Alpha
Consulting Engineers Pte Ltd

PROJECT QUALITY PLAN

SENJA PARC VIEW

For

HOUSING & DEVELOPMENT BOARD

Copy No.	1

Prepared By: Yip Yoke Fun

Authorised By: Loh Fook Yuen

Date: 8 November 2013

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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	6129-PQP	8 November 2013

1.2 Revision Record

Revision	Date of Issue	Section Reference	Page(s)	Remarks
0	11 January 2011	1 to 11	28	-
1	30 April 2012	1 to 11	28	+18pgs (Section 4.1 Overall Programme) +1 pg (Section 9.1 Sustainable Design Features/Criteria)
2	6 March 2013	1 to 11	29	-+18pgs (Section 4.1 Overall Programme) +1 pg (Section 9.1 Sustainable Design Features/Criteria)
3	8 November 2013	1 to 11	29	+18pgs (Section 4.1 Overall Programme) +1 pg (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	25,851.97
Nett Floor Area, m²	-
Gross Floor Area, m²	58,712.45
Covered Carpark, m²	10078
No. of Covered Carpark Lots	334
No. of Apartments/Houses	577
No. of Beds (for Hospitals)	-
No. of Guestroom (for Hotels)	-
No. of Blocks / No. of Storeys	1 Block of 29-Storey and 2 Blocks of 27-Storey
Green Mark Category	Gold
No. of Phases	-

2.2 Project Cost

M&E Services Cost Plan (S$ x 1M)										
Services	EI	ACVI	LEI	FFAI	PSI	SPFI				
Estimate	5.45	-	-	1.85	4.4	-				
Awarded	2.68	-	1.12	1.16	2.94	-				

Total Project Construction Cost (S$ x1M)			
	Site Clearance	Piling Works	Main Contract
Estimate		Included	86.92
Awarded		12.28	61.02

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

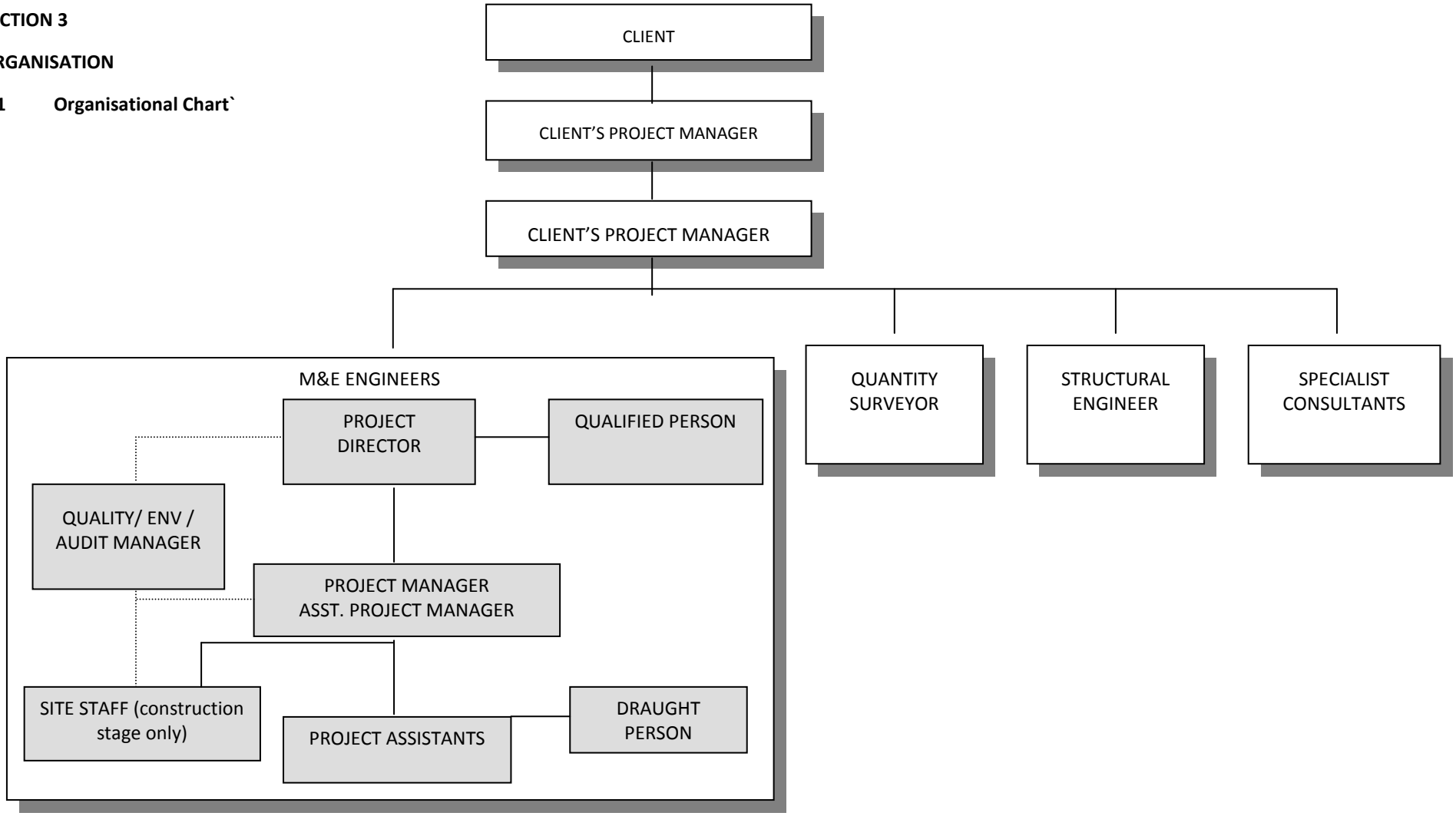
EJECTOR & DIVERTER		SUMP PUMP		FUEL OIL TANK		LIFT & ESCALATOR	✓	PRESSURE VESSEL	✓	HOISTS		FOAM	

(✓*where applicable*)

SECTION 3

ORGANISATION

3.1 Organisational Chart`



SECTION 3

ORGANISATION

3.2 ACEPL's Project Team Member

TITLE		NAME
Project Director		Goh Soon Huat (GSH)
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)		Ericson A Dee (EAD)
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 2043

Fax:- 6490 2080

Client's Representatives:-

Name of Company	Contact Person	Contact
Housing & Development Board	Name: Mr Lim Seam Teong Position: Principal Engineer	Tel: 6490 3121 Fax: Email: Lst5@hdb.gov.sg
	Name: Position:	Tel: 6490 3121 Fax: - Handphone: - Email:
	Name: Position:	Tel: Fax: Handphone: Email:
	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 3PA International	Name: Mr Lek Teck Ban Position: Associate	Tel: 6325 2160 Fax: 6222 2982 Handphone: 9758 5890 Email: e182@3pa.international.com
Quantity Surveyor WT Partnership (S) Pte Ltd	Name: Mr Lim Swee Meng Position: Senior Associate	Tel: 6533 0822 Fax: 6533 2833 Handphone: - Email: lim.sweemeng@wtpartnership.com
Structural Engineer DE Consultants (S) Pte Ltd	Name: Er Raymond Chua Position: Director	Tel: 6227 3900 ext 24 Fax: 6227 2909 Handphone: - Email: Raymond.chua@de-consultants.com
Interior Designer	Name: Position:	Tel: Fax: Handphone: Email:
Lighting Consultant	Name: Position:	Tel: Fax: Handphone: Email:
Acoustic Consultant	Name: Position:	Tel: Fax: Handphone: Email:
Landscape Consultant Tuilin Designs Pte Ltd	Name: Mr Russell Sim Position: Principal	Tel: 6287 0449 Fax: - Handphone: 9678 1468 Email: tuilindesigns@gmail.com
_____	Name: Position:	Tel: Fax: Handphone: Email:

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

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 Vigcon Construction Pte Ltd		Name: Mr Faizal Position: Project Manager	Tel: 6841 2861 Fax: 6841 2865 Handphone: 9660 7012 Email: faizal@vigcon.com.sg
Air Conditioning & Ventilation Installation Sub-Contractor -	-	Name: Position:	Tel: - Fax: - Handphone: - Email: -
Plumbing & Sanitary Installation Sub-Contractor Amos Engineering Pte Ltd	DSC	Name: Mr Amos Tan Position: Managing Director	Tel: 6383 0703 Fax: 6383 3726 Handphone: Email: amos@amoseng.com.sg
Electrical Installation Sub-Contractor Vigtec Engineering Pte Ltd	DSC	Name: Mr Alan Koh Position: Director	Tel: 6245 8965 Fax: 6245 6243 Handphone: 9623 7665 Email: info@vigtec.com.sg
Lift & Escalator Installation Sub-Contractor Chevalier Singapore Holdings Pte Ltd	DSC	Name: Mr Muhammad Dilshad Position: Project Manager	Tel: 6273 2266 Fax: 6747 2988 Handphone: 9639 9622 Email: dilshad@chevalier.com.sg
Fire Fighting & Alarm Installation Sub-Contractor Amos Engineering Pte Ltd	DSC	Name: Mr Amos Tan Position: Managing Director	Tel: 6383 0703 Fax: 6383 3726 Handphone: Email: amos@amoseng.com.sg
Swimming Pool Filtration Plant Installation Sub-Contractor -	-	Name: - Position: -	Tel: - Fax: - Handphone: - Email: -
Carpark System Installation Sub-Contractor -	-	Name: - Position: -	Tel: - Fax: - Handphone: - Email: -
_____		Name: - Position: -	Tel: - Fax: - Handphone: - Email: -

** 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 Francis Chong / Mr Koh Liang Hock	6823 8555/ 6283 8553
(b) Diversion		
SP Services:		
(a) Customer Supply	Mr Liong Chee Wei	6823 8794/6823 8289
(b) Installation		
(c) Meter Section		
(d) Road Lighting		
TFCC:		
(a) SCV	Mr Francis Goh	6825 6429
(b) SingTel	Mr Lee Chong Beng	9649 7719
(c) IDA	Mr Lee Him Buan	9653 1397
BCA:		
(a) Building Plan		
FSSD:		
(a) Building Plan	Mr Abdul Jalil B. Abu Hassan	6848 1419
(b) M&E Plan	Mr Lau Heng Hui	6848 1413/6848 1490
PUB (Water Supply) Network Dept:		
(a) Water Conservation	Mr Toh Tse Teck	6885 2466
(b) Plumbing Plan	Ms Cheng Kia Yin/Ms Norain Binte Dalail	673 3683/6885 2464
(c) Diversion		
PUB Water Reclamation (Network) Dept:		
(a) Building Plan/CBPU	Mr Low Boon Hong, Arron	6732 7733/6731 9725
(b) M&E Plan		
(c) Diversion		
City Gas Pte Ltd:		
(a) Planning/Submission	Mr Soo Cheong Kwai / Mr Liew Khee Boon	6578 7812 / 6578 7603
(b) Installation/Inspection	Mr Kamarulzaman	9002 9811
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)

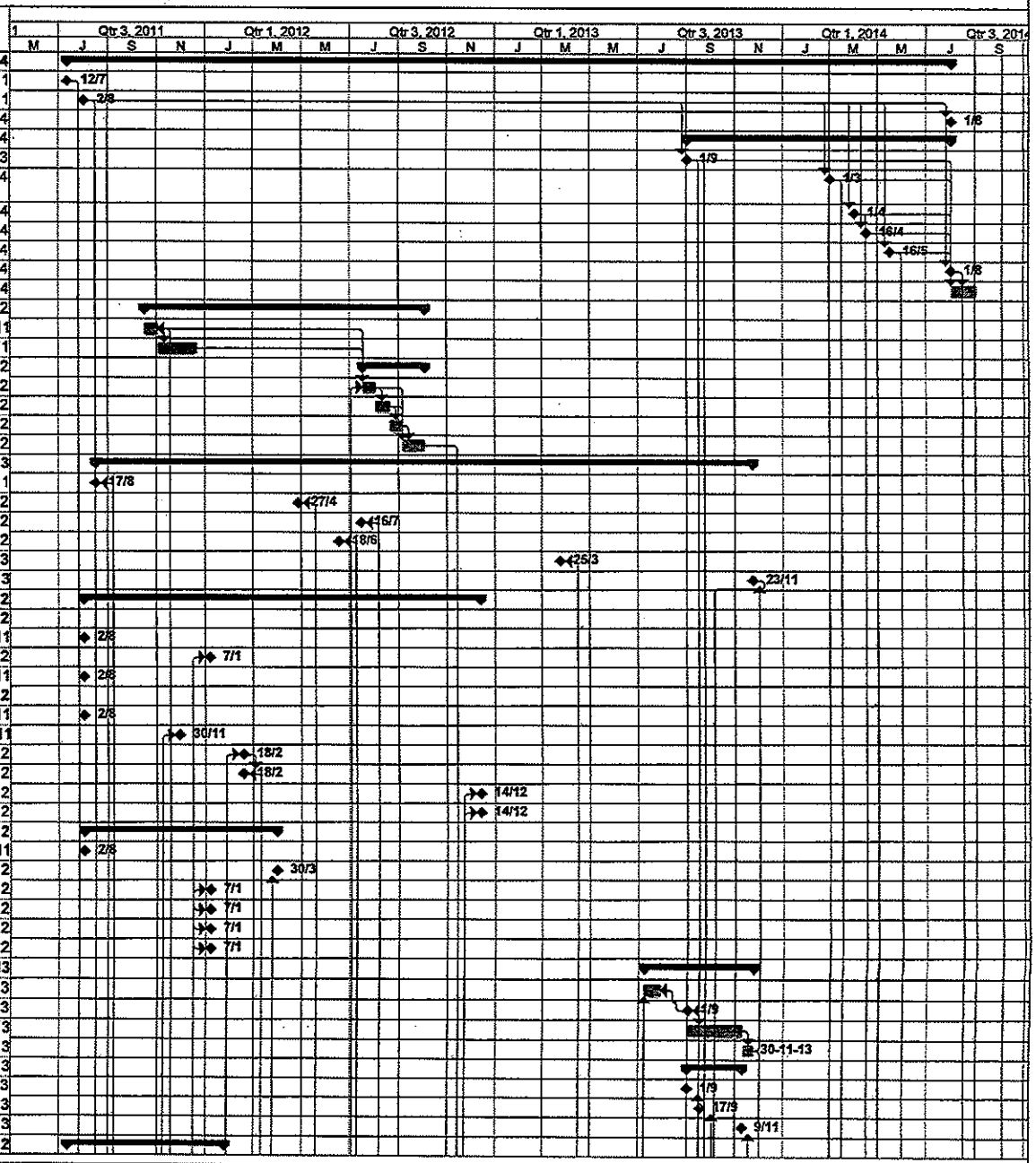
ID	TASK NAME	MONTHS	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
1.	Preliminary Planning																									
2.	Planning Submission																									
3.	Detail Design																									
4.	BP Submission																									
5.	BP Submission (Amendments)																									
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																									

PR OSED ERECTION OF PUBLIC HOSING DEVELO ENT
AT SENJA ROAD FOR BUKIT PANJANG NEIGHBOURHOOD 6 CONTRACT 11

MASTER CONSTRUCTION PROGRAMME

CONSULTANTS

ID	Task Name	Duration	Start	Finish
1	PROJECT DURATION (36 MONTHS) - N6C11	950 days	Tue 12/7/11	Fri 1/8/14
2	- Letter of Award	0 days	Tue 12/7/11	Tue 12/7/11
3	- Project Commencement Date	0 days	Tue 2/8/11	Tue 2/8/11
4	- Project Completion Date	0 days	Fri 1/8/14	Fri 1/8/14
5	PHASES COMPLETION DATES	285 days	Sun 1/9/13	Fri 1/8/14
6	Phase 1 - Electrical Sub-Station at Block 636	0 days	Sun 1/9/13	Sun 1/9/13
7	Phase 2 - Block 636 MSCP including linkbridge to Neighbourhood Park	0 days	Sat 1/3/14	Sat 1/3/14
8	Phase 3 - Block 636B	0 days	Tue 1/4/14	Tue 1/4/14
9	Phase 4 - Block 636C and minor sewer works	0 days	Wed 16/4/14	Wed 16/4/14
10	Phase 5 - Block 636A and site External Works	0 days	Fri 16/5/14	Fri 16/5/14
11	Phase 6 - Neighbourhood Park	0 days	Fri 1/8/14	Fri 1/8/14
12	PROJECT COMPLETION	27 days	Sat 2/8/14	Tue 2/9/14
13	SCHEDULE OF SPECIFIC WORKS	301 days	Mon 17/10/11	Wed 3/10/12
14	Timber Mock-up for Toilet and Kitchen	2.5 wks	Mon 17/10/11	Wed 2/11/11
15	Timber Mock-up appoval date	7 wks	Thu 3/11/11	Wed 21/12/11
16	Sample units	66 days	Wed 18/7/12	Wed 3/10/12
17	636A #03-307	14 days	Wed 18/7/12	Thu 2/8/12
18	636A #03-309	14 days	Fri 3/8/12	Mon 20/8/12
19	636C #03-335	14 days	Tue 21/8/12	Wed 5/9/12
20	Approval of all sample units	4 wks	Thu 6/9/12	Wed 3/10/12
21	AUTHORITY PERMIT	707 days	Wed 17/8/11	Sat 23/11/13
22	- Permit to commence Piling works	0 days	Wed 17/8/11	Wed 17/8/11
23	- BCA ST approval on Sub-Structure Works	0 days	Fri 27/4/12	Fri 27/4/12
24	- BCA ST approval on Super-Structure Works	0 days	Mon 16/7/12	Mon 16/7/12
25	- Receive PowerGrid Approved Drawings	0 days	Mon 18/6/12	Mon 18/6/12
26	- Permit for Culvert Works	0 days	Mon 25/3/13	Mon 25/3/13
27	- Open PUB Account	0 days	Sat 23/11/13	Sat 23/11/13
28	Working Drawing issuing by Consulants	426 days	Tue 2/8/11	Fri 14/12/12
29	Architecture Drawing	135 days	Tue 2/8/11	Sat 7/1/12
30	Working Drawings	0 days	Tue 2/8/11	Tue 2/8/11
31	FSSB Approved Drawings	0 days	Sat 7/1/12	Sat 7/1/12
32	Neighbourhood Parks	0 days	Tue 2/8/11	Tue 2/8/11
33	C&S Construction Drawing	426 days	Tue 2/8/11	Fri 14/12/12
34	Piling Drawings	0 days	Tue 2/8/11	Tue 2/8/11
35	Pile Caps Drawings	0 days	Wed 30/11/11	Wed 30/11/11
36	Sub-Structure Drawings	0 days	Sat 18/2/12	Sat 18/2/12
37	Super-Structure Drawings	0 days	Sat 18/2/12	Sat 18/2/12
38	External Structures Drawings	0 days	Fri 14/12/12	Fri 14/12/12
39	External Works Drawings	0 days	Fri 14/12/12	Fri 14/12/12
40	M&E Drawings	207 days	Tue 2/8/11	Fri 30/3/12
41	M&E Contract Drawing	0 days	Tue 2/8/11	Tue 2/8/11
42	SP Power approved drawings cum underground cables	0 days	Fri 30/3/12	Fri 30/3/12
43	Main Telephone System cum underground cables	0 days	Sat 7/1/12	Sat 7/1/12
44	Fire Hydrant System	0 days	Sat 7/1/12	Sat 7/1/12
45	House Sewer and Main Sewer	0 days	Sat 7/1/12	Sat 7/1/12
46	Main Water System	0 days	Sat 7/1/12	Sat 7/1/12
47	PowerGrid Sub-Station	120 days	Mon 8/7/13	Sat 23/11/13
48	1st Inspection include rectification work	3 wks	Mon 8/7/13	Mon 29/7/13
49	Builder Completed and hand-over to PowerGrid	0 days	Sun 1/9/13	Sun 1/9/13
50	PowerGrid Turn-on Power to sub-Station	10 wks	Mon 2/9/13	Sat 9/11/13
51	Power Turn-on to CSR	2 wks	Mon 11/11/13	Sat 23/11/13
52	Handing Over of MDF/TER	61 days	Sun 1/9/13	Sat 9/11/13
53	Blk636B MDF, includes 2wk of rectification works	0 days	Sun 1/9/13	Sun 1/9/13
54	Blk636C TER, includes 2wks of rectification works	0 days	Tue 17/9/13	Tue 17/9/13
55	Blk 636A TER, includes 2wks of rectification works	0 days	Sat 9/11/13	Sat 9/11/13
56	SITE PREPARATION & PRELIMINARIES	168 days	Tue 12/7/11	Tue 24/1/12

