

16/8002 Outstanding Work Programme

16-8002 OS Work Prog (25May19).mpp

25/05/19

ID	Task Name	Duration	Start	Finish	Predecessors	Half 2, 2019		
						Aug '19	Sep '19	Oct '19
1	<b>16/8002 Unit 10 Outstanding Work Programme</b>	<b>354 days?</b>	<b>01/12/18</b>	<b>29/11/19</b>				
2	<b>Unit 10 MSB &amp; HRSG</b>	<b>354 days?</b>	<b>01/12/18</b>	<b>29/11/19</b>				
3	<b>Superstructure</b>	<b>202 days</b>	<b>01/12/18</b>	<b>30/06/19</b>				
101	<b>External Works</b>	<b>324 days?</b>	<b>01/12/18</b>	<b>30/10/19</b>				
102	EVA North MSB	207 days?	01/12/18	05/07/19				
103	Dia 900 Storm Drain (fr east to west) & FS PFH Pipe	0 days	30/03/19	30/03/19				
104	TDK remove air filter inlet scaffold	0 days	08/04/19	08/04/19				
105	Remain Dia900 storm drain to MH204	28 days	08/04/19	05/05/19	104			
106	Access and Complete east rc wall	12 days	30/04/19	11/05/19	105FF+6 days			
107	Access to TDK for transport steam blow pipes fr Gate 39	30 days	06/05/19	04/06/19	105			
108	Dia 400 Storm Drain at G.L. G~H	6 days	20/05/19	25/05/19	107SS+14 days			
109	Road gully to storm manhole (east)	5 days	31/05/19	04/06/19	108FS+5 days			
110	FS Hydrant FH3	4 days	02/06/19	05/06/19	109SS+2 days			
111	Conduits for streetlight and fs signal (east)	10 days	02/06/19	11/06/19	109SS+2 days			
112	Road base (East)	5 days	12/06/19	16/06/19	111			
113	Remaing FS OFH Pipe + concrete box (west)	14 days	05/06/19	18/06/19	106,107			
114	Cantilver beam & slab for drainage manhole	12 days	20/05/19	31/05/19	108SS			
115	Backfill for TDK steambow piping set up	1 day	01/06/19	01/06/19	114			
116	TDK SteamBlow Set up	7 days	02/06/19	08/06/19	115			
117	Sewage Drain SM207C to SM207B	6 days	09/06/19	14/06/19	116			
118	OTG & MH204A1 & associated pipes	6 days	09/06/19	14/06/19	117FF			
119	Road gully to storm manhole (west)	3 days	15/06/19	17/06/19	118			
120	Conduits for streetlight and fs signal (to Station Rd)	3 days	18/06/19	20/06/19	119			
121	Road base	5 days	21/06/19	25/06/19	120			
122	FS OFH pipe & plinth & valve from FH1 to West of Tx Bay	12 days	17/06/19	28/06/19	112			
123	Sewage Drain + Pump Pit	7 days	29/06/19	05/07/19	122			
124	<New Task>	1 day?	01/12/18	01/12/18				
125	<New Task>	1 day?	01/12/18	01/12/18				
126	EVA West MSB	78 days	02/05/19	18/07/19	102SS+30 days			
127	Dia 900 Storm Drain to MH203	14 days	02/05/19	15/05/19	105FF+10 days			
