

SUNLEY ENGINEERING &amp; CONSTRUCTION CO., LTD.

Contract No. 15/8009 - Lamma Power Station Extension Foundation Works for Unit L10Master Programme Revision 1

ID	Item	Task Name	Duration	Start	Finish	M13	M14	M15
1		<b>1 Key Date</b>						
2	1.1	Commencement date	486 days	2016/1/1	2017/4/30			
3	1.2	Duration of works	0 days	2016/1/1	2016/1/1			
4	1.3	Possession date	486 days	2016/1/1	2017/4/30			
5	1.4	Completion of the Contract	0 days	2016/1/1	2016/1/1			
6			0 days	2017/4/30	2017/4/30			
7		<b>2 Total Contract Period</b>	486 days	2016/1/1	2017/5/1			
8								
9	2.1	<b>Preliminaries</b>	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	<b>Section A</b>	305 days	2016/1/1	2016/10/31			
24	2.2.1	<b>Hoarding</b>	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	<b>Foundation Works at Unit L10</b>	295 days	2016/1/11	2016/10/31			
27	2.2.2.1	<b>Bored Pile - Temporary Steel Casing</b>	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	<b>Bored Pile - Permanent Casing &amp; Double Wall Liner</b>	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	<b>Bored Pile - Plant Mobilization</b>	56 days	2016/1/15	2016/3/11			
33	2.2.2.3.1	<b>Crawler Crane</b>	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	<b>Oscillator</b>	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	<b>RCD</b>	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	<b>Predrilling</b>	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	<b>Bored Pile Construction</b>	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			

Master Programme  
Revision 1

Task



Critical Task

Milestone

Summary

SUNLEY ENGINEERING &amp; CONSTRUCTION CO., LTD.

Contract No. 15/8009 - Lamma Power Station Extension Foundation Works for Unit L10Master Programme Revision 1

ID	Item	Task Name	Duration	Start	Finish	M13	M14	M15
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>			

Master Programme  
Revision 1

Task



Critical Task

Milestone

Summary

SUNLEY ENGINEERING &amp; CONSTRUCTION CO., LTD.

Contract No. 15/8009 - Lamma Power Station Extension Foundation Works for Unit L10Master Programme Revision 1

ID	Item	Task Name	Duration	Start	Finish	M13	M14	M15
105	2.5.2.5.1	Predrilling works (10 nos.)	21 days	2016/11/1	2016/11/21			
106	<b>2.5.2.6</b>	<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	<b>2.5.3</b>	<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	<b>2.5.3.3</b>	<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	<b>2.5.3.4</b>	<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	<b>2.5.3.5</b>	<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	<b>2.7</b>	<b>Section D</b>	<b>383 days</b>	<b>2016/1/15</b>	<b>2017/1/31</b>			
138	<b>2.7.1</b>	<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	<b>2.7.2</b>	<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	<b>2.7.3</b>	<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	<b>2.7.4</b>	<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			

