

SUNLEY ENGINEERING & CONSTRUCTION CO., LTD.

Contract No. 15/8009 - Lamma Power Station Extension Foundation Works for Unit L10

Master Programme Revision 1

ID	Item	Task Name	Duration	Start	Finish
1	1	Key Date	486 days	2016/1/1	2017/4/30
2	1.1	Commencement date	0 days	2016/1/1	2016/1/1
3	1.2	Duration of works	486 days	2016/1/1	2017/4/30
4	1.3	Possession date	0 days	2016/1/1	2016/1/1
5	1.4	Completion of the Contract	0 days	2017/4/30	2017/4/30
6					
7	2	Total Contract Period	486 days	2016/1/1	2017/5/1
8					
9	2.1	Preliminaries	37 days	2016/1/1	2016/2/6
10	2.1.1	Coordination with utility companies	14 days	2016/1/1	2016/1/14
11	2.1.2	Condition survey	20 days	2016/1/1	2016/1/20
12	2.1.3	Notification of commencement of works to Labour Department	7 days	2016/1/1	2016/1/7
13	2.1.4	Notification of air pollution control for commencement of works to EPD	7 days	2016/1/1	2016/1/7
14	2.1.5	Application of water discharge licence from EPD	7 days	2016/1/1	2016/1/7
15	2.1.6	Application for billing account for disposal of construction waste from EPD	7 days	2016/1/1	2016/1/7
16	2.1.7	CCTV for existing underground drainage pipe around site boundary	21 days	2016/1/1	2016/1/21
17	2.1.8	Utility detection for existing underground cables	20 days	2016/1/1	2016/1/20
18	2.1.9	Site clearance	21 days	2016/1/1	2016/1/21
19	2.1.10	Erection of contractor's site office	21 days	2016/1/1	2016/1/21
20	2.1.11	Installation of monitoring checkpoints	20 days	2016/1/18	2016/2/6
21	2.1.12	Submission of BA10 for ELS & foundation works	0 days	2016/1/1	2016/1/1
22					
23	2.2	Section A	305 days	2016/1/1	2016/10/31
24	2.2.1	Hoarding	90 days	2016/1/1	2016/3/30
25	2.2.1.1	Erection of Hoarding	90 days	2016/1/1	2016/3/30
26	2.2.2	Foundation Works at Unit L10	295 days	2016/1/11	2016/10/31
27	2.2.2.1	Bored Pile - Temporary Steel Casing	56 days	2016/1/22	2016/3/17
28	2.2.2.1.1	Duration for delivery temporary steel casing	56 days	2016/1/22	2016/3/17
29	2.2.2.2	Bored Pile - Permanent Casing & Double Wall Liner	172 days	2016/2/24	2016/8/13
30	2.2.2.2.1	Testing for double wall liner	0 days	2016/2/24	2016/2/24
31	2.2.2.2.2	Duration for delivery permanent casing & double wall liner	160 days	2016/3/7	2016/8/13
32	2.2.2.3	Bored Pile - Plant Mobilization	56 days	2016/1/15	2016/3/11
33	2.2.2.3.1	Crawler Crane	53 days	2016/1/15	2016/3/8
34	2.2.2.3.1.1	1st & 2nd set	0 days	2016/1/15	2016/1/15
35	2.2.2.3.1.2	3rd set	0 days	2016/2/4	2016/2/4
36	2.2.2.3.1.3	4th & 5th set	0 days	2016/2/19	2016/2/19
37	2.2.2.3.1.4	6th set	0 days	2016/3/8	2016/3/8
38	2.2.2.3.2	Oscillator	35 days	2016/1/29	2016/3/4
39	2.2.2.3.2.1	1st & 2nd set	0 days	2016/1/29	2016/1/29
40	2.2.2.3.2.2	3rd & 4th set	0 days	2016/2/24	2016/2/24
41	2.2.2.3.2.3	5th set	0 days	2016/3/4	2016/3/4
42	2.2.2.3.3	RCD	7 days	2016/3/4	2016/3/11
43	2.2.2.3.3.1	1st & 2nd set	0 days	2016/3/4	2016/3/4
44	2.2.2.3.3.2	3rd, 4th & 5th set	0 days	2016/3/11	2016/3/11
45	2.2.2.4	Predrilling	60 days	2016/1/11	2016/3/10
46	2.2.2.4.1	Predrilling works (38 nos.)	60 days	2016/1/11	2016/3/10
47	2.2.2.5	Bored Pile Construction	263 days	2016/2/12	2016/10/31
48	2.2.2.5.1	Bored pile construction (38 piles)	215 days	2016/2/12	2016/9/13
49	2.2.2.5.2	Interface & sonic test	30 days	2016/8/25	2016/9/23
50	2.2.2.5.3	Prepare & submit as-built record plan	7 days	2016/9/17	2016/9/23
51	2.2.2.5.4	Submission of BA14	1 day	2016/9/23	2016/9/23
52	2.2.2.5.5	Allow 14 days for selection of pile for concrete full core test	14 days	2016/9/24	2016/10/7

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Task Critical Task Milestone Summary

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ID	Item	Task Name	Duration	Start	Finish
53	2.2.2.5.6	Concrete full core test	14 days	2016/10/8	2016/10/21
54	2.2.2.5.7	Compression test for concrete core	7 days	2016/10/22	2016/10/28
55	2.2.2.5.8	Submission of log report & compression test report	4 days	2016/10/28	2016/10/31
56	2.2.2.6	Sheet Pile	92 days	2016/7/22	2016/10/21
57	2.2.2.6.1	Plant mobilization	0 days	2016/7/31	2016/7/31
58	2.2.2.6.2	Delivery sheet pile material	0 days	2016/7/22	2016/7/22
59	2.2.2.6.3	Installation of sheet pile - Type A (approx. 212 piles)	50 days	2016/8/1	2016/9/19
60	2.2.2.6.4	Installation of sheet pile - Type B (approx. 100 piles)	24 days	2016/9/20	2016/10/13
61	2.2.2.6.5	Prepare & submit as-built record plan	7 days	2016/10/14	2016/10/20
62	2.2.2.6.6	Submission of BA14	1 day	2016/10/21	2016/10/21
63	2.2.2.7	Completion of foundation works at Unit L10	0 days	2016/10/31	2016/10/31
64	2.2.3	New Site Facilities	198 days	2016/1/1	2016/7/16
65	2.2.3.1	Submission for design of site office A	90 days	2016/1/1	2016/3/30
66	2.2.3.2	Approval for design of site office A	28 days	2016/3/31	2016/4/27
67	2.2.3.3	Erection of site office A	50 days	2016/4/28	2016/6/16
68	2.2.3.4	Erection of wasing facilities with shelter & container shower facilities	20 days	2016/5/28	2016/6/16
69	2.2.3.5	Installation of earthing	30 days	2016/6/7	2016/7/6
70	2.2.3.6	Installation of portable water pipes	30 days	2016/6/17	2016/7/16
71	2.2.3.7	Installation of sewage drain pipes	30 days	2016/6/17	2016/7/16
72	2.2.3.8	Completion of new site facilities	0 days	2016/7/16	2016/7/16
73	2.2.4	Completion of section A	0 days	2016/10/31	2016/10/31
74	2.2.5	Demobilization of plants	0 days	2016/10/21	2016/10/21
75	2.3	Handover of site works area for Section A	0 days	2016/11/1	2016/11/1
76					
77	2.4	Section B	121 days	2016/1/1	2016/4/30
78	2.4.1	Ground Treatment Works	121 days	2016/1/1	2016/4/30
79	2.4.1.1	Verification GI works (approx. 20 nos.)	14 days	2016/2/20	2016/3/4
80	2.4.1.2	Plant mobilization	55 days	2016/1/1	2016/2/24
81	2.4.1.3	Trial installation of band drain	5 days	2016/2/25	2016/2/29
82	2.4.1.4	Installation of band drain (approx. 2477 nos.)	45 days	2016/3/1	2016/4/14
83	2.4.1.5	Installation of steel plate & geotextile on existing U-channel	20 days	2016/3/28	2016/4/16
84	2.4.1.6	Filling of surcharge (approx. 21000 m3)	20 days	2016/4/7	2016/4/26
85	2.4.1.7	Installation of ground settlement markers	10 days	2016/4/21	2016/4/30
86	2.4.2	Completion of section B	0 days	2016/4/30	2016/4/30
87					
88	2.5	Section C	229 days	2016/9/14	2017/4/30
89	2.5.1	Hoarding	45 days	2016/11/1	2016/12/15
90	2.5.1.1	Erection of Hoarding	45 days	2016/11/1	2016/12/15
91	2.5.2	Foundation Works at 275kV Substation Building	229 days	2016/9/14	2017/4/30
92	2.5.2.1	Early start milestone	0 days	2016/10/6	2016/10/6
93	2.5.2.2	Bored Pile - Temporary Steel Casing	7 days	2016/9/14	2016/9/20
94	2.5.2.2.1	Duration for delivery temporary steel casing	7 days	2016/9/14	2016/9/20
95	2.5.2.3	Bored Pile - Permanent Casing & Double Wall Liner	120 days	2016/9/26	2017/1/23
96	2.5.2.3.1	Duration for delivery permanent casing & double wall liner	120 days	2016/9/26	2017/1/23
97	2.5.2.4	Bored Pile - Plant Mobilization	14 days	2016/10/1	2016/10/15
98	2.5.2.4.1	Crawler Crane	0 days	2016/10/1	2016/10/1
99	2.5.2.4.1.1	1st & 2nd set	0 days	2016/10/1	2016/10/1
100	2.5.2.4.2	Oscillator	0 days	2016/10/5	2016/10/5
101	2.5.2.4.2.1	1st & 2nd set	0 days	2016/10/5	2016/10/5
102	2.5.2.4.3	RCD	0 days	2016/10/15	2016/10/15
103	2.5.2.4.3.1	1st & 2nd set	0 days	2016/10/15	2016/10/15
104	2.5.2.5	Predrilling	21 days	2016/11/1	2016/11/21

