

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	<b>1</b>	<b>Key Date</b>	<b>486 days</b>	<b>2016/1/1</b>	<b>2017/4/30</b>
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	<b>2</b>	<b>Total Contract Period</b>	<b>486 days</b>	<b>2016/1/1</b>	<b>2017/5/1</b>
8					
9	<b>2.1</b>	<b>Preliminaries</b>	<b>37 days</b>	<b>2016/1/1</b>	<b>2016/2/6</b>
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	<b>2.2</b>	<b>Section A</b>	<b>305 days</b>	<b>2016/1/1</b>	<b>2016/10/31</b>
24	<b>2.2.1</b>	<b>Hoarding</b>	<b>90 days</b>	<b>2016/1/1</b>	<b>2016/3/30</b>
25	2.2.1.1	Erection of Hoarding	90 days	2016/1/1	2016/3/30
26	<b>2.2.2</b>	<b>Foundation Works at Unit L10</b>	<b>295 days</b>	<b>2016/1/11</b>	<b>2016/10/31</b>
27	<b>2.2.2.1</b>	<b>Bored Pile - Temporary Steel Casing</b>	<b>56 days</b>	<b>2016/1/22</b>	<b>2016/3/17</b>
28	2.2.2.1.1	Duration for delivery temporary steel casing	56 days	2016/1/22	2016/3/17
29	<b>2.2.2.2</b>	<b>Bored Pile - Permanent Casing &amp; Double Wall Liner</b>	<b>172 days</b>	<b>2016/2/24</b>	<b>2016/8/13</b>
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	<b>2.2.2.3</b>	<b>Bored Pile - Plant Mobilization</b>	<b>56 days</b>	<b>2016/1/15</b>	<b>2016/3/11</b>
33	<b>2.2.2.3.1</b>	<b>Crawler Crane</b>	<b>53 days</b>	<b>2016/1/15</b>	<b>2016/3/8</b>
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	<b>2.2.2.3.2</b>	<b>Oscillator</b>	<b>35 days</b>	<b>2016/1/29</b>	<b>2016/3/4</b>
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	<b>2.2.2.3.3</b>	<b>RCD</b>	<b>7 days</b>	<b>2016/3/4</b>	<b>2016/3/11</b>
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	<b>2.2.2.4</b>	<b>Predrilling</b>	<b>60 days</b>	<b>2016/1/11</b>	<b>2016/3/10</b>
46	2.2.2.4.1	Predrilling works (38 nos.)	60 days	2016/1/11	2016/3/10
47	<b>2.2.2.5</b>	<b>Bored Pile Construction</b>	<b>263 days</b>	<b>2016/2/12</b>	<b>2016/10/31</b>
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

M14	M15	M16
2月	3月	4月



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Task Critical Task Milestone Summary

SUNLEY ENGINEERING & CONSTRUCTION CO., LTD.

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

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ID	Item	Task Name	Duration	Start	Finish	Milestone		
						M13 1月	M14 2月	M15 3月
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	<b>2.2.2.6</b>	<b>Sheet Pile</b>	<b>92 days</b>	<b>2016/7/22</b>	<b>2016/10/21</b>			
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	<b>2.2.3</b>	<b>New Site Facilities</b>	<b>198 days</b>	<b>2016/1/1</b>	<b>2016/7/16</b>			
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	<b>2.4</b>	<b>Section B</b>	<b>121 days</b>	<b>2016/1/1</b>	<b>2016/4/30</b>			
78	<b>2.4.1</b>	<b>Ground Treatment Works</b>	<b>121 days</b>	<b>2016/1/1</b>	<b>2016/4/30</b>			
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	<b>2.5</b>	<b>Section C</b>	<b>229 days</b>	<b>2016/9/14</b>	<b>2017/4/30</b>			
89	<b>2.5.1</b>	<b>Hoarding</b>	<b>45 days</b>	<b>2016/11/1</b>	<b>2016/12/15</b>			
90	2.5.1.1	Erection of Hoarding	45 days	2016/11/1	2016/12/15			
91	<b>2.5.2</b>	<b>Foundation Works at 275kV Substation Building</b>	<b>229 days</b>	<b>2016/9/14</b>	<b>2017/4/30</b>			
92	2.5.2.1	Early start milestone	0 days	2016/10/6	2016/10/6			
93	<b>2.5.2.2</b>	<b>Bored Pile - Temporary Steel Casing</b>	<b>7 days</b>	<b>2016/9/14</b>	<b>2016/9/20</b>			
94	2.5.2.2.1	Duration for delivery temporary steel casing	7 days	2016/9/14	2016/9/20			
95	<b>2.5.2.3</b>	<b>Bored Pile - Permanent Casing &amp; Double Wall Liner</b>	<b>120 days</b>	<b>2016/9/26</b>	<b>2017/1/23</b>			
96	2.5.2.3.1	Duration for delivery permanent casing & double wall liner	120 days	2016/9/26	2017/1/23			
97	<b>2.5.2.4</b>	<b>Bored Pile - Plant Mobilization</b>	<b>14 days</b>	<b>2016/10/1</b>	<b>2016/10/15</b>			
98	<b>2.5.2.4.1</b>	<b>Crawler Crane</b>	<b>0 days</b>	<b>2016/10/1</b>	<b>2016/10/1</b>			
99	2.5.2.4.1.1	1st & 2nd set	0 days	2016/10/1	2016/10/1			
100	<b>2.5.2.4.2</b>	<b>Oscillator</b>	<b>0 days</b>	<b>2016/10/5</b>	<b>2016/10/5</b>			
101	2.5.2.4.2.1	1st & 2nd set	0 days	2016/10/5	2016/10/5			
102	<b>2.5.2.4.3</b>	<b>RCD</b>	<b>0 days</b>	<b>2016/10/15</b>	<b>2016/10/15</b>			
103	2.5.2.4.3.1	1st & 2nd set	0 days	2016/10/15	2016/10/15			
104	<b>2.5.2.5</b>	<b>Predrilling</b>	<b>21 days</b>	<b>2016/11/1</b>	<b>2016/11/21</b>			

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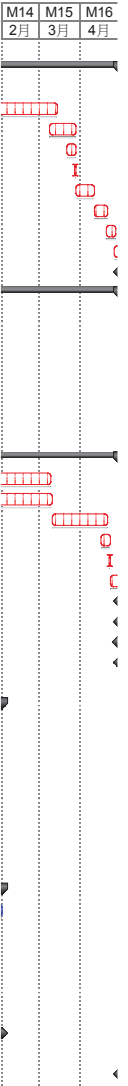
Task Critical Task Milestone Summary