Master Programme  
Revision 1

Task

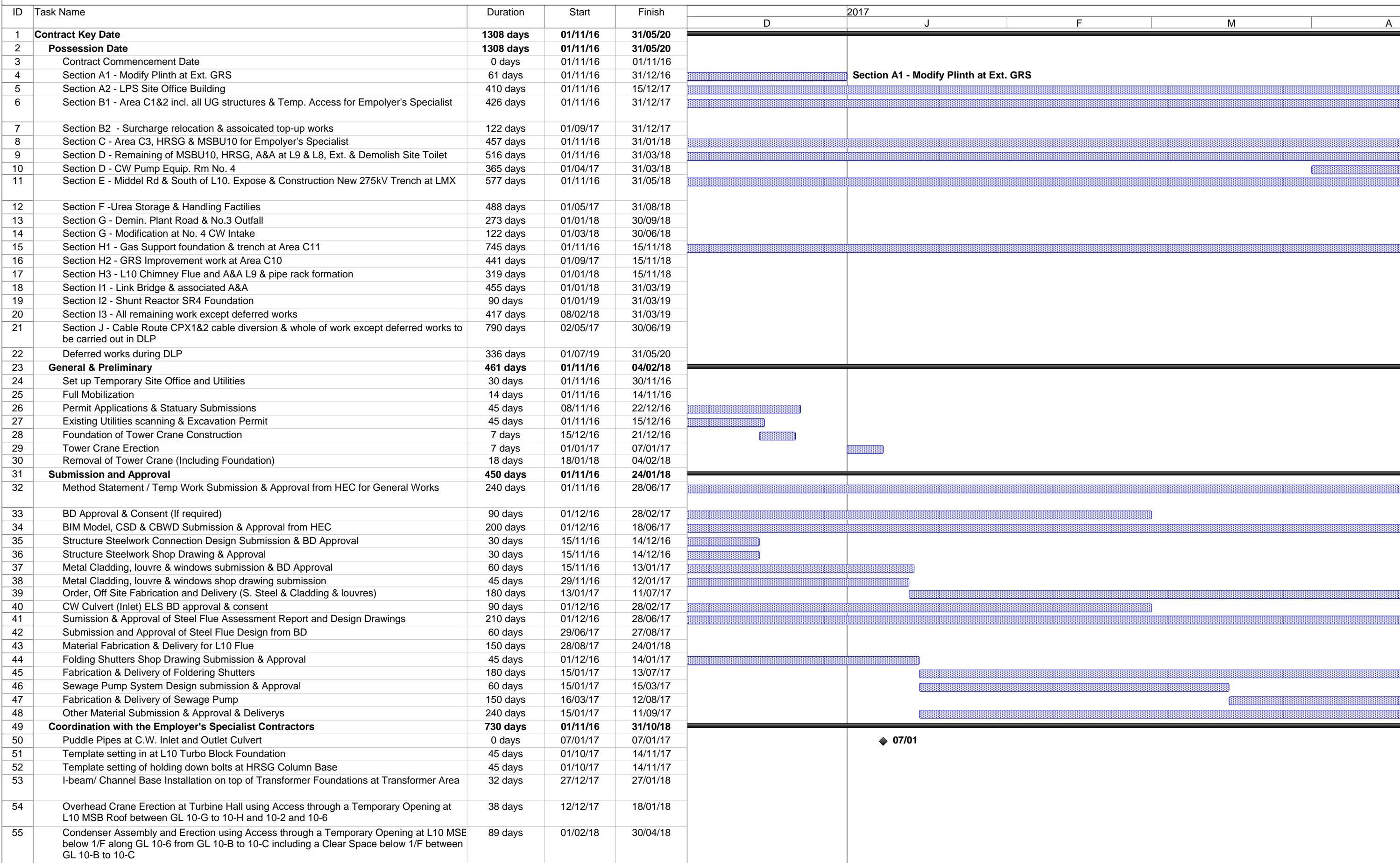


Critical Task

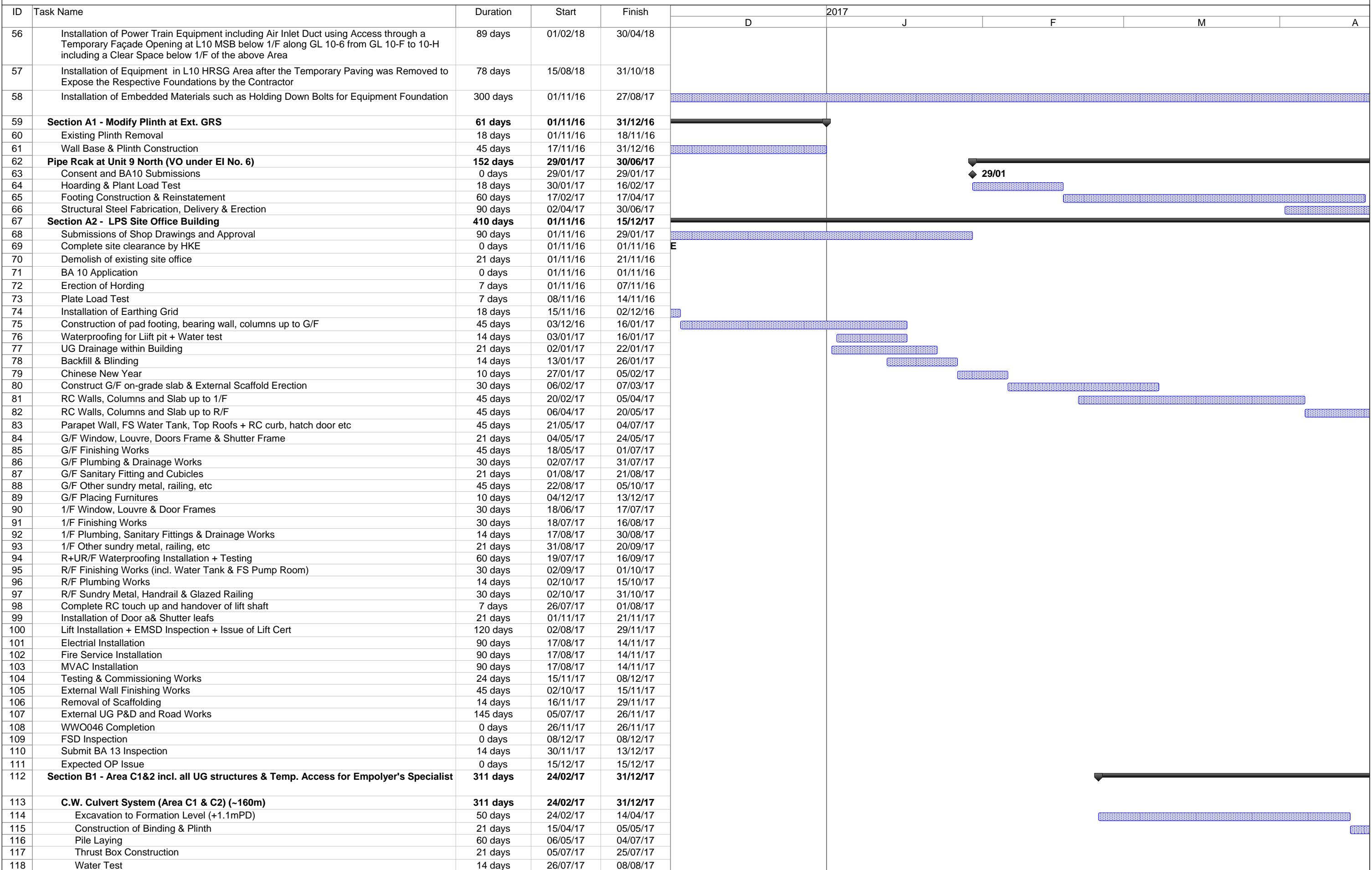