128	Manhole MS213b & associated drain pipes	7 days	09/05/19	15/05/19	127FF			
129	FS OFH Pipe + concrete box	14 days	16/05/19	29/05/19	128			
130	Sewage drain pump pit to SM206a	12 days	19/05/19	30/05/19	129SS+3 days			
131	TDK Site crane at West of SunShade	14 days	31/05/19	13/06/19	130			
132	Dia 1200 pipe connect to MH202	7 days	31/05/19	06/06/19	130			
133	New Cable trenches	18 days	01/06/19	18/06/19	131SS+1 day			
134	Road gully to storm manhole	7 days	19/06/19	25/06/19	133			
135	Conduits for streetlight and fs signal	10 days	14/06/19	23/06/19	130,131			
136	Road kerb	7 days	24/06/19	30/06/19	133,135			
137	Road base + Paving	18 days	01/07/19	18/07/19	136			
138	EVA South MSB	64 days	09/05/19	11/07/19				
139	Dia 450 & 600 Storm Drain MH214-217A	14 days	09/05/19	22/05/19	105FS+3 days			
140	Sewage SM208E to pump pit	14 days	23/05/19	05/06/19	139			
141	Portable & Flushing along MSB south wall	14 days	09/05/19	22/05/19	139FF			
142	FS OFH Pipe + concrete box	18 days	23/05/19	09/06/19	139			
143	Road gully to storm manhole	7 days	10/06/19	16/06/19	142			
144	Conduits for streetlight and fs signal	14 days	10/06/19	23/06/19	143FF+7 days			
145	Road base + Paving	18 days	24/06/19	11/07/19	144			
146	EVA North HRSG	62 days	15/07/19	14/09/19				
147	Area Return from TDK	0 days	15/07/19	15/07/19				
148	Road gully to storm manhole	12 days	15/07/19	26/07/19	147			
149	Conduits for steetlight and fs signal	18 days	27/07/19	13/08/19	148			
150	Drainage U-channel relocation	14 days	14/08/19	27/08/19	149			
151	Road base + Paving	18 days	28/08/19	14/09/19	150,149			
152	EVA East HRSG	139 days	15/04/19	31/08/19				
153	Completed Sheetpile work for L11 Gas Duct	0 days	15/04/19	15/04/19				
154	Dia 750 Storm Drain up to MH210	30 days	15/04/19	14/05/19	153			
155	FS OFH Pipe + concrete box	14 days	15/05/19	28/05/19	154			
156	Return to TDK crane sitting	0 days	28/05/19	28/05/19	155			
157	Storm drain from MH210 to MH211	7 days	15/05/19	21/05/19	154			
158	Formation of Bund wall for Lube Oil Tank	2 days	22/05/19	23/05/19	157			
159	Bund wall construction	10 days	24/05/19	02/06/19	158			
160	Formation of Lube Oil Tank fdn	1 day	03/06/19	03/06/19	159			
161	Lube Oil Tank Fdn construction	12 days	04/06/19	15/06/19	160			
162	TDK return area	0 days	15/07/19	15/07/19				
163	New surface drain u channel	12 days	15/07/19	26/07/19	162			