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
105	2.5.2.5.1	Predrilling works (10 nos.)	21 days	2016/11/1	2016/11/21
106	2.5.2.6	<b>Bored Pile</b>	<b>181 days</b>	<b>2016/11/1</b>	<b>2017/4/30</b>
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	<b>Trial Pile</b>	<b>212 days</b>	<b>2016/10/1</b>	<b>2017/4/30</b>
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	<b>Predrilling</b>	<b>28 days</b>	<b>2016/11/8</b>	<b>2016/12/5</b>
121	2.5.3.3.1	Predrilling works (3 nos.)	28 days	2016/11/8	2016/12/5
122	2.5.3.4	<b>Ground Instrumentation</b>	<b>24 days</b>	<b>2016/11/22</b>	<b>2016/12/15</b>
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	<b>Construction of Trial Pile</b>	<b>136 days</b>	<b>2016/12/16</b>	<b>2017/4/30</b>
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	<b>Section D</b>	<b>383 days</b>	<b>2016/1/15</b>	<b>2017/1/31</b>
138	2.7.1	<b>General Site Works</b>	<b>36 days</b>	<b>2016/3/1</b>	<b>2016/4/5</b>
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	<b>G.I. Works</b>	<b>99 days</b>	<b>2016/3/4</b>	<b>2016/6/10</b>
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	<b>Ground Treatment Time</b>	<b>276 days</b>	<b>2016/5/1</b>	<b>2017/1/31</b>
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	<b>External Works</b>	<b>227 days</b>	<b>2016/1/15</b>	<b>2016/8/28</b>
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

Contract No. 16/8002 Lamma Power Station Extension Civil and Building Unit L10

ID	Task Name	Duration	Start	Finish	F	M	A	M	J
1	<b>Contract Key Date</b>	<b>1308 days</b>	<b>01/11/16</b>	<b>31/05/20</b>					
2	<b>Possession Date</b>	<b>1308 days</b>	<b>01/11/16</b>	<b>31/05/20</b>					
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	01/11/16	15/12/17					
6	Section B1 - Area C1&2 incl. all UG structures & Temp. Access for Employer's Specialist	426 days	01/11/16	31/12/17					
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	01/11/16	31/01/18					
9	Section D - Remaining of MSBU10, HRSG, A&A at L9 & L8, Ext. & Demolish Site Toilet	516 days	01/11/16	31/03/18					
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	<b>General &amp; Preliminary</b>	<b>461 days</b>	<b>01/11/16</b>	<b>04/02/18</b>					
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	15/12/16	21/12/16					
29	Tower Crane Erection	7 days	01/01/17	07/01/17					
30	Removal of Tower Crane (Including Foundation)	18 days	18/01/18	04/02/18					
31	L10 MSB External Scaffolding erection	145 days	29/04/17	20/09/17					
32	L10 MSB External Scaffolding Removal	30 days	19/12/17	17/01/18					
33	<b>Submission and Approval</b>	<b>450 days</b>	<b>01/11/16</b>	<b>24/01/18</b>					
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	15/11/16	14/12/16					
38	Structure Steelwork Shop Drawing & Approval	30 days	15/11/16	14/12/16					
39	Metal Cladding, louvre & windows submission & BD Approval	60 days	15/11/16	13/01/17					
40	Metal Cladding, louvre & windows shop drawing submission	45 days	29/11/16	12/01/17					
41	Order, Off Site Fabrication and Delivery (S. Steel & Cladding & louvres)	180 days	13/01/17	11/07/17					
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	45 days	01/12/16	14/01/17					
47	Fabrication & Delivery of Foldering Shutters	180 days	15/01/17	13/07/17					
48	Sewage Pump System Design submission & Approval	60 days	15/01/17	15/03/17					
49	Fabrication & Delivery of Sewage Pump	150 days	16/03/17	12/08/17					
50	Other Material Submission & Approval & Deliveries	240 days	15/01/17	11/09/17					
51	<b>Coordination with the Employer's Specialist Contractors</b>	<b>730 days</b>	<b>01/11/16</b>	<b>31/10/18</b>					
52	Puddle Pipes at C.W. Inlet and Outlet Culvert	0 days	07/01/17	07/01/17					
53	Template setting in at L10 Turbo Block Foundation	45 days	01/10/17	14/11/17					
54	Template setting of holding down bolts at HRSG Column Base	45 days	01/10/17	14/11/17					
55	I-beam/ Channel Base Installation on top of Transformer Foundations at Transformer Area	32 days	27/12/17	27/01/18					
56	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	12/12/17	18/01/18					
57	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	01/02/18	30/04/18					

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ID	Task Name	Duration	Start	Finish	F	M	A	M	J
58	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-F from GL 10-F to 10-H including a Clear Space below 1/F of the above Area	89 days	01/02/18	30/04/18					
59	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					
60	Installation of Embedded Materials such as Holding Down Bolts for Equipment Foundation	300 days	01/11/16	27/08/17					
61	<b>Section A1 - Modify Plinth at Ext. GRS</b>	<b>61 days</b>	<b>01/11/16</b>	<b>31/12/16</b>					
62	Existing Plinth Removal	18 days	01/11/16	18/11/16					
63	Wall Base & Plinth Construction	45 days	17/11/16	31/12/16					
64	<b>Pipe Rack at Unit 9 North (VO under EI No. 6)</b>	<b>152 days</b>	<b>29/01/17</b>	<b>30/06/17</b>					
65	Consent and BA10 Submissions	0 days	29/01/17	29/01/17					
66	Hoarding & Plant Load Test	18 days	30/01/17	16/02/17					
67	Footing Construction & Reinstatement	60 days	17/02/17	17/04/17					
68	Structural Steel Fabrication, Delivery & Erection	90 days	02/04/17	30/06/17					
69	<b>Section A2 - LPS Site Office Building</b>	<b>410 days</b>	<b>01/11/16</b>	<b>15/12/17</b>					
70	Submissions of Shop Drawings and Approval	90 days	01/11/16	29/01/17					
71	Submission & Approval of CSD & CBWD	60 days	15/01/17	15/03/17					
72	Complete site clearance by HKE	0 days	01/11/16	01/11/16					
73	Demolish of existing site office	21 days	01/11/16	21/11/16					
74	BA 10 Application	0 days	01/11/16	01/11/16					
75	Erection of Hording	7 days	01/11/16	07/11/16					
76	Plate Load Test	7 days	08/11/16	14/11/16					
77	Installation of Earthing Grid	18 days	15/11/16	02/12/16					
78	Construction of pad footing, bearing wall, columns up to G/F	45 days	03/12/16	16/01/17					
79	Waterproofing for Lift pit + Water test	14 days	03/01/17	16/01/17					
80	UG Drainage within Building	21 days	02/01/17	22/01/17					
81	Backfill & Blinding	14 days	13/01/17	26/01/17					
82	Chinese New Year	10 days	27/01/17	05/02/17					
83	Construct G/F on-grade slab & External Scaffold Erection	30 days	06/02/17	07/03/17					
84	RC Walls, Columns and Slab up to 1/F	45 days	20/02/17	05/04/17					
85	RC Walls, Columns and Slab up to R/F	45 days	06/04/17	20/05/17					
86	Parapet Wall, FS Water Tank, Top Roofs + RC curb, hatch door etc	45 days	21/05/17	04/07/17					
87	G/F Window, Louvre, Doors Frame & Shutter Frame	21 days	04/05/17	24/05/17					
88	G/F Finishing Works	45 days	18/05/17	01/07/17					
89	G/F Plumbing & Drainage Works	30 days	02/07/17	31/07/17					
90	G/F Sanitary Fitting and Cubicles	21 days	01/08/17	21/08/17					
91	G/F Other sundry metal, railing, etc	45 days	22/08/17	05/10/17					
92	G/F Placing Furnitures	10 days	04/12/17	13/12/17					
93	1/F Window, Louvre & Door Frames	30 days	18/06/17	17/07/17					
94	1/F Finishing Works	30 days	18/07/17	16/08/17					
95	1/F Plumbing, Sanitary Fittings & Drainage Works	14 days	17/08/17	30/08/17					
96	1/F Other sundry metal, railing, etc	21 days	31/08/17	20/09/17					
97	R+UR/F Waterproofing Installation + Testing	60 days	19/07/17	16/09/17					
98	R/F Finishing Works (incl. Water Tank & FS Pump Room)	30 days	02/09/17	01/10/17					
99	R/F Plumbing Works	14 days	02/10/17	15/10/17					
100	R/F Sundry Metal, Handrail & Glazed Railing	30 days	02/10/17	31/10/17					
101	Complete RC touch up and handover of lift shaft	7 days	26/07/17	01/08/17					
102	Installation of Door a& Shutter leaves	21 days	01/11/17	21/11/17					
103	Lift Installation + EMSD Inspection + Issue of Lift Cert	120 days	02/08/17	29/11/17					
104	Electrical Installation	90 days	17/08/17	14/11/17					
105	Fire Service Installation	90 days	17/08/17	14/11/17					
106	MVAC Installation	90 days	17/08/17	14/11/17					
107	Testing & Commissioning Works	24 days	15/11/17	08/12/17					
108	External Wall Finishing Works	45 days	02/10/17	15/11/17					
109	Removal of Scaffolding	14 days	16/11/17	29/11/17					
110	External UG P&D and Road Works	145 days	05/07/17	26/11/17					
111	WVO046 Completion	0 days	26/11/17	26/11/17					
112	FSD Inspection	0 days	08/12/17	08/12/17					
113	Submit BA 13 Inspection	14 days	30/11/17	13/12/17					
114	Expected OP Issue	0 days	15/12/17	15/12/17					
115	<b>Section B1 - Area C1&amp;2 incl. all UG structures &amp; Temp. Access for Empolyer's Specialist</b>	<b>328 days</b>	<b>07/02/17</b>	<b>31/12/17</b>					
116	<b>C.W. Culvert System (Area C1 &amp; C2) (~160m)</b>	<b>328 days</b>	<b>07/02/17</b>	<b>31/12/17</b>					
117	Excavation to Formation Level (+1.1mPD)	30 days	07/02/17	08/03/17					
118	Construction of Binding & Plinth	21 days	09/03/17	29/03/17					
119	Pile Laying	30 days	30/03/17	28/04/17					
120	Thrust Box Construction	21 days	29/04/17	19/05/17					
121	Water Test	7 days	20/05/17	26/05/17					

