route	✓
Emergency Exit	✓
Assembly Point	✓
Emergency Contact List / Person	✓
Alarm system / methods	

List of Green Features

- CFD for ventilation and wind driven rain simulation modelling
- Smart LED lighting system at common areas & staircase
- Regenerative lifts
- Fuel cell system for lifts
- Dual bicycle rack system
- 15% EV lots each for both motorcycle and car
- Utilize Pneumatic Waste Collection System (PWCS)
- Smart private meters to monitor water & electricity usage in common areas
- 2 ticks shower mixer tap, basin mixer tap & bib tap
- Eco-pedestals to all Bath/WC of flats
- ABC water features
- Smart irrigation
- Smart Water Pump & Rainwater Sump Pump
- Smart Private Water Meter & Electrical Sub-Meter
- Provision of sheltered bicycle parking at 1lot:6 dwelling units

SECTION 9

ENVIRONMENTAL CONSIDERATIONS

9.4 Reporting of Environmental Non-conformances

When encountering environmental non-conformances, Site Staff shall be responsible to feedback to the main contractor.

9.5 List of Applicable Environmental Management System Procedures

Alpha Consulting Engineers Pte Ltd's Environmental Management System Procedures

Section	Title	✓ where applicable
E1	Aspect / Impact Identification, Risk Assessment & Risk Control	✓
E2	Identifying Legal & Other Requirements	✓
E3	Objectives, Targets & Programmes	✓
E4	Communication	✓
E5	Emergency Preparedness & Response	✓
E6	Monitoring & Measurement	✓
E7	Control of Air & Noise Pollution	✓
E8	Management of Wastes	✓

SECTION 10

CLIENT'S REQUIREMENTS

10.1 List of Output Required by Client:

Item	* Remarks
M&E Design Report	–
M&E Cost Estimate Report	A
Pre-Qualification of Tenderers	–
Tender Documents	–
Tender Report	–
Payment Valuation for QS	A
Certificates of Supervision for TOP/CSC	RE

* *Remarks*

A: for approval *C: for comment* *I: for Information* *Re: for record*

Other purposes and for action: please specify.

10.2 Specific Procedures Required By Client *(If applicable)*

NOT APPLICABLE

SECTION 11

LIST OF SUB-JOB

11.1 List of Sub-Job Numbers – NOT APPLICABLE

Sub Job No	Description	Allocation Details