Milestone

Summary

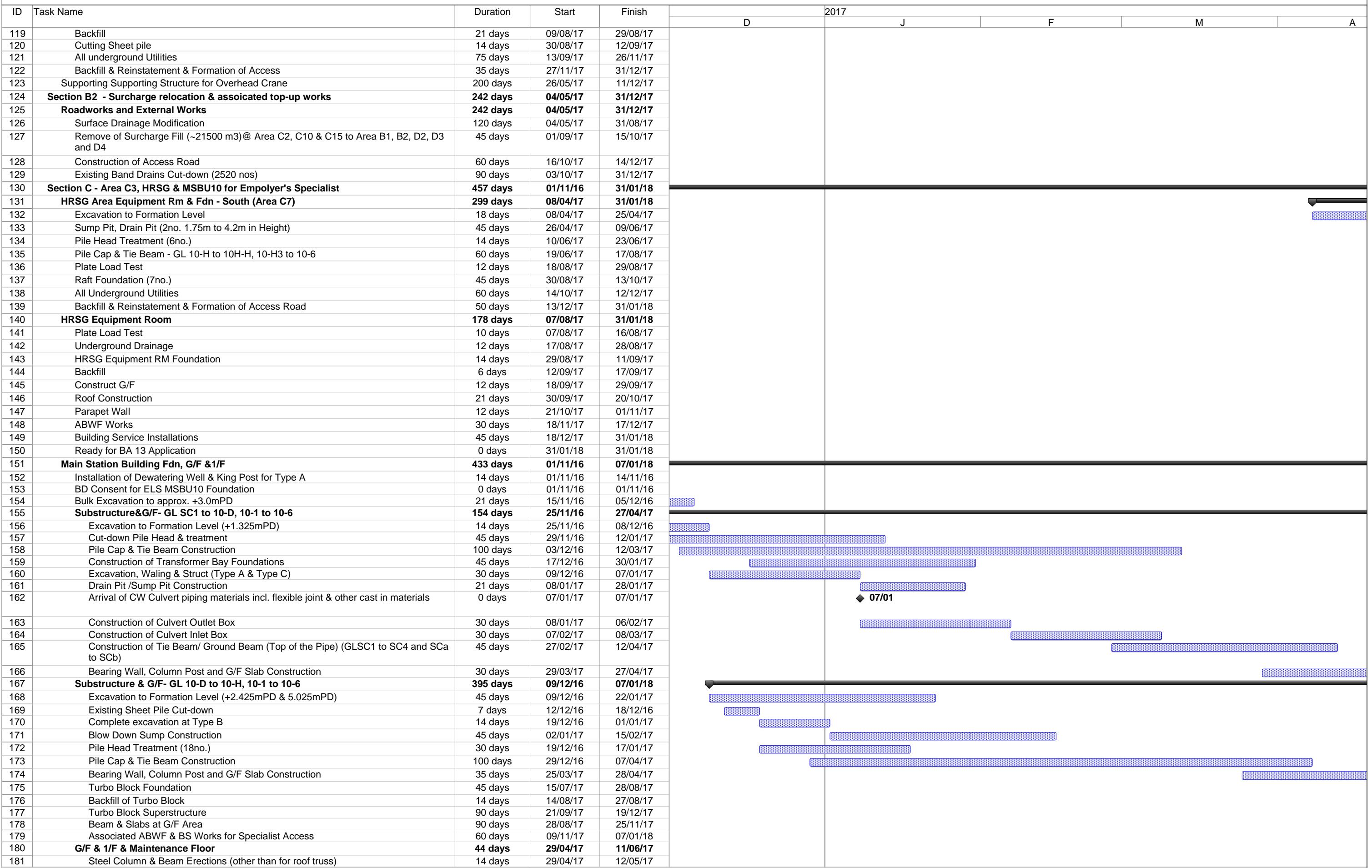
Contract No. 16/8002 Lamma Power Station Extension Civil and Building Unit L10