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ID	Task Name	Duration	Start	Finish	Gantt Chart (F, M, A, M, J)					
122	Backfill	30 days	27/05/17	25/06/17						
123	Return area to Sunley for L11 piling	124 days	30/06/17	31/10/17						
124	Cutting Sheet pile	14 days	01/11/17	14/11/17						
125	All underground Utilities	35 days	15/11/17	19/12/17						
126	Backfill & Reinstatement & Formation of Access	24 days	08/12/17	31/12/17						
127	Supporting Supporting Structure for Overhead Crane	200 days	26/05/17	11/12/17						
128	<b>Section B2 - Surcharge relocation &amp; associated top-up works</b>	<b>242 days</b>	<b>04/05/17</b>	<b>31/12/17</b>						
129	<b>Roadworks and External Works</b>	<b>242 days</b>	<b>04/05/17</b>	<b>31/12/17</b>						
130	Surface Drainage Modification	120 days	04/05/17	31/08/17						
131	Remove of Surcharge Fill (~21500 m3)@ Area C2, C10 & C15 to Area B1, B2, D2, D3 and D4	45 days	01/09/17	15/10/17						
132	Construction of Access Road	60 days	16/10/17	14/12/17						
133	Existing Band Drains Cut-down (2520 nos)	90 days	03/10/17	31/12/17						
134	<b>Section C - Area C3, HRSG &amp; MSBU10 for Empolyer's Specialist</b>	<b>457 days</b>	<b>01/11/16</b>	<b>31/01/18</b>						
135	<b>HRSG Area Equipment Rm &amp; Fdn - South (Area C7)</b>	<b>299 days</b>	<b>08/04/17</b>	<b>31/01/18</b>						
136	Excavation to Formation Level	18 days	08/04/17	25/04/17						
137	Sump Pit, Drain Pit (2no. 1.75m to 4.2m in Height)	45 days	26/04/17	09/06/17						
138	Pile Head Treatment (6no.)	14 days	10/06/17	23/06/17						
139	Pile Cap & Tie Beam - GL 10-H to 10H-H, 10-H3 to 10-6	60 days	19/06/17	17/08/17						
140	Plate Load Test	12 days	18/08/17	29/08/17						
141	Raft Foundation (7no.)	45 days	30/08/17	13/10/17						
142	All Underground Utilities	60 days	14/10/17	12/12/17						
143	Backfill & Reinstatement & Formation of Access Road	50 days	13/12/17	31/01/18						
144	<b>HRSG Equipment Room</b>	<b>178 days</b>	<b>07/08/17</b>	<b>31/01/18</b>						
145	Plate Load Test	10 days	07/08/17	16/08/17						
146	Underground Drainage	12 days	17/08/17	28/08/17						
147	HRSG Equipment RM Foundation	14 days	29/08/17	11/09/17						
148	Backfill	6 days	12/09/17	17/09/17						
149	Construct G/F	12 days	18/09/17	29/09/17						
150	Roof Construction	21 days	30/09/17	20/10/17						
151	Parapet Wall	12 days	21/10/17	01/11/17						
152	ABWF Works	30 days	18/11/17	17/12/17						
153	Building Service Installations	45 days	18/12/17	31/01/18						
154	Ready for BA 13 Application	0 days	31/01/18	31/01/18						
155	<b>Main Station Building Fdn, G/F &amp; 1/F</b>	<b>433 days</b>	<b>01/11/16</b>	<b>07/01/18</b>						
156	Installation of Dewatering Well & King Post for Type A	14 days	01/11/16	14/11/16						
157	BD Consent for ELS MSBU10 Foundation	0 days	01/11/16	01/11/16						
158	Bulk Excavation to approx. +3.0mPD	21 days	15/11/16	05/12/16						
159	<b>Substructure&amp;G/F- GL SC1 to 10-D, 10-1 to 10-6</b>	<b>154 days</b>	<b>25/11/16</b>	<b>27/04/17</b>						
160	Excavation to Formation Level (+1.325mPD)	14 days	25/11/16	08/12/16						
161	Cut-down Pile Head & treatment	45 days	29/11/16	12/01/17						
162	Pile Cap & Tie Beam Construction	100 days	03/12/16	12/03/17						
163	Construction of Transformer Bay Foundations	45 days	17/12/16	30/01/17						
164	Excavation, Waling & Struct (Type A & Type C)	30 days	09/12/16	07/01/17						
165	Drain Pit /Sump Pit Construction	21 days	08/01/17	28/01/17						
166	Arrival of CW Culvert piping materials incl. flexible joint & other cast in materials	0 days	07/01/17	07/01/17						
167	Construction of Culvert Outlet Box	30 days	08/01/17	06/02/17						
168	Construction of Culvert Inlet Box	30 days	07/02/17	08/03/17						
169	Construction of Tie Beam/ Ground Beam (Top of the Pipe) (GLSC1 to SC4 and SCa to SCb)	45 days	27/02/17	12/04/17						
170	Bearing Wall, Column Post and G/F Slab Construction	30 days	29/03/17	27/04/17						
171	<b>Substructure &amp; G/F- GL 10-D to 10-H, 10-1 to 10-6</b>	<b>395 days</b>	<b>09/12/16</b>	<b>07/01/18</b>						
172	Excavation to Formation Level (+2.425mPD & 5.025mPD)	45 days	09/12/16	22/01/17						
173	Existing Sheet Pile Cut-down	7 days	12/12/16	18/12/16						
174	Complete excavation at Type B	14 days	19/12/16	01/01/17						
175	Blow Down Sump Construction	45 days	02/01/17	15/02/17						
176	Pile Head Treatment (18no.)	30 days	19/12/16	17/01/17						
177	Pile Cap & Tie Beam Construction	100 days	29/12/16	07/04/17						
178	Bearing Wall, Column Post and G/F Slab Construction	35 days	25/03/17	28/04/17						
179	Turbo Block Foundation	45 days	15/07/17	28/08/17						
180	Backfill of Turbo Block	14 days	14/08/17	27/08/17						
181	Turbo Block Superstructure	90 days	21/09/17	19/12/17						
182	Beam & Slabs at G/F Area	90 days	28/08/17	25/11/17						
183	Associated ABWF & BS Works for Specialist Access	60 days	09/11/17	07/01/18						
184	<b>G/F &amp; 1/F &amp; Maintenance Floor</b>	<b>44 days</b>	<b>29/04/17</b>	<b>11/06/17</b>						
185	Steel Column & Beam Erections (other than for roof truss)	14 days	29/04/17	12/05/17						