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Critical Split ..... Task

Split

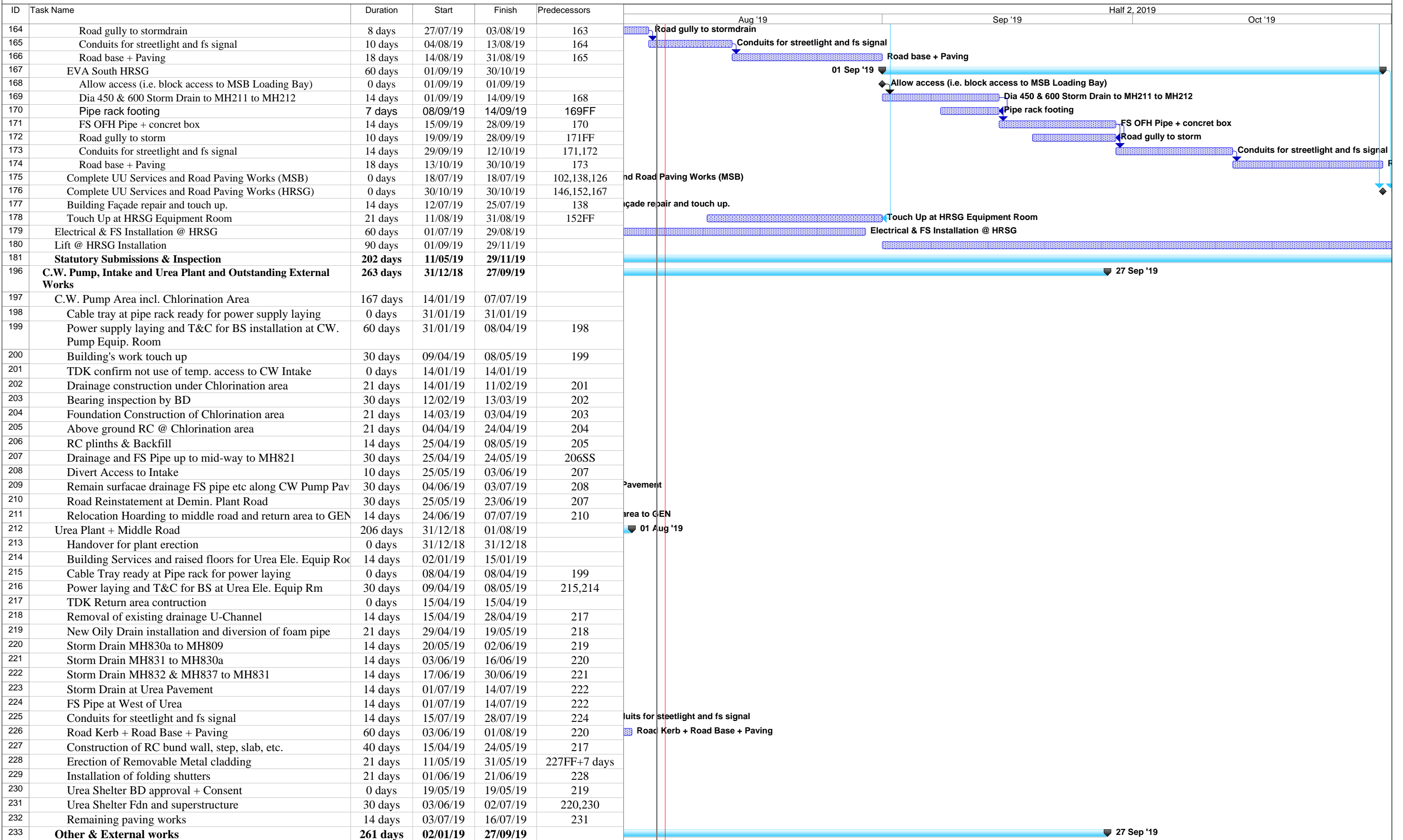
Milestone ◆

Summary

16/8002 Outstanding Work Programme

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25/05/19



SCHEDULE C. Contract No. 16/2209  
 Lamma Power Station Extension - Unit 10  
 Complete Erection, Inspection, Testing &  
 Commissioning of Power Block Facilities

Appendix J  
**FOR  
 INFO**

No.	Description	2019		
		Aug	Sep	Oct
	<b>Erection Key Date</b>			
<b>A</b>	<b>HRSG PORTION</b>			
A-01	Install Casing (Bottom/Side/Top) with Structure			
A-02	Upper/Lower Connection Pipe			
A-03	Module Install (Bundle Tube Block)			
A-04	Down Commer Pipe			
A-05	Drum Lifting / HDR Level Adjustment			
A-06	Critical Piping/connecting piping (Main Steam, Aux, R/H, HP/LP Feed Water)			
A-07	Other piping			
A-08	Access Platform / Hand Rail			
A-09	Inside Baffle Plate & Seismic Tie Adjust / Setting			
A-10	SCR System			

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A-11	Inlet Duct Structure / Include Pipe Rack (U9-U10 Connection)			
A-12	Inlet Duct			
A-13	Exhaust Duct Structure			
A-14	Exhaust Duct			
A-15	Aux Equip(B/D Tank, HP/IP Feed Water Pump, LP Eco Recirculation Pump, etc.) HP/IP Feed Water Pump Reserve feed water Tank			
A-16	Insulation			
A-17	Painting			
A-18	Install Catalyst			
A-19	Steam Blowing out(other scope) & alkaline boiling out			

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No.	Description	2019		
		Aug	Sep	Oct
	<b>Erection Key Date</b>			
	Installation of Temporary piping, Support & Silencer Execution of Steam blowing out Dismantle of Temporary piping, Support & Silencer Execution of Steam boiling out			
<b>B</b>	<b>GT/ST/GEN PORTION</b>			
B-1	Turbine O/H Crane			
B-2	Condenser			
B-3	Install ST	Lu	Install	Final

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		Aug	Sep	Oct
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B-4	Install GEN			
B-5	Install GT			