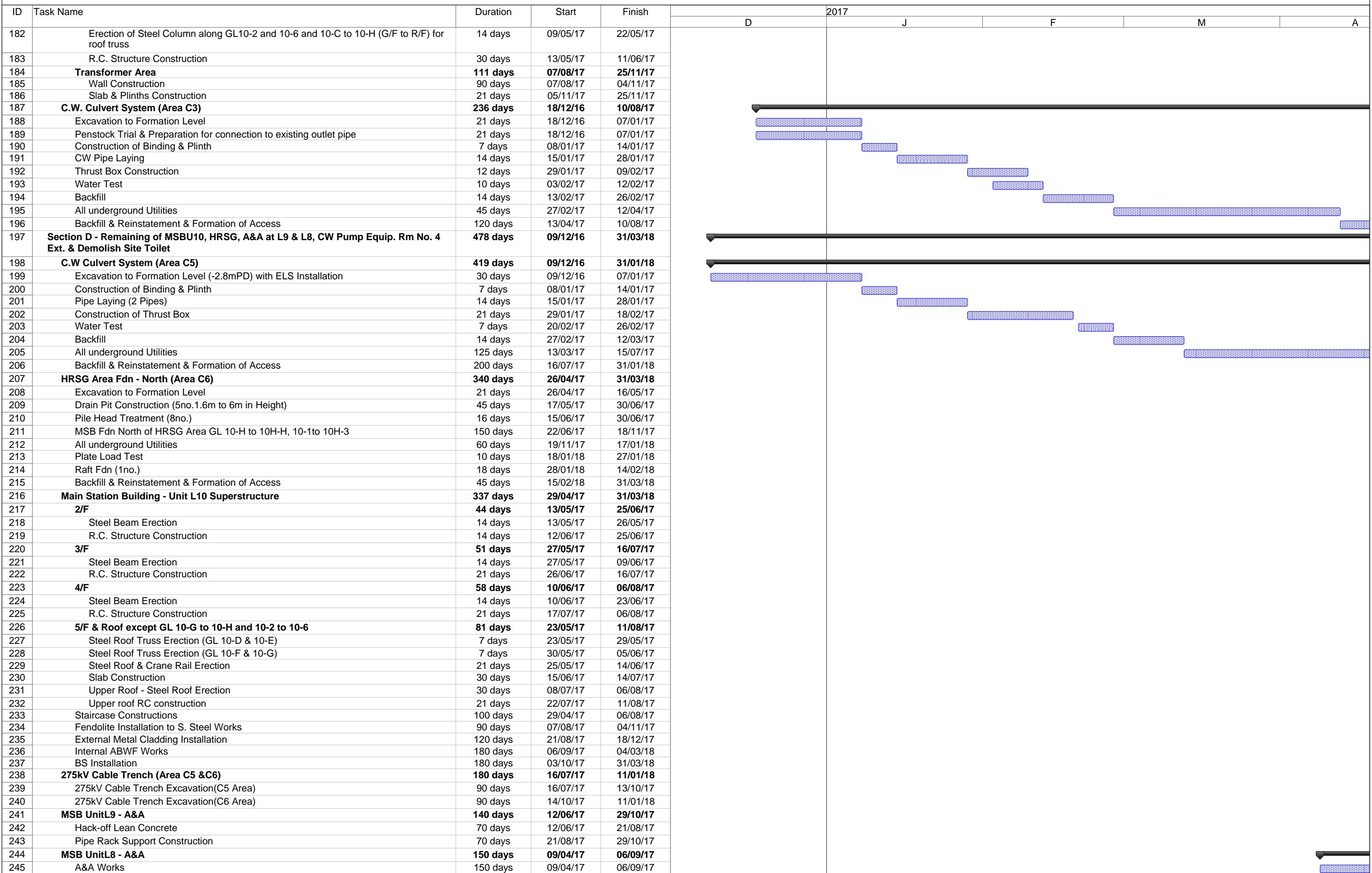
Contract No. 16/8002 Lamma Power Station Extension Civil and Building Unit L10



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



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



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

ID	Task Name	Duration	Start	Finish	2017				
					D	J	F	M	A
246	<b>C.W. Pump Equipment Room</b>	<b>364 days</b>	<b>01/04/17</b>	<b>31/03/18</b>					
247	BA 10 Application	0 days	01/04/17	01/04/17					
248	Excavation to + 4.05mPD	21 days	02/04/17	22/04/17					
249	Plate Load Test	14 days	23/04/17	06/05/17					
250	Raft Foundation Construction	18 days	07/05/17	24/05/17					
251	Underground Drainage	21 days	25/05/17	14/06/17					
252	Backfill	10 days	15/06/17	24/06/17					
253	Construct G/F	21 days	25/06/17	15/07/17					
254	Roof Construction	45 days	16/07/17	29/08/17					
255	Parapet Wall	18 days	30/08/17	16/09/17					
256	ABWF Works	75 days	17/09/17	30/11/17					
257	Building Service Installations	75 days	01/12/17	13/02/18					
258	External Pipe Rack Extension & Reinstatement Works	90 days	31/12/17	30/03/18					
259	Ready for BA 13 Application	0 days	31/03/18	31/03/18					
260	<b>Demolition Work - Temporary Site Toilet</b>	<b>60 days</b>	<b>08/07/17</b>	<b>06/09/17</b>					
261	Demolition of Temp. Site Toilet	60 days	08/07/17	06/09/17					
262	<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>					
263	<b>275kV Cable Trench</b>	<b>240 days</b>	<b>16/07/17</b>	<b>12/03/18</b>					
264	275kV Cable Trench Re-excavation (~172m)	240 days	16/07/17	12/03/18					
265	<b>C.W. Culvert System (Area C9a &amp; C15)</b>	<b>336 days</b>	<b>15/06/17</b>	<b>16/05/18</b>					
266	Removal of existing paving block	12 days	15/06/17	26/06/17					
267	Install ELS & Excavation, Phase 1	45 days	27/06/17	10/08/17					
268	Blinding & Construct Plinth	30 days	11/08/17	09/09/17					
269	Pipe Laying & Thrust Box	30 days	10/09/17	09/10/17					
270	Water Test and Backfill	12 days	10/10/17	21/10/17					
271	Underground UU and Reinstatement	45 days	22/10/17	05/12/17					
272	Install ELS & Excavation, Phase 2	45 days	06/12/17	19/01/18					
273	Blinding & Concrete Plinth	30 days	20/01/18	18/02/18					
274	Pipe Laying and Thrust Box	30 days	19/02/18	20/03/18					
275	Water Test & Backfill	12 days	21/03/18	01/04/18					
276	Underground UU and Reinstatement	45 days	02/04/18	16/05/18					
277	<b>Section F -Urea Storage &amp; Handling Facilties</b>	<b>488 days</b>	<b>01/05/17</b>	<b>31/08/18</b>					
278	<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>					
279	BA 10 Application	10 days	01/05/17	10/05/17					
280	Excavation to Formation Level	14 days	11/05/17	24/05/17					
281	Plate Load Test	14 days	25/05/17	07/06/17					
282	Raft Foundation (Urea Handng Rm)	21 days	08/06/17	28/06/17					
283	Raft Foundation (Electrical Rm)	30 days	29/06/17	28/07/17					
284	Backfill	21 days	29/07/17	18/08/17					
285	Construct G/F	45 days	19/08/17	02/10/17					
286	Roof Construction	75 days	03/10/17	16/12/17					
287	Parapet Wall	21 days	17/12/17	06/01/18					
288	ABWF Works	120 days	07/01/18	06/05/18					
289	Building Service Installations	120 days	04/05/18	31/08/18					
290	Ready for BA 13 Application	0 days	31/08/18	31/08/18					
291	Plate Load Test	14 days	25/05/17	07/06/17					
292	Pipe Rack Foundation	28 days	08/06/17	05/07/17					
293	Supporting Tower (4 no.) (9.55m in Height)	60 days	06/07/17	03/09/17					
294	Pipe Rack Truss (3 no.) 17.3m Span	60 days	04/09/17	02/11/17					
295	<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>					
296	<b>C.W Culvert System (Area C9b)</b>	<b>272 days</b>	<b>01/01/18</b>	<b>30/09/18</b>					
297	Design, Approval & Consent	0 days	01/01/18	01/01/18					
298	Removal of paving block & ELS Installation	30 days	02/01/18	31/01/18					
299	Excavation to Formation Level with ELS Installation	45 days	01/02/18	17/03/18					
300	Construction of Blinding & Plinth	14 days	18/03/18	31/03/18					
301	Pipe Laying (2 pipes x ~45m)	30 days	01/04/18	30/04/18					
302	Construction of Thrust Box	14 days	01/05/18	14/05/18					
303	Water Test	8 days	15/05/18	22/05/18					
304	Backfill	21 days	23/05/18	12/06/18					
305	All underground Utilities	50 days	13/06/18	01/08/18					
306	Backfill & Reinstatement & Formation of Access	60 days	02/08/18	30/09/18					
307	<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>					
308	No. 3 C.W. Outfall Modification	90 days	01/01/18	01/04/18					
309	No. 4 C.W. Intake Modification	122 days	01/03/18	30/06/18					