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ID	Task Name	Duration	Start	Finish	Gantt Chart (F, M, A, M, J)				
186	Erection of Steel Column along GL10-2 and 10-6 and 10-C to 10-H (G/F to R/F) for roof truss	14 days	09/05/17	22/05/17	[Gantt bar from 09/05/17 to 22/05/17]				
187	R.C. Structure Construction	30 days	13/05/17	11/06/17	[Gantt bar from 13/05/17 to 11/06/17]				
188	<b>Transformer Area</b>	<b>111 days</b>	<b>07/08/17</b>	<b>25/11/17</b>	[Gantt bar from 07/08/17 to 25/11/17]				
189	Wall Construction	90 days	07/08/17	04/11/17	[Gantt bar from 07/08/17 to 04/11/17]				
190	Slab & Plinths Construction	21 days	05/11/17	25/11/17	[Gantt bar from 05/11/17 to 25/11/17]				
191	<b>C.W. Culvert System (Area C3)</b>	<b>236 days</b>	<b>18/12/16</b>	<b>10/08/17</b>	[Gantt bar from 18/12/16 to 10/08/17]				
192	Excavation to Formation Level	21 days	18/12/16	07/01/17	[Gantt bar from 18/12/16 to 07/01/17]				
193	Penstock Trial & Preparation for connection to existing outlet pipe	21 days	18/12/16	07/01/17	[Gantt bar from 18/12/16 to 07/01/17]				
194	Construction of Binding & Plinth	7 days	08/01/17	14/01/17	[Gantt bar from 08/01/17 to 14/01/17]				
195	CW Pipe Laying	14 days	15/01/17	28/01/17	[Gantt bar from 15/01/17 to 28/01/17]				
196	Thrust Box Construction	12 days	29/01/17	09/02/17	[Gantt bar from 29/01/17 to 09/02/17]				
197	Water Test	10 days	03/02/17	12/02/17	[Gantt bar from 03/02/17 to 12/02/17]				
198	Backfill	14 days	13/02/17	26/02/17	[Gantt bar from 13/02/17 to 26/02/17]				
199	All underground Utilities	45 days	27/02/17	12/04/17	[Gantt bar from 27/02/17 to 12/04/17]				
200	Backfill & Reinstatement & Formation of Access	120 days	13/04/17	10/08/17	[Gantt bar from 13/04/17 to 10/08/17]				
201	<b>Section D - Remaining of MSBU10, HRSG, A&amp;A at L9 &amp; L8, CW Pump Equip. Rm No. 4 Ext. &amp; Demolish Site Toilet</b>	<b>478 days</b>	<b>09/12/16</b>	<b>31/03/18</b>	[Gantt bar from 09/12/16 to 31/03/18]				
202	<b>C.W Culvert System (Area C5)</b>	<b>419 days</b>	<b>09/12/16</b>	<b>31/01/18</b>	[Gantt bar from 09/12/16 to 31/01/18]				
203	Excavation to Formation Level (-2.8mPD) with ELS Installation	30 days	09/12/16	07/01/17	[Gantt bar from 09/12/16 to 07/01/17]				
204	Construction of Binding & Plinth	7 days	08/01/17	14/01/17	[Gantt bar from 08/01/17 to 14/01/17]				
205	Pipe Laying (2 Pipes)	14 days	15/01/17	28/01/17	[Gantt bar from 15/01/17 to 28/01/17]				
206	Construction of Thrust Box	21 days	29/01/17	18/02/17	[Gantt bar from 29/01/17 to 18/02/17]				
207	Water Test	7 days	20/02/17	26/02/17	[Gantt bar from 20/02/17 to 26/02/17]				
208	Backfill	14 days	27/02/17	12/03/17	[Gantt bar from 27/02/17 to 12/03/17]				
209	All underground Utilities	125 days	13/03/17	15/07/17	[Gantt bar from 13/03/17 to 15/07/17]				
210	Backfill & Reinstatement & Formation of Access	200 days	16/07/17	31/01/18	[Gantt bar from 16/07/17 to 31/01/18]				
211	<b>HRSG Area Fdn - North (Area C6)</b>	<b>340 days</b>	<b>26/04/17</b>	<b>31/03/18</b>	[Gantt bar from 26/04/17 to 31/03/18]				
212	Excavation to Formation Level	21 days	26/04/17	16/05/17	[Gantt bar from 26/04/17 to 16/05/17]				
213	Drain Pit Construction (5no.1.6m to 6m in Height)	45 days	17/05/17	30/06/17	[Gantt bar from 17/05/17 to 30/06/17]				
214	Pile Head Treatment (8no.)	16 days	15/06/17	30/06/17	[Gantt bar from 15/06/17 to 30/06/17]				
215	MSB Fdn North of HRSG Area GL 10-H to 10H-H, 10-1to 10H-3	150 days	22/06/17	18/11/17	[Gantt bar from 22/06/17 to 18/11/17]				
216	All underground Utilities	60 days	19/11/17	17/01/18	[Gantt bar from 19/11/17 to 17/01/18]				
217	Plate Load Test	10 days	18/01/18	27/01/18	[Gantt bar from 18/01/18 to 27/01/18]				
218	Raft Fdn (1no.)	18 days	28/01/18	14/02/18	[Gantt bar from 28/01/18 to 14/02/18]				
219	Backfill & Reinstatement & Formation of Access	45 days	15/02/18	31/03/18	[Gantt bar from 15/02/18 to 31/03/18]				
220	<b>Main Station Building - Unit L10 Superstructure</b>	<b>337 days</b>	<b>29/04/17</b>	<b>31/03/18</b>	[Gantt bar from 29/04/17 to 31/03/18]				
221	<b>2/F</b>	<b>44 days</b>	<b>13/05/17</b>	<b>25/06/17</b>	[Gantt bar from 13/05/17 to 25/06/17]				
222	Steel Beam Erection	14 days	13/05/17	26/05/17	[Gantt bar from 13/05/17 to 26/05/17]				
223	R.C. Structure Construction	14 days	12/06/17	25/06/17	[Gantt bar from 12/06/17 to 25/06/17]				
224	<b>3/F</b>	<b>51 days</b>	<b>27/05/17</b>	<b>16/07/17</b>	[Gantt bar from 27/05/17 to 16/07/17]				
225	Steel Beam Erection	14 days	27/05/17	09/06/17	[Gantt bar from 27/05/17 to 09/06/17]				
226	R.C. Structure Construction	21 days	26/06/17	16/07/17	[Gantt bar from 26/06/17 to 16/07/17]				
227	<b>4/F</b>	<b>58 days</b>	<b>10/06/17</b>	<b>06/08/17</b>	[Gantt bar from 10/06/17 to 06/08/17]				
228	Steel Beam Erection	14 days	10/06/17	23/06/17	[Gantt bar from 10/06/17 to 23/06/17]				
229	R.C. Structure Construction	21 days	17/07/17	06/08/17	[Gantt bar from 17/07/17 to 06/08/17]				
230	<b>5/F &amp; Roof except GL 10-G to 10-H and 10-2 to 10-6</b>	<b>81 days</b>	<b>23/05/17</b>	<b>11/08/17</b>	[Gantt bar from 23/05/17 to 11/08/17]				
231	Steel Roof Truss Erection (GL 10-D & 10-E)	7 days	23/05/17	29/05/17	[Gantt bar from 23/05/17 to 29/05/17]				
232	Steel Roof Truss Erection (GL 10-F & 10-G)	7 days	30/05/17	05/06/17	[Gantt bar from 30/05/17 to 05/06/17]				
233	Steel Roof & Crane Rail Erection	21 days	25/05/17	14/06/17	[Gantt bar from 25/05/17 to 14/06/17]				
234	Slab Construction	30 days	15/06/17	14/07/17	[Gantt bar from 15/06/17 to 14/07/17]				
235	Upper Roof - Steel Roof Erection	30 days	08/07/17	06/08/17	[Gantt bar from 08/07/17 to 06/08/17]				
236	Upper roof RC construction	21 days	22/07/17	11/08/17	[Gantt bar from 22/07/17 to 11/08/17]				
237	Staircase Constructions	100 days	29/04/17	06/08/17	[Gantt bar from 29/04/17 to 06/08/17]				
238	Fendolite Installation to S. Steel Works	90 days	07/08/17	04/11/17	[Gantt bar from 07/08/17 to 04/11/17]				
239	External Metal Cladding Installation	120 days	21/08/17	18/12/17	[Gantt bar from 21/08/17 to 18/12/17]				
240	Internal ABWF Works	180 days	06/09/17	04/03/18	[Gantt bar from 06/09/17 to 04/03/18]				
241	BS Installation	180 days	03/10/17	31/03/18	[Gantt bar from 03/10/17 to 31/03/18]				
242	<b>275kV Cable Trench (Area C5 &amp; C6)</b>	<b>180 days</b>	<b>16/07/17</b>	<b>11/01/18</b>	[Gantt bar from 16/07/17 to 11/01/18]				
243	275kV Cable Trench Excavation(C5 Area)	90 days	16/07/17	13/10/17	[Gantt bar from 16/07/17 to 13/10/17]				
244	275kV Cable Trench Excavation(C6 Area)	90 days	14/10/17	11/01/18	[Gantt bar from 14/10/17 to 11/01/18]				
245	<b>MSB UnitL9 - A&amp;A</b>	<b>140 days</b>	<b>12/06/17</b>	<b>29/10/17</b>	[Gantt bar from 12/06/17 to 29/10/17]				
246	Hack-off Lean Concrete	70 days	12/06/17	21/08/17	[Gantt bar from 12/06/17 to 21/08/17]				
247	Pipe Rack Support Construction	70 days	21/08/17	29/10/17	[Gantt bar from 21/08/17 to 29/10/17]				
248	<b>MSB UnitL8 - A&amp;A</b>	<b>150 days</b>	<b>09/04/17</b>	<b>06/09/17</b>	[Gantt bar from 09/04/17 to 06/09/17]				
249	A&A Works	150 days	09/04/17	06/09/17	[Gantt bar from 09/04/17 to 06/09/17]				
250	<b>C.W. Pump Equipment Room</b>	<b>364 days</b>	<b>01/04/17</b>	<b>31/03/18</b>	[Gantt bar from 01/04/17 to 31/03/18]				