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No.	Description	2019		
		Aug	Sep	Oct
	<b>Erection Key Date</b>			
B-6	Aux Equipment			
B-7	Insulation			
B-8	Painting			
B-9	Switchgear/Hoist/Hoist for condenser			

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		Aug	Sep	Oct
	<b>Erection Key Date</b>			
<b>C</b>	<b>ERECTION &amp; INSTRUMENTATION PORTION</b>			
C-1	Transformer & Ancillaries (G Tx, U Tx, Ex Tx, SFC Tx)			
C-2	<b>EQUIPMENT INSTALLATION</b>			
	Generator & Ancillaries			
	Isolated Phase Busducts			
	Switchgear and Accessories			
	UPS, Batterys, Battery Charger System & DBs			
	Electrical Panels & Local Control Panels			
	Control Systems, Control Panels, Local Instrument Cubicle & Rack			
	Channel Base Installation			
C-3	<b>CABLING SYSTEM INSTALLATION</b>			
	Cable Ladder / Tray Installation			
	Conduit Pipe Installation			
	Earthing Installation			
	Cable Laying & Termination			
	Fire Resistant Sealing			
	Cable Trench Opening & Transportation			



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No.	Description	2019		
		Aug	Sep	Oct
	<b>Erection Key Date</b>			
C-4	INSTRUMENTS, INSTR. PIPINGS & AIR TUBE			
	Local Instruments, Piping & Tubing			
	Instrument Calibration			
C-5	OTHER WORK			
	275kV Shunt Reactor Relocation	●—————●		
	Turbine Overhead Crane, Hoist, Battery Power Supply			
	Existing CWP etc.			
	BOP & Other Works			
	Site Cleaning			
C-6	TESTING & COMMISSIONING			
	Testing & Commissioning			
	Commissioning Assistant	●—————●		