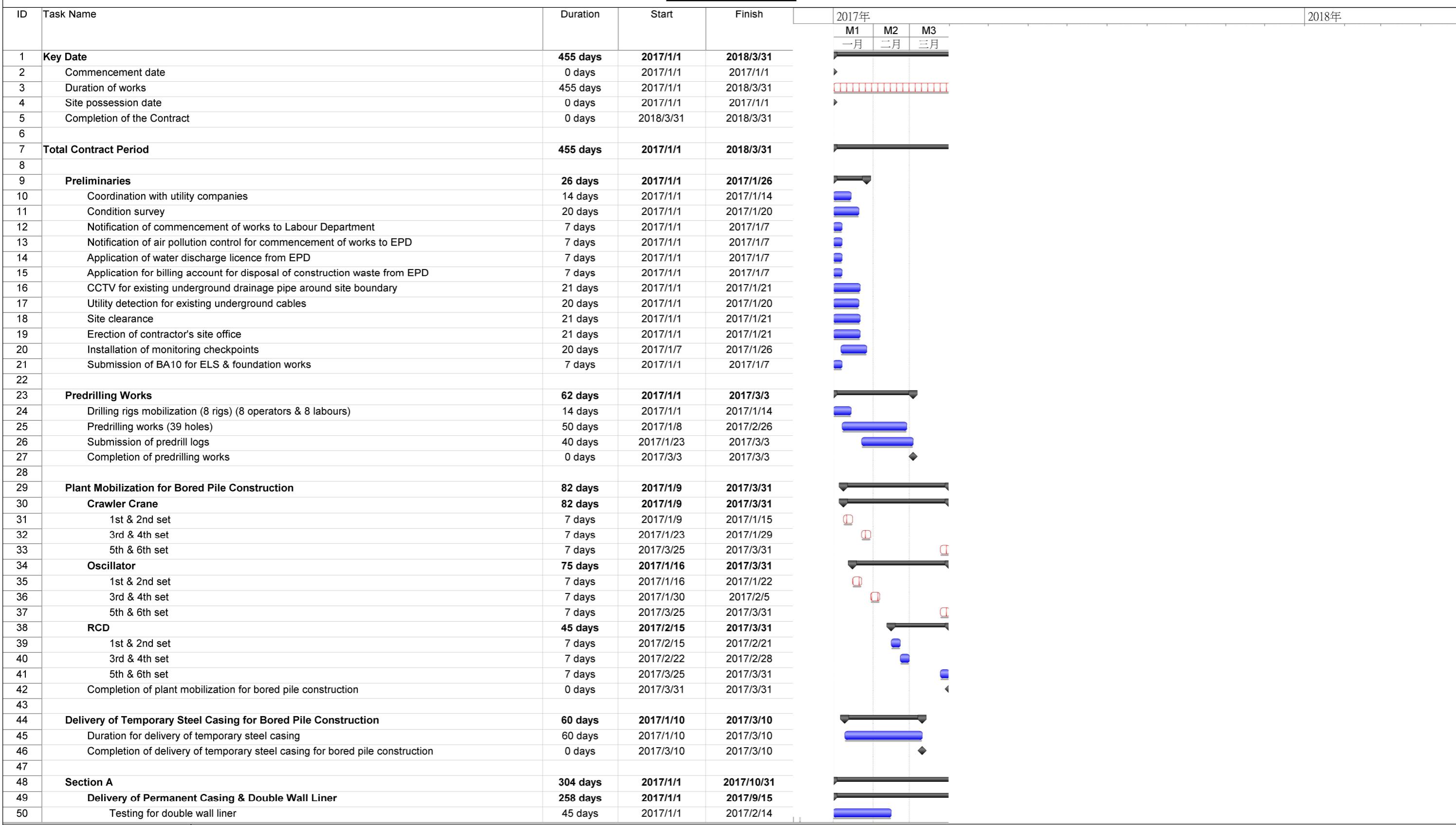
Contract No. 16/8002 Lamma Power Station Extension Civil and Building Unit L10