Contract No. 16/8002 Lamma Power Station Extension Civil and Building Unit L10

ID	Task Name	Duration	Start	Finish	Gantt Chart (F, M, A, M, J)				
251	BA 10 Application	0 days	01/04/17	01/04/17	◆ BA 10 Application				
252	Excavation to + 4.05mPD	21 days	02/04/17	22/04/17	[Task Bar]				
253	Plate Load Test	14 days	23/04/17	06/05/17	[Task Bar]				
254	Raft Foundation Construction	18 days	07/05/17	24/05/17	[Task Bar]				
255	Underground Drainage	21 days	25/05/17	14/06/17	[Task Bar]				
256	Backfill	10 days	15/06/17	24/06/17	[Task Bar]				
257	Construct G/F	21 days	25/06/17	15/07/17	[Task Bar]				
258	Roof Construction	45 days	16/07/17	29/08/17	[Task Bar]				
259	Parapet Wall	18 days	30/08/17	16/09/17	[Task Bar]				
260	ABWF Works	75 days	17/09/17	30/11/17	[Task Bar]				
261	Building Service Installations	75 days	01/12/17	13/02/18	[Task Bar]				
262	External Pipe Rack Extension & Reinstatement Works	90 days	31/12/17	30/03/18	[Task Bar]				
263	Ready for BA 13 Application	0 days	31/03/18	31/03/18	[Task Bar]				
264	<b>Demolition Work - Temporary Site Toilet</b>	<b>60 days</b>	<b>08/07/17</b>	<b>06/09/17</b>	[Task Bar]				
265	Demolition of Temp. Site Toilet	60 days	08/07/17	06/09/17	[Task Bar]				
266	<b>Section E - Middel Rd &amp; South of L10. Expose &amp; Construction New 275kV Trench at LM</b>	<b>336 days</b>	<b>15/06/17</b>	<b>16/05/18</b>	[Task Bar]				
267	<b>275kV Cable Trench</b>	<b>240 days</b>	<b>16/07/17</b>	<b>12/03/18</b>	[Task Bar]				
268	275kV Cable Trench Re-excavation (~172m)	240 days	16/07/17	12/03/18	[Task Bar]				
269	<b>C.W. Culvert System (Area C9a &amp; C15)</b>	<b>336 days</b>	<b>15/06/17</b>	<b>16/05/18</b>	[Task Bar]				
270	Removal of existing paving block	12 days	15/06/17	26/06/17	[Task Bar]				
271	Install ELS & Excaavation, Phase 1	45 days	27/06/17	10/08/17	[Task Bar]				
272	Blinding & Construct Plinth	30 days	11/08/17	09/09/17	[Task Bar]				
273	Pipe Laying & Thrust Box	30 days	10/09/17	09/10/17	[Task Bar]				
274	Water Test and Backfill	12 days	10/10/17	21/10/17	[Task Bar]				
275	Underground UU and Reinstatement	45 days	22/10/17	05/12/17	[Task Bar]				
276	Install ELS & Excavation, Phase 2	45 days	06/12/17	19/01/18	[Task Bar]				
277	Blinding & Concrete Plinth	30 days	20/01/18	18/02/18	[Task Bar]				
278	Pipe Laying and Thrust Box	30 days	19/02/18	20/03/18	[Task Bar]				
279	Water Test & Backfill	12 days	21/03/18	01/04/18	[Task Bar]				
280	Underground UU and Reinstatement	45 days	02/04/18	16/05/18	[Task Bar]				
281	<b>Section F -Urea Storage &amp; Handling Facilities</b>	<b>488 days</b>	<b>01/05/17</b>	<b>31/08/18</b>	[Task Bar]				
282	<b>Urea Handling &amp; Storage Plant House, Electrical Room &amp; Pipe Rack</b>	<b>488 days</b>	<b>01/05/17</b>	<b>31/08/18</b>	[Task Bar]				
283	BA 10 Application	10 days	01/05/17	10/05/17	[Task Bar]				
284	Excavation to Formation Level	14 days	11/05/17	24/05/17	[Task Bar]				
285	Plate Load Test	14 days	25/05/17	07/06/17	[Task Bar]				
286	Raft Foundation (Urea Handling Rm)	21 days	08/06/17	28/06/17	[Task Bar]				
287	Raft Foundation (Electrical Rm)	30 days	29/06/17	28/07/17	[Task Bar]				
288	Backfill	21 days	29/07/17	18/08/17	[Task Bar]				
289	Construct G/F	45 days	19/08/17	02/10/17	[Task Bar]				
290	Roof Construction	75 days	03/10/17	16/12/17	[Task Bar]				
291	Parapet Wall	21 days	17/12/17	06/01/18	[Task Bar]				
292	ABWF Works	120 days	07/01/18	06/05/18	[Task Bar]				
293	Building Service Installations	120 days	04/05/18	31/08/18	[Task Bar]				
294	Ready for BA 13 Application	0 days	31/08/18	31/08/18	[Task Bar]				
295	Plate Load Test	14 days	25/05/17	07/06/17	[Task Bar]				
296	Pipe Rack Foundation	28 days	08/06/17	05/07/17	[Task Bar]				
297	Supporting Tower (4 no.) (9.55m in Height)	60 days	06/07/17	03/09/17	[Task Bar]				
298	Pipe Rack Truss (3 no. )17.3m Span	60 days	04/09/17	02/11/17	[Task Bar]				
299	<b>Section G - Demin. Plant Road &amp; Modification at No. 4 CW Intake</b>	<b>273 days</b>	<b>01/01/18</b>	<b>30/09/18</b>	[Task Bar]				
300	<b>C.W Culvert System (Area C9b)</b>	<b>272 days</b>	<b>01/01/18</b>	<b>30/09/18</b>	[Task Bar]				
301	Design, Approval & Consent	0 days	01/01/18	01/01/18	[Task Bar]				
302	Removal of paving block & ELS Installation	30 days	02/01/18	31/01/18	[Task Bar]				
303	Excavation to Formation Level with ELS Installation	45 days	01/02/18	17/03/18	[Task Bar]				
304	Construction of Blinding & Plinth	14 days	18/03/18	31/03/18	[Task Bar]				
305	Pipe Laying (2 pipes x ~45m)	30 days	01/04/18	30/04/18	[Task Bar]				
306	Construction of Thrust Box	14 days	01/05/18	14/05/18	[Task Bar]				
307	Water Test	8 days	15/05/18	22/05/18	[Task Bar]				
308	Backfill	21 days	23/05/18	12/06/18	[Task Bar]				
309	All underground Utilities	50 days	13/06/18	01/08/18	[Task Bar]				
310	Backfill & Reinstatement & Formation of Access	60 days	02/08/18	30/09/18	[Task Bar]				
311	<b>Modification Works - No. 4 C.W. Intake &amp; No.3 C.W. Outfall</b>	<b>181 days</b>	<b>01/01/18</b>	<b>30/06/18</b>	[Task Bar]				
312	No. 3 C.W. Outfall Modification	90 days	01/01/18	01/04/18	[Task Bar]				
313	No. 4 C.W. Intake Modification	122 days	01/03/18	30/06/18	[Task Bar]				
314	<b>Section H1 - Gas Support foundation &amp; trench at Area C11</b>	<b>405 days</b>	<b>01/11/16</b>	<b>10/12/17</b>	[Task Bar]				
315	<b>GRS Support Foundation</b>	<b>405 days</b>	<b>01/11/16</b>	<b>10/12/17</b>	[Task Bar]				