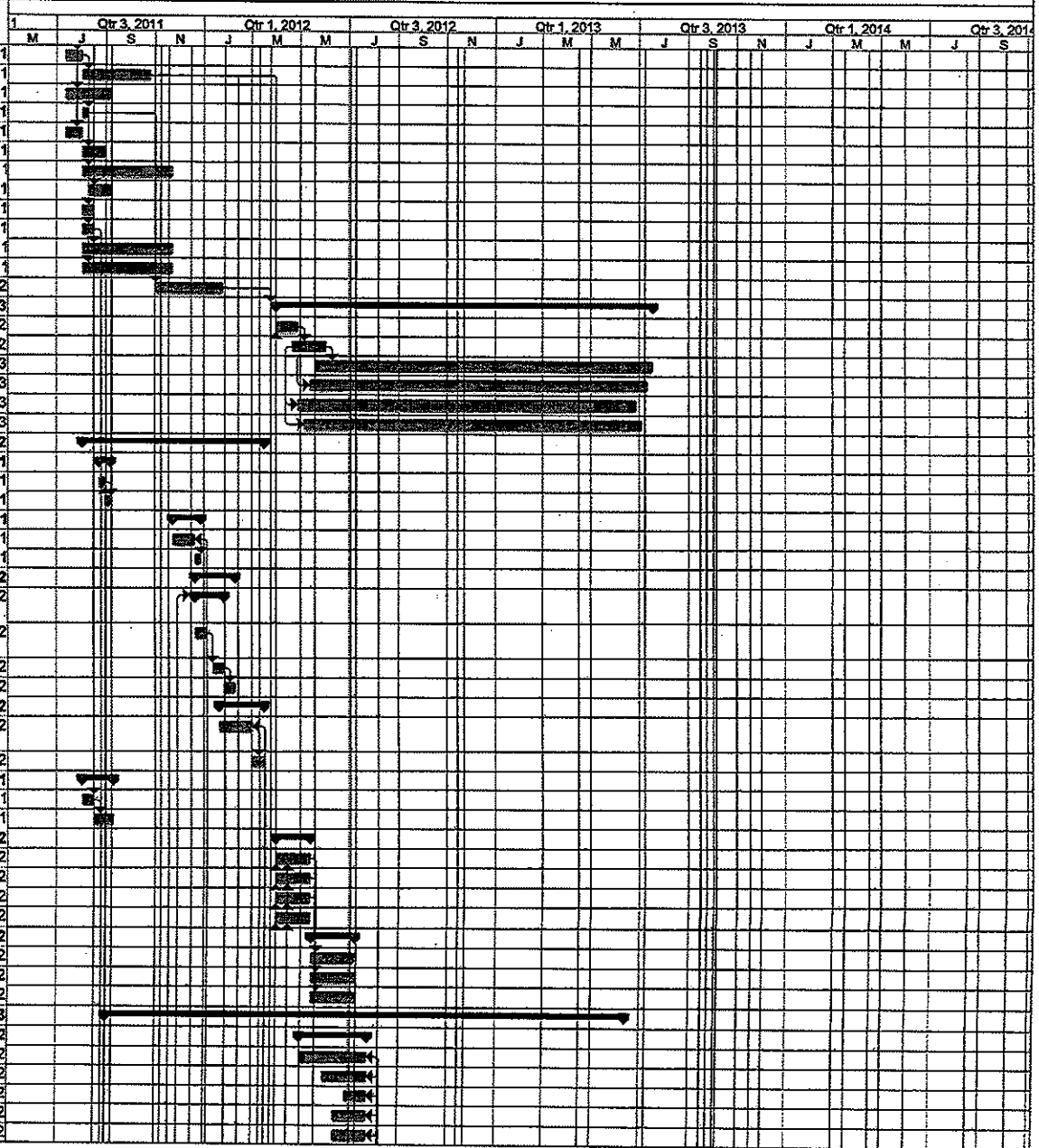


VIGCON CONSTRUCTION PTE LTD
33 SENANG CRESCENT SINGAPORE 416604
TEL: 6841 2861 FAX: 6841 2885

PF OSED ERECTION OF PUBLIC HOSING DEVELC IENT
AT SENJA ROAD FOR BUKIT PANJANG NEIGHBOURHOOD 6 CONTRACT 11
MASTER CONSTRUCTION PROGRAMME

CONSULTANTS

ID	Task Name	Duration	Start	Finish
57	- Site Possession	3 wks	Tue 12/7/11	Mon 1/8/11
58	- Site Office Erection	12 wks	Tue 2/8/11	Tue 25/10/11
59	- Setting up Site Amenities (toilets, genset etc)	8 wks	Tue 12/7/11	Tue 6/9/11
60	- Factory Permit Submission and Approval	1 wk	Tue 2/8/11	Mon 8/8/11
61	- Insurance	3 wks	Tue 12/7/11	Mon 1/8/11
62	- Temp. Access Construction	4 wks	Tue 2/8/11	Tue 30/8/11
63	- Earth Control Measures temporary facilities	16 wks	Tue 2/8/11	Tue 22/11/11
64	- Cable Detection Report	4 wks	Wed 10/8/11	Tue 6/9/11
65	- Pre-condition Survey	2 wks	Tue 2/8/11	Tue 16/8/11
66	- Pre-computation Plan, TBMs, Boundary setting out etc	2 wks	Tue 2/8/11	Tue 16/8/11
67	- Temporary Water application	16 wks	Tue 2/8/11	Tue 22/11/11
68	- Temporary power supply application	16 wks	Tue 2/8/11	Tue 22/11/11
69	- Tower cranes application (MOM)	12 wks	Wed 2/11/11	Tue 24/1/12
70	**Tower Crane Erection**	**401 days**	**Sat 31/3/12**	**Wed 17/7/13**
71	Piling for Tower Cranes	4 wks	Sat 31/3/12	Fri 27/4/12
72	Tower crane footing	6 wks	Fri 20/4/12	Fri 1/6/12
73	Tower crane no. 1 (Block 636B)	60 wks	Sat 19/5/12	Wed 17/7/13
74	Tower crane no. 2 (Block 636C)	60 wks	Sat 12/5/12	Wed 10/7/13
75	Tower crane no. 3 (Block 636A)	60 wks	Fri 27/4/12	Wed 26/6/13
76	Tower crane no. 4 (Block 636MSCP)	60 wks	Sat 5/5/12	Wed 3/7/13
77	**METHOD STATEMENT SUBMISSION & APPROVAL**	**194 days**	**Tue 2/8/11**	**Thu 15/3/12**
78	**Piling Works**	**12 days**	**Tue 23/8/11**	**Mon 5/9/11**
79	- Submit Method Statement for Piling Works	1 wk	Tue 23/8/11	Mon 29/8/11
80	- Obtain Approval	1 wk	Tue 30/8/11	Mon 5/9/11
81	**Instrumentation**	**30 days**	**Wed 23/11/11**	**Tue 27/12/11**
82	- Submit Method Statement for Instrumentation	4 wks	Wed 23/11/11	Wed 21/12/11
83	- Obtain Approval	1 wk	Wed 21/12/11	Tue 27/12/11
84	**Temporary Shoring Works**	**43 days**	**Wed 21/12/11**	**Wed 8/2/12**
85	- Submit Method Statement for Temporary Shoring Works	31 days	Wed 21/12/11	Wed 25/1/12
86	ST7- MSCP Slope Analysis and Open cut for pile cap for 636A,636B & 636C	2 wks	Wed 21/12/11	Tue 3/1/12
87	ST8- Slope Analysis for 636B	2 wks	Thu 12/1/12	Wed 25/1/12
88	- Obtain Approval	2 wks	Thu 26/1/12	Wed 8/2/12
89	**PE Design for Retaining Wall**	**48 days**	**Fri 20/1/12**	**Thu 15/3/12**
90	- Submit Method Statement for Temporary Shoring Works	6 wks	Fri 20/1/12	Fri 2/3/12
91	- Obtain Approval	2 wks	Fri 2/3/12	Thu 15/3/12
92	**Earthworks Excavation**	**33 days**	**Tue 2/8/11**	**Fri 9/9/11**
93	- Submit Method Statement for Earthworks /excavation	2 wks	Tue 2/8/11	Tue 16/8/11
94	- Obtain Approval	21 days	Wed 17/8/11	Fri 9/9/11
95	**Sample/ Catalogues Submission**	**36 days**	**Sat 31/3/12**	**Sat 12/5/12**
96	- Electrical	6 wks	Sat 31/3/12	Sat 12/5/12
97	- Sanitary Wares	6 wks	Sat 31/3/12	Sat 12/5/12
98	- Tiles	6 wks	Sat 31/3/12	Sat 12/5/12
99	- Landscaping Works	6 wks	Sat 31/3/12	Sat 12/5/12
100	**Procurement**	**48 days**	**Mon 14/5/12**	**Sat 7/7/12**
101	- Electrical	8 wks	Mon 14/5/12	Sat 7/7/12
102	- Sanitary Wares	8 wks	Mon 14/5/12	Sat 7/7/12
103	- Tiles	8 wks	Mon 14/5/12	Sat 7/7/12
104	**Shop drawings Submission**	**554 days**	**Wed 31/8/11**	**Wed 12/6/13**
105	**Architecturall Trades**	**72 days**	**Mon 30/4/12**	**Tue 24/7/12**
106	Aluminium works	12 wks	Mon 30/4/12	Tue 24/7/12
107	Ferrolite Drywall	8 wks	Tue 29/5/12	Tue 24/7/12
108	Brickworks	4 wks	Tue 26/6/12	Tue 24/7/12
109	Timber doors	6 wks	Tue 12/6/12	Tue 24/7/12
110	Metal doors/Aluminium doors/louvres	6 wks	Tue 12/6/12	Tue 24/7/12



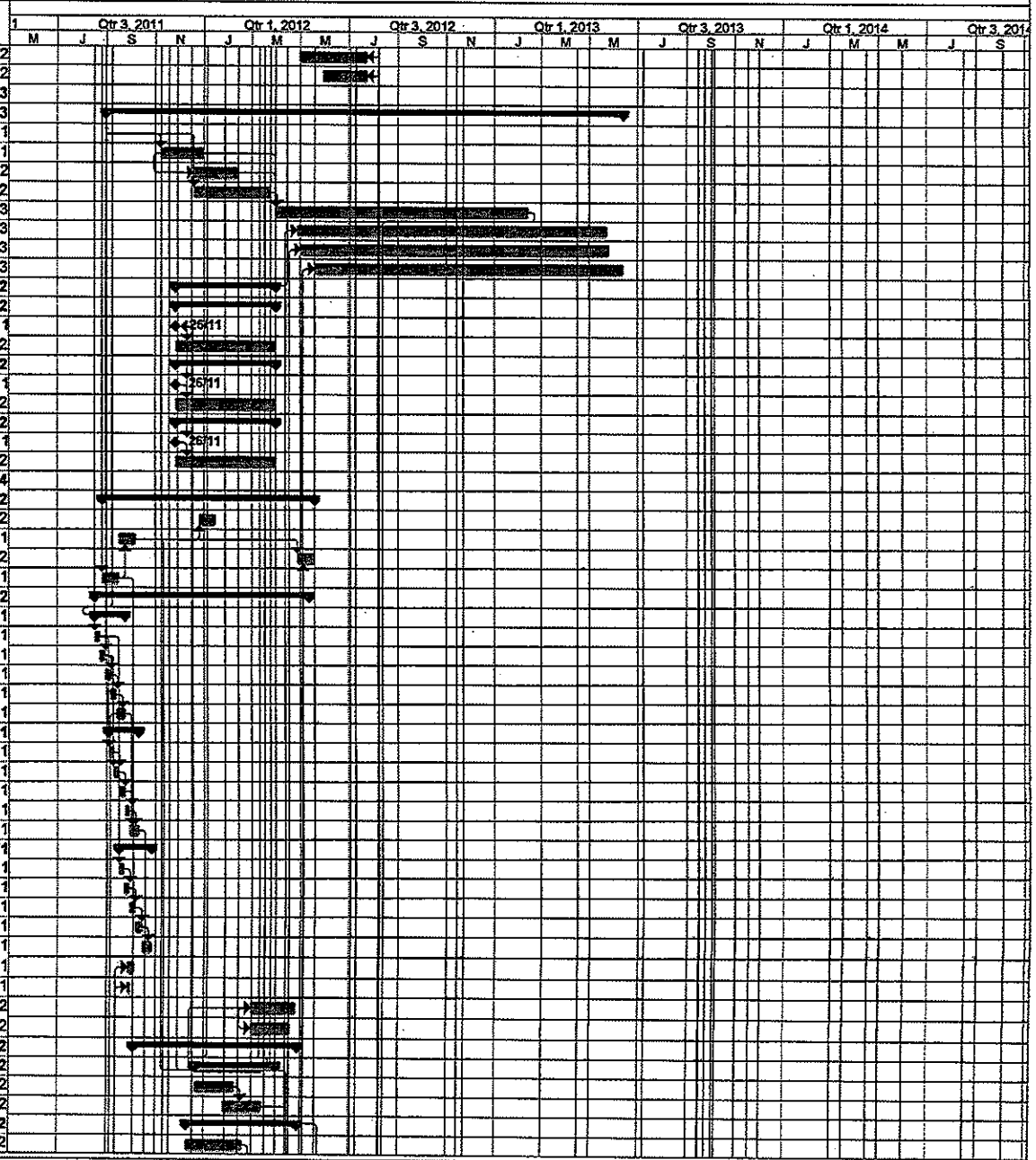
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PR OSED ERECTION OF PUBLIC HOSING DEVELC ENT
AT SENJA ROAD FOR BUKIT PANJANG NEIGHBOURHOOD 6 CONTRACT 11

MASTER CONSTRUCTION PROGRAMME

CONSULTANTS

ID	Task Name	Duration	Start	Finish
111	Tiles, Marbles, granites	12 wks	Mon 30/4/12	Tue 24/7/12
112	Ironmongeries	8 wks	Tue 29/5/12	Tue 24/7/12
113	**Structural Trades**	554 days	Wed 31/8/11	Wed 12/6/13
114	**Precast elements**	554 days	Wed 31/8/11	Wed 12/6/13
115	Award Supplier/subcontractor	1 day	Wed 31/8/11	Wed 31/8/11
116	Shop drawing submission	8 wks	Mon 7/11/11	Sat 31/12/11
117	Approval of Shop drawing	8 wks	Mon 19/12/11	Sat 11/2/12
118	Sample approval & Mould making	14 wks	Mon 19/12/11	Sat 24/3/12
119	Fabrication and delivery (Block 636)	45 wks	Fri 30/3/12	Tue 12/2/13
120	Fabrication and delivery (Block 636B)	55 wks	Fri 27/4/12	Wed 22/5/13
121	Fabrication and delivery (Block 636C)	55 wks	Wed 2/5/12	Sat 25/5/13
122	Fabrication and delivery (Block 636A)	55 wks	Sat 19/5/12	Wed 12/6/13
123	**M&E Trades**	108 days	Sat 26/11/11	Fri 30/3/12
124	**Plumbing, Sanitary & gas**	108 days	Sat 26/11/11	Fri 30/3/12
125	Award subcontractor	0 days	Sat 26/11/11	Sat 26/11/11
126	Shop drawings submission and approval	18 wks	Sat 26/11/11	Fri 30/3/12
127	**Electrical and security**	108 days	Sat 26/11/11	Fri 30/3/12
128	Award subcontractor	0 days	Sat 26/11/11	Sat 26/11/11
129	Shop drawings submission and approval	18 wks	Sat 26/11/11	Fri 30/3/12
130	**Fire Protection**	108 days	Sat 26/11/11	Fri 30/3/12
131	Award subcontractor	0 days	Sat 26/11/11	Sat 26/11/11
132	Shop drawings submission and approval	18 wks	Sat 26/11/11	Fri 30/3/12
133	**CONSTRUCTION**	975 days	Wed 17/8/11	Sat 4/10/14
134	**Area Excavaion Works to Platform Level**	228 days	Fri 26/8/11	Fri 18/5/12
135	Block 636	3 wks	Mon 26/12/11	Sat 14/1/12
136	Block 636C	3 wks	Fri 16/9/11	Thu 6/10/11
137	Block 636B	3 wks	Fri 27/4/12	Fri 18/5/12
138	Block 636A	3 wks	Fri 26/8/11	Thu 15/9/11
139	**Bore Piling Works**	230 days	Wed 17/8/11	Fri 11/5/12
140	Ultimate Load Tests (iULT 3)	33 days	Wed 17/8/11	Fri 23/9/11
141	mobilization	5 days	Wed 17/8/11	Mon 22/8/11
142	Install bored pile	6 days	Tue 23/8/11	Mon 29/8/11
143	Curing	7 days	Tue 30/8/11	Tue 6/9/11
144	Prepare Kentledge	7 days	Mon 5/9/11	Mon 12/9/11
145	Ultimate Load Tests	10 days	Tue 13/9/11	Fri 23/9/11
146	**Ultimate Load Tests 2 (iULT 1)**	32 days	Sat 3/9/11	Mon 10/10/11
147	mobilization	5 days	Sat 3/9/11	Thu 8/9/11
148	Install bored pile	6 days	Fri 9/9/11	Thu 15/9/11
149	Curing	7 days	Fri 16/9/11	Fri 23/9/11
150	Prepare Kentledge	4 days	Sat 24/9/11	Wed 28/9/11
151	Ultimate Load Tests	10 days	Thu 29/9/11	Mon 10/10/11
152	**Ultimate Load Tests 3 (iULT 2)**	35 days	Fri 16/9/11	Wed 26/10/11
153	mobilization	5 days	Fri 16/9/11	Wed 21/9/11
154	Install bored pile	6 days	Thu 22/9/11	Wed 28/9/11
155	Curing	7 days	Thu 29/9/11	Thu 6/10/11
156	Prepare Kentledge	7 days	Fri 7/10/11	Fri 14/10/11
157	Ultimate Load Tests	10 days	Sat 15/10/11	Wed 26/10/11
158	Installation of Vibration detection device	7 days	Tue 27/9/11	Tue 4/10/11
159	Installation of Noise instruments	3 days	Tue 27/9/11	Thu 29/9/11
160	Working Load Test	8 wks	Wed 29/2/12	Tue 24/4/12
161	PDA Test	7 wks	Wed 29/2/12	Tue 17/4/12
162	**Install Piles**	177 days	Tue 4/10/11	Thu 26/4/12
163	**Block 636 (MSCP), 108 piles**	87 days	Wed 21/12/11	Fri 30/3/12
164	Phase 1 - piling work proceed without TERS	7 wks	Wed 21/12/11	Tue 7/2/12
165	Phase 2 - Upon TERS approval	7 wks	Wed 25/1/12	Tue 13/3/12
166	**Block 636B, 159 piles**	119 days	Sat 10/12/11	Thu 26/4/12
167	Wing A (outsite from Forrest)	10 wks	Sat 10/12/11	Fri 17/2/12