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Task  Critical Task  Milestone  Summary 

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ID	Item	Task Name	Duration	Start	Finish
105	2.5.2.5.1	Predrilling works (10 nos.)	21 days	2016/11/1	2016/11/21
106	2.5.2.6	Bored Pile	181 days	2016/11/1	2017/4/30
107	2.5.2.6.1	Installation of monitoring checkpoints	7 days	2016/11/1	2016/11/7
108	2.5.2.6.2	Bored pile construction (10 piles)	125 days	2016/11/10	2017/3/14
109	2.5.2.6.3	Interface & sonic test	20 days	2017/3/9	2017/3/28
110	2.5.2.6.4	Prepare & submit as-built record plan	7 days	2017/3/22	2017/3/28
111	2.5.2.6.5	Submission of BA14	1 day	2017/3/28	2017/3/28
112	2.5.2.6.6	Allow 14 days for selection of pile for concrete full core test	14 days	2017/3/29	2017/4/11
113	2.5.2.6.7	Concrete full core test	10 days	2017/4/12	2017/4/21
114	2.5.2.6.8	Compression test for concrete core	7 days	2017/4/21	2017/4/27
115	2.5.2.6.9	Submission of log report & compression test report	4 days	2017/4/27	2017/4/30
116	2.5.2.7	Completion of foundation works at 275kV substation building	0 days	2017/4/30	2017/4/30
117	2.5.3	Trial Pile	212 days	2016/10/1	2017/4/30
118	2.5.3.1	Early start milestone	0 days	2016/10/1	2016/10/1
119	2.5.3.2	Submission of BA10 for trial pile	7 days	2016/11/1	2016/11/7
120	2.5.3.3	Predrilling	28 days	2016/11/8	2016/12/5
121	2.5.3.3.1	Predrilling works (3 nos.)	28 days	2016/11/8	2016/12/5
122	2.5.3.4	Ground Instrumentation	24 days	2016/11/22	2016/12/15
123	2.5.3.4.1	Installation of magnetic extensometer in predrilled hole (3 nos.)	16 days	2016/11/22	2016/12/7
124	2.5.3.4.2	Installation of settlement plate	10 days	2016/12/6	2016/12/15
125	2.5.3.5	Construction of Trial Pile	136 days	2016/12/16	2017/4/30
126	2.5.3.5.1	Installation of trial pile (6 piles)	84 days	2016/12/16	2017/3/9
127	2.5.3.5.2	Dynamic pile test	72 days	2016/12/29	2017/3/10
128	2.5.3.5.3	Static load test	42 days	2017/3/11	2017/4/21
129	2.5.3.5.4	Prepare & submit as-built record plan	7 days	2017/4/17	2017/4/23
130	2.5.3.5.5	Submission of BA14	1 day	2017/4/23	2017/4/23
131	2.5.3.5.6	Cut off the piles to level +3.0mPD	7 days	2017/4/24	2017/4/30
132	2.5.3.6	Completion of trial pile	0 days	2017/4/30	2017/4/30
133	2.5.4	Completion of section C	0 days	2017/4/30	2017/4/30
134	2.5.5	Demobilization of plants	0 days	2017/4/30	2017/4/30
135	2.6	Handover of site works area for Section C	0 days	2017/5/1	2017/5/1
136					
137	2.7	Section D	383 days	2016/1/15	2017/1/31
138	2.7.1	General Site Works	36 days	2016/3/1	2016/4/5
139	2.7.1.1	Cable duct & draw pit	21 days	2016/3/1	2016/3/21
140	2.7.1.2	Relocation of lamp pole (5 poles)	20 days	2016/3/17	2016/4/5
141	2.7.2	G.I. Works	99 days	2016/3/4	2016/6/10
142	2.7.2.1	Submission of BA10 for G.I. works	7 days	2016/3/4	2016/3/10
143	2.7.2.2	Carry out G.I. works (11 nos.)	85 days	2016/3/11	2016/6/3
144	2.7.2.3	Prepare & submit as-built record plan	7 days	2016/6/4	2016/6/10
145	2.7.2.4	Submission of BA14	1 day	2016/6/10	2016/6/10
146	2.7.3	Ground Treatment Time	276 days	2016/5/1	2017/1/31
147	2.7.3.1	9 months for monitoring settlement after completion of ground treatment	276 days	2016/5/1	2017/1/31
148	2.7.4	External Works	227 days	2016/1/15	2016/8/28
149	2.7.4.1	Repair & make good site office B & existing latrines	90 days	2016/3/1	2016/5/29
150	2.7.4.2	Removal of the employer's materials stored in E6 area as instructed by the Engineer	90 days	2016/1/15	2016/4/13
151	2.7.4.3	Installation of bund wall of sandbags	60 days	2016/5/1	2016/6/29
152	2.7.4.4	Construction of new type 3 road	60 days	2016/6/30	2016/8/28
153	2.7.5	Completion of section D	0 days	2017/1/31	2017/1/31
154					
155	2.8	Contract completion	0 days	2017/4/30	2017/4/30