Contract No. 16/8002 Lamma Power Station Extension Civil and Building Unit L10

ID	Task Name	Duration	Start	Finish	F	M	A	M	J
316	Temporary Protection, advance work etc	45 days	01/11/16	15/12/16					
317	Gas Pipe Footing	180 days	16/12/16	13/06/17					
318	Gas Pipe Trench	180 days	14/06/17	10/12/17					
319	<b>Section H2 - GRS Improvement work at Area C10</b>	<b>441 days</b>	<b>01/09/17</b>	<b>15/11/18</b>					
320	<b>GRS Area Improvement Works</b>	<b>441 days</b>	<b>01/09/17</b>	<b>15/11/18</b>					
321	Retaining Wall Construction	90 days	01/09/17	29/11/17					
322	Removal of Surcharge and Backfill	45 days	30/11/17	13/01/18					
323	Footing Construction	240 days	14/01/18	10/09/18					
324	Topping up, finish and Misc. Works	66 days	11/09/18	15/11/18					
325	<b>Section H3 - L10 Chimney Flue and A&amp;A L9 &amp; pipe rack formation</b>	<b>318 days</b>	<b>01/01/18</b>	<b>15/11/18</b>					
326	<b>No.4 Chimney Steel Flue</b>	<b>318 days</b>	<b>01/01/18</b>	<b>15/11/18</b>					
327	Consent, documentation and site preparation	0 days	01/01/18	01/01/18					
328	Steel Flue Preparation & installation	150 days	02/01/18	31/05/18					
329	Install Steel Cover at Windshield	45 days	01/06/18	15/07/18					
330	Install Steel Cover at Roof	30 days	16/07/18	14/08/18					
331	Modification & Reinstatement Works	55 days	15/08/18	08/10/18					
332	E & M Installation	38 days	09/10/18	15/11/18					
333	MSB Unit 9 Pipe Rack Construction	90 days	01/04/18	29/06/18					
334	<b>Section I1 - Link Bridge &amp; associated A&amp;A</b>	<b>455 days</b>	<b>01/01/18</b>	<b>31/03/19</b>					
335	<b>Link Bridge</b>	<b>455 days</b>	<b>01/01/18</b>	<b>31/03/19</b>					
336	Design & Shop Drawings	90 days	01/01/18	31/03/18					
337	Access	0 days	17/11/18	17/11/18					
338	Site preparation	14 days	18/11/18	01/12/18					
339	Link Bridge between Unit L9 & L10	120 days	02/12/18	31/03/19					
340	<b>Section I2 - Shunt Reactor SR4 Foundation</b>	<b>90 days</b>	<b>01/01/19</b>	<b>31/03/19</b>					
341	<b>Shunt Reactor Compound SR4</b>	<b>90 days</b>	<b>01/01/19</b>	<b>31/03/19</b>					
342	Modification Work at Shunt Reactor SR4	90 days	01/01/19	31/03/19					
343	<b>Section I3 - All remaining work except deferred works</b>	<b>417 days</b>	<b>08/02/18</b>	<b>31/03/19</b>					
344	<b>Remaining Works</b>	<b>417 days</b>	<b>08/02/18</b>	<b>31/03/19</b>					
345	Demolition of Canopy @ Jetty Guard Hose & Toilet)	30 days	02/08/18	31/08/18					
346	Demolition of Existing Contractor Shed	60 days	01/09/18	30/10/18					
347	Security Fence Erection	20 days	31/10/18	19/11/18					
348	All External Works & Road Works	417 days	08/02/18	31/03/19					
349	<b>Deferred Works - L10 MSB and HRSG</b>	<b>417 days</b>	<b>08/02/18</b>	<b>31/03/19</b>					
350	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					
351	Construction of Walls and Ceilings of Lube Oil Tank Room at L10 MSB	92 days	01/05/18	31/07/18					
352	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					
353	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					
354	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					
355	Removal of Temporary Paving Within L10 HRSG Area to Expose all respective Equipment Foundations	14 days	01/08/18	14/08/18					
356	Construction of Foundation Plinths and Walls of Lube Oil Storage Tank	93 days	15/08/18	15/11/18					
357	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					
358	<b>Deferred Works - External Works</b>	<b>182 days</b>	<b>01/10/18</b>	<b>31/03/19</b>					
359	Final Reinstatement of Access Roads and Pavement Surrounding and within L10 MSB and L10 HRSG Area	151 days	01/10/18	28/02/19					
360	FSD Inspection	14 days	02/03/19	15/03/19					
361	BD OP Inspection	14 days	18/03/19	31/03/19					
362	<b>Section J - Cable Route CPX1&amp;2 cable diversion &amp; whole of work except deferred works to be carried out in DLP</b>	<b>1127 days</b>	<b>01/05/17</b>	<b>31/05/20</b>					
363	<b>275kV Cable Diversion</b>	<b>1127 days</b>	<b>01/05/17</b>	<b>31/05/20</b>					
364	<b>Part I (1km in Length, 1.1m to 1.5m Deep) (Works in existing Trench)</b>	<b>426 days</b>	<b>01/05/17</b>	<b>30/06/18</b>					
365	Tentative Commencement Date Of Civil Works	0 days	01/05/17	01/05/17					
366	Implementation of TTA	7 days	01/05/17	07/05/17					
367	Remove the Concrete Road Cover	60 days	08/05/17	06/07/17					