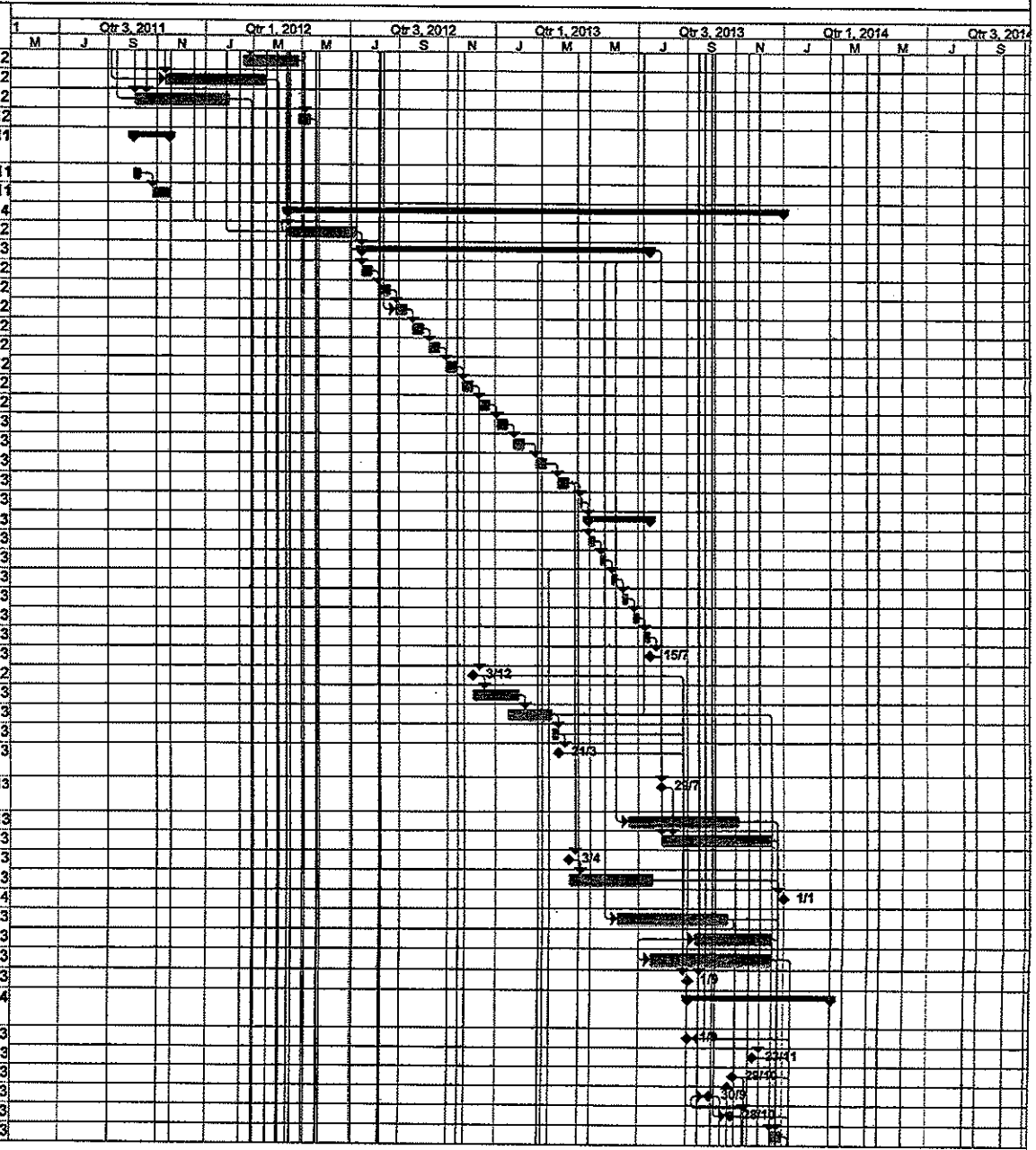
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PF OSED ERECTION OF PUBLIC HOSING DEVELO IENT
AT SENJA ROAD FOR BUKIT PANJANG NEIGHBOURHOOD 6 CONTRACT 11

MASTER CONSTRUCTION PROGRAMME

CONSULTANTS

ID	Task Name	Duration	Start	Finish
168	Wing B (on the existing slope)	10 wks	Fri 17/2/12	Thu 26/4/12
169	Block 636C, 159 piles	18 wks	Fri 11/11/11	Thu 15/3/12
170	Block 636A, 142 piles	17 wks	Tue 4/10/11	Mon 30/1/12
171	Install Temporary Sheet pile	2 wks	Fri 27/4/12	Fri 11/5/12
172	**Examination Period from West Spring Secondary School**	**39 days**	**Mon 3/10/11**	**Wed 16/11/11**
173	GCE N Level	8 days	Mon 3/10/11	Tue 11/10/11
174	GCE O Level	18 days	Thu 27/10/11	Wed 16/11/11
175	**BLOCK 636 MSCP**	**531 days**	**Sat 14/4/12**	**Wed 1/1/14**
176	Sub-Structure Works	12 wks	Sat 14/4/12	Sat 7/7/12
177	Super-Structure Works	309 days	Mon 16/7/12	Mon 15/7/13
178	Deck 1A	2 wks	Mon 16/7/12	Sat 28/7/12
179	Deck 1B	2 wks	Mon 6/8/12	Mon 20/8/12
180	Deck 2A	2 wks	Tue 28/8/12	Mon 10/9/12
181	Deck 2B	2 wks	Tue 18/9/12	Mon 1/10/12
182	Deck 3A	2 wks	Tue 9/10/12	Mon 22/10/12
183	Deck 3B	2 wks	Tue 30/10/12	Mon 12/11/12
184	Deck 4A	2 wks	Tue 20/11/12	Mon 3/12/12
185	Deck 4B	2 wks	Tue 11/12/12	Mon 24/12/12
186	Deck 5A	2 wks	Thu 3/1/13	Wed 16/1/13
187	Deck 5B	2 wks	Thu 24/1/13	Wed 6/2/13
188	Lower Roof Level	2 wks	Thu 21/2/13	Wed 6/3/13
189	Upper Roof Level	2 wks	Thu 21/3/13	Wed 3/4/13
190	Remove TC4 - MSCP	3 days	Thu 18/4/13	Sat 20/4/13
191	**Balance of structural for MSCP**	**66 days**	**Mon 29/4/13**	**Mon 15/7/13**
192	Deck 1B	1 wk	Mon 29/4/13	Mon 6/5/13
193	Deck 2B	1 wk	Tue 14/5/13	Mon 20/5/13
194	Deck 3B	1 wk	Tue 28/5/13	Mon 3/6/13
195	Deck 4B	1 wk	Tue 11/6/13	Mon 17/6/13
196	Deck 5B	1 wk	Tue 25/6/13	Mon 1/7/13
197	Upper Roof Level	1 wk	Tue 9/7/13	Mon 15/7/13
198	Complete MSCP C&S Works	0 days	Mon 15/7/13	Mon 15/7/13
199	Complete ESS C&S Works	0 days	Mon 3/12/12	Mon 3/12/12
200	ESS Finishing Works	8 wks	Tue 4/12/12	Wed 30/1/13
201	ESS M&E Works	8 wks	Thu 17/1/13	Wed 13/3/13
202	Hoard up of 636 ESS for hand over	7 days	Thu 14/3/13	Thu 21/3/13
203	Phase 1 - Electrical Sub-Station at Block 636 / Handing over of ESS (PACD)	0 days	Thu 21/3/13	Thu 21/3/13
204	Handover M&E Risers for Sub-contractors to complete the M&E works	0 days	Mon 29/7/13	Mon 29/7/13
205	CarPark Finishing Works	20 wks	Tue 18/6/13	Mon 4/11/13
206	CarPark M&E Works	20 wks	Tue 30/7/13	Mon 16/12/13
207	Hand over Lift Shaft to Lift Contractor	0 days	Wed 3/4/13	Wed 3/4/13
208	Lift Installation including testing & Brick laying	15 wks	Thu 4/4/13	Thu 18/7/13
209	Lift Contract end at 01-01-14	0 days	Wed 1/1/14	Wed 1/1/14
210	Linkbridge/Linkway C&S Works	20 wks	Tue 4/6/13	Mon 21/10/13
211	Linkbridge/Linkway Finishing Works	14 wks	Tue 10/9/13	Mon 16/12/13
212	Linkbridge/Linkway M&E Works	22 wks	Tue 16/7/13	Mon 16/12/13
213	Phase 1 - Electrical Sub-Station at Block 636 (OCD)	0 days	Sun 1/9/13	Sun 1/9/13
214	**Block 636 MSCP Testing & Commissioning and Authorities Inspection**	**154 days**	**Sun 1/9/13**	**Sat 1/3/14**
215	Hand Over ESS to SPower	0 days	Sun 1/9/13	Sun 1/9/13
216	Power Turn-on to CSR	0 days	Sat 23/11/13	Sat 23/11/13
217	CBPU Clearance	0 days	Tue 29/10/13	Tue 29/10/13
218	Install water sub meter	0 days	Mon 30/9/13	Mon 30/9/13
219	PUB (Water) Turn-on	0 days	Mon 28/10/13	Mon 28/10/13
220	Electrical Testing	2 wks	Tue 17/12/13	Tue 31/12/13



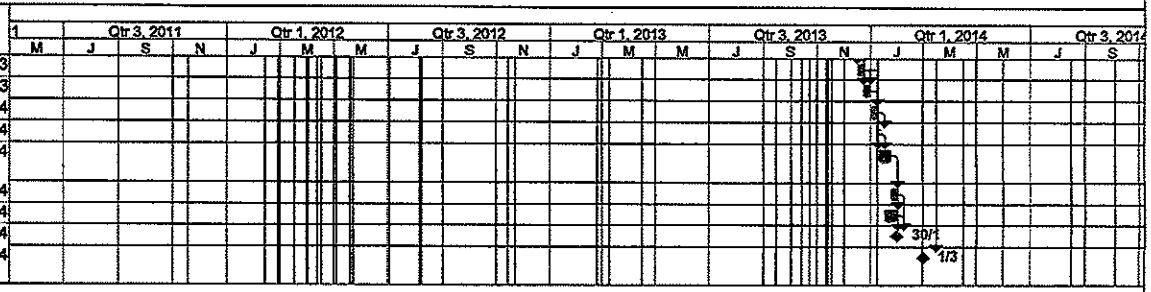
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AT SENJA [illegible]OAD FOR BUKIT PANJANG NEIGHBOURHOOD 6 [illegible]ONTRACT 11

MASTER CONSTRUCTION PROGRAMME

CONSULTANTS

ID	Task Name	Duration	Start	Finish
221	Lift Testing & Commissioning	1 wk	Tue 17/12/13	Mon 23/12/13
222	RI (M&E)	1 wk	Tue 24/12/13	Tue 31/12/13
223	RI (Arch.)	1 wk	Thu 2/1/14	Wed 8/1/14
224	BCA TOP	1 day	Thu 9/1/14	Thu 9/1/14
225	BUI Inspection (hand over all the Authorities Certificates)	2 wks	Fri 10/1/14	Thu 23/1/14
226	Rectification Works	1 wk	Fri 24/1/14	Thu 30/1/14
227	Hoard up 636 MSCP for handing over (PACD)	2 wks	Fri 17/1/14	Thu 30/1/14
228	Phase 2 - Block 636 MSCP / Hand over to HDB (PACD)	0 days	Thu 30/1/14	Thu 30/1/14
229	Phase 2 - Block 636 MSCP including linkbridge to Neighbourhood Park (OCD)	0 days	Sat 1/3/14	Sat 1/3/14



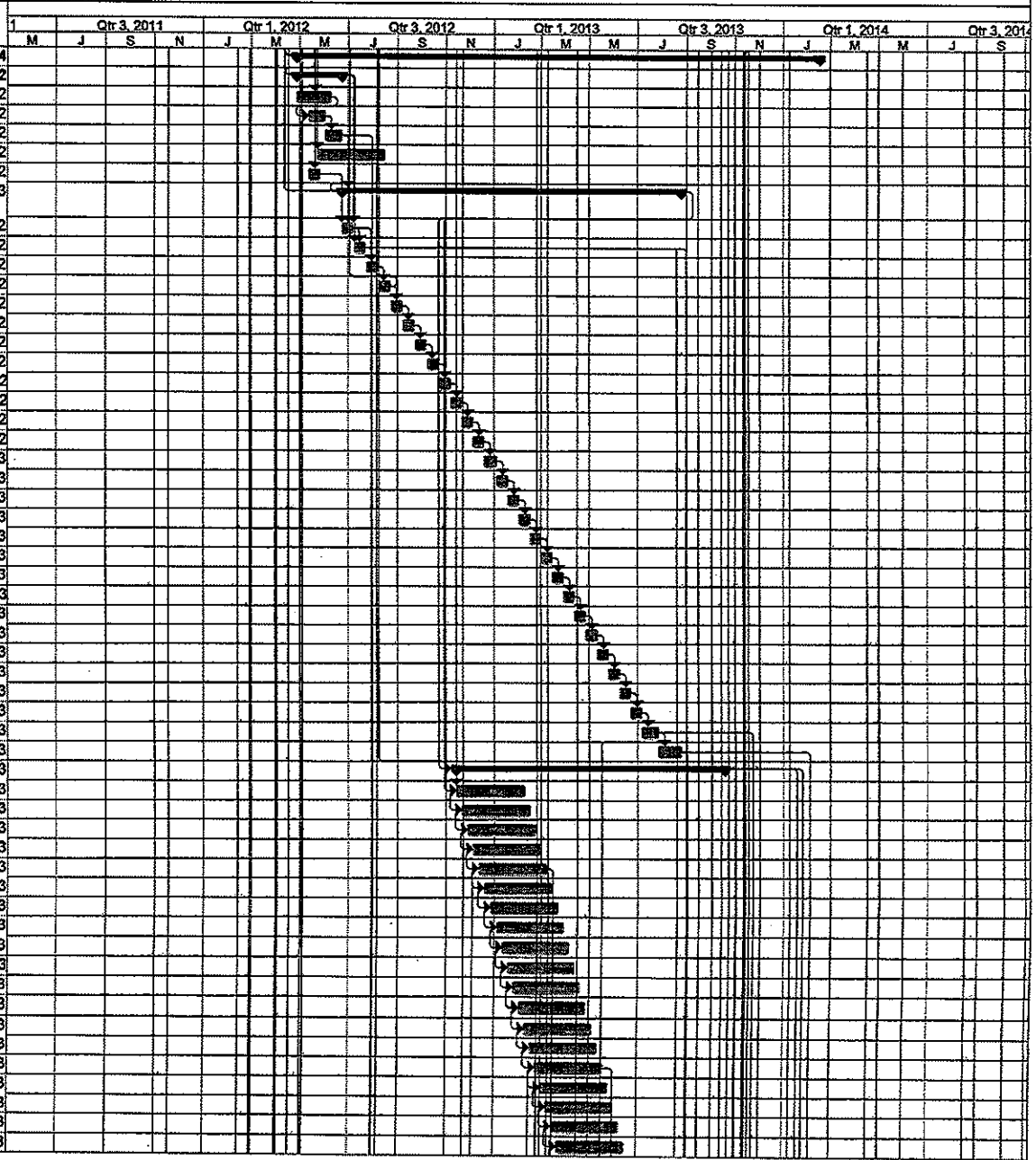
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PF OSED ERECTION OF PUBLIC HOSING DEVELO IENT
AT SENJA ROAD FOR BUKIT PANJANG NEIGHBOURHOOD 6 CONTRACT 11

MASTER CONSTRUCTION PROGRAMME

CONSULTANTS

ID	Task Name	Duration	Start	Finish
230	BLOCK 636B	559 days	Fri 27/4/12	Sat 15/2/14
231	Sub-Structure Works to 2nd storey	48 days	Fri 27/4/12	Fri 22/6/12
232	Pile Caps Works	6 wks	Fri 27/4/12	Fri 8/6/12
233	Ground Beam & Slab Works	3 wks	Sat 12/5/12	Fri 1/6/12
234	1st sty to 2nd sty Columns	3 wks	Sat 2/6/12	Fri 22/6/12
235	Retaining Wall Structure	12 wks	Wed 23/5/12	Wed 15/8/12
236	Remove Temporary Sheet Pile	2 wks	Sat 12/5/12	Fri 25/5/12
237	Super-Structure Works (2nd -27th and Roof) include Lift Shaft	362 days	Sat 23/6/12	Sat 24/8/13
238	2nd sty	2 wks	Sat 23/6/12	Fri 6/7/12
239	3rd sty	2 wks	Mon 9/7/12	Sat 21/7/12
240	4th sty	2 wks	Tue 24/7/12	Mon 6/8/12
241	5th sty	2 wks	Wed 8/8/12	Wed 22/8/12
242	6th sty	2 wks	Fri 24/8/12	Thu 6/9/12
243	7th sty	2 wks	Sat 8/9/12	Fri 21/9/12
244	8th sty	2 wks	Mon 24/9/12	Sat 6/10/12
245	9th sty	2 wks	Tue 9/10/12	Mon 22/10/12
246	10th sty	2 wks	Wed 24/10/12	Tue 6/11/12
247	11th sty	2 wks	Wed 7/11/12	Tue 20/11/12
248	12th sty	2 wks	Wed 21/11/12	Tue 4/12/12
249	13th sty	2 wks	Wed 5/12/12	Tue 18/12/12
250	14th sty	2 wks	Wed 19/12/12	Thu 3/1/13
251	15th sty	2 wks	Fri 4/1/13	Thu 17/1/13
252	16th sty	2 wks	Fri 18/1/13	Thu 31/1/13
253	17th sty	2 wks	Fri 1/2/13	Thu 14/2/13
254	18th sty	2 wks	Fri 15/2/13	Thu 28/2/13
255	19th sty	2 wks	Fri 1/3/13	Thu 14/3/13
256	20th sty	2 wks	Fri 15/3/13	Thu 28/3/13
257	21th sty	2 wks	Fri 29/3/13	Thu 11/4/13
258	22th sty	2 wks	Fri 12/4/13	Thu 25/4/13
259	23th sty	2 wks	Fri 26/4/13	Fri 10/5/13
260	24th sty	2 wks	Sat 11/5/13	Fri 24/5/13
261	25th sty	2 wks	Sat 25/5/13	Fri 7/6/13
262	26th sty	2 wks	Sat 8/6/13	Fri 21/6/13
263	27th sty	2 wks	Sat 22/6/13	Fri 5/7/13
264	Roof include vertical alignment of the lift shaft	3 wks	Sat 6/7/13	Fri 26/7/13
265	LMR & Water Tank	4 wks	Sat 27/7/13	Sat 24/8/13
266	Finishing Works	288 days	Wed 14/11/12	Fri 18/10/13
267	1st sty	12 wks	Wed 14/11/12	Thu 7/2/13
268	2nd sty	12 wks	Wed 21/11/12	Thu 14/2/13
269	3rd sty	12 wks	Wed 28/11/12	Thu 21/2/13
270	4th sty	12 wks	Wed 5/12/12	Thu 28/2/13
271	5th sty	12 wks	Wed 12/12/12	Thu 7/3/13
272	6th sty	12 wks	Wed 19/12/12	Thu 14/3/13
273	7th sty	12 wks	Thu 27/12/12	Thu 21/3/13
274	8th sty	12 wks	Fri 4/1/13	Thu 28/3/13
275	9th sty	12 wks	Fri 11/1/13	Thu 4/4/13
276	10th sty	12 wks	Fri 18/1/13	Thu 11/4/13
277	11th sty	12 wks	Fri 25/1/13	Thu 18/4/13
278	12th sty	12 wks	Fri 1/2/13	Thu 25/4/13
279	13th sty	12 wks	Fri 8/2/13	Fri 3/5/13
280	14th sty	12 wks	Fri 15/2/13	Fri 10/5/13
281	15th sty	12 wks	Fri 22/2/13	Fri 17/5/13
282	16th sty	12 wks	Fri 1/3/13	Fri 24/5/13
283	17th sty	12 wks	Fri 8/3/13	Fri 31/5/13
284	18th sty	12 wks	Fri 15/3/13	Fri 7/6/13
285	19th sty	12 wks	Fri 22/3/13	Fri 14/6/13