ID	Task Name	Duration	Start	Finish	Half 2, 2019		
					Aug 2019	Sep 2019	Oct 2019
1	<b>Civil and Building Works for Unit 11 and Associated Works</b>	<b>1197 days</b>	<b>01/06/18</b>	<b>30/09/21</b>			
2	<b>Contract Key Dates</b>	<b>1197 days</b>	<b>01/06/18</b>	<b>30/09/21</b>			
3	Contract Commencement Date	0 days	01/06/18	01/06/18			
4	<b>Completion Dates</b>	<b>1044 days</b>	<b>31/10/18</b>	<b>30/09/21</b>			
5	Section A1 - Ground treatment installation works at Zone 1A	0 days	31/10/18	31/10/18			
6	Section A2 - Ground treatment installation works at Zone 1B	0 days	31/10/18	31/10/18			
7	Section A3 - Ground treatment installation works at Zone 2	0 days	17/03/19	17/03/19			
8	Section A4 - Ground treatment installation works at Zone 3	0 days	21/03/19	21/03/19			
9	Section A5 (i) - Ground treatment installation works at Zone 4 - Band drain installation	0 days	28/03/19	28/03/19			
10	Section A5 (ii) - Ground treatment installation works at Zone 4 - Surcharge filling	0 days	30/09/20	30/09/20			
11	Section A6 (i) - A&A Works for No. 4 C.W. Outfall at Area E18	0 days	28/03/20	28/03/20			
12	Section A6 (ii) - External works at Area E15	0 days	15/02/20	15/02/20			
13	Section B1 (i) - Area south of L11 MSB and HRSG from GL11-F eastwards leading to Chimney Road at Area E1 & E2	0 days	01/03/20	01/03/20			
14	Section B1 (ii) - Supporting structures for overhead cranes of L11 MSB including the associated roof structure except the roof deferred works	0 days	17/03/20	17/03/20			
15	Section B1 (iii) - FSRU Civil works at Area E13	0 days	31/05/21	31/05/21			
16	Section B2 - Retractable Cover D at Area E22	0 days	31/03/20	31/03/20			
17	Section B3 - External works at Area B1, D2 and D4	0 days	30/04/20	30/04/20			
18	Section C1 - Area south of L11 MSB from GL11-F westwards leading to Station Road at Area E3(A) & E3(B)	0 days	01/03/20	01/03/20			
19	Section C2 - (i) Southern part of L11 HRSG area and its surrounding at Area E7 except the deferred works for Lube Oil Storage Tank	0 days	01/12/19	01/12/19			
20	Section C2 - (ii) L11 Turbo Block foundation including the L11 MSB ground floor together with the equipment foundations between GL 11-F to 11-H and 11-1 to 11-6 for the installation of power generator, air inlet duct and lube oil reservoir	0 days	30/04/20	30/04/20			
21	Section C2 - (iii) G/F of L11 MSB including the Condenser Pit, Circulating Water Pipe Pit and equipment foundations between GL 11-B to 11-C and 11-1 to 11-6 for the installation of condenser	0 days	01/03/20	01/03/20			
22	Section D - (i) Roads and external grounds surrounding L11 MSB and L11 HRSG in addition to the southern & eastern areas mentioned above in Area E5 and E6	0 days	31/12/19	31/12/19			
23	Section D - (ii) Remaining northern part of L11 HRSG area and its surrounding in Area E6	0 days	01/03/20	01/03/20			
24	Section D - (iii) Whole of L11 MSB including the pipe and cable rack along south façade of L11 MSB with all underground utilities at Area E4 including C.W. Inlet and Outlet Culvert except the deferred works	0 days	30/04/20	30/04/20			
25	Section D - (iv) Link Bridge between L10 and L11 MSB and at the south of L11 MSB including their associated alternations & additions (A&A) Works at L10 MSB	0 days	30/04/20	30/04/20			
26	Section D - (v) Gas Duct Foundation, Pipe and Cable Rack and associated trench in Area E20	0 days	01/02/20	01/02/20			
27	Section E1 - (i) Link Bridge and Pipe and Cable Rack connecting L11 MSB to the western area of L11 MSB at Area E3	0 days	28/09/20	28/09/20			
28	Section E1 - (ii) Gas Receiving Station and L11 Gas Receiving Station Equipment Room (GRS) Area Extension at Area E16	0 days	30/06/20	30/06/20			
29	Section E1 - (iii) External Works at Area E15 ( C )	0 days	28/02/21	28/02/21			
30	Section E2 - Pipe and Cable Rack and trench at west of Chimney Road and Pipe and Cable Rack at south of Middle Road at Area E8 and E19	0 days	17/09/20	17/09/20			
31	Section E3 - Gas Pipe Support Foundation and Pipe Trench and associated external works at Area E14, E15 (A) and E15 (B)	0 days	30/06/20	30/06/20			
32	Section E4 - 275kV cable trenching works connecting the 275kV Switching Station Extension and L11 MSB at Area E9 (A)	0 days	15/09/19	15/09/19			
33	Section F - 275kV Station Building Extension and associated works at Area E17	0 days	30/05/20	30/05/20			
34	Section G - A&A Works at No. 4 C.W. Intake at Area E12	0 days	31/05/20	31/05/20			
35	Section H - L11 Steel flue liner at No. 4 Chimney	0 days	15/07/19	15/07/19			

◆ Section E4 - 275kV cable trenching works connecting the 275kV Switching Station