◆ Tentative Commencement Date Of Civil Works

Contract No. 16/8002 Lamma Power Station Extension Civil and Building Unit L10

ID	Task Name	Duration	Start	Finish	F	M	A	M	J
368	Cable Trench Re-excavation	208 days	07/06/17	31/12/17					
369	Completion Date of Trench Excavation for Site Handover	0 days	31/12/17	31/12/17					
370	Tentative Period for Backfilling and Road Reinstatement (Excluding Joint Bay and Trench at Station Road)	91 days	01/04/18	30/06/18					
371	<b>Part II (630m in Length, 1.1m to 1.5m Deep) (Works in existing Trench)</b>	<b>485 days</b>	<b>01/11/17</b>	<b>28/02/19</b>					
372	Tentative Commencement Date Of Civil Works	0 days	01/11/17	01/11/17					
373	Implementation of TTA	7 days	01/11/17	07/11/17					
374	Remove the Concrete Road Cover	32 days	08/11/17	09/12/17					
375	Trench Excavation and Installation of Road Decking at Joint Bay (Including Part I & II)	90 days	25/11/17	22/02/18					
376	Cable Trench Re-excavation	190 days	23/02/18	31/08/18					
377	Completion Date of Trench Excavation for Site Handover	0 days	31/08/18	31/08/18					
378	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					
379	<b>Part III (400m in Length, 1.3m to 1.5m Deep) (Works in New Trench)</b>	<b>518 days</b>	<b>01/07/18</b>	<b>30/11/19</b>					
380	Tentative Commencement Date Of Civil Works	0 days	01/07/18	01/07/18					
381	Implementation of TTA	7 days	01/07/18	07/07/18					
382	Remove the Concrete Road Cover	30 days	08/07/18	06/08/18					
383	Cable Trench Excavation with shoring	270 days	07/08/18	03/05/19					
384	Construction of New Joint Bay	28 days	04/05/19	31/05/19					
385	Completion Date of Trench Excavation for Site Handover	0 days	31/05/19	31/05/19					
386	Tentative Period for Backfilling and Road Reinstatement (excluding new slab but including SJ3)	91 days	01/09/19	30/11/19					
387	<b>Part IV (Hand Dig Tunnel)</b>	<b>701 days</b>	<b>01/07/18</b>	<b>31/05/20</b>					
388	Tentative Commencement Date Of Civil Works	0 days	01/07/18	01/07/18					
389	Excavation to Approx. +5mPD	30 days	01/07/18	30/07/18					
390	Existing Drainage Diversion	50 days	31/07/18	18/09/18					
391	Construction of New Cable Joint Bay	30 days	19/09/18	18/10/18					
392	Ramp Trench	75 days	19/10/18	01/01/19					
393	Formation of Temp. Cable Pit	45 days	02/01/19	15/02/19					
394	Hand Dig Tunnel (17.6m) (0.2-0.3m/day)	75 days	16/02/19	01/05/19					
395	Excavation for Duct Bank Construction	60 days	02/05/19	30/06/19					
396	Completion Date of Trench Excavation for Site Handover	0 days	30/06/19	30/06/19					
397	<b>Deferred Works - Cable Diversion CPX1 and CPX2 (during DLP)</b>	<b>274 days</b>	<b>01/09/19</b>	<b>31/05/20</b>					
398	Formation of Wall Opening between existing trench CPX1 and new Joint Bay	7 days	01/09/19	07/09/19					
399	Breaking up for Road Paving and Excavation down to Cable Tiles of Existing Trench CPX2	31 days	01/12/19	31/12/19					
400	Demolition of Existing Trench CPX1 and CPX2	30 days	01/04/20	30/04/20					
401	Final Reinstatement of the CPX1 and CPX2 Areas	31 days	01/05/20	31/05/20					
402	<b>Deferred Works - Shunt Reactor Compound SR4 (during DLP)</b>	<b>153 days</b>	<b>01/07/19</b>	<b>30/11/19</b>					
403	Trench Re-excavation and Cable Supports Installation for Shunt Reactor Compound SR4	62 days	01/07/19	31/08/19					
404	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		
					M3	M4	M5			
					二月	三月	四月			
1	<b>Key Date</b>	<b>455 days</b>	<b>2016/12/21</b>	<b>2018/3/20</b>						
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	<b>Submission &amp; Works Commenced Before the Contract</b>	<b>231 days</b>	<b>2016/11/14</b>	<b>2017/7/2</b>						
8	<b>Preliminaries</b>	<b>75 days</b>	<b>2016/11/14</b>	<b>2017/1/27</b>						
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	<b>Predrilling Works</b>	<b>51 days</b>	<b>2016/11/23</b>	<b>2017/1/12</b>						
21	Drilling rigs mobilization (6 rigs)	1 day	2016/12/22	2016/12/22						
22	Predrilling works	31 days	2016/11/23	2016/12/23						
23	Submission of predrill logs	16 days	2016/12/28	2017/1/12						
24	Completion of predrilling works	0 days	2017/1/12	2017/1/12						
25										
26	<b>Plant Mobilization for Bored Pile Construction</b>	<b>207 days</b>	<b>2016/12/8</b>	<b>2017/7/2</b>						
27	<b>Crawler Crane</b>	<b>86 days</b>	<b>2016/12/8</b>	<b>2017/3/3</b>						
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	<b>Oscillator</b>	<b>206 days</b>	<b>2016/12/9</b>	<b>2017/7/2</b>						
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	<b>RCD</b>	<b>84 days</b>	<b>2017/1/7</b>	<b>2017/3/31</b>						
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	<b>Delivery of Temporary Steel Casing for Bored Pile Construction</b>	<b>192 days</b>	<b>2016/12/21</b>	<b>2017/6/30</b>						
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	<b>Total Contract Period</b>	<b>455 days</b>	<b>2016/12/21</b>	<b>2018/3/20</b>						