ID	Task Name	Duration	Start	Finish	2017				
					D	J	F	M	A
310	<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>					
311	<b>GRS Support Foundation</b>	<b>405 days</b>	<b>01/11/16</b>	<b>10/12/17</b>					
312	Temporary Protection, advance work etc	45 days	01/11/16	15/12/16					
313	Gas Pipe Footing	180 days	16/12/16	13/06/17					
314	Gas Pipe Trench	180 days	14/06/17	10/12/17					
315	<b>Section H2 - GRS Improvement work at Area C10</b>	<b>441 days</b>	<b>01/09/17</b>	<b>15/11/18</b>					
316	<b>GRS Area Improvement Works</b>	<b>441 days</b>	<b>01/09/17</b>	<b>15/11/18</b>					
317	Retaining Wall Construction	90 days	01/09/17	29/11/17					
318	Removal of Surcharge and Backfill	45 days	30/11/17	13/01/18					
319	Footing Construction	240 days	14/01/18	10/09/18					
320	Topping up, finish and Misc. Works	66 days	11/09/18	15/11/18					
321	<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>					
322	<b>No.4 Chimney Steel Flue</b>	<b>318 days</b>	<b>01/01/18</b>	<b>15/11/18</b>					
323	Consent, documentation and site preparation	0 days	01/01/18	01/01/18					
324	Steel Flue Preparation & installation	150 days	02/01/18	31/05/18					
325	Install Steel Cover at Windshield	45 days	01/06/18	15/07/18					
326	Install Steel Cover at Roof	30 days	16/07/18	14/08/18					
327	Modification & Reinstatement Works	55 days	15/08/18	08/10/18					
328	E & M Installation	38 days	09/10/18	15/11/18					
329	MSB Unit 9 Pipe Rack Construction	90 days	01/04/18	29/06/18					
330	<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>					
331	<b>Link Bridge</b>	<b>455 days</b>	<b>01/01/18</b>	<b>31/03/19</b>					
332	Design & Shop Drawings	90 days	01/01/18	31/03/18					
333	Access	0 days	17/11/18	17/11/18					
334	Site preparation	14 days	18/11/18	01/12/18					
335	Link Bridge between Unit L9 & L10	120 days	02/12/18	31/03/19					
336	<b>Section I2 - Shunt Reactor SR4 Foundation</b>	<b>90 days</b>	<b>01/01/19</b>	<b>31/03/19</b>					
337	<b>Shunt Reactor Compound SR4</b>	<b>90 days</b>	<b>01/01/19</b>	<b>31/03/19</b>					
338	Modification Work at Shunt Reactor SR4	90 days	01/01/19	31/03/19					
339	<b>Section I3 - All remaining work except deferred works</b>	<b>417 days</b>	<b>08/02/18</b>	<b>31/03/19</b>					
340	<b>Remaining Works</b>	<b>417 days</b>	<b>08/02/18</b>	<b>31/03/19</b>					
341	Demolition of Canopy @ Jetty Guard Hose & Toilet)	30 days	02/08/18	31/08/18					
342	Demolition of Existing Contractor Shed	60 days	01/09/18	30/10/18					
343	Security Fence Erection	20 days	31/10/18	19/11/18					
344	All External Works & Road Works	417 days	08/02/18	31/03/19					
345	<b>Deferred Works - L10 MSB and HRSG</b>	<b>417 days</b>	<b>08/02/18</b>	<b>31/03/19</b>					
346	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					
347	Construction of Walls and Ceilings of Lube Oil Tank Room at L10 MSB	92 days	01/05/18	31/07/18					
348	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					
349	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					
350	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					
351	Removal of Temporary Paving Within L10 HRSG Area to Expose all respective Equipment Foundations	14 days	01/08/18	14/08/18					
352	Construction of Foundation Plinths and Walls of Lube Oil Storage Tank	93 days	15/08/18	15/11/18					
353	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					
354	<b>Deferred Works - External Works</b>	<b>151 days</b>	<b>01/11/18</b>	<b>31/03/19</b>					
355	Final Reinstatement of Access Roads and Pavement Surrounding and within L10 MSB a	151 days	01/11/18	31/03/19					
356	<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>					
357	<b>275kV Cable Diversion</b>	<b>1127 days</b>	<b>01/05/17</b>	<b>31/05/20</b>					
358	<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>					
359	Tentative Commencement Date Of Civil Works	0 days	01/05/17	01/05/17					
360	Implementation of TTA	7 days	01/05/17	07/05/17					
361	Remove the Concrete Road Cover	60 days	08/05/17	06/07/17					