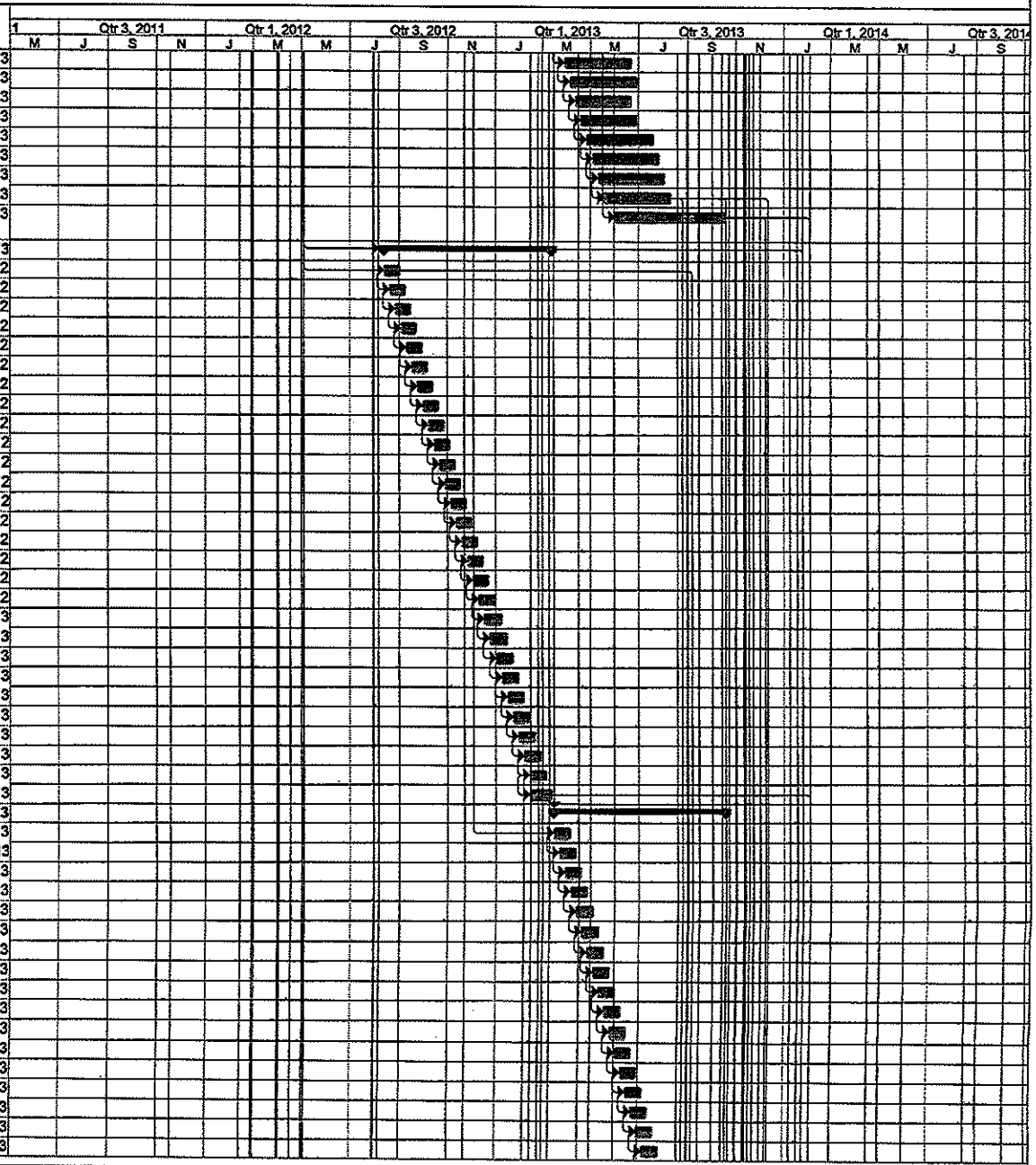


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AT SENJA [illegible]OAD FOR BUKIT PANJANG NEIGHBOURHOOD 6 [illegible]ONTRACT 11
MASTER CONSTRUCTION PROGRAMME

CONSULTANTS

ID	Task Name	Duration	Start	Finish
286	20th sty	12 wks	Fri 29/3/13	Fri 21/6/13
287	21th sty	12 wks	Fri 5/4/13	Fri 28/6/13
288	22th sty	10 wks	Fri 12/4/13	Fri 21/6/13
289	23th sty	10 wks	Fri 19/4/13	Fri 28/6/13
290	24th sty	12 wks	Fri 26/4/13	Fri 19/7/13
291	25th sty	12 wks	Sat 4/5/13	Fri 26/7/13
292	26th sty	12 wks	Sat 11/5/13	Fri 2/8/13
293	27th sty	12 wks	Sat 18/5/13	Sat 10/8/13
294	Roof, LMR & Water Tank and Rectification works for blk 636A	20 wks	Sat 1/6/13	Fri 18/10/13
295	**M&E Works (1st fixing)**	**180 days**	**Mon 13/8/12**	**Tue 12/3/13**
296	1st sty	3 wks	Mon 13/8/12	Sat 1/9/12
297	2nd sty	3 wks	Mon 20/8/12	Sat 8/9/12
298	3rd sty	3 wks	Mon 27/8/12	Sat 15/9/12
299	4th sty	3 wks	Mon 3/9/12	Sat 22/9/12
300	5th sty	3 wks	Mon 10/9/12	Sat 29/9/12
301	6th sty	3 wks	Mon 17/9/12	Sat 6/10/12
302	7th sty	3 wks	Mon 24/9/12	Sat 13/10/12
303	8th sty	3 wks	Mon 1/10/12	Sat 20/10/12
304	9th sty	3 wks	Mon 8/10/12	Sat 27/10/12
305	10th sty	3 wks	Mon 15/10/12	Sat 3/11/12
306	11th sty	3 wks	Mon 22/10/12	Sat 10/11/12
307	12th sty	3 wks	Mon 29/10/12	Sat 17/11/12
308	13th sty	3 wks	Mon 5/11/12	Sat 24/11/12
309	14th sty	3 wks	Mon 12/11/12	Sat 1/12/12
310	15th sty	3 wks	Mon 19/11/12	Sat 8/12/12
311	16th sty	3 wks	Mon 26/11/12	Sat 15/12/12
312	17th sty	3 wks	Mon 3/12/12	Sat 22/12/12
313	18th sty	3 wks	Mon 10/12/12	Mon 31/12/12
314	19th sty	3 wks	Mon 17/12/12	Tue 8/1/13
315	20th sty	3 wks	Mon 24/12/12	Tue 15/1/13
316	21th sty	3 wks	Wed 2/1/13	Tue 22/1/13
317	22th sty	3 wks	Wed 9/1/13	Tue 29/1/13
318	23th sty	3 wks	Wed 16/1/13	Tue 5/2/13
319	24th sty	3 wks	Wed 23/1/13	Tue 12/2/13
320	25th sty	3 wks	Wed 30/1/13	Tue 19/2/13
321	26th sty	3 wks	Wed 6/2/13	Tue 26/2/13
322	27th sty	3 wks	Wed 13/2/13	Tue 5/3/13
323	Roof, LMR & Water Tank	4 wks	Wed 13/2/13	Tue 12/3/13
324	**M & E Works (2nd fixing)**	**186 days**	**Fri 15/3/13**	**Fri 18/10/13**
325	1st sty	3 wks	Fri 15/3/13	Thu 4/4/13
326	2nd sty	3 wks	Fri 22/3/13	Thu 11/4/13
327	3rd sty	3 wks	Fri 29/3/13	Thu 18/4/13
328	4th sty	3 wks	Fri 5/4/13	Thu 25/4/13
329	5th sty	3 wks	Fri 12/4/13	Fri 3/5/13
330	6th sty	3 wks	Fri 19/4/13	Fri 10/5/13
331	7th sty	3 wks	Fri 26/4/13	Fri 17/5/13
332	8th sty	3 wks	Sat 4/5/13	Fri 24/5/13
333	9th sty	3 wks	Sat 11/5/13	Fri 31/5/13
334	10th sty	3 wks	Sat 18/5/13	Fri 7/6/13
335	11th sty	3 wks	Sat 25/5/13	Fri 14/6/13
336	12th sty	3 wks	Sat 1/6/13	Fri 21/6/13
337	13th sty	3 wks	Sat 8/6/13	Fri 28/6/13
338	14th sty	3 wks	Sat 15/6/13	Fri 5/7/13
339	15th sty	3 wks	Sat 22/6/13	Fri 12/7/13
340	16th sty	3 wks	Sat 29/6/13	Fri 19/7/13
341	17th sty	3 wks	Sat 6/7/13	Fri 26/7/13

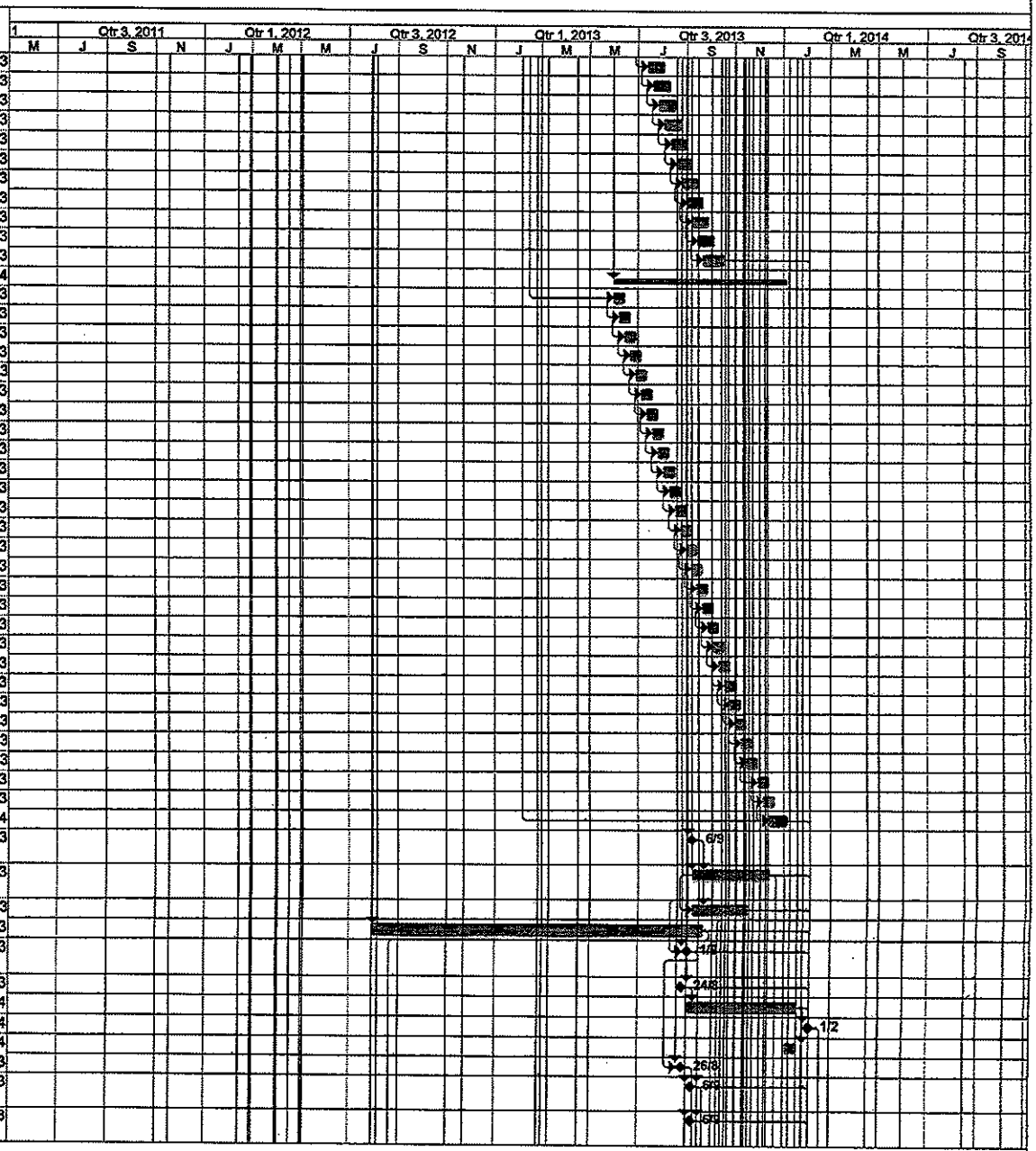


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PF OSED ERECTION OF PUBLIC HOSING DEVELO IENT
AT SENJA ROAD FOR BUKIT PANJANG NEIGHBOURHOOD 6 CONTRACT 11
MASTER CONSTRUCTION PROGRAMME

CONSULTANTS

ID	Task Name	Duration	Start	Finish
342	18th sty	3 wks	Sat 13/7/13	Fri 2/8/13
343	19th sty	3 wks	Sat 20/7/13	Sat 10/8/13
344	20th sty	3 wks	Sat 27/7/13	Sat 17/8/13
345	21th sty	3 wks	Sat 3/8/13	Sat 24/8/13
346	22th sty	3 wks	Mon 12/8/13	Sat 31/8/13
347	23th sty	3 wks	Mon 19/8/13	Fri 6/9/13
348	24th sty	3 wks	Mon 26/8/13	Fri 13/9/13
349	25th sty	3 wks	Sun 1/9/13	Fri 20/9/13
350	26th sty	3 wks	Sat 7/9/13	Fri 27/9/13
351	27th sty	3 wks	Sat 14/9/13	Fri 4/10/13
352	Roof, LMR & Water Tank	4 wks	Sat 21/9/13	Fri 18/10/13
353	**M & E Works (Final fixing)**	186 days	Fri 31/5/13	Sat 4/1/14
354	1st sty	2 wks	Fri 31/5/13	Thu 13/6/13
355	2nd sty	2 wks	Fri 7/6/13	Thu 20/6/13
356	3rd sty	2 wks	Fri 14/6/13	Thu 27/6/13
357	4th sty	2 wks	Fri 21/6/13	Thu 4/7/13
358	5th sty	2 wks	Fri 28/6/13	Thu 11/7/13
359	6th sty	2 wks	Fri 5/7/13	Thu 18/7/13
360	7th sty	2 wks	Fri 12/7/13	Thu 25/7/13
361	8th sty	2 wks	Fri 19/7/13	Thu 1/8/13
362	9th sty	2 wks	Fri 26/7/13	Thu 8/8/13
363	10th sty	2 wks	Fri 2/8/13	Fri 16/8/13
364	11th sty	2 wks	Sat 10/8/13	Fri 23/8/13
365	12th sty	2 wks	Sat 17/8/13	Fri 30/8/13
366	13th sty	2 wks	Sat 24/8/13	Thu 5/9/13
367	14th sty	2 wks	Sat 31/8/13	Thu 12/9/13
368	15th sty	2 wks	Fri 6/9/13	Thu 19/9/13
369	16th sty	2 wks	Fri 13/9/13	Thu 26/9/13
370	17th sty	2 wks	Fri 20/9/13	Thu 3/10/13
371	18th sty	2 wks	Fri 27/9/13	Thu 10/10/13
372	19th sty	2 wks	Fri 4/10/13	Thu 17/10/13
373	20th sty	2 wks	Fri 11/10/13	Thu 24/10/13
374	21th sty	2 wks	Fri 18/10/13	Thu 31/10/13
375	22th sty	2 wks	Fri 25/10/13	Thu 7/11/13
376	23th sty	2 wks	Fri 1/11/13	Thu 14/11/13
377	24th sty	2 wks	Fri 8/11/13	Thu 21/11/13
378	25th sty	2 wks	Fri 15/11/13	Thu 28/11/13
379	26th sty	2 wks	Fri 29/11/13	Thu 12/12/13
380	27th sty	2 wks	Fri 6/12/13	Thu 19/12/13
381	Roof, LMR & Water Tank	3 wks	Fri 13/12/13	Sat 4/1/14
382	Handover M&E Risers for Sub-contractors to complete the M&E works	0 days	Fri 6/9/13	Fri 6/9/13
383	M&E Final fixing including booster pumps, wet riser pumps and hosereel pumps	14 wks	Sat 7/9/13	Fri 13/12/13
384	Electrical Installation (Switch/Power/Etc)	10 wks	Sat 7/9/13	Fri 15/11/13
385	P/M Hoist Installation	59 wks	Tue 31/7/12	Fri 20/9/13
386	Hand Over MDF Room (hand over 7 months before hand over of block, include 2wks of rectification works)	0 days	Sun 1/9/13	Sun 1/9/13
387	Hand over Lift Shaft to Lift Contractor	0 days	Sat 24/8/13	Sat 24/8/13
388	Lift Installation	19.5 wks	Mon 2/9/13	Fri 17/1/14
389	Lift Contract end at 01-02-14	0 days	Sat 1/2/14	Sat 1/2/14
390	Lift Laying Bricks	2 wks	Sat 4/1/14	Fri 17/1/14
391	Completion of CSR, include of 2wks rectification works	0 days	Mon 26/8/13	Mon 26/8/13
392	Completion of Wet Riser Transfer Tank Room, include 2 wks of rectification works	0 days	Fri 6/9/13	Fri 6/9/13
393	Completion of Wet Riser Transfer Pump Room, include 2 wks of rectification works	0 days	Fri 6/9/13	Fri 6/9/13

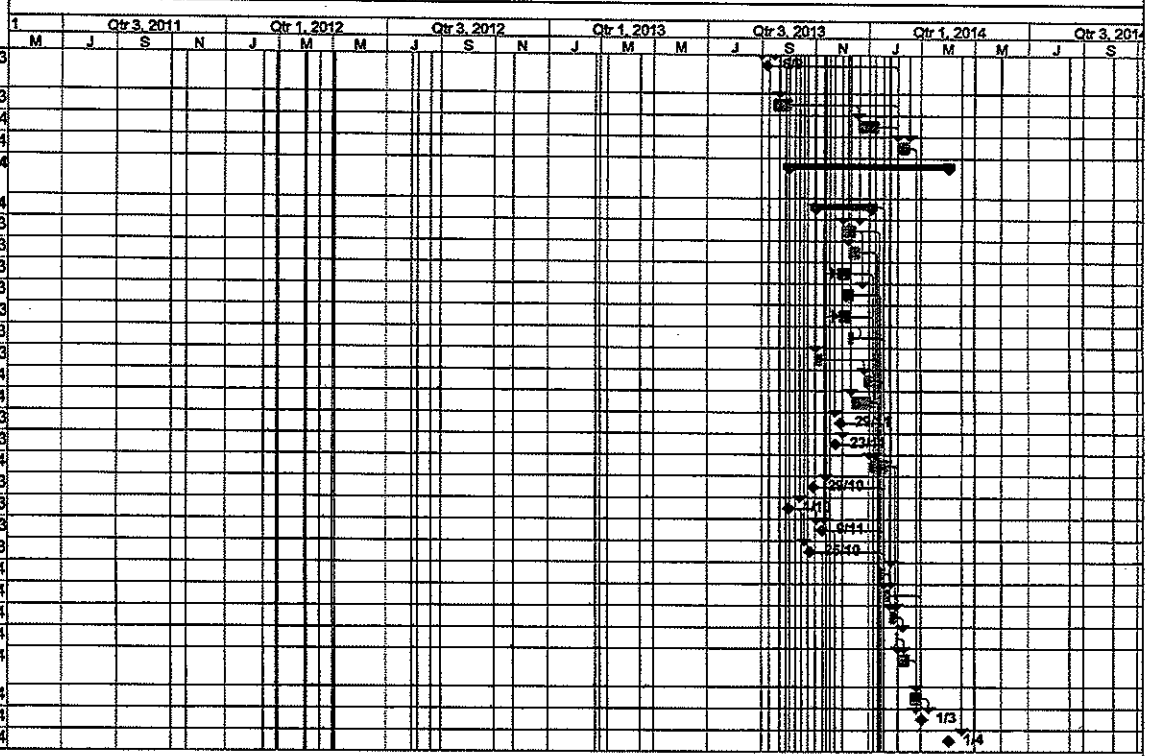


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33 SENANG CRESCENT SINGAPORE 416604
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PR OSED ERECTION OF PUBLIC HOSING DEVELO ENT
AT SENJA OAD FOR BUKIT PANJANG NEIGHBOURHOOD 6 ONTRACT 11
MASTER CONSTRUCTION PROGRAMME