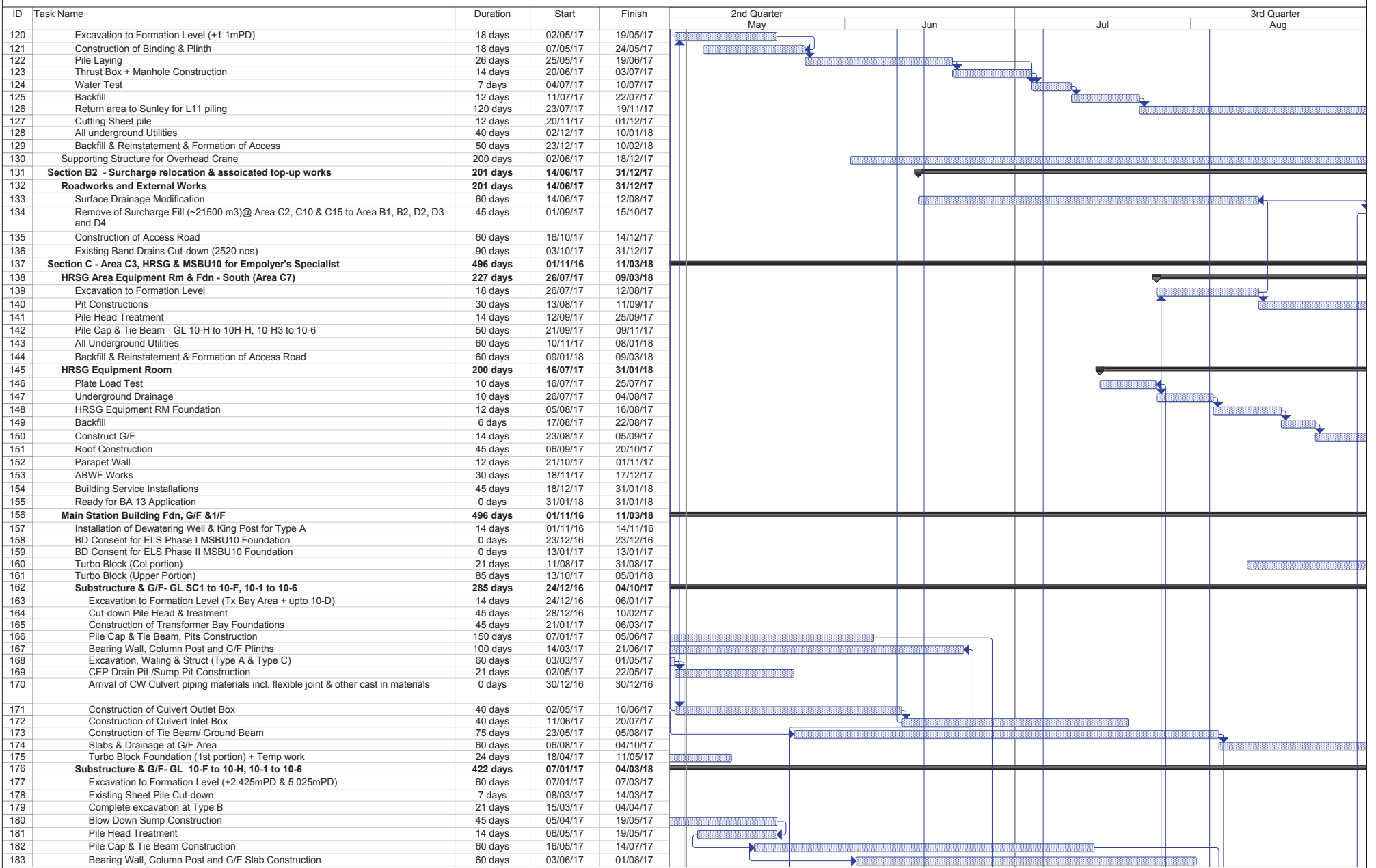
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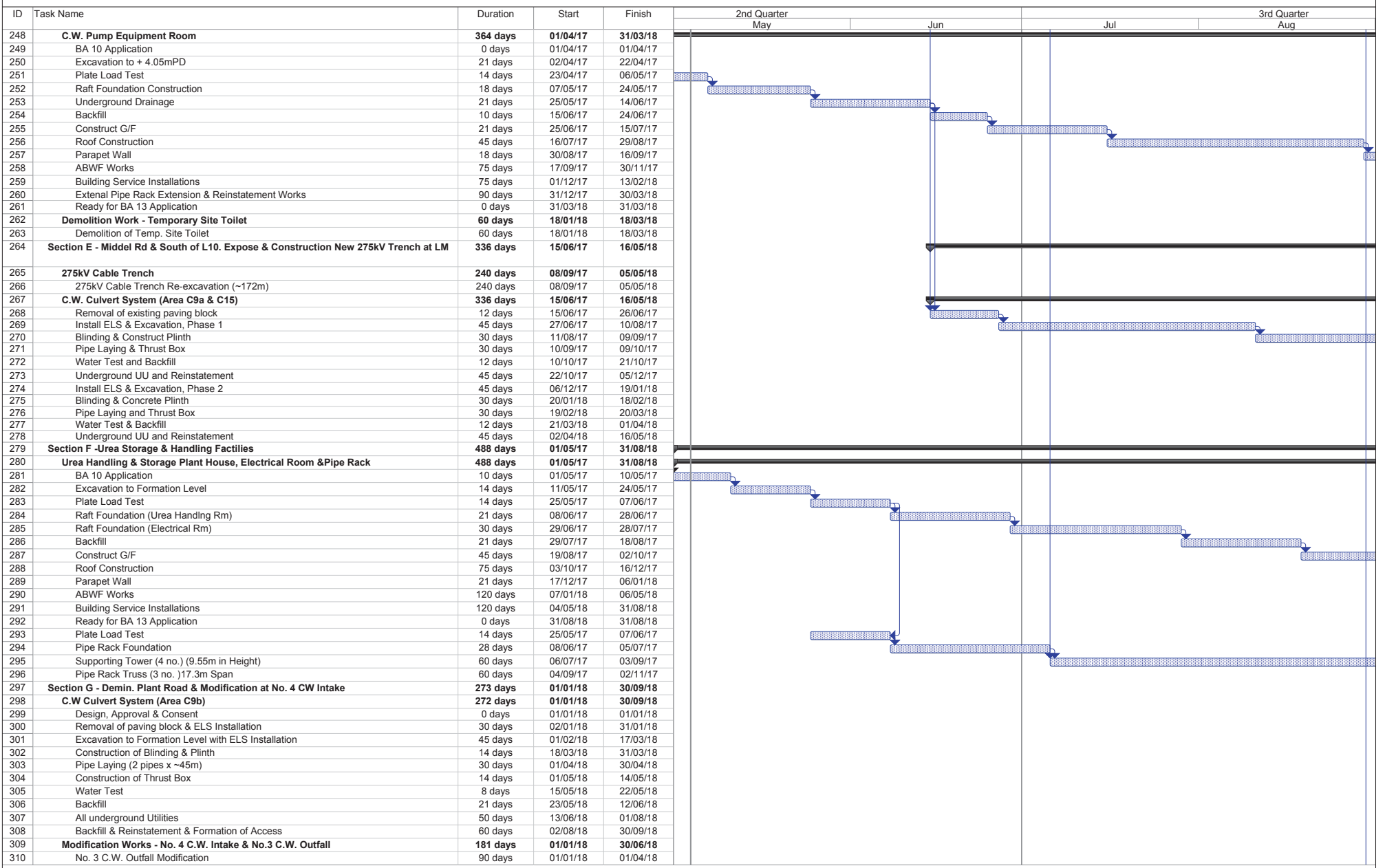
Task  Critical Task  Milestone  Summary 