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

ID	Task Name	Duration	Start	Finish	2017				
					D	J	F	M	A
362	Cable Trench Re-excavation	208 days	07/06/17	31/12/17					
363	Completion Date of Trench Excavation for Site Handover	0 days	31/12/17	31/12/17					
364	Tentative Period for Backfilling and Road Reinstatement (Excluding Joint Bay and Trench at Station Road)	91 days	01/04/18	30/06/18					
365	<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>					
366	Tentative Commencement Date Of Civil Works	0 days	01/11/17	01/11/17					
367	Implementation of TTA	7 days	01/11/17	07/11/17					
368	Remove the Concrete Road Cover	32 days	08/11/17	09/12/17					
369	Trench Excavation and Installation of Road Decking at Joint Bay (Including Part I & II)	90 days	25/11/17	22/02/18					
370	Cable Trench Re-excavation	190 days	23/02/18	31/08/18					
371	Completion Date of Trench Excavation for Site Handover	0 days	31/08/18	31/08/18					
372	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					
373	<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>					
374	Tentative Commencement Date Of Civil Works	0 days	01/07/18	01/07/18					
375	Implementation of TTA	7 days	01/07/18	07/07/18					
376	Remove the Concrete Road Cover	30 days	08/07/18	06/08/18					
377	Cable Trench Excavation with shoring	270 days	07/08/18	03/05/19					
378	Construction of New Joint Bay	28 days	04/05/19	31/05/19					
379	Completion Date of Trench Excavation for Site Handover	0 days	31/05/19	31/05/19					
380	Tentative Period for Backfilling and Road Reinstatement (excluding new slab but including SJ3)	91 days	01/09/19	30/11/19					
381	<b>Part IV (Hand Dig Tunnel)</b>	<b>701 days</b>	<b>01/07/18</b>	<b>31/05/20</b>					
382	Tentative Commencement Date Of Civil Works	0 days	01/07/18	01/07/18					
383	Excavation to Approx. +5mPD	30 days	01/07/18	30/07/18					
384	Existing Drainage Diversion	50 days	31/07/18	18/09/18					
385	Construction of New Cable Joint Bay	30 days	19/09/18	18/10/18					
386	Ramp Trench	75 days	19/10/18	01/01/19					
387	Formation of Temp. Cable Pit	45 days	02/01/19	15/02/19					
388	Hand Dig Tunel (17.6m) (0.2~0.3m/day)	75 days	16/02/19	01/05/19					
389	Excavation for Duct Bank Construction	60 days	02/05/19	30/06/19					
390	Completion Date of Trench Excavation for Site Handover	0 days	30/06/19	30/06/19					
391	<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>					
392	Formation of Wall Opening between existing trench CPX1 and new Joint Bay	7 days	01/09/19	07/09/19					
393	Breaking up for Road Paving and Excavation down to Cable Tiles of Existing Trench CPX2	31 days	01/12/19	31/12/19					
394	Demolition of Existing Trench CPX1 and CPX2	30 days	01/04/20	30/04/20					
395	Final Reinstatement of the CPX1 and CPX2 Areas	31 days	01/05/20	31/05/20					
396	<b>Deferred Works - Shunt Reactor Compound SR4 (during DLP)</b>	<b>153 days</b>	<b>01/07/19</b>	<b>30/11/19</b>					
397	Trench Re-excavation and Cable Supports Installation for Shunt Reactor Compound SR4	62 days	01/07/19	31/08/19					
398	Backfilling and Road Re-instatement of Shunt Reactor SR4 and Associated Trench	30 days	01/11/19	30/11/19					

SUNLEY ENGINEERING &amp; CONSTRUCTION CO., LTD.

Contract No. 16/8015 - Lamma Power Station Extension Foundation Works for Unit L11Master ProgrammeMaster Programme  
MP-01 (6 Dec 16)

Task



Critical Task

Milestone

Summary

SUNLEY ENGINEERING &amp; CONSTRUCTION CO., LTD.

Contract No. 16/8015 - Lamma Power Station Extension Foundation Works for Unit L11Master Programme