CONSULTANTS

ID	Task Name	Duration	Start	Finish
394	Completion of Domestic Water Transfer Tank Room, include 2wks of rectification works	0 days	Fri 6/9/13	Fri 6/9/13
395	Remove of Tower Crane 1	3 wks	Sat 14/9/13	Fri 4/10/13
396	Remove of P/M Hoist	3 wks	Fri 20/12/13	Sat 11/1/14
397	Hoard up 636B for handing over	2 wks	Mon 3/2/14	Sat 15/2/14
398	**Block 636B Testing & Commissioning and Authorities Inspection**	**154 days**	**Tue 1/10/13**	**Tue 1/4/14**
399	**In-House Testing**	**52 days**	**Sat 2/11/13**	**Fri 3/1/14**
400	Chokage Test For Main and Secondary Stack Pipe	2 wks	Tue 3/12/13	Mon 16/12/13
401	Leakage Test For Refuse Chute Flushing System	2 wks	Mon 9/12/13	Sat 21/12/13
402	Water Test For Toilet and Wet Kitchen	2 wks	Tue 26/11/13	Mon 9/12/13
403	Water Pipe Pressure For Concealed Pipes	2 wks	Mon 2/12/13	Sat 14/12/13
404	Gradient Test For House Drain	2 wks	Thu 28/11/13	Wed 11/12/13
405	Gradient Test For Sewer Lines	1 wk	Mon 9/12/13	Sat 14/12/13
406	Water Test For Main Roof	1 wk	Sat 2/11/13	Fri 8/11/13
407	Water Test For Scupper Drains	1 wk	Fri 27/12/13	Fri 3/1/14
408	Watertightness Test For Window	3 wks	Thu 12/12/13	Fri 3/1/14
409	BCA Housesheiter Inspection	0 days	Fri 29/11/13	Fri 29/11/13
410	Power Turn-on to CSR	0 days	Sat 23/11/13	Sat 23/11/13
411	Electrical Testing including lightning	3 wks	Thu 2/1/14	Wed 22/1/14
412	CBPU Clearance	0 days	Tue 29/10/13	Tue 29/10/13
413	PUB (Water) Turn-on	0 days	Tue 1/10/13	Tue 1/10/13
414	Install water sub meter	0 days	Sat 9/11/13	Sat 9/11/13
415	City Gas Inspection	0 days	Fri 25/10/13	Fri 25/10/13
416	Lift Testing & Commissioning	1 wk	Sat 11/1/14	Fri 17/1/14
417	RI (M&E)	1 wk	Sat 18/1/14	Fri 24/1/14
418	RI (Arch.)	1 wk	Sat 25/1/14	Fri 31/1/14
419	BCA TOP	1 day	Sat 1/2/14	Sat 1/2/14
420	BUI Inspection (hand over all the Authorities Certificates)	2 wks	Mon 3/2/14	Sat 15/2/14
421	Rectification Works	2 wks	Mon 17/2/14	Sat 1/3/14
422	Phase 3 - Block 636B Hand over to HDB (PACD)	0 days	Sat 1/3/14	Sat 1/3/14
423	Phase 3 - Block 636B (OCD)	0 days	Tue 1/4/14	Tue 1/4/14



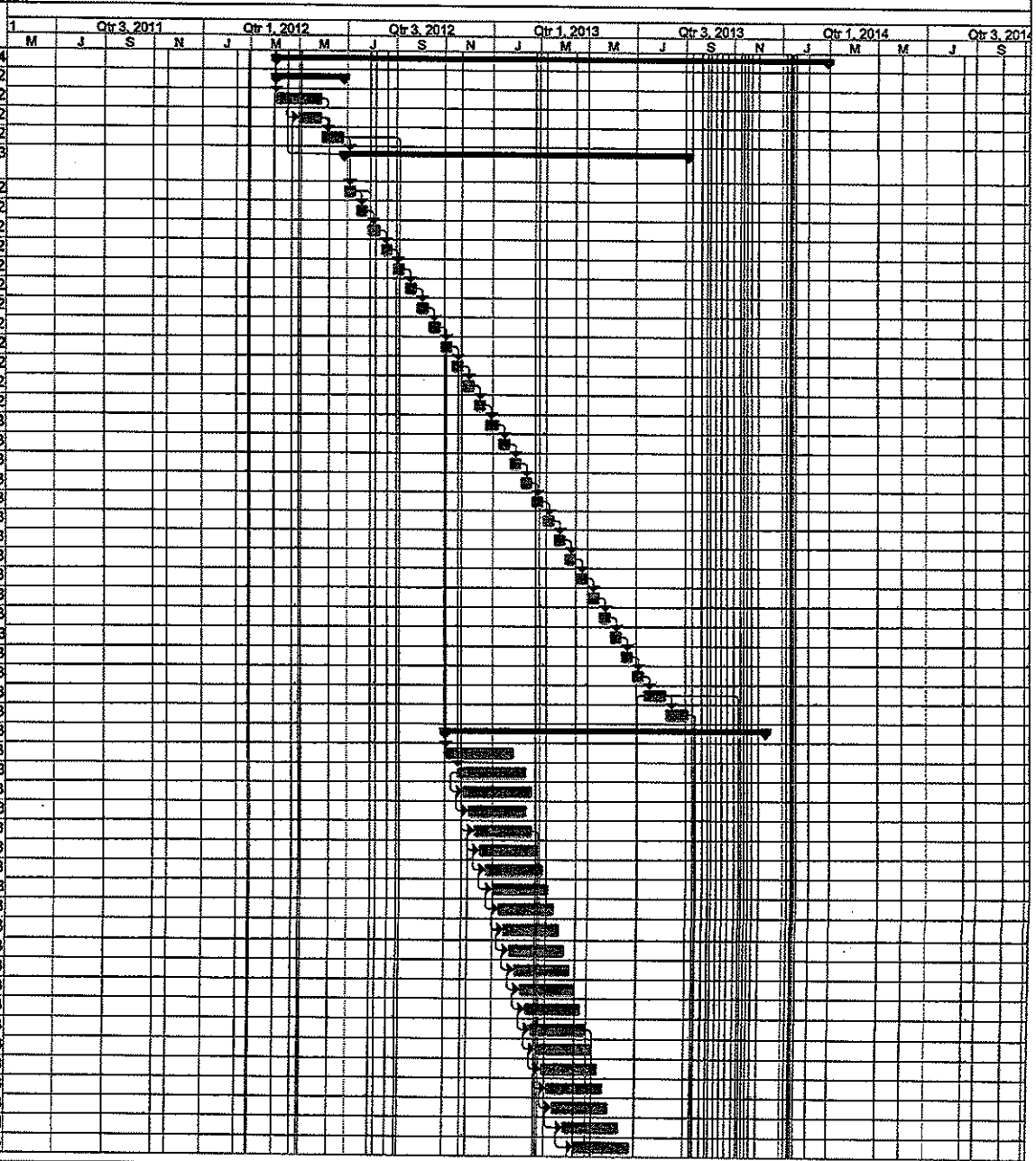
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PF OSED ERECTION OF PUBLIC HOSING DEVELO ENT
AT SENJA ROAD FOR BUKIT PANJANG NEIGHBOURHOOD 6 CONTRACT 11

MASTER CONSTRUCTION PROGRAMME

CONSULTANTS

ID	Task Name	Duration	Start	Finish
424	BLOCK 636C	590 days	Mon 2/4/12	Wed 26/2/14
425	Sub-Structure Works to 2nd storey	72 days	Mon 2/4/12	Mon 25/6/12
426	Pile Caps Works	8 wks	Mon 2/4/12	Mon 28/5/12
427	Ground Beam & Slab Works	4 wks	Mon 30/4/12	Mon 28/5/12
428	1st sty to 2nd sty Columns	4 wks	Tue 29/5/12	Mon 25/6/12
429	Super-Structure Works (2nd -27th and Roof) include Lift Shaft	368 days	Wed 27/6/12	Tue 3/9/13
430	2nd sty	2 wks	Wed 27/6/12	Tue 10/7/12
431	3rd sty	2 wks	Thu 12/7/12	Wed 25/7/12
432	4th sty	2 wks	Fri 27/7/12	Fri 10/8/12
433	5th sty	2 wks	Mon 13/8/12	Sat 25/8/12
434	6th sty	2 wks	Tue 28/8/12	Mon 10/9/12
435	7th sty	2 wks	Wed 12/9/12	Tue 25/9/12
436	8th sty	2 wks	Thu 27/9/12	Wed 10/10/12
437	9th sty	2 wks	Fri 12/10/12	Thu 25/10/12
438	10th sty	2 wks	Sat 27/10/12	Fri 9/11/12
439	11th sty	2 wks	Sat 10/11/12	Fri 23/11/12
440	12th sty	2 wks	Sat 24/11/12	Fri 7/12/12
441	13th sty	2 wks	Sat 8/12/12	Fri 21/12/12
442	14th sty	2 wks	Sat 22/12/12	Mon 7/1/13
443	15th sty	2 wks	Tue 8/1/13	Mon 21/1/13
444	16th sty	2 wks	Tue 22/1/13	Mon 4/2/13
445	17th sty	2 wks	Tue 5/2/13	Mon 18/2/13
446	18th sty	2 wks	Tue 19/2/13	Mon 4/3/13
447	19th sty	2 wks	Tue 5/3/13	Mon 18/3/13
448	20th sty	2 wks	Tue 19/3/13	Mon 1/4/13
449	21th sty	2 wks	Tue 2/4/13	Mon 15/4/13
450	22th sty	2 wks	Tue 16/4/13	Mon 29/4/13
451	23th sty	2 wks	Tue 30/4/13	Tue 14/5/13
452	24th sty	2 wks	Wed 15/5/13	Tue 28/5/13
453	25th sty	2 wks	Wed 29/5/13	Tue 11/6/13
454	26th sty	2 wks	Wed 12/6/13	Tue 25/6/13
455	27th sty	2 wks	Wed 26/6/13	Tue 9/7/13
456	Roof include vertical alignment of the lift shaft	4 wks	Wed 10/7/13	Tue 6/8/13
457	LMR & Water Tank	4 wks	Wed 7/8/13	Tue 3/9/13
458	Finishing Works	343 days	Fri 2/11/12	Tue 10/12/13
459	1st sty	12 wks	Fri 2/11/12	Sat 26/1/13
460	2nd sty	12 wks	Sat 17/11/12	Mon 11/2/13
461	3rd sty	12 wks	Sat 24/11/12	Mon 18/2/13
462	4th sty	10 wks	Sat 1/12/12	Mon 11/2/13
463	5th sty	10 wks	Sat 8/12/12	Mon 18/2/13
464	6th sty	10 wks	Sat 15/12/12	Mon 25/2/13
465	7th sty	10 wks	Sat 22/12/12	Mon 4/3/13
466	8th sty	10 wks	Mon 31/12/12	Mon 11/3/13
467	9th sty	10 wks	Tue 8/1/13	Mon 18/3/13
468	10th sty	10 wks	Tue 15/1/13	Mon 25/3/13
469	11th sty	10 wks	Tue 22/1/13	Mon 1/4/13
470	12th sty	10 wks	Tue 29/1/13	Mon 8/4/13
471	13th sty	10 wks	Tue 5/2/13	Mon 15/4/13
472	14th sty	10 wks	Tue 12/2/13	Mon 22/4/13
473	15th sty	10 wks	Tue 19/2/13	Mon 29/4/13
474	16th sty	10 wks	Tue 26/2/13	Tue 7/5/13
475	17th sty	10 wks	Tue 5/3/13	Tue 14/5/13
476	18th sty	10 wks	Tue 12/3/13	Tue 21/5/13
477	19th sty	10 wks	Tue 19/3/13	Tue 28/5/13
478	20th sty	10 wks	Tue 2/4/13	Tue 11/6/13
479	21th sty	10 wks	Tue 16/4/13	Tue 25/6/13

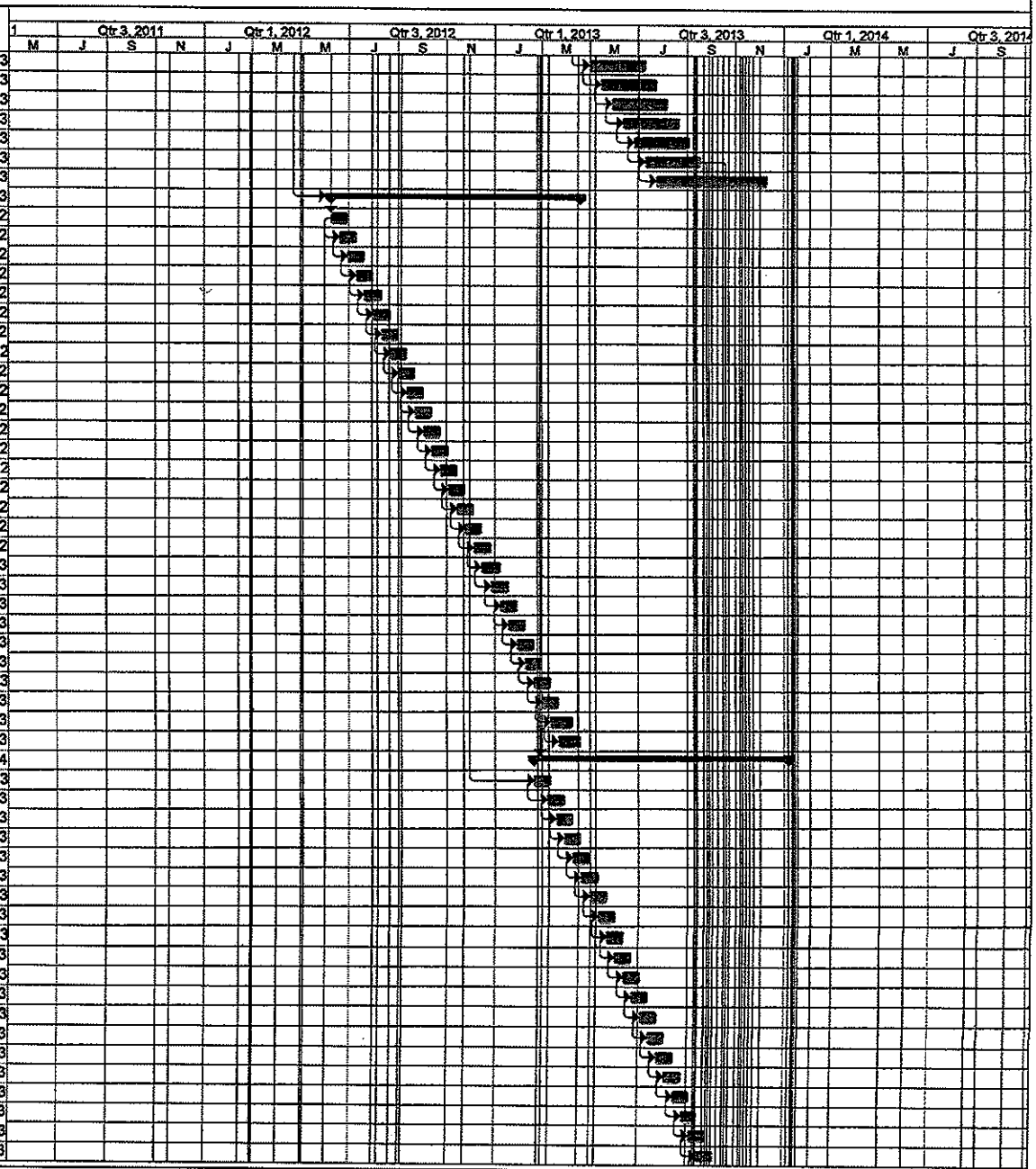


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PR[illegible]OSED ERECTION OF PUBLIC HOSING DEVELO[illegible]ENT
AT SENJA [illegible]OAD FOR BUKIT PANJANG NEIGHBOURHOOD 6 [illegible]ONTRACT 11
MASTER CONSTRUCTION PROGRAMME

CONSULTANTS

ID	Task Name	Duration	Start	Finish
480	22th sty	10 wks	Tue 30/4/13	Tue 9/7/13
481	23th sty	10 wks	Wed 15/5/13	Tue 23/7/13
482	24th sty	10 wks	Wed 29/5/13	Tue 6/8/13
483	25th sty	10 wks	Wed 12/6/13	Wed 21/8/13
484	26th sty	10 wks	Wed 26/6/13	Tue 3/9/13
485	27th sty	10 wks	Wed 10/7/13	Tue 17/9/13
486	Roof, LMR & Water Tank	20 wks	Wed 24/7/13	Tue 10/12/13
487	M&E Works (1st fixing)	267 days	Fri 8/6/12	Thu 18/4/13
488	1st sty	3 wks	Fri 8/6/12	Thu 28/6/12
489	2nd sty	3 wks	Tue 19/6/12	Mon 9/7/12
490	3rd sty	3 wks	Fri 29/6/12	Thu 19/7/12
491	4th sty	3 wks	Tue 10/7/12	Mon 30/7/12
492	5th sty	3 wks	Fri 20/7/12	Fri 10/8/12
493	6th sty	3 wks	Tue 31/7/12	Tue 21/8/12
494	7th sty	3 wks	Sat 11/8/12	Fri 31/8/12
495	8th sty	3 wks	Wed 22/8/12	Tue 11/9/12
496	9th sty	3 wks	Sat 1/9/12	Fri 21/9/12
497	10th sty	3 wks	Wed 12/9/12	Tue 2/10/12
498	11th sty	3 wks	Sat 22/9/12	Fri 12/10/12
499	12th sty	3 wks	Wed 3/10/12	Tue 23/10/12
500	13th sty	3 wks	Sat 13/10/12	Fri 2/11/12
501	14th sty	3 wks	Wed 24/10/12	Tue 13/11/12
502	15th sty	3 wks	Sat 3/11/12	Fri 23/11/12
503	16th sty	3 wks	Wed 14/11/12	Tue 4/12/12
504	17th sty	3 wks	Sat 24/11/12	Fri 14/12/12
505	18th sty	3 wks	Wed 5/12/12	Wed 26/12/12
506	19th sty	3 wks	Sat 15/12/12	Mon 7/1/13
507	20th sty	3 wks	Thu 27/12/12	Thu 17/1/13
508	21th sty	3 wks	Tue 8/1/13	Mon 28/1/13
509	22th sty	3 wks	Fri 18/1/13	Thu 7/2/13
510	23th sty	3 wks	Tue 29/1/13	Mon 18/2/13
511	24th sty	3 wks	Fri 8/2/13	Thu 28/2/13
512	25th sty	3 wks	Tue 19/2/13	Mon 11/3/13
513	26th sty	3 wks	Fri 1/3/13	Thu 21/3/13
514	27th sty	4 wks	Tue 12/3/13	Mon 8/4/13
515	Roof, LMR & Water Tank	4 wks	Fri 22/3/13	Thu 18/4/13
516	M & E Works (2nd fixing)	273 days	Tue 19/2/13	Mon 6/1/14
517	1st sty	3 wks	Tue 19/2/13	Mon 11/3/13
518	2nd sty	3 wks	Fri 8/3/13	Thu 28/3/13
519	3rd sty	3 wks	Tue 19/3/13	Mon 8/4/13
520	4th sty	3 wks	Fri 29/3/13	Thu 18/4/13
521	5th sty	3 wks	Tue 9/4/13	Mon 29/4/13
522	6th sty	3 wks	Fri 19/4/13	Fri 10/5/13
523	7th sty	3 wks	Tue 30/4/13	Tue 21/5/13
524	8th sty	3 wks	Sat 11/5/13	Fri 31/5/13
525	9th sty	3 wks	Wed 22/5/13	Tue 11/6/13
526	10th sty	3 wks	Sat 1/6/13	Fri 21/6/13
527	11th sty	3 wks	Wed 12/6/13	Tue 2/7/13
528	12th sty	3 wks	Sat 22/6/13	Fri 12/7/13
529	13th sty	3 wks	Wed 3/7/13	Tue 23/7/13
530	14th sty	3 wks	Sat 13/7/13	Fri 2/8/13
531	15th sty	3 wks	Wed 24/7/13	Wed 14/8/13
532	16th sty	3 wks	Sat 3/8/13	Sat 24/8/13
533	17th sty	3 wks	Thu 15/8/13	Tue 3/9/13
534	18th sty	3 wks	Mon 26/8/13	Fri 13/9/13
535	19th sty	3 wks	Wed 4/9/13	Tue 24/9/13
536	20th sty	3 wks	Sat 14/9/13	Fri 4/10/13