ID	Task Name	Duration	Start	Finish	2nd Quarter			3rd Quarter	
					May	Jun	Jul	Aug	
1	Contract Key Date	1308 days	01/11/16	31/05/20					
2	Possession Date	1308 days	01/11/16	31/05/20					
3	Contract Commencement Date	0 days	01/11/16	01/11/16					
4	Section A1 - Modify Plinth at Ext. GRS	61 days	01/11/16	31/12/16					
5	Section A2 - LPS Site Office Building	410 days	14/11/16	28/12/17					
6	Section B1 - Area C1&2 incl. all UG structures & Temp. Access for Employer's Specialist	426 days	12/12/16	10/02/18					
7	Section B2 - Surcharge relocation & associated top-up works	122 days	01/09/17	31/12/17					
8	Section C - Area C3, HRSG & MSBU10 for Employer's Specialist	457 days	10/12/16	11/03/18					
9	Section D - Remaining of MSBU10, HRSG, A&A at L9 & L8, Ext. & Demolish Site Toilet	516 days	10/12/16	09/05/18					
10	Section D - CW Pump Equip. Rm No. 4	365 days	01/04/17	31/03/18					
11	Section E - Middel Rd & South of L10. Expose & Construction New 275kV Trench at LMX	577 days	01/11/16	31/05/18					
12	Section F -Urea Storage & Handling Facilities	488 days	01/05/17	31/08/18					
13	Section G - Demin. Plant Road & No.3 Outfall	273 days	01/01/18	30/09/18					
14	Section G - Modification at No. 4 CW Intake	122 days	01/03/18	30/06/18					
15	Section H1 - Gas Support foundation & trench at Area C11	745 days	01/11/16	15/11/18					
16	Section H2 - GRS Improvement work at Area C10	441 days	01/09/17	15/11/18					
17	Section H3 - L10 Chimney Flue and A&A L9 & pipe rack formation	319 days	01/01/18	15/11/18					
18	Section I1 - Link Bridge & associated A&A	455 days	01/01/18	31/03/19					
19	Section I2 - Shunt Reactor SR4 Foundation	90 days	01/01/19	31/03/19					
20	Section I3 - All remaining work except deferred works	417 days	08/02/18	31/03/19					
21	Section J - Cable Route CPX1&2 cable diversion & whole of work except deferred works to be carried out in DLP	790 days	02/05/17	30/06/19					
22	Deferred works during DLP	336 days	01/07/19	31/05/20					
23	General & Preliminary	537 days	01/11/16	21/04/18					
24	Set up Temporary Site Office and Utilities	30 days	01/11/16	30/11/16					
25	Full Mobilization	14 days	01/11/16	14/11/16					
26	Permit Applications & Statuary Submissions	45 days	08/11/16	22/12/16					
27	Existing Utilities scanning & Excavation Permit	45 days	01/11/16	15/12/16					
28	Foundation of Tower Crane Construction	7 days	28/03/17	03/04/17					
29	Tower Crane Erection	5 days	14/04/17	18/04/17					
30	Removal of Tower Crane (Including Foundation)	18 days	04/04/18	21/04/18					
31	L10 MSB External Scaffolding erection	145 days	06/08/17	28/12/17					
32	L10 MSB External Scaffolding Removal	30 days	05/03/18	03/04/18					
33	Submission and Approval	450 days	01/11/16	24/01/18					
34	Method Statement / Temp Work Submission & Approval from HEC for General Works	240 days	01/11/16	28/06/17					
35	BD Approval & Consent (If required)	90 days	01/12/16	28/02/17					
36	BIM Model, CSD & CBWD Submission & Approval from HEC	200 days	01/12/16	18/06/17					
37	Structure Steelwork Connection Design Submission & BD Approval	30 days	31/12/16	29/01/17					
38	Structure Steelwork Shop Drawing & Approval	30 days	30/01/17	28/02/17					
39	Metal Cladding, louvre & windows submission & BD Approval	60 days	30/01/17	30/03/17					
40	Metal Cladding, louvre & windows shop drawing submission	45 days	14/02/17	30/03/17					
41	Order, Off Site Fabrication and Delivery (S. Steel & Cladding & louvres)	130 days	31/03/17	07/08/17					
42	CW Culvert (Inlet) ELS BD approval & consent	90 days	01/12/16	28/02/17					
43	Submission & Approval of Steel Flue Assessment Report and Design Drawings	210 days	01/12/16	28/06/17					
44	Submission and Approval of Steel Flue Design from BD	60 days	29/06/17	27/08/17					
45	Material Fabrication & Delivery for L10 Flue	150 days	28/08/17	24/01/18					
46	Folding Shutters Shop Drawing Submission & Approval	120 days	01/12/16	30/03/17					
47	Fabrication & Delivery of Folding Shutters	150 days	31/03/17	27/08/17					
48	Sewage Pump System Design submission & Approval	60 days	15/05/17	13/07/17					
49	Fabrication & Delivery of Sewage Pump	150 days	14/07/17	10/12/17					
50	Other Material Submission & Approval & Deliveries	240 days	14/02/17	11/10/17					
51	Coordination with the Employer's Specialist Contractors	534 days	16/05/17	31/10/18					
52	Outlet Culvert Box Vertical Puddle Pipes Installation	7 days	16/05/17	22/05/17					
53	Inlet Culvert Box Vertical Puddle Pipes Installation	7 days	25/06/17	01/07/17					
54	Template setting in at L10 Turbo Block Foundation	45 days	03/11/17	17/12/17					
55	Template setting of holding down bolts at HRSG Column Base	45 days	03/11/17	17/12/17					
56	I-beam/ Channel Base Installation on top of Transformer Foundations at Transformer Area	32 days	08/02/18	11/03/18					
57	Overhead crane rail delivery	0 days	28/09/17	28/09/17					
58	Overhead crane rail installation	18 days	01/12/17	19/12/17					
59	Overhead Crane Erection at Turbine Hall using Access through a Temporary Opening at L10 MSB Roof between GL 10-G to 10-H and 10-2 and 10-6	38 days	19/12/17	25/01/18					