47										
48	<b>Section A</b>	<b>315 days</b>	<b>2016/12/21</b>	<b>2017/10/31</b>						
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
					M3 二月	M4 三月	M5 四月	
51	Duration for delivery of permanent casing & double wall liner	240 days	2017/1/20	2017/9/16	[Gantt bar]			
52	<b>Bored Pile Construction (22 piles)</b>	<b>315 days</b>	<b>2016/12/21</b>	<b>2017/10/31</b>	[Gantt bar]			
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	[Gantt bar]			
54	G2	45 days	2016/12/21	2017/2/3	[Gantt bar]			
55	G1	46 days	2017/2/4	2017/3/21	[Gantt bar]			
56	G4	50 days	2017/3/22	2017/5/10	[Gantt bar]			
57	G3	45 days	2017/5/11	2017/6/24	[Gantt bar]			
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	[Gantt bar]			
59	G7	45 days	2016/12/21	2017/2/3	[Gantt bar]			
60	G6	43 days	2017/2/4	2017/3/18	[Gantt bar]			
61	G5	48 days	2017/3/19	2017/5/5	[Gantt bar]			
62	BP26	46 days	2017/5/6	2017/6/20	[Gantt bar]			
63	BP20 (required after 1 July 17)	44 days	2017/7/3	2017/8/15	[Gantt bar]			
64	BP23 (required after 1 July 17)	45 days	2017/8/16	2017/9/29	[Gantt bar]			
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	[Gantt bar]			
66	BP5	45 days	2017/1/9	2017/2/22	[Gantt bar]			
67	BP1	50 days	2017/1/27	2017/3/17	[Gantt bar]			
68	BP13	45 days	2017/2/23	2017/4/8	[Gantt bar]			
69	BP9	50 days	2017/3/18	2017/5/6	[Gantt bar]			
70	BP17	45 days	2017/4/9	2017/5/23	[Gantt bar]			
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	[Gantt bar]			
72	G10	45 days	2017/1/16	2017/3/1	[Gantt bar]			
73	G8	45 days	2017/3/2	2017/4/15	[Gantt bar]			
74	G9	46 days	2017/4/16	2017/5/31	[Gantt bar]			
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	[Gantt bar]			
76	BP8 (required after 1 July 17)	41 days	2017/7/3	2017/8/12	[Gantt bar]			
77	BP4 (required after 1 July 17)	43 days	2017/8/14	2017/9/25	[Gantt bar]			
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	[Gantt bar]			
79	BP12 (required after 1 July 17)	46 days	2017/7/3	2017/8/17	[Gantt bar]			
80	BP16 (required after 1 July 17)	41 days	2017/8/18	2017/9/27	[Gantt bar]			
81	Interface & sonic test	30 days	2017/9/7	2017/10/6	[Gantt bar]			
82	Prepare & submit as-built record plan	7 days	2017/9/30	2017/10/6	[Gantt bar]			
83	Submission of BA14	1 day	2017/10/7	2017/10/7	[Gantt bar]			
84	Allow 14 days for selection of pile for concrete full core test	14 days	2017/10/8	2017/10/21	[Gantt bar]			
85	Concrete full core test	10 days	2017/10/22	2017/10/31	[Gantt bar]			
86	Completion of bored pile construction	0 days	2017/10/31	2017/10/31	[Gantt bar]			
87	<b>Sheet Pile</b>	<b>163 days</b>	<b>2017/5/22</b>	<b>2017/10/31</b>	[Gantt bar]			
88	Plant mobilization (1 rig) (1 operator, 4 riggers & 4 welders)	7 days	2017/8/13	2017/8/19	[Gantt bar]			
89	Delivery of sheet pile material	90 days	2017/5/22	2017/8/19	[Gantt bar]			
90	Installation of sheet pile - Type B (approx. 80 piles)	65 days	2017/8/20	2017/10/23	[Gantt bar]			
91	Prepare & submit as-built record plan	7 days	2017/10/24	2017/10/30	[Gantt bar]			
92	Submission of BA14	1 day	2017/10/31	2017/10/31	[Gantt bar]			
93	Completion of sheet pile	0 days	2017/10/31	2017/10/31	[Gantt bar]			
94	Completion of section A	0 days	2017/10/31	2017/10/31	[Gantt bar]			

Master Programme  
MP-03 ( 14 Jan 2017 )

Task [Blue bar] Critical Task [Red bar] Milestone [Diamond] Summary [Arrow]

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		
					M3 二月	M4 三月	M5 四月			
95										
96	<b>Section B</b>	<b>455 days</b>	<b>2016/12/21</b>	<b>2018/3/20</b>						
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	<b>Bored Pile Construction (16 piles)</b>	<b>373 days</b>	<b>2017/3/13</b>	<b>2018/3/20</b>						
101	<b>1st set - BP21 &gt; BP22 &gt; BP18 &gt; BP19 &gt; BP15 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers &amp; 2 welders)</b>	<b>227 days</b>	<b>2017/6/25</b>	<b>2018/2/6</b>						
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	<b>3rd set - BP14 &gt; BP11 &gt; BP29 &gt; BP6 &gt; BP7 (1 crane operator, 1 oscillator operator, 2 RCD operators, 4 riggers &amp; 2 welders)</b>	<b>137 days</b>	<b>2017/5/7</b>	<b>2017/9/20</b>						
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	<b>4th set - BP27 &gt; BP28 &gt; BP25 &gt; BP24 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers &amp; 2 welders)</b>	<b>182 days</b>	<b>2017/6/1</b>	<b>2017/11/29</b>						
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	<b>5th set - BP10 &gt; BP3 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers &amp; 2 welders)</b>	<b>94 days</b>	<b>2017/3/13</b>	<b>2017/6/14</b>						
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	<b>Sheet Pile</b>	<b>235 days</b>	<b>2017/7/10</b>	<b>2018/3/1</b>						
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						

Master Programme  
MP-03 ( 14 Jan 2017 )

Task  Critical Task  Milestone  Summary 