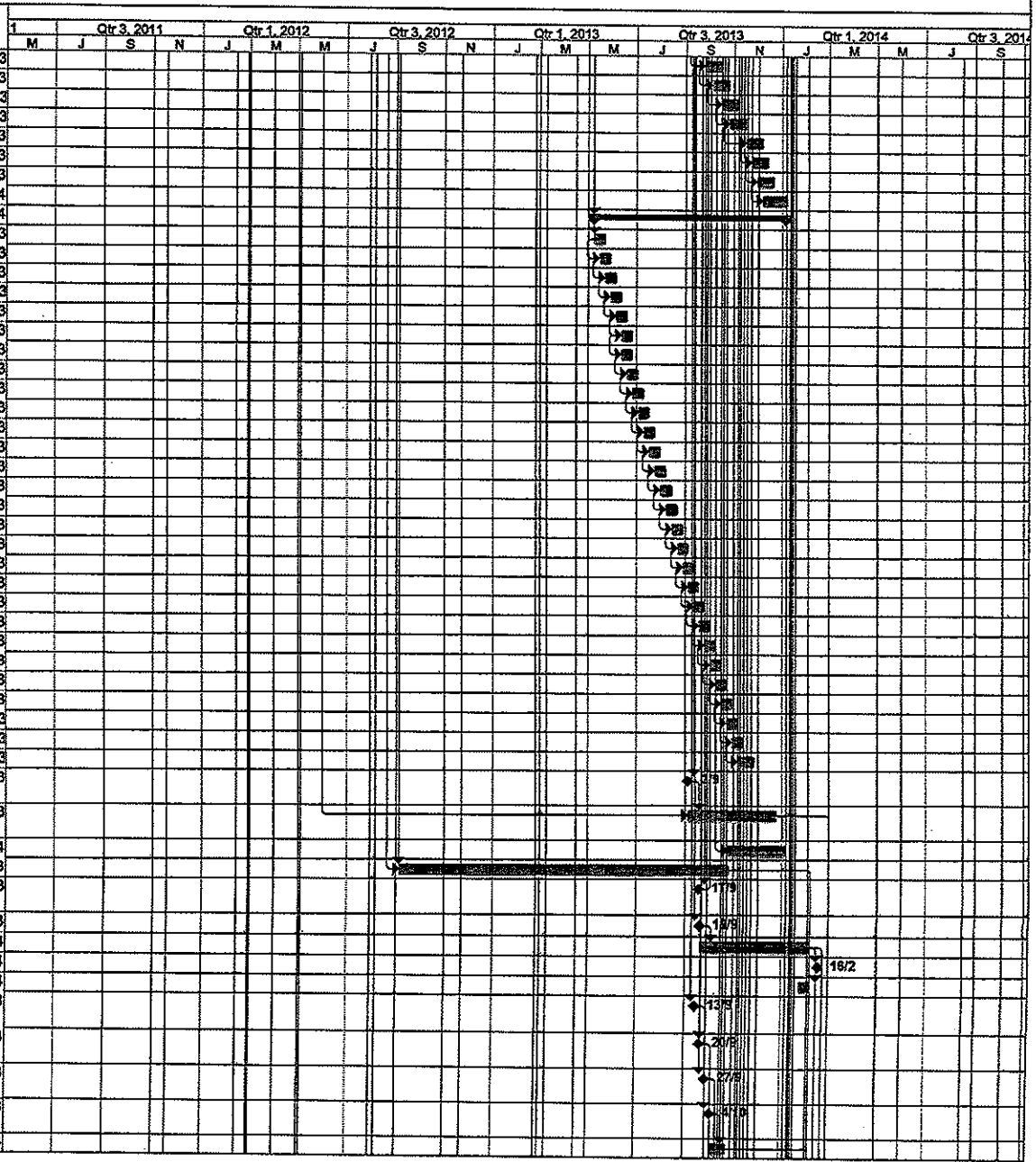


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33 SENANG CRESCENT SINGAPORE 416804
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PF OSED ERECTION OF PUBLIC HOSING DEVELC ENT
AT SENJA ROAD FOR BUKIT PANJANG NEIGHBOURHOOD 6 CONTRACT 11
MASTER CONSTRUCTION PROGRAMME

CONSULTANTS

ID	Task Name	Duration	Start	Finish
537	21th sty	3 wks	Wed 25/9/13	Tue 15/10/13
538	22th sty	3 wks	Sat 5/10/13	Fri 25/10/13
539	23th sty	3 wks	Wed 16/10/13	Tue 5/11/13
540	24th sty	3 wks	Sat 26/10/13	Fri 15/11/13
541	25th sty	3 wks	Sat 16/11/13	Fri 6/12/13
542	26th sty	3 wks	Sat 23/11/13	Fri 13/12/13
543	27th sty	3 wks	Sat 30/11/13	Fri 20/12/13
544	Roof, LMR & Water Tank	4 wks	Sat 7/12/13	Mon 6/1/14
545	M & E Works (Final fixing)	206 days	Wed 8/5/13	Sat 4/1/14
546	1st sty	2 wks	Wed 8/5/13	Tue 21/5/13
547	2nd sty	2 wks	Wed 15/5/13	Tue 28/5/13
548	3rd sty	2 wks	Wed 22/5/13	Tue 4/6/13
549	4th sty	2 wks	Wed 29/5/13	Tue 11/6/13
550	5th sty	2 wks	Wed 5/6/13	Tue 18/6/13
551	6th sty	2 wks	Wed 12/6/13	Tue 25/6/13
552	7th sty	2 wks	Wed 12/6/13	Tue 25/6/13
553	8th sty	2 wks	Wed 19/6/13	Tue 2/7/13
554	9th sty	2 wks	Wed 26/6/13	Tue 9/7/13
555	10th sty	2 wks	Wed 3/7/13	Tue 16/7/13
556	11th sty	2 wks	Wed 10/7/13	Tue 23/7/13
557	12th sty	2 wks	Wed 17/7/13	Tue 30/7/13
558	13th sty	2 wks	Wed 24/7/13	Tue 6/8/13
559	14th sty	2 wks	Wed 31/7/13	Wed 14/8/13
560	15th sty	2 wks	Wed 7/8/13	Wed 21/8/13
561	16th sty	2 wks	Thu 15/8/13	Wed 28/8/13
562	17th sty	2 wks	Thu 22/8/13	Tue 3/9/13
563	18th sty	2 wks	Thu 29/8/13	Tue 10/9/13
564	19th sty	2 wks	Wed 4/9/13	Tue 17/9/13
565	20th sty	2 wks	Wed 11/9/13	Tue 24/9/13
566	21th sty	2 wks	Wed 18/9/13	Tue 1/10/13
567	22th sty	2 wks	Wed 25/9/13	Tue 8/10/13
568	23th sty	2 wks	Wed 2/10/13	Tue 15/10/13
569	24th sty	2 wks	Wed 9/10/13	Tue 22/10/13
570	25th sty	2 wks	Wed 16/10/13	Tue 29/10/13
571	26th sty	2 wks	Wed 23/10/13	Tue 5/11/13
572	27th sty	2 wks	Wed 30/10/13	Tue 12/11/13
573	Roof, LMR & Water Tank	3 wks	Wed 6/11/13	Tue 26/11/13
574	Handover M&E Risers for Sub-contractors to complete the M&E works	0 days	Tue 3/9/13	Tue 3/9/13
575	M&E Final fixing including booster pumps, wet riser pumps and hosereel pumps	16 wks	Wed 4/9/13	Tue 24/12/13
576	Electrical Installation (Switch/Power/Etc)	10 wks	Fri 25/10/13	Sat 4/1/14
577	P/M Hoist Installation	59 wks	Wed 5/9/12	Fri 25/10/13
578	Hand Over TER Room, include 2 wks of rectification works	0 days	Tue 17/9/13	Tue 17/9/13
579	Hand over Lift Shaft to Lift Contractor	0 days	Thu 19/9/13	Thu 19/9/13
580	Lift Installation	19.5 wks	Fri 20/9/13	Wed 5/2/14
581	Lift Contract end at 16-02-14	0 days	Sun 16/2/14	Sun 16/2/14
582	Lift Laying Bricks	2 wks	Thu 23/1/14	Wed 5/2/14
583	Completion of CSR, include 2 wks of rectification works	0 days	Fri 13/9/13	Fri 13/9/13
584	Completion of Wet Riser Transfer Tank Room, include 2 wks of rectification works	0 days	Fri 20/9/13	Fri 20/9/13
585	Completion of Wet Riser Transfer Pump Room, include 2 wks of rectification works	0 days	Fri 27/9/13	Fri 27/9/13
586	Completion of Domestic Water Transfer Tank Room, include 2 wks for rectification works	0 days	Fri 4/10/13	Fri 4/10/13
587	Remove of Tower Crane 2	3 wks	Sat 5/10/13	Fri 25/10/13

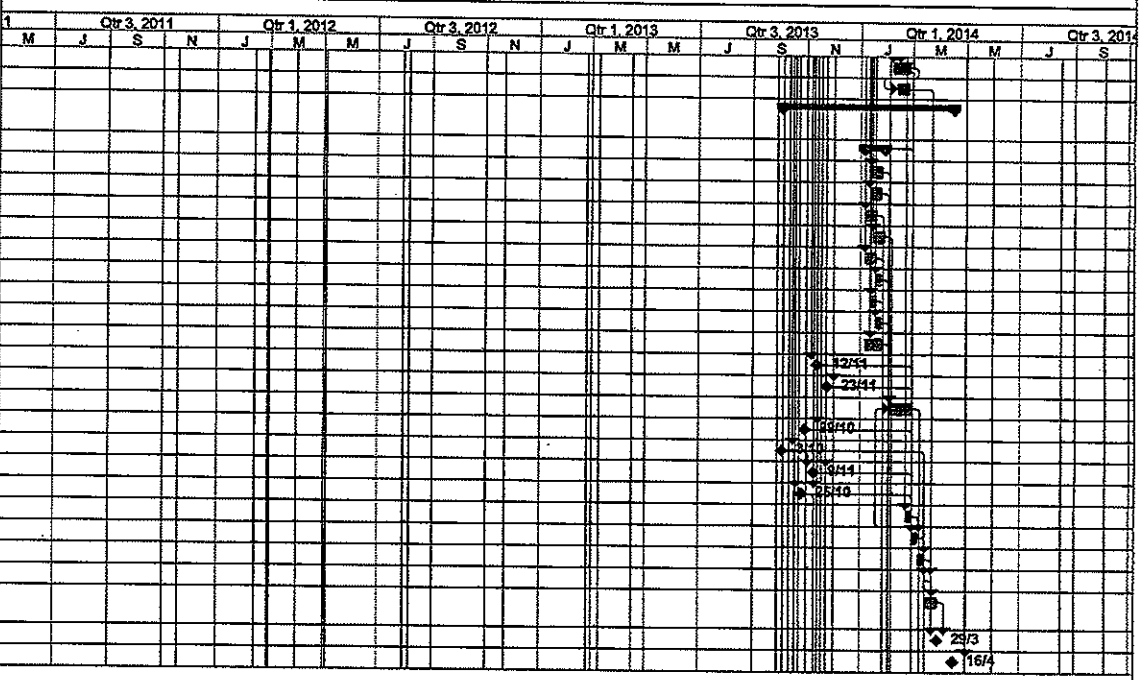


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PROPOSED ERECTION OF PUBLIC HOSING DEVELOPMENT
AT SENJA ROAD FOR BUKIT PANJANG NEIGHBOURHOOD 6 CONTRACT 11
MASTER CONSTRUCTION PROGRAMME

CONSULTANTS

ID	Task Name	Duration	Start	Finish
588	Remove of P/M Hoist	3 wks	Thu 6/2/14	Wed 26/2/14
589	Hoard up 636C for handing over	2 wks	Tue 11/2/14	Mon 24/2/14
590	**Block 636C Testing & Commissioning and Authorities Inspection**	**165 days**	**Thu 3/10/13**	**Wed 16/4/14**
591	**In-House Testing**	**20 days**	**Mon 6/1/14**	**Tue 28/1/14**
592	Chokage Test For Main and Secondary Stack Pipe	2 wks	Mon 13/1/14	Sat 25/1/14
593	Leakage Test For Refuse Chute Flushing System	2 wks	Sat 11/1/14	Fri 24/1/14
594	Water Test For Toilet and Wet Kitchen	2 wks	Mon 6/1/14	Sat 18/1/14
595	Water Pipe Pressure For Concealed Pipes	2 wks	Wed 15/1/14	Tue 28/1/14
596	Gradient Test For House Drain	2 wks	Mon 6/1/14	Sat 18/1/14
597	Gradient Test For Sewer Lines	1 wk	Sat 18/1/14	Fri 24/1/14
598	Water Test For Main Roof	1 wk	Mon 13/1/14	Sat 18/1/14
599	Water Test For Scupper Drains	1 wk	Sat 18/1/14	Fri 24/1/14
600	Watertightness Test For Window	3 wks	Mon 6/1/14	Sat 25/1/14
601	BCA Housesheltter Inspection	0 days	Tue 12/11/13	Tue 12/11/13
602	Power Turn-on to CSR	0 days	Sat 23/11/13	Sat 23/11/13
603	Electrical Testing including LPS	4 wks	Mon 3/2/14	Sat 1/3/14
604	CBPU Clearance	0 days	Tue 29/10/13	Tue 29/10/13
605	Install water sub meter	0 days	Thu 3/10/13	Thu 3/10/13
606	PUB (Water) Turn-on	0 days	Sat 9/11/13	Sat 9/11/13
607	City Gas Inspection	0 days	Fri 25/10/13	Fri 25/10/13
608	Lift Testing & Commissioning	1 wk	Sat 22/2/14	Fri 28/2/14
609	RI (M&E)	1 wk	Sat 1/3/14	Fri 7/3/14
610	RI (Arch.)	1 wk	Sat 8/3/14	Fri 14/3/14
611	BCA TOP	1 day	Sat 15/3/14	Sat 15/3/14
612	BIU Inspection (hand over all the Authorities Certificates)	2 wks	Mon 17/3/14	Sat 29/3/14
613	Hand over to HDB (PACD)	0 days	Sat 29/3/14	Sat 29/3/14
614	Phase 4 - Block 636C and minor sewer works (OCD)	0 days	Wed 16/4/14	Wed 16/4/14

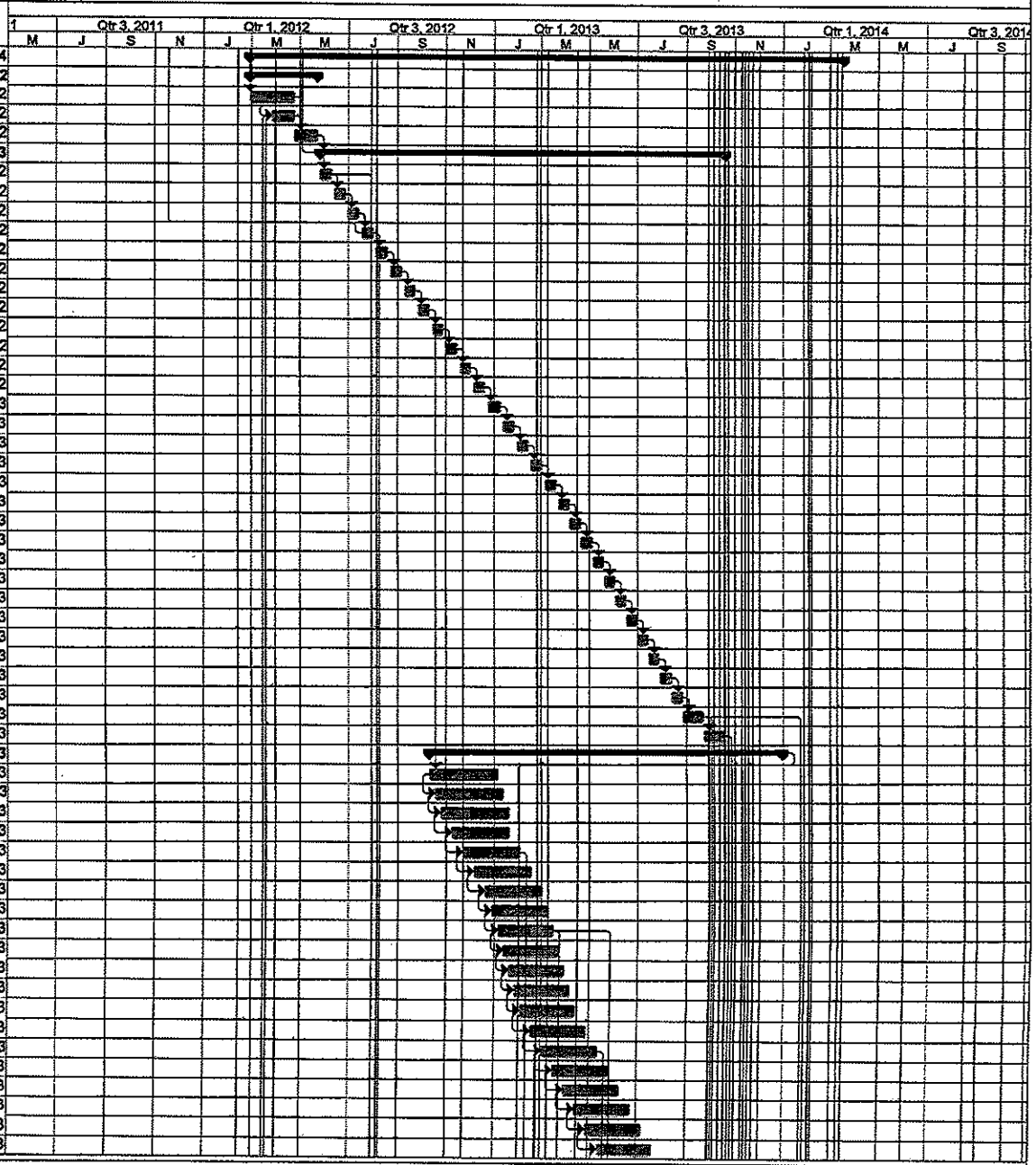


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P[illegible]OSED ERECTION OF PUBLIC HOSING DEVEL[illegible]MENT
AT SENJA ROAD FOR BUKIT PANJANG NEIGHBOURHOOD 6 CONTRACT 11
MASTER CONSTRUCTION PROGRAMME