ID	Task Name	Duration	Start	Finish	2nd Quarter			3rd Quarter	
					May	Jun	Jul	Aug	
60	Condenser Assembly and Erection using Access through a Temporary Opening at L10 MSE below 1/F along GL 10-6 from GL 10-B to 10-C including a Clear Space below 1/F between GL 10-B to 10-C	89 days	11/02/18	10/05/18					
61	Installation of Power Train Equipment including Air Inlet Duct using Access through a Temporary Façade Opening at L10 MSB below 1/F along GL 10-6 from GL 10-F to 10-H including a Clear Space below 1/F of the above Area	89 days	11/02/18	10/05/18					
62	Installation of Equipment in L10 HRSG Area after the Temporary Paving was Removed to Expose the Respective Foundations by the Contractor	78 days	15/08/18	31/10/18					
63	Installation of Embedded Materials such as Holding Down Bolts for Equipment Foundation	300 days	16/05/17	11/03/18	[Gantt bar spanning from May to Aug]				
64	Section A1 - Modify Plinth at Ext. GRS	61 days	01/11/16	31/12/16					
65	Existing Plinth Removal	18 days	01/11/16	18/11/16					
66	Wall Base & Plinth Construction	45 days	17/11/16	31/12/16					
67	Pipe Rack at Unit 9 North (VO under EI No. 6)	152 days	29/01/17	30/06/17					
68	Consent and BA10 Submissions	0 days	29/01/17	29/01/17					
69	Hoarding & Plant Load Test	18 days	30/01/17	16/02/17					
70	Footing Construction & Reinstatement	75 days	17/02/17	02/05/17					
71	Structural Steel Fabrication, Delivery & Erection	60 days	02/05/17	30/06/17					
72	Section A2 - LPS Site Office Building	423 days	01/11/16	28/12/17					
73	Submissions of Shop Drawings and Approval	90 days	01/11/16	29/01/17					
74	Submission & Approval of CSD & CBWD	60 days	15/01/17	15/03/17					
75	Complete site clearance by HKE	0 days	01/11/16	01/11/16					
76	Demolish of existing site office	21 days	01/11/16	21/11/16					
77	BA 10 Application	0 days	01/11/16	01/11/16					
78	Erection of Hording	7 days	01/11/16	07/11/16					
79	Plate Load Test	7 days	08/11/16	14/11/16					
80	Installation of Earthing Grid	18 days	15/11/16	02/12/16					
81	Construction of pad footing, bearing wall, columns up to G/F	45 days	03/12/16	16/01/17					
82	Chinese New Year	10 days	27/01/17	05/02/17					
83	Backfill & UG Drainage within Building	75 days	17/01/17	01/04/17					
84	Backfill & Blinding	4 days	02/04/17	05/04/17					
85	Construct G/F on-grade slab & External Scaffold Erection	12 days	06/04/17	17/04/17					
86	RC Walls, Columns and Slab up to 1/F	50 days	18/04/17	06/06/17					
87	RC Walls, Columns and Slab up to R/F	50 days	18/05/17	06/07/17					
88	Parapet Wall, FS Water Tank, Top Roofs + RC curb, hatch door etc	18 days	07/07/17	24/07/17					
89	Waterproofing for Lift pit + Water test	14 days	25/07/17	07/08/17					
90	G/F Window, Louvre, Doors Frame & Shutter Frame	40 days	07/07/17	15/08/17					
91	G/F Finishing Works	55 days	21/07/17	13/09/17					
92	G/F Plumbing & Drainage Works	60 days	14/08/17	12/10/17					
93	G/F Sanitary Fitting and Cubicles	60 days	13/09/17	11/11/17					
94	G/F Other sundry metal, railing, etc	30 days	12/11/17	11/12/17					
95	G/F Placing Furnitures	10 days	17/12/17	26/12/17					
96	1/F Window, Louvre & Door Frames	45 days	21/07/17	03/09/17					
97	1/F Finishing Works	35 days	20/08/17	23/09/17					
98	1/F Plumbing, Sanitary Fittings & Drainage Works	21 days	24/09/17	14/10/17					
99	1/F Other sundry metal, railing, etc	45 days	15/10/17	28/11/17					
100	R+UR/F Waterproofing Installation + Testing	60 days	15/08/17	13/10/17					
101	R/F Finishing Works (incl. Water Tank & FS Pump Room)	30 days	04/10/17	02/11/17					
102	R/F Plumbing Works	14 days	03/11/17	16/11/17					
103	R/F Sundry Metal, Handrail & Glazed Railing	30 days	03/11/17	02/12/17					
104	Installation of Door a& Shutter leaves	30 days	03/11/17	02/12/17					
105	Handover of lift shaft	0 days	07/08/17	07/08/17					
106	Lift Installation + EMSD Inspection + Issue of Lift Cert	120 days	08/08/17	05/12/17					
107	Electrical Installation	90 days	14/09/17	12/12/17					
108	Fire Service Installation	90 days	14/09/17	12/12/17					
109	MVAC Installation	90 days	14/09/17	12/12/17					
110	Testing & Commissioning Works	10 days	03/12/17	12/12/17					
111	External Wall Finishing Works	60 days	14/09/17	12/11/17					
112	Removal of Scaffolding	14 days	13/11/17	26/11/17					
113	External UG P&D and Road Works	100 days	25/07/17	01/11/17					
114	WWO046 Completion	0 days	01/11/17	01/11/17					
115	FSD Inspection	0 days	12/12/17	12/12/17					
116	Submit BA 13 Inspection	14 days	13/12/17	26/12/17					
117	Expected OP Issue	0 days	28/12/17	28/12/17					
118	Section B1 - Area C1&2 incl. all UG structures & Temp. Access for Empolyer's Specialist	285 days	02/05/17	10/02/18					
119	C.W. Culvert System (Area C1 & C2) (~160m)	285 days	02/05/17	10/02/18					



ID	Task Name	Duration	Start	Finish	2nd Quarter			3rd Quarter	
					May	Jun	Jul	Aug	
184	Turbo Block Foundation (GL 10-F to H)	45 days	08/09/17	22/10/17					
185	Slabs & Drainage at G/F Area	60 days	23/10/17	21/12/17					
186	Associated ABWF & BS Works for Specialist Access	90 days	05/12/17	04/03/18					
187	G/F & 1/F & Maintenance Floor	75 days	06/08/17	19/10/17					
188	Steel Column & Beam Erections (other than for roof truss)	45 days	06/08/17	19/09/17					
189	R.C. Structure Construction	45 days	05/09/17	19/10/17					
190	Transformer Area	66 days	05/01/18	11/03/18					
191	Wall Construction	45 days	05/01/18	18/02/18					
192	Slab & Plinths Construction	21 days	19/02/18	11/03/18					
193	C.W. Culvert System (Area C3)	120 days	18/04/17	15/08/17					
194	Excavation to Formation Level	14 days	18/04/17	01/05/17					
195	Construction of Binding & Plinth	3 days	02/05/17	04/05/17					
196	CW Pipe Laying	14 days	05/05/17	18/05/17					
197	Thrust Box Construction	12 days	19/05/17	30/05/17					
198	Water Test	10 days	24/05/17	02/06/17					
199	Backfill	14 days	03/06/17	16/06/17					
200	All underground Utilities + backfill	60 days	17/06/17	15/08/17					
201	Section D - Remaining of MSBU10, HRSG, A&A at L9 & L8, CW Pump Equip. Rm No. 4 Ext. & Demolish Site Toilet	429 days	07/03/17	09/05/18					
202	C.W Culvert System (Area C5)	195 days	27/09/17	09/04/18					
203	Excavation to Formation Level (-2.8mPD) with ELS Installation	30 days	27/09/17	26/10/17					
204	Construction of Binding & Plinth	7 days	27/10/17	02/11/17					
205	Penstock Trial & Preparation for connection to existing outlet pipe	0 days	02/11/17	02/11/17					
206	Pipe Laying (2 Pipes)	14 days	03/11/17	16/11/17					
207	Water Test	10 days	17/11/17	26/11/17					
208	Backfill	14 days	27/11/17	10/12/17					
209	All underground Utilities	60 days	11/12/17	08/02/18					
210	Backfill & Reinstatement & Formation of Access	60 days	09/02/18	09/04/18					
211	HRSG Area Fdn - North (Area C6)	231 days	07/03/17	23/10/17					
212	Excavation to Formation Level	21 days	07/03/17	27/03/17					
213	Pit Constructions	60 days	28/03/17	26/05/17					
214	Pile Head Treatment	16 days	11/05/17	26/05/17					
215	Fdn North of HRSG Area GL 10-H to 10H-H, 10-1to 10H-3	60 days	27/05/17	25/07/17					
216	All underground Utilities	45 days	26/07/17	08/09/17					
217	Backfill & Reinstatement & Formation of Access	45 days	09/09/17	23/10/17					
218	Main Station Building - Unit L10 Superstructure	321 days	20/06/17	06/05/18					
219	2/F	35 days	20/08/17	23/09/17					
220	Steel Beam Erection	21 days	20/08/17	09/09/17					
221	R.C. Structure Construction	14 days	10/09/17	23/09/17					
222	3/F	28 days	10/09/17	07/10/17					
223	Steel Beam Erection	21 days	10/09/17	30/09/17					
224	R.C. Structure Construction	14 days	24/09/17	07/10/17					
225	4/F	21 days	01/10/17	21/10/17					
226	Steel Beam Erection	21 days	01/10/17	21/10/17					
227	R.C. Structure Construction	14 days	08/10/17	21/10/17					
228	5/F & Roof except GL 10-G to 10-H and 10-2 to 10-6	105 days	06/08/17	18/11/17					
229	Steel Roof Truss Preparation	26 days	06/08/17	31/08/17					
230	Steel Roof Truss Erection	7 days	01/09/17	07/09/17					
231	Steel Roof & Crane Rail Erection	21 days	08/09/17	28/09/17					
232	Slab Construction	21 days	22/09/17	12/10/17					
233	Upper Roof - Steel Roof Erection	21 days	22/10/17	11/11/17					
234	Upper roof RC construction	14 days	05/11/17	18/11/17					
235	Staircase Constructions	90 days	27/06/17	24/09/17					
236	Fendolite Installation to S. Steel Works	90 days	22/10/17	19/01/18					
237	External Metal Cladding Installation	120 days	05/11/17	04/03/18					
238	Internal ABWF Works	180 days	24/09/17	22/03/18					
239	BS Installation	180 days	08/11/17	06/05/18					
240	275kV Cable Trench (Area C5 & C6)	198 days	24/10/17	09/05/18					
241	275kV Cable Trench Excavation(C5 Area)	90 days	09/02/18	09/05/18					
242	275kV Cable Trench Excavation(C6 Area)	90 days	24/10/17	21/01/18					
243	MSB UnitL9 - A&A	105 days	19/11/17	03/03/18					
244	Hack-off Lean Concrete	60 days	19/11/17	17/01/18					
245	Pipe Rack Support Construction	45 days	18/01/18	03/03/18					
246	MSB UnitL8 - A&A	120 days	11/07/17	08/11/17					
247	A&A Works	120 days	11/07/17	08/11/17					