ID	Task Name	Duration	Start	Finish	2017年			2018年
					M1	M2	M3	
51	Duration for delivery of permanent casing & double wall liner	200 days	2017/2/28	2017/9/15				
52	Bored Pile Construction (22 piles)	275 days	2017/1/30	2017/10/31				
53	1st set - G2 > BP1 > BP9 > G1 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	180 days	2017/1/30	2017/7/28				
54	G2	45 days	2017/1/30	2017/3/15				
55	BP1	45 days	2017/3/16	2017/4/29				
56	BP9	45 days	2017/4/30	2017/6/13				
57	G1	45 days	2017/6/14	2017/7/28				
58	2nd set - BP5 > G6 > BP13 > G4 > G3 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	225 days	2017/2/2	2017/9/14				
59	BP5	45 days	2017/2/2	2017/3/18				
60	G6	45 days	2017/3/19	2017/5/2				
61	BP13	45 days	2017/5/3	2017/6/16				
62	G4	45 days	2017/6/17	2017/7/31				
63	G3	45 days	2017/8/1	2017/9/14				
64	3rd set - G10 > BP17 > G8 > G5 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	180 days	2017/2/11	2017/8/9				
65	G10	45 days	2017/2/11	2017/3/27				
66	BP17	45 days	2017/3/28	2017/5/11				
67	G8	45 days	2017/5/12	2017/6/25				
68	G5	45 days	2017/6/26	2017/8/9				
69	4th set - G7 > BP26 > G9 > BP20 > BP23 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	225 days	2017/2/18	2017/9/30				
70	G7	45 days	2017/2/18	2017/4/3				
71	BP26	45 days	2017/4/4	2017/5/18				
72	G9	45 days	2017/5/19	2017/7/2				
73	BP20	45 days	2017/7/3	2017/8/16				
74	BP23	45 days	2017/8/17	2017/9/30				
75	5th set - BP4 > BP8 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	90 days	2017/6/30	2017/9/27				
76	BP4	45 days	2017/6/30	2017/8/13				
77	BP8	45 days	2017/8/14	2017/9/27				
78	6th set - BP12 > BP16 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	90 days	2017/7/2	2017/9/29				
79	BP12	45 days	2017/7/2	2017/8/15				
80	BP16	45 days	2017/8/16	2017/9/29				
81	Interface & sonic test	30 days	2017/9/8	2017/10/7				
82	Prepare & submit as-built record plan	7 days	2017/10/1	2017/10/7				
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	118 days	2017/1/1	2017/4/28				
88	Plant mobilization (1 rig) (1 operator, 4 riggers & 4 welders)	7 days	2017/3/25	2017/3/31				
89	Delivery of sheet pile material	90 days	2017/1/1	2017/3/31				
90	Installation of sheet pile - Type B (approx. 80 piles)	20 days	2017/4/1	2017/4/20				
91	Prepare & submit as-built record plan	7 days	2017/4/21	2017/4/27				
92	Submission of BA14	1 day	2017/4/28	2017/4/28				
93	Completion of sheet pile	0 days	2017/4/28	2017/4/28				
94	Completion of section A	0 days	2017/10/31	2017/10/31				

Master Programme  
MP-01 (6 Dec 16)

Task



Critical Task

Milestone

Summary

SUNLEY ENGINEERING &amp; CONSTRUCTION CO., LTD.

Contract No. 16/8015 - Lamma Power Station Extension Foundation Works for Unit L11Master Programme

ID	Task Name	Duration	Start	Finish	2017年	2018年	
					M1 一月	M2 二月	M3 三月
95							
96	<b>Section B</b>						
97	Delivery of Permanent Casing & Double Wall Liner	455 days	2017/1/1	2018/3/31			
98	Testing for double wall liner	375 days	2017/1/1	2018/1/10			
99	Duration for delivery of permanent casing & double wall liner	45 days	2017/1/1	2017/2/14			
100	Bored Pile Construction (16 piles)	290 days	2017/3/27	2018/1/10			
101	1st set - BP21 > BP22 > BP18 > BP19 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	363 days	2017/4/3	2018/3/31			
102	BP21	180 days	2017/7/31	2018/1/26			
103	BP22	45 days	2017/9/13				
104	BP18	45 days	2017/10/14				
105	BP19	45 days	2017/12/29				
106	3rd set - BP27 > BP28 > BP25 > BP24 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	180 days	2017/8/10	2018/2/5			
107	BP27	45 days	2017/8/10	2017/9/23			
108	BP28	45 days	2017/9/24	2017/11/7			
109	BP25	45 days	2017/11/8	2017/12/22			
110	BP24	45 days	2017/12/23	2018/2/5			
111	5th set - BP3 > BP6 > BP29 > BP10 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	270 days	2017/5/16	2018/2/9			
112	BP3	45 days	2017/5/16	2017/6/29			
113	BP6	45 days	2017/9/28	2017/11/11			
114	BP29	45 days	2017/11/12	2017/12/26			
115	BP10	45 days	2017/12/27	2018/2/9			
116	6th set - BP7 > BP11 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	270 days	2017/4/3	2017/12/28			
117	BP7	45 days	2017/4/3	2017/5/17			
118	BP11	45 days	2017/5/18	2017/7/1			
119	BP14	45 days	2017/9/30	2017/11/13			
120	BP15	45 days	2017/11/14	2017/12/28			
121	Interface & sonic test	30 days	2018/1/29	2018/2/27			
122	Prepare & submit as-built record plan	7 days	2018/2/28	2018/3/6			
123	Submission of BA14	1 day	2018/3/7	2018/3/7			
124	Allow 14 days for selection of pile for concrete full core test	14 days	2018/3/8	2018/3/21			
125	Concrete full core test	10 days	2018/3/22	2018/3/31			
126	Completion of bored pile construction	0 days	2018/3/31	2018/3/31			
127	<b>Sheet Pile</b>	239 days	2017/1/1	2017/8/27			
128	Delivery of sheet pile material	90 days	2017/1/1	2017/3/31			
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	2017/4/21	2017/6/4			
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	2017/6/5	2017/8/19			
131	Prepare & submit as-built record plan	7 days	2017/8/20	2017/8/26			
132	Submission of BA14	1 day	2017/8/27	2017/8/27			
133	Completion of sheet pile	0 days	2017/8/27	2017/8/27			
134	Completion of section B	0 days	2018/3/31	2018/3/31			
135							
136	Contract completion	0 days	2018/3/31	2018/3/31			

Master Programme  
MP-01 (6 Dec 16)

Task



Critical Task



Milestone



Summary