CONSULTANTS

ID	Task Name	Duration	Start	Finish
615	**BLOCK 636A**	**635 days**	**Tue 28/2/12**	**Mon 17/3/14**
616	**Sub-Structure Works to 2nd storey**	**72 days**	**Tue 28/2/12**	**Tue 22/5/12**
617	Pile Caps Works	8 wks	Tue 28/2/12	Mon 23/4/12
618	Ground Beam & Slab Works	4 wks	Tue 27/3/12	Mon 23/4/12
619	1st sty to 2nd sty Columns	4 wks	Tue 24/4/12	Tue 22/5/12
620	**Super-Structure Works (2nd -27th and Roof) include Lift S**	**435 days**	**Sat 26/5/12**	**Sat 19/10/13**
621	2nd sty	2 wks	Sat 26/5/12	Fri 8/6/12
622	3rd sty	2 wks	Wed 13/6/12	Tue 26/6/12
623	4th sty	2 wks	Sat 30/6/12	Fri 13/7/12
624	5th sty	2 wks	Wed 18/7/12	Tue 31/7/12
625	6th sty	2 wks	Sat 4/8/12	Sat 18/8/12
626	7th sty	2 wks	Thu 23/8/12	Wed 5/9/12
627	8th sty	2 wks	Mon 10/9/12	Sat 22/9/12
628	9th sty	2 wks	Thu 27/9/12	Wed 10/10/12
629	10th sty	2 wks	Mon 15/10/12	Sat 27/10/12
630	11th sty	2 wks	Thu 1/11/12	Wed 14/11/12
631	12th sty	2 wks	Mon 19/11/12	Sat 1/12/12
632	13th sty	2 wks	Thu 6/12/12	Wed 19/12/12
633	14th sty	2 wks	Mon 24/12/12	Tue 8/1/13
634	15th sty	2 wks	Sat 12/1/13	Fri 25/1/13
635	16th sty	2 wks	Wed 30/1/13	Tue 12/2/13
636	17th sty	2 wks	Sat 16/2/13	Fri 1/3/13
637	18th sty	2 wks	Wed 6/3/13	Tue 19/3/13
638	19th sty	2 wks	Sat 23/3/13	Fri 5/4/13
639	20th sty	2 wks	Sat 6/4/13	Fri 19/4/13
640	21th sty	2 wks	Sat 20/4/13	Sat 4/5/13
641	22th sty	2 wks	Mon 6/5/13	Sat 18/5/13
642	23th sty	2 wks	Mon 20/5/13	Sat 1/6/13
643	24th sty	2 wks	Mon 3/6/13	Sat 15/6/13
644	25th sty	2 wks	Mon 17/6/13	Sat 29/6/13
645	26th sty	2 wks	Mon 1/7/13	Sat 13/7/13
646	27th sty	2 wks	Mon 15/7/13	Sat 27/7/13
647	28th sty	2 wks	Mon 29/7/13	Mon 12/8/13
648	29th sty	2 wks	Tue 13/8/13	Mon 26/8/13
649	Roof include vertical alignment of the lift shaft	4 wks	Tue 27/8/13	Sat 21/9/13
650	LMR & Water Tank	4 wks	Mon 23/9/13	Sat 19/10/13
651	**Finishing Works**	**378 days**	**Thu 11/10/12**	**Mon 30/12/13**
652	1st sty	12 wks	Thu 11/10/12	Fri 4/1/13
653	2nd sty	12 wks	Thu 18/10/12	Fri 11/1/13
654	3rd sty	12 wks	Thu 25/10/12	Fri 18/1/13
655	4th sty	10 wks	Thu 8/11/12	Fri 18/1/13
656	5th sty	10 wks	Thu 22/11/12	Fri 1/2/13
657	6th sty	10 wks	Thu 6/12/12	Fri 15/2/13
658	7th sty	10 wks	Thu 20/12/12	Fri 1/3/13
659	8th sty	10 wks	Fri 28/12/12	Fri 8/3/13
660	9th sty	10 wks	Sat 5/1/13	Fri 15/3/13
661	10th sty	10 wks	Sat 12/1/13	Fri 22/3/13
662	11th sty	10 wks	Sat 19/1/13	Fri 29/3/13
663	12th sty	10 wks	Sat 26/1/13	Fri 5/4/13
664	13th sty	10 wks	Sat 2/2/13	Fri 12/4/13
665	14th sty	10 wks	Sat 16/2/13	Fri 26/4/13
666	15th sty	10 wks	Sat 2/3/13	Sat 11/5/13
667	16th sty	10 wks	Sat 16/3/13	Sat 25/5/13
668	17th sty	10 wks	Sat 30/3/13	Sat 8/6/13
669	18th sty	10 wks	Sat 13/4/13	Sat 22/6/13
670	19th sty	10 wks	Sat 27/4/13	Sat 6/7/13
671	20th sty	10 wks	Mon 13/5/13	Sat 20/7/13



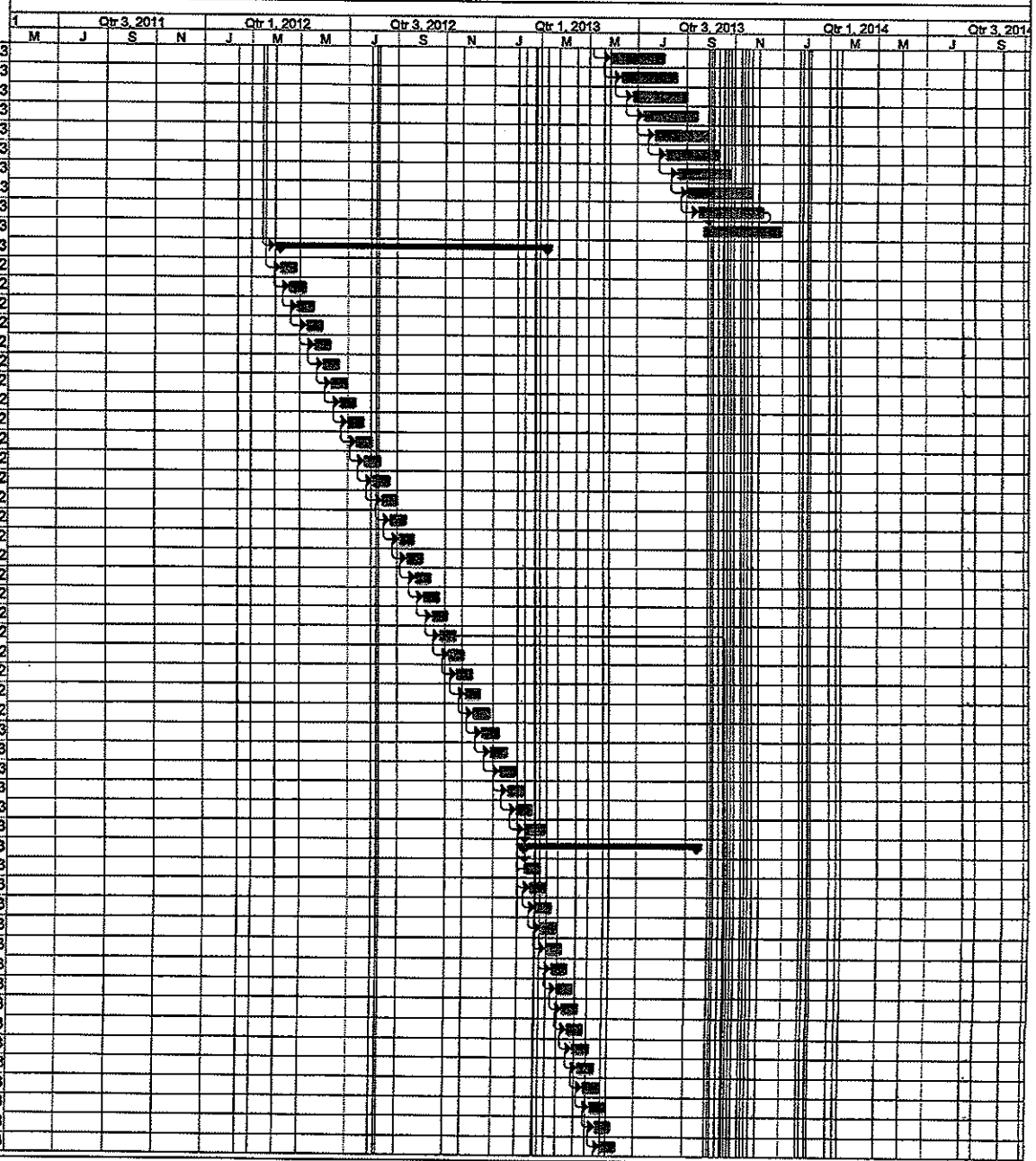
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PROPOSED ERECTION OF PUBLIC HOSING DEVELOPMENT
AT SENJA ROAD FOR BUKIT PANJANG NEIGHBOURHOOD 6 CONTRACT 11

MASTER CONSTRUCTION PROGRAMME

CONSULTANTS

ID	Task Name	Duration	Start	Finish
672	21th sty	10 wks	Mon 27/5/13	Sat 3/8/13
673	22th sty	10 wks	Mon 10/6/13	Mon 19/8/13
674	23th sty	10 wks	Mon 24/6/13	Sun 1/9/13
675	24th sty	10 wks	Mon 8/7/13	Sat 14/9/13
676	25th sty	10 wks	Mon 22/7/13	Sat 28/9/13
677	26th sty	10 wks	Mon 5/8/13	Sat 12/10/13
678	27th sty	10 wks	Tue 20/8/13	Sat 26/10/13
679	28th sty	12 wks	Mon 2/9/13	Sat 23/11/13
680	29th sty	12 wks	Mon 16/9/13	Sat 7/12/13
681	Roof, LMR & Water Tank	14 wks	Mon 23/9/13	Mon 30/12/13
682	**M&E Works (1st fixing)**	**285 days**	**Fri 6/4/12**	**Fri 8/3/13**
683	1st sty	3 wks	Fri 6/4/12	Thu 26/4/12
684	2nd sty	3 wks	Tue 17/4/12	Tue 8/5/12
685	3rd sty	3 wks	Fri 27/4/12	Fri 18/5/12
686	4th sty	3 wks	Wed 9/5/12	Tue 29/5/12
687	5th sty	3 wks	Sat 19/5/12	Fri 8/6/12
688	6th sty	3 wks	Wed 30/5/12	Tue 19/6/12
689	7th sty	3 wks	Sat 9/6/12	Fri 29/6/12
690	8th sty	3 wks	Wed 20/6/12	Tue 10/7/12
691	9th sty	3 wks	Sat 30/6/12	Fri 20/7/12
692	10th sty	3 wks	Wed 11/7/12	Tue 31/7/12
693	11th sty	3 wks	Sat 21/7/12	Sat 11/8/12
694	12th sty	3 wks	Wed 1/8/12	Wed 22/8/12
695	13th sty	3 wks	Mon 13/8/12	Sat 1/9/12
696	14th sty	3 wks	Thu 23/8/12	Wed 12/9/12
697	15th sty	3 wks	Mon 3/9/12	Sat 22/9/12
698	16th sty	3 wks	Thu 13/9/12	Wed 3/10/12
699	17th sty	3 wks	Mon 24/9/12	Sat 13/10/12
700	18th sty	3 wks	Thu 4/10/12	Wed 24/10/12
701	19th sty	3 wks	Mon 15/10/12	Sat 3/11/12
702	20th sty	3 wks	Thu 25/10/12	Wed 14/11/12
703	21th sty	3 wks	Mon 5/11/12	Sat 24/11/12
704	22th sty	3 wks	Thu 15/11/12	Wed 5/12/12
705	23th sty	3 wks	Mon 26/11/12	Sat 15/12/12
706	24th sty	3 wks	Thu 6/12/12	Thu 27/12/12
707	25th sty	3 wks	Mon 17/12/12	Tue 8/1/13
708	26th sty	3 wks	Fri 28/12/12	Fri 18/1/13
709	27th sty	3 wks	Wed 9/1/13	Tue 29/1/13
710	28th sty	3 wks	Sat 19/1/13	Fri 8/2/13
711	29th sty	3 wks	Wed 30/1/13	Tue 19/2/13
712	Roof, LMR & Water Tank	4 wks	Sat 9/2/13	Fri 8/3/13
713	**M & E Works (2nd fixing)**	**186 days**	**Sat 9/2/13**	**Sat 14/9/13**
714	1st sty	3 wks	Sat 9/2/13	Fri 1/3/13
715	2nd sty	3 wks	Sat 16/2/13	Fri 8/3/13
716	3rd sty	3 wks	Sat 23/2/13	Fri 15/3/13
717	4th sty	3 wks	Sat 2/3/13	Fri 22/3/13
718	5th sty	3 wks	Sat 9/3/13	Fri 29/3/13
719	6th sty	3 wks	Sat 16/3/13	Fri 5/4/13
720	7th sty	3 wks	Sat 23/3/13	Fri 12/4/13
721	8th sty	3 wks	Sat 30/3/13	Fri 19/4/13
722	9th sty	3 wks	Sat 6/4/13	Fri 26/4/13
723	10th sty	3 wks	Sat 13/4/13	Sat 4/5/13
724	11th sty	3 wks	Sat 20/4/13	Sat 11/5/13
725	12th sty	3 wks	Sat 27/4/13	Sat 18/5/13
726	13th sty	3 wks	Mon 6/5/13	Sat 25/5/13
727	14th sty	3 wks	Mon 13/5/13	Sat 1/6/13
728	15th sty	3 wks	Mon 20/5/13	Sat 8/6/13

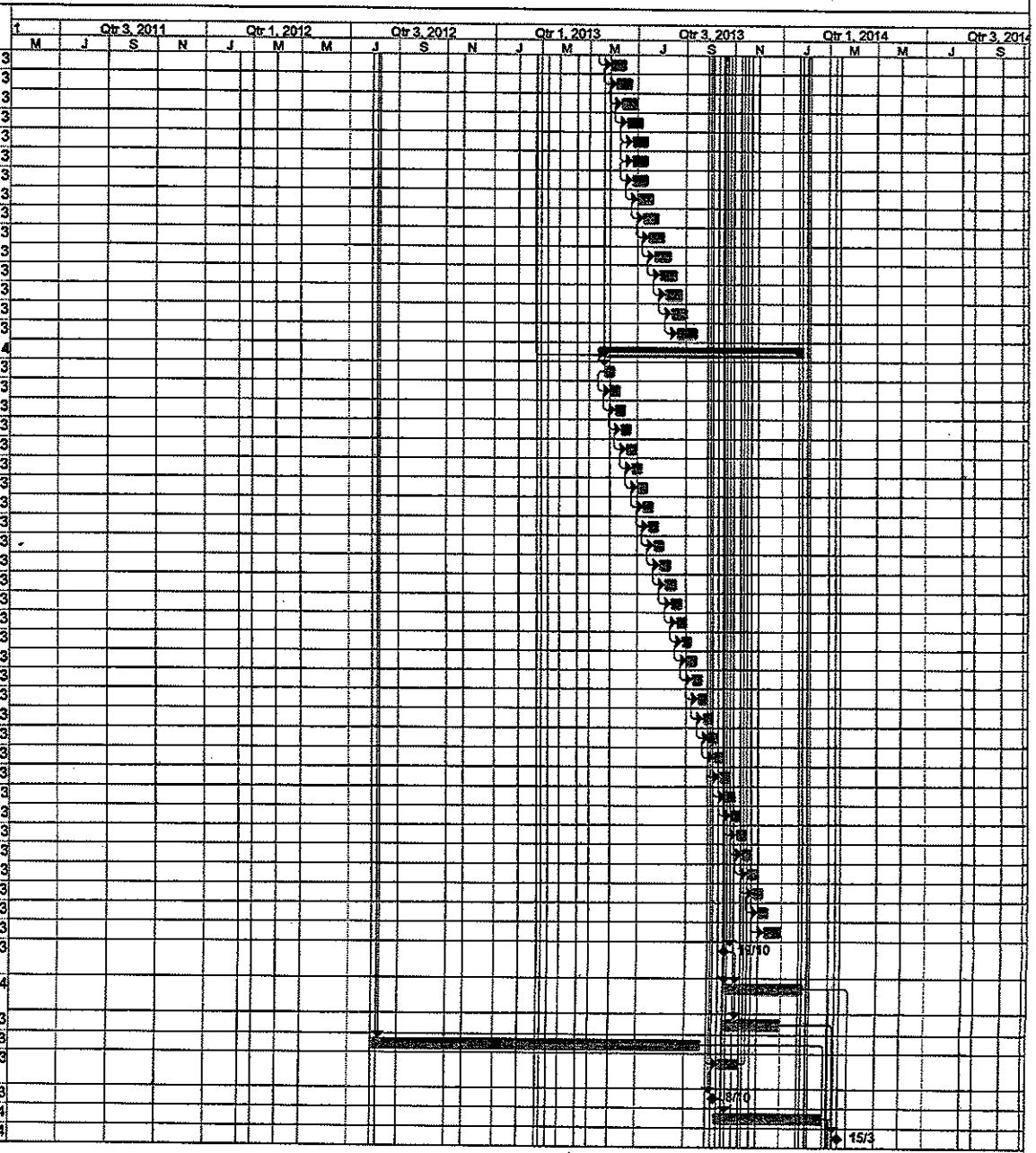


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MASTER CONSTRUCTION PROGRAMME