ID	Task Name	Duration	Start	Finish	2nd Quarter		3rd Quarter	
					May	Jun	Jul	Aug
311	No. 4 C.W. Intake Modification	122 days	01/03/18	30/06/18				
312	Section H1 - Gas Support foundation & trench at Area C11	405 days	01/11/16	10/12/17				
313	GRS Support Foundation	405 days	01/11/16	10/12/17				
314	Temporary Protection, advance work etc	45 days	01/11/16	15/12/16				
315	Gas Pipe Footing	180 days	16/12/16	13/06/17				
316	Gas Pipe Trench	180 days	14/06/17	10/12/17				
317	Section H2 - GRS Improvement work at Area C10	441 days	01/09/17	15/11/18				
318	GRS Area Improvement Works	441 days	01/09/17	15/11/18				
319	Retaining Wall Construction	90 days	01/09/17	29/11/17				
320	Removal of Surcharge and Backfill	45 days	30/11/17	13/01/18				
321	Footing Construction	240 days	14/01/18	10/09/18				
322	Topping up, finish and Misc. Works	66 days	11/09/18	15/11/18				
323	Section H3 - L10 Chimney Flue and A&A L9 & pipe rack formation	388 days	24/10/17	15/11/18				
324	No.4 Chimney Steel Flue	318 days	01/01/18	15/11/18				
325	Consent, documentation and site preparation	0 days	01/01/18	01/01/18				
326	Steel Flue Preparation & installation	150 days	02/01/18	31/05/18				
327	Install Steel Cover at Windshield	45 days	01/06/18	15/07/18				
328	Install Steel Cover at Roof	30 days	16/07/18	14/08/18				
329	Modification & Reinstatement Works	55 days	15/08/18	08/10/18				
330	E & M Installation	38 days	09/10/18	15/11/18				
331	MSB Unit 9 Pipe Rack Construction	90 days	24/10/17	21/01/18				
332	Section I1 - Link Bridge & associated A&A	455 days	01/01/18	31/03/19				
333	Link Bridge	455 days	01/01/18	31/03/19				
334	Design & Shop Drawings	90 days	01/01/18	31/03/18				
335	Access	0 days	17/11/18	17/11/18				
336	Site preparation	14 days	18/11/18	01/12/18				
337	Link Bridge between Unit L9 & L10	120 days	02/12/18	31/03/19				
338	Section I2 - Shunt Reactor SR4 Foundation	90 days	01/01/19	31/03/19				
339	Shunt Reactor Compound SR4	90 days	01/01/19	31/03/19				
340	Modification Work at Shunt Reactor SR4	90 days	01/01/19	31/03/19				
341	Section I3 - All remaining work except deferred works	417 days	08/02/18	31/03/19				
342	Remaining Works	417 days	08/02/18	31/03/19				
343	Demolition of Canopy @ Jetty Guard Hose & Toilet)	30 days	02/08/18	31/08/18				
344	Demolition of Existing Contractor Shed	60 days	01/09/18	30/10/18				
345	Security Fence Erection	20 days	31/10/18	19/11/18				
346	All External Works & Road Works	417 days	08/02/18	31/03/19				
347	Deferred Works - L10 MSB and HRSG	417 days	08/02/18	31/03/19				
348	Construction of L10 MSB Roof Between GL 10-G to 10-H and 10-2 to 10-6 After the Overhead Crane Installation	52 days	08/02/18	31/03/18				
349	Construction of Walls and Ceilings of Lube Oil Tank Room at L10 MSB	92 days	01/05/18	31/07/18				
350	Construction of Walls of L10 MSB Below Level +18mPD along GL10-6 from GL10-F to 10-H and Walls of L10 MSB along GL10-H from GL10-5 to 10-6 including the associated Building Elements	92 days	01/05/18	31/07/18				
351	Construction of Walls of L10 MSB Below 1/F along GL10-6 from GL10-B to 10-C and the associated Staircases including the Enclosure Walls between G/F and 1/F.	184 days	01/05/18	31/10/18				
352	Construction of Internal Partition Wall at 1/F of L10 MSB along GL10-C from GL10-2 to 10-3	32 days	15/05/18	15/06/18				
353	Removal of Temporary Paving Within L10 HRSG Area to Expose all respective Equipment Foundations	14 days	01/08/18	14/08/18				
354	Construction of Foundation Plinths and Walls of Lube Oil Storage Tank	93 days	15/08/18	15/11/18				
355	Construction of Metal Fence and the associated Fire Services Installations and Installation of Removable Shelter Transformer Area	121 days	01/12/18	31/03/19				
356	Deferred Works - External Works	182 days	01/10/18	31/03/19				
357	Final Reinstatement of Access Roads and Pavement Surrounding and within L10 MSB and L10 HRSG Area	151 days	01/10/18	28/02/19				
358	FSD Inspection	14 days	02/03/19	15/03/19				
359	BD OP Inspection	14 days	18/03/19	31/03/19				
360	Section J - Cable Route CPX1&2 cable diversion & whole of work except deferred works to be carried out in DLP	1127 days	01/05/17	31/05/20				
361	275kV Cable Diversion	1127 days	01/05/17	31/05/20				
362	Part I (1km in Length, 1.1m to 1.5m Deep) (Works in existing Trench)	426 days	01/05/17	30/06/18				
363	Tentative Commencement Date Of Civil Works	0 days	01/05/17	01/05/17				

ID	Task Name	Duration	Start	Finish	2nd Quarter			3rd Quarter	
					May	Jun	Jul	Aug	
364	Implementation of TTA	7 days	01/05/17	07/05/17					
365	Remove the Concrete Road Cover	60 days	08/05/17	06/07/17					
366	Cable Trench Re-excavation	208 days	07/06/17	31/12/17					
367	Completion Date of Trench Excavation for Site Handover	0 days	31/12/17	31/12/17					
368	Tentative Period for Backfilling and Road Reinstatement (Excluding Joint Bay and Trench at Station Road)	91 days	01/04/18	30/06/18					
369	Part II (630m in Length, 1.1m to 1.5m Deep) (Works in existing Trench)	485 days	01/11/17	28/02/19					
370	Tentative Commencement Date Of Civil Works	0 days	01/11/17	01/11/17					
371	Implementation of TTA	7 days	01/11/17	07/11/17					
372	Remove the Concrete Road Cover	32 days	08/11/17	09/12/17					
373	Trench Excavation and Installation of Road Decking at Joint Bay (Including Part I & II)	90 days	25/11/17	22/02/18					
374	Cable Trench Re-excavation	190 days	23/02/18	31/08/18					
375	Completion Date of Trench Excavation for Site Handover	0 days	31/08/18	31/08/18					
376	Tentative Period for Backfilling and Road Reinstatement (Including Joint Bay at Part I, but excluding Joint Bay SJ3)	90 days	01/12/18	28/02/19					
377	Part III (400m in Length, 1.3m to 1.5m Deep) (Works in New Trench)	518 days	01/07/18	30/11/19					
378	Tentative Commencement Date Of Civil Works	0 days	01/07/18	01/07/18					
379	Implementation of TTA	7 days	01/07/18	07/07/18					
380	Remove the Concrete Road Cover	30 days	08/07/18	06/08/18					
381	Cable Trench Excavation with shoring	270 days	07/08/18	03/05/19					
382	Construction of New Joint Bay	28 days	04/05/19	31/05/19					
383	Completion Date of Trench Excavation for Site Handover	0 days	31/05/19	31/05/19					
384	Tentative Period for Backfilling and Road Reinstatement (excluding new slab but including SJ3)	91 days	01/09/19	30/11/19					
385	Part IV (Hand Dig Tunnel) + Defer portion	701 days	01/07/18	31/05/20					
386	Tentative Commencement Date Of Civil Works	0 days	01/07/18	01/07/18					
387	Excavation to Approx. +5mPD	30 days	01/07/18	30/07/18					
388	Existing Drainage Diversion	50 days	31/07/18	18/09/18					
389	Construction of New Cable Joint Bay	30 days	19/09/18	18/10/18					
390	Ramp Trench	75 days	19/10/18	01/01/19					
391	Formation of Temp. Cable Pit	45 days	02/01/19	15/02/19					
392	Hand Dig Tunel (17.6m) (0.2~0.3m/day)	75 days	16/02/19	01/05/19					
393	Excavation for Duct Bank Construction	60 days	02/05/19	30/06/19					
394	Completion Date of Trench Excavation for Site Handover	0 days	30/06/19	30/06/19					
395	Deferred Works - Cable Diversion CPX1 and CPX2 (during DLP)	274 days	01/09/19	31/05/20					
396	Formation of Wall Opening between existing trench CPX1 and new Joint Bay	7 days	01/09/19	07/09/19					
397	Breaking up for Road Paving and Excavation down to Cable Tiles of Existing Trench CPX2	31 days	01/12/19	31/12/19					
398	Demolition of Existing Trench CPX1 and CPX2	30 days	01/04/20	30/04/20					
399	Final Reinstatement of the CPX1 and CPX2 Areas	31 days	01/05/20	31/05/20					
400	Deferred Works - Shunt Reactor Compound SR4 (during DLP)	153 days	01/07/19	30/11/19					
401	Trench Re-excavation and Cable Supports Installation for Shunt Reactor Compound SR4	62 days	01/07/19	31/08/19					
402	Backfilling and Road Re-instatement of Shunt Reactor SR4 and Associated Trench	30 days	01/11/19	30/11/19					

SUNLEY ENGINEERING & CONSTRUCTION CO., LTD.

Contract No. 16/8015 - Lamma Power Station Extension Foundation Works for Unit L11

Master Programme

ID	Task Name	Duration	Start	Finish	2017年			2018年		
					M6	M7	M8	M6	M7	M8
					五月	六月	七月	五月	六月	七月
1	Key Date	455 days	2016/12/21	2018/3/20						
2	Commencement date	0 days	2016/12/21	2016/12/21						
3	Duration of works	455 days	2016/12/21	2018/3/20						
4	Site possession date	0 days	2016/12/21	2016/12/21						
5	Completion of the Contract	0 days	2018/3/20	2018/3/20						
6										
7	Submission & Works Commenced Before the Contract	231 days	2016/11/14	2017/7/2						
8	Preliminaries	75 days	2016/11/14	2017/1/27						
9	Coordination with utility companies	14 days	2016/12/14	2016/12/27						
10	Condition survey	1 day	2016/12/14	2016/12/14						
11	Notification of commencement of works to Labour Department	1 day	2016/12/19	2016/12/19						
12	Notification of air pollution control for commencement of works to EPD	1 day	2016/12/19	2016/12/19						
13	Application of water discharge licence from EPD	14 days	2016/12/12	2016/12/25						
14	Application for billing account for disposal of construction waste from EPD	7 days	2016/12/12	2016/12/18						
15	CCTV for existing underground drainage pipe around site boundary	12 days	2017/1/16	2017/1/27						
16	Erection of contractor's site office	21 days	2016/12/14	2017/1/3						
17	Installation of monitoring checkpoints	2 days	2016/12/13	2016/12/14						
18	Submission of BA10 for foundation works	0 days	2016/11/14	2016/11/14						
19										
20	Pre-drilling Works	51 days	2016/11/23	2017/1/12						
21	Drilling rigs mobilization (6 rigs)	1 day	2016/12/22	2016/12/22						
22	Pre-drilling works	31 days	2016/11/23	2016/12/23						
23	Submission of pre-drill logs	16 days	2016/12/28	2017/1/12						
24	Completion of pre-drilling works	0 days	2017/1/12	2017/1/12						
25										
26	Plant Mobilization for Bored Pile Construction	207 days	2016/12/8	2017/7/2						
27	Crawler Crane	86 days	2016/12/8	2017/3/3						
28	1st & 2nd set	1 day	2016/12/8	2016/12/8						
29	3rd & 4th set	1 day	2017/1/6	2017/1/6						
30	5th & 6th set	7 days	2017/2/25	2017/3/3						
31	Oscillator	206 days	2016/12/9	2017/7/2						
32	1st & 2nd set	4 days	2016/12/9	2016/12/12						
33	3rd & 4th set	2 days	2017/1/7	2017/1/8						
34	5th set	7 days	2017/3/4	2017/3/10						
35	6th set	7 days	2017/6/26	2017/7/2						
36	RCD	84 days	2017/1/7	2017/3/31						
37	1st & 2nd set	7 days	2017/1/7	2017/1/13						
38	3rd & 4th set	7 days	2017/1/21	2017/1/27						
39	5th & 6th set (Optional if necessary)	7 days	2017/3/25	2017/3/31						
40	Completion of plant mobilization for bored pile construction	0 days	2017/3/31	2017/3/31						
41										
42	Delivery of Temporary Steel Casing for Bored Pile Construction	192 days	2016/12/21	2017/6/30						
43	Duration for delivery of temporary steel casing	192 days	2016/12/21	2017/6/30						
44	Completion of delivery of temporary steel casing for bored pile construction	0 days	2017/6/30	2017/6/30						
45										
46	Total Contract Period	455 days	2016/12/21	2018/3/20						
47										
48	Section A	315 days	2016/12/21	2017/10/31						
49	Delivery of Permanent Casing & Double Wall Liner	270 days	2016/12/21	2017/9/16						
50	Testing for double wall liner (subject to HEC's request)	45 days	2016/12/21	2017/2/3						

Master Programme
MP-03 (14 Jan 2017)

Task Critical Task Milestone Summary

SUNLEY ENGINEERING & CONSTRUCTION CO., LTD.