CONSULTANTS

ID	Task Name	Duration	Start	Finish
729	16th sty	3 wks	Mon 27/5/13	Sat 15/6/13
730	17th sty	3 wks	Mon 3/6/13	Sat 22/6/13
731	18th sty	3 wks	Mon 10/6/13	Sat 29/6/13
732	19th sty	3 wks	Mon 17/6/13	Sat 6/7/13
733	20th sty	3 wks	Mon 24/6/13	Sat 13/7/13
734	21th sty	3 wks	Mon 24/6/13	Sat 13/7/13
735	22th sty	3 wks	Mon 24/6/13	Sat 13/7/13
736	23th sty	3 wks	Mon 1/7/13	Sat 20/7/13
737	24th sty	3 wks	Mon 8/7/13	Sat 27/7/13
738	25th sty	3 wks	Mon 15/7/13	Sat 3/8/13
739	26th sty	3 wks	Mon 22/7/13	Mon 12/8/13
740	27th sty	3 wks	Mon 29/7/13	Mon 19/8/13
741	28th sty	3 wks	Mon 5/8/13	Mon 26/8/13
742	29th sty	3 wks	Tue 13/8/13	Sun 1/9/13
743	Roof, LMR & Water Tank	4 wks	Tue 20/8/13	Sat 14/9/13
744	**M & E Works (final fixing)**	**210 days**	**Mon 20/5/13**	**Tue 21/1/14**
745	1st sty	2 wks	Mon 20/5/13	Sat 1/6/13
746	2nd sty	2 wks	Mon 27/5/13	Sat 8/6/13
747	3rd sty	2 wks	Mon 3/6/13	Sat 15/6/13
748	4th sty	2 wks	Mon 10/6/13	Sat 22/6/13
749	5th sty	2 wks	Mon 17/6/13	Sat 29/6/13
750	6th sty	2 wks	Mon 24/6/13	Sat 6/7/13
751	7th sty	2 wks	Mon 1/7/13	Sat 13/7/13
752	8th sty	2 wks	Mon 8/7/13	Sat 20/7/13
753	9th sty	2 wks	Mon 15/7/13	Sat 27/7/13
754	10th sty	2 wks	Mon 22/7/13	Sat 3/8/13
755	11th sty	2 wks	Mon 29/7/13	Mon 12/8/13
756	12th sty	2 wks	Mon 5/8/13	Mon 19/8/13
757	13th sty	2 wks	Tue 13/8/13	Mon 26/8/13
758	14th sty	2 wks	Tue 20/8/13	Sun 1/9/13
759	15th sty	2 wks	Tue 27/8/13	Sat 7/9/13
760	16th sty	2 wks	Mon 2/9/13	Sat 14/9/13
761	17th sty	2 wks	Mon 9/9/13	Sat 21/9/13
762	18th sty	2 wks	Mon 16/9/13	Sat 28/9/13
763	19th sty	2 wks	Mon 23/9/13	Sat 5/10/13
764	20th sty	2 wks	Mon 30/9/13	Sat 12/10/13
765	21th sty	2 wks	Mon 7/10/13	Sat 19/10/13
766	22th sty	2 wks	Mon 14/10/13	Sat 26/10/13
767	23th sty	2 wks	Mon 21/10/13	Sat 2/11/13
768	24th sty	2 wks	Mon 28/10/13	Sat 9/11/13
769	25th sty	2 wks	Mon 4/11/13	Sat 16/11/13
770	26th sty	2 wks	Mon 11/11/13	Sat 23/11/13
771	27th sty	2 wks	Mon 18/11/13	Sat 30/11/13
772	28th sty	2 wks	Mon 25/11/13	Sat 7/12/13
773	29th sty	2 wks	Mon 2/12/13	Sat 14/12/13
774	Roof, LMR & Water Tank	3 wks	Mon 9/12/13	Mon 30/12/13
775	Handover M&E Risers for Sub-contractors to complete the M&E works	0 days	Sat 19/10/13	Sat 19/10/13
776	M&E Final fixing including booster pumps, wet riser pumps and hosereel pumps	14 wks	Mon 21/10/13	Tue 28/1/14
777	Electrical Installation (Switch/Power/Etc)	10 wks	Mon 21/10/13	Mon 30/12/13
778	P/M Hoist Installation	59 wks	Wed 1/8/12	Sat 21/9/13
779	Hand Over TER Room include 2wks of rectification works	4 wks	Mon 14/10/13	Sat 9/11/13
780	Hand over Lift Shaft to Lift Contractor	0 days	Tue 8/10/13	Tue 8/10/13
781	Lift Installation	19.5 wks	Wed 9/10/13	Mon 24/2/14
782	Lift Contract end at 16-03-14	0 days	Sat 15/3/14	Sat 15/3/14



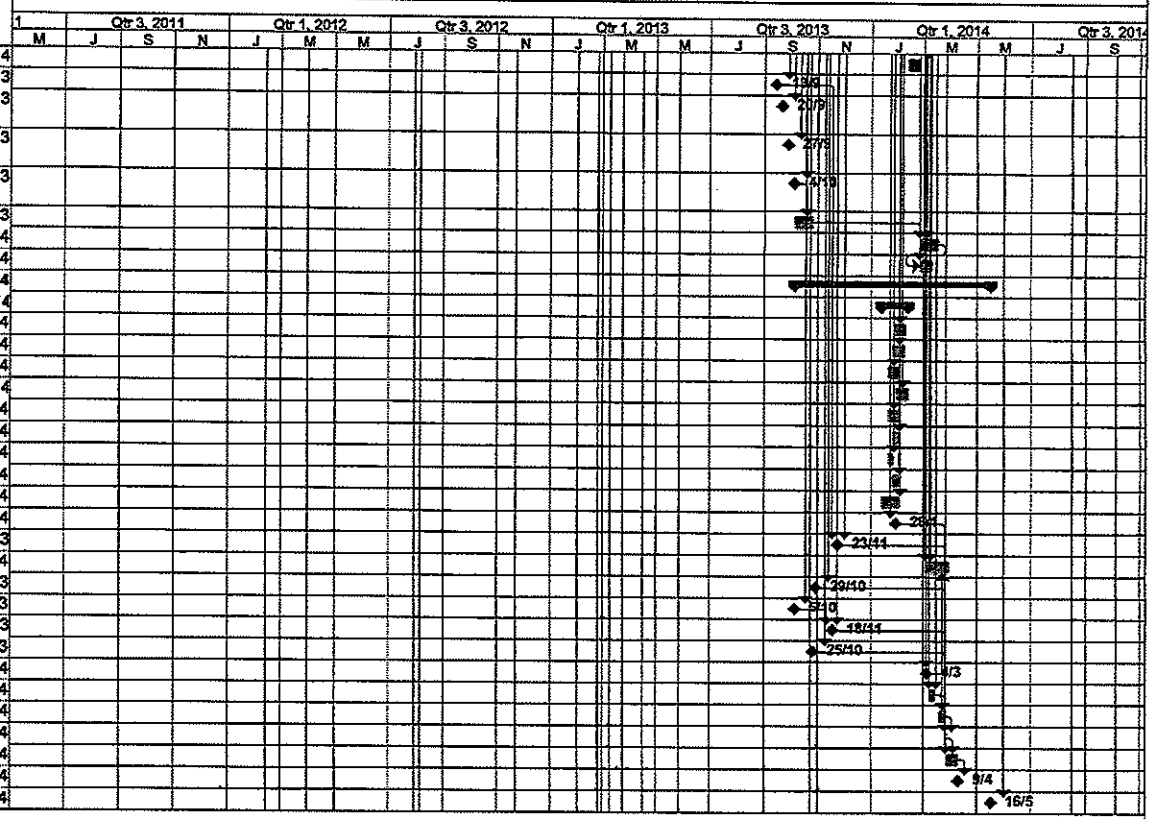
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AT SENJA ROAD FOR BUKIT PANJANG NEIGHBOURHOOD 6 CONTRACT 11

MASTER CONSTRUCTION PROGRAMME

CONSULTANTS

ID	Task Name	Duration	Start	Finish
783	Lift Laying Bricks	2 wks	Tue 11/2/14	Mon 24/2/14
784	Completion of CSR include 2wks of recticiation works	0 days	Fri 13/9/13	Fri 13/9/13
785	Completion of Wet Riser Transfer Tank Room include 2 wks of rectification works	0 days	Fri 20/9/13	Fri 20/9/13
786	Completion of Wet Riser Transfer Pump Room, include 2wks of rectification works	0 days	Fri 27/9/13	Fri 27/9/13
787	Completion of Domestic Water Transfer Tank Room, include 2 wks of rectification works	0 days	Fri 4/10/13	Fri 4/10/13
788	Remove of Tower Crane 3	3 wks	Sat 5/10/13	Fri 25/10/13
789	Remove of P/M Hoist	3 wks	Tue 25/2/14	Mon 17/3/14
790	Hoard up 636A for handing over	2 wks	Tue 25/2/14	Mon 10/3/14
791	**Block 636A Testing & Commissioning and Authorities Inspec**	189 days	Sat 5/10/13	Fri 16/5/14
792	**In-House Testing**	26 days	Mon 13/1/14	Tue 11/2/14
793	Chokage Test For Main and Secondary Stack Pipe	2 wks	Mon 27/1/14	Sat 8/2/14
794	Leakage Test For Refuse Chute Flushing System	2 wks	Sat 25/1/14	Fri 7/2/14
795	Water Test For Toilet and Wet Kitchen	2 wks	Mon 20/1/14	Sat 1/2/14
796	Water Pipe Pressure For Concealed Pipes	2 wks	Wed 29/1/14	Tue 11/2/14
797	Gradient Test For House Drain	2 wks	Mon 20/1/14	Sat 1/2/14
798	Gradient Test For Sewer Lines	1 wk	Sat 25/1/14	Fri 31/1/14
799	Water Test For Main Roof	1 wk	Mon 20/1/14	Sat 25/1/14
800	Water Test For Scupper Drains	1 wk	Sat 25/1/14	Fri 31/1/14
801	Watertightness Test For Window	3 wks	Mon 13/1/14	Sat 1/2/14
802	BCA Housesheltter Inspection	0 days	Tue 28/1/14	Tue 28/1/14
803	Power Turn-on to CSR	0 days	Sat 23/11/13	Sat 23/11/13
804	Electrical Testing including LPS	4 wks	Mon 3/3/14	Sat 29/3/14
805	CBPU Clearance	0 days	Tue 29/10/13	Tue 29/10/13
806	Install water sub meter	0 days	Sat 5/10/13	Sat 5/10/13
807	PUB (Water) Turn-on	0 days	Mon 18/11/13	Mon 18/11/13
808	City Gas Inspection	0 days	Fri 25/10/13	Fri 25/10/13
809	Lift Testing & Commissioning	0 days	Tue 4/3/14	Tue 4/3/14
810	RI (M&E)	1 wk	Sat 8/3/14	Fri 14/3/14
811	RI (Arch.)	1 wk	Wed 19/3/14	Tue 25/3/14
812	BCA TOP	1 day	Wed 26/3/14	Wed 26/3/14
813	BUI Inspection (hand over all the Authorities Certificates)	2 wks	Thu 27/3/14	Wed 9/4/14
814	Hand over to HDB (PACD)	0 days	Wed 9/4/14	Wed 9/4/14
815	Phase 5 - Block 636A and site External Works (OCD)	0 days	Fri 16/5/14	Fri 16/5/14

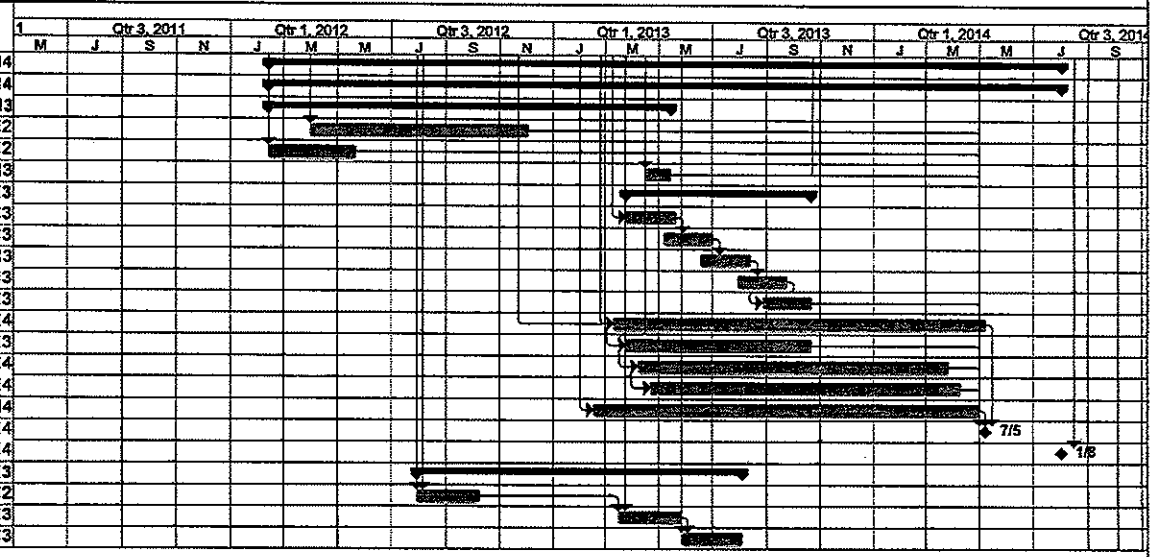


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CONSULTANTS

ID	Task Name	Duration	Start	Finish
816	Neighbourhood Park	766 days	Mon 13/2/12	Fri 1/8/14
817	**EXTERNAL WORKS**	**766 days**	**Mon 13/2/12**	**Fri 1/8/14**
818	**Minor Sewer Works**	**387 days**	**Mon 13/2/12**	**Tue 14/5/13**
819	Minor Sewer construction	35 wks	Sat 31/3/12	Mon 3/12/12
820	Trunk Sewer Construction (by Hock Hai)	14 wks	Mon 13/2/12	Mon 21/5/12
821	Connection to Existing Sewer (unplug sewer)	4 wks	Tue 16/4/13	Tue 14/5/13
822	**Undergrond services Laying**	**180 days**	**Mon 25/3/13**	**Mon 21/10/13**
823	Electrical	8 wks	Mon 25/3/13	Mon 20/5/13
824	Water	8 wks	Tue 7/5/13	Mon 1/7/13
825	Gas	8 wks	Tue 18/6/13	Tue 13/8/13
826	Telecom/Singtel	8 wks	Tue 30/7/13	Mon 23/9/13
827	StarHub	8 wks	Wed 28/8/13	Mon 21/10/13
828	Drainage Works	60 wks	Mon 11/3/13	Wed 7/5/14
829	Culvert	30 wks	Mon 25/3/13	Mon 21/10/13
830	Drainage, Driveway and Road	50 wks	Mon 8/4/13	Wed 26/3/14
831	Precinct Pavilion & Linkway	50 wks	Mon 22/4/13	Wed 9/4/14
832	Landscaping Works	62 wks	Sat 16/2/13	Tue 29/4/14
833	Hand over of Neighbourhood Park (PACD)	0 days	Wed 7/5/14	Wed 7/5/14
834	Phase 6 - Neighbourhood Park (OCD)	0 days	Fri 1/8/14	Fri 1/8/14
835	**CONQUAS targeted inspection dates**	**314 days**	**Mon 30/7/12**	**Sat 3/8/13**
836	Structures	10 wks	Mon 30/7/12	Mon 8/10/12
837	Architectural	10 wks	Sat 16/3/13	Sat 25/5/13
838	M&E	10 wks	Mon 27/5/13	Sat 3/8/13



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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	22/7/10	22/7/10							2/8/10
Power Supply Substation	SP PowerGrid Ltd	30/6/11	16/9/11		14/11/11					19/12/11
Metering Layout	SP Services Ltd	-								
Sanitary Installation	PUB Water Reclamation (Network) Dept	31/8/12	10/4/13	17/4/13	30/5/13					7/6/13
Domestic Water Supply	PUB (Water Supply) Network Dept	29/7/11	22/2/12	5/4/12	3/5/12					5/7/12
Gas Supply Installation	City Gas Pte Ltd	30/6/11	13/6/11	3/8/11	3/10/11					7/10/11
Air Conditioning & Ventilation Inst.	FSSD	-								
Fire Fighting & Alarm Installation	FSSD	29/1/14								
Telephone Installation	TFCC	30/3/12	11/5/12							30/5/12
Broadband Co-axial Cable System (BCS)	Starhub Cable Vision									
Fuel Storage	FSSD									
	NEA (Pollution Control)									

SECTION 4

PROGRAMME

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

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)	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	✓	- PQP/QSP	✓
- CC/CF			

Project Files to be initiated by PM as and when required

File Ref:		File Ref:		File Ref:	
MC/EC	✓				

(✓*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	YYF
Incoming Architectural Sketches/Details	YYF
Incoming Structural Drawings	YYF
M&E Drawings	
- Electrical Installation	EAD
- Lift & Escalator Installation	EAD
- Air Conditioning & Ventilation Installation	YYF
- Fire Fighting & Alarm Installation	YYF
- Plumbing & Sanitary Installation	YYF
- Swimming Pool & Filtration Installation	-
Other Drawings	

SECTION 6

INTERFACING

6.1 Method of Interface

Description	Method of Interface	
Client's Review & Approval	M&E Design Report	✓
	Pre-planned meeting at fixed intervals	✓
	Telefax, letter and telephone	✓
	Email	✓
Interface With External Design Teams	M&E Design Report	✓
	Pre-planned meeting at fixed intervals	✓
	Telefax, letter and telephone	✓
	Email	✓
Interface Between Internal Design Teams	Telephone	✓
	Email	✓
	Internal Project Team Meeting	✓
	Circulation of Information	✓

(✓*where applicable*)

SECTION 6

INTERFACING

6.2 Internal Design Interface – NOT USED

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	A	A	A	C	I	
b.	Project Administration	A	A	C	C	I	
c.	Project Cost Estimate/Contract Cost	A	A	C	C	I	
2.	**Drawings**						
a.	Outline Design Drgs.	A	A	A	C	-	
b.	Sketch Design Drgs.	A	A	A	C	-	
c.	Final Design Drgs.	A	A	A	C	-	
d.	Shop Drawings	I	I	A	C	-	
e.	As Built Drgs.	I	I	I	I	-	
3.	**Other Document**						
a.	Specification	A	A	I	I	I	
b.	Tender Document	A	A	I	I	I	
c.	Tender Evaluation Report	A	A	I	I	I	
d.	Design Report	A	A	C	-	-	
e.	Progress Report	A	A	A	I	I	
f.	Financial Report	A	A	I	I	I	
g.	Minutes of Meeting	I	I	I	I	I	
h.	Inspection Report	I	I	I	-	-	
i.	Testing & Comm. Report	I	I	I	-	-	
j.	O & M Manual	I	I	I	-	-	

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 Questionaires					
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	YYF

8.2 List of Applicable Code of Practice and Regulations

Services	Title of Code of Practice/Standard
Electrical Wiring	SS CP5
Lightning Protection System	SS 555
Emergency Voice Communication System	-
Air Conditioning & Ventilation Installation	SS CP 553
Lift & Escalator Installation	SS CP 550
Sprinkler System	SS CP 52
Wet Riser System	SS CP 29
Automatic Fire Alarm System	SS CP 10
Sanitary System	Code of Practice on Sewerage & Sanitary Works
Plumbing System	SS CP 48
Town Gas/LPG Supply System	SS CP 51
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

8.4 List of Pre-Consultation and Waiver (NOT USED)

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	
QE1	Quality & Environmental System Audit	✓
QE2	Feedback Reporting	✓
QE3	Clients Feedback	✓
QE4	Management Review	

8.6 List of Software Used For Design/Analysis - NOT USED

DESCRIPTION/ PACKAGE NAME	VERSION	SUPPLIER/ SOURCE	PURPOSE	
Calculux	2.30	Philips	Lighting design	
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	
Lift Traffic	-	Alpha Consulting Engineers Pte Ltd	Lift traffic calculation	
Econdial	2.5	Merlin Gerlin	Design for low voltage network	
Hyena	4.00.1	ACADS-BSG	Fire Sprinkler & Hydrant Analysis	
Fault Level Calculation	-	Alpha Consulting Engineers Pte Ltd	Calculation of voltage drop and fault level	

(✓*where applicable*)

SECTION 9

ENVIRONMENTAL CONSIDERATIONS

9.1 Sustainable Design Features / Criteria

Item	Remarks
Green Mark criteria	Gold
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

- LED Light at common areas
- Motion Sensor at stair
- T5 fluorescent luminaire
- Cool paint on east & west walls
- 2 ticks shower mixer tap, basin mixer tap & bib tap and 3 ticks dual flush water closet
- Private sub-meter provided at all blocks
- Ferro-lite wall for internal partitions
- Versi-Tank for bio-retention rain garden
- VerisWeb for slope protection
- Composite timber for boardwalk, trellis and seats
- Low VOC paint on internal walls

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	A
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 USED**

SECTION 11

LIST OF SUB-JOB

11.1 List of Sub-Job Numbers - NOT USED

Sub Job No	Description	Allocation Details