Contract No. 16/8015 - Lamna Power Station Extension Foundation Works for Unit L11

Master Programme

ID	Task Name	Duration	Start	Finish	2017年			2018年
					M6	M7	M8	
					五月	六月	七月	
51	Duration for delivery of permanent casing & double wall liner	240 days	2017/1/20	2017/9/16				
52	Bored Pile Construction (22 piles)	315 days	2016/12/21	2017/10/31				
53	1st set - G2 > G1 > G4 > G3 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	186 days	2016/12/21	2017/6/24				
54	G2	45 days	2016/12/21	2017/2/3				
55	G1	46 days	2017/2/4	2017/3/21				
56	G4	50 days	2017/3/22	2017/5/10				
57	G3	45 days	2017/5/11	2017/6/24				
58	2nd set - G7 > G5 > G6 > BP26 > BP20 > BP23 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	283 days	2016/12/21	2017/9/29				
59	G7	45 days	2016/12/21	2017/2/3				
60	G6	43 days	2017/2/4	2017/3/18				
61	G5	48 days	2017/3/19	2017/5/5				
62	BP26	46 days	2017/5/6	2017/6/20				
63	BP20 (required after 1 July 17)	44 days	2017/7/3	2017/8/15				
64	BP23 (required after 1 July 17)	45 days	2017/8/16	2017/9/29				
65	3rd set - BP5 > BP1 > BP13 > BP9 > BP17 (1 crane operator, 1 oscillator operator, 2 RCD operators, 4 riggers & 2 welders)	135 days	2017/1/9	2017/5/23				
66	BP5	45 days	2017/1/9	2017/2/22				
67	BP1	50 days	2017/1/27	2017/3/17				
68	BP13	45 days	2017/2/23	2017/4/8				
69	BP9	50 days	2017/3/18	2017/5/6				
70	BP17	45 days	2017/4/9	2017/5/23				
71	4th set - G10 > G8 > G9 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	136 days	2017/1/16	2017/5/31				
72	G10	45 days	2017/1/16	2017/3/1				
73	G8	45 days	2017/3/2	2017/4/15				
74	G9	46 days	2017/4/16	2017/5/31				
75	5th set - BP8 > BP4 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	85 days	2017/7/3	2017/9/25				
76	BP8 (required after 1 July 17)	41 days	2017/7/3	2017/8/12				
77	BP4 (required after 1 July 17)	43 days	2017/8/14	2017/9/25				
78	6th set - BP12 > BP16 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	87 days	2017/7/3	2017/9/27				
79	BP12 (required after 1 July 17)	46 days	2017/7/3	2017/8/17				
80	BP16 (required after 1 July 17)	41 days	2017/8/18	2017/9/27				
81	Interface & sonic test	30 days	2017/9/7	2017/10/6				
82	Prepare & submit as-built record plan	7 days	2017/9/30	2017/10/6				
83	Submission of BA14	1 day	2017/10/7	2017/10/7				
84	Allow 14 days for selection of pile for concrete full core test	14 days	2017/10/8	2017/10/21				
85	Concrete full core test	10 days	2017/10/22	2017/10/31				
86	Completion of bored pile construction	0 days	2017/10/31	2017/10/31				
87	Sheet Pile	163 days	2017/5/22	2017/10/31				
88	Plant mobilization (1 rig) (1 operator, 4 riggers & 4 welders)	7 days	2017/8/13	2017/8/19				
89	Delivery of sheet pile material	90 days	2017/5/22	2017/8/19				
90	Installation of sheet pile - Type B (approx. 80 piles)	65 days	2017/8/20	2017/10/23				
91	Prepare & submit as-built record plan	7 days	2017/10/24	2017/10/30				
92	Submission of BA14	1 day	2017/10/31	2017/10/31				
93	Completion of sheet pile	0 days	2017/10/31	2017/10/31				
94	Completion of section A	0 days	2017/10/31	2017/10/31				

Master Programme
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Task  Critical Task  Milestone  Summary 

SUNLEY ENGINEERING & CONSTRUCTION CO., LTD.

Contract No. 16/8015 - Lamna Power Station Extension Foundation Works for Unit L11

Master Programme

ID	Task Name	Duration	Start	Finish	2017年			2018年		
					M6	M7	M8	M6	M7	M8
					五月	六月	七月	五月	六月	七月
95										
96	Section B	455 days	2016/12/21	2018/3/20						
97	Delivery of Permanent Casing & Double Wall Liner	390 days	2016/12/21	2018/1/14						
98	Testing for double wall liner (subject to HEC's request)	45 days	2016/12/21	2017/2/3						
99	Duration for delivery of permanent casing & double wall liner	305 days	2017/3/16	2018/1/14						
100	Bored Pile Construction (16 piles)	373 days	2017/3/13	2018/3/20						
101	1st set - BP21 > BP22 > BP18 > BP19 > BP15 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	227 days	2017/6/25	2018/2/6						
102	BP21	46 days	2017/6/25	2017/8/9						
103	BP22	45 days	2017/8/10	2017/9/23						
104	BP18	45 days	2017/9/25	2017/11/8						
105	BP19	45 days	2017/11/9	2017/12/23						
106	BP15	45 days	2017/12/24	2018/2/6						
107	3rd set - BP14 > BP11 > BP29 > BP6 > BP7 (1 crane operator, 1 oscillator operator, 2 RCD operators, 4 riggers & 2 welders)	137 days	2017/5/7	2017/9/20						
108	BP14	46 days	2017/5/7	2017/6/21						
109	BP11	45 days	2017/5/24	2017/7/7						
110	BP29	45 days	2017/6/22	2017/8/5						
111	BP6	45 days	2017/7/8	2017/8/21						
112	BP7	46 days	2017/8/6	2017/9/20						
113	4th set - BP27 > BP28 > BP25 > BP24 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	182 days	2017/6/1	2017/11/29						
114	BP27	45 days	2017/6/1	2017/7/15						
115	BP28	46 days	2017/7/16	2017/8/30						
116	BP25	45 days	2017/8/31	2017/10/14						
117	BP24	46 days	2017/10/15	2017/11/29						
118	5th set - BP10 > BP3 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	94 days	2017/3/13	2017/6/14						
119	BP10	45 days	2017/3/13	2017/4/26						
120	BP3	44 days	2017/5/2	2017/6/14						
121	Interface & sonic test	30 days	2018/1/18	2018/2/16						
122	Prepare & submit as-built record plan	7 days	2018/2/17	2018/2/23						
123	Submission of BA14	1 day	2018/2/24	2018/2/24						
124	Allow 14 days for selection of pile for concrete full core test	14 days	2018/2/25	2018/3/10						
125	Concrete full core test	10 days	2018/3/11	2018/3/20						
126	Completion of bored pile construction	0 days	2018/3/20	2018/3/20						
127	Sheet Pile	235 days	2017/7/10	2018/3/1						
128	Delivery of sheet pile material	90 days	2017/7/10	2017/10/7						
129	Installation of sheet pile - Type A (approx. 192 piles) (1 rig mobilized after completion of sheet pile of Type B) (1 operator, 4 riggers & 4 welders)	45 days	2017/10/24	2017/12/7						
130	Installation of sheet pile - Type C (approx. 325 piles) (1 rig mobilized after completion of sheet pile of Type A) (1 operator, 4 riggers & 4 welders)	76 days	2017/12/8	2018/2/21						
131	Prepare & submit as-built record plan	7 days	2018/2/22	2018/2/28						
132	Submission of BA14	1 day	2018/3/1	2018/3/1						
133	Completion of sheet pile	0 days	2018/3/1	2018/3/1						
134	Completion of section B	0 days	2018/3/20	2018/3/20						
135										
136	Contract completion	0 days	2018/3/20	2018/3/20						

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