liner at No. 4 Chimney

ID	Task Name	Duration	Start	Finish	Half 2, 2019		
					Aug 2019	Sep 2019	Oct 2019
36	Section I - (i) 275kV cable trenching works connecting the 275kV Switching Station Extension and L11 MSB at Area E9 (B)	0 days	15/05/20	15/05/20			
37	Section I - (ii) Interconnector 2 Trench Modification Works at Area E10	0 days	15/05/20	15/05/20			
38	Section J - (i) Demolition of Retractable Cover A&B & (ii) Foundation of LMX Light Oil Storage Tank Nos. 3 & 4 and A&A for Existing Bund Wall at	0 days	30/04/21	30/04/21			
39	Section K1 - External works at Area 15 ( E ) and 15( F )	0 days	31/05/21	31/05/21			
40	Section K2 - Removal of Southern Bund and External Works at Area D5, D6 and D7	0 days	31/05/21	31/05/21			
41	Section K3 - All remaining works shall be completed for reporting completion to BD and ready for OP inspection	0 days	30/09/21	30/09/21			
42	<b>General &amp; Preliminary</b>	<b>318 days</b>	<b>01/06/18</b>	<b>24/04/19</b>			
43	Set up Temporary Site Office and Utilities	90 days	01/06/18	29/08/18			
44	Permit Applications & Statuary Submissions	120 days	30/08/18	27/12/18			
45	Existing Utilities scanning & Excavation Permit	45 days	13/11/18	27/12/18			
46	Tower Crane erection 2@MSB, 1@ 275	50 days	06/03/19	24/04/19			
47	<b>Submission and Approval</b>	<b>554 days</b>	<b>01/06/18</b>	<b>16/12/19</b>			
48	Method Statement / Temp Work Submission & Approval from HEC for General Works	240 days	01/06/18	26/01/19			
49	BD Approval & Consent (If required)	120 days	01/06/18	28/09/18			
50	BIM Model, CSD & CBWD Submission & Approval from HEC	200 days	29/09/18	26/04/19			
51	Structure Steelwork Connection Design Submission & BD Approval	60 days	29/09/18	27/11/18			
52	Structure Steelwork Shop Drawing & Approval	60 days	13/10/18	11/12/18			
53	Metal Cladding, louvre & windows submission & BD Approval	60 days	28/11/18	26/01/19			
54	Metal Cladding, louvre & windows shop drawing submission	60 days	12/12/18	19/02/19			
55	Order, Off Site Fabrication and Delivery (S. Steel & Cladding & louvres)	180 days	27/10/18	04/05/19			
56	Retractable Cover D BD Submission & Approval	90 days	20/02/19	20/05/19			
57	No. 4 C.W. Outfall A&A BD 1st Submission	90 days	30/08/18	27/11/18			
58	Submission & Approval of Steel Flue Assessment Report and Design Drawings	60 days	30/09/18	28/11/18			
59	Submission and Approval of Steel Flue Design from BD	60 days	30/09/18	28/11/18			
60	Material Fabrication & Delivery for L11 Flue	100 days	15/10/18	22/01/19			
61	Folding Shutters Shop Drawing Submission & Approval	120 days	20/02/19	19/06/19			
62	Fabrication & Delivery of Folding Shutters	150 days	20/06/19	16/11/19			
63	Sewage Pump System Design submission & approval	90 days	22/03/19	19/06/19			
64	Fabrication & Delivery of Sewage Pump	180 days	20/06/19	16/12/19			
65	Other material submission & approval & delivery	300 days	30/08/18	05/07/19			
66	<b>Coordination with the Employer's Specialist Contractors</b>	<b>478 days</b>	<b>20/05/19</b>	<b>19/09/20</b>			
67	Installation of Puddle Pipes at C.W. outlet Culvert	7 days	20/05/19	26/05/19			
68	Installation of Puddle Pipes at C.W. Inlet Culvert	7 days	07/07/19	13/07/19			
69	Template setting at L11 Turbo Block Foundation	60 days	01/01/20	09/03/20			
70	Template setting of holding down bolts at HRSG column base	46 days	23/07/19	06/09/19			
71	I-beam / channel base installation on top of transformer foundations at Transformer Area	30 days	17/04/20	16/05/20			
72	Overhead crane erection at turbine hall using access through a temporary opening at L11 MSB roof between GL11-G to 11-H and 11-2 to 11-6	36 days	01/12/19	07/01/20			
73	Condenser assembly and erection using access through a temporary façade opening at L11 MSB below 1/F along GL 11-6 from GL11-B to 11-C including a clear space below 1/F between GL 11-B to 11-C	127 days	01/03/20	05/07/20			
74	Installation of power train equipment including air inlet duct using access through a temporary façade opening at L11 MSB below 1/F along GL 11-6 from GL11-F to 11-H including a clear space below 1/F of the above area	142 days	01/05/20	19/09/20			
75	Installation of embedded materials such as holding down bolts for equipment foundations - Commencement	30 days	23/06/19	22/07/19			
76	<b>Section A1 &amp; A2 - Ground treatment at Zone 1A &amp; 1B</b>	<b>92 days</b>	<b>01/08/18</b>	<b>31/10/18</b>			
77	Plant establishment for earthworks	7 days	01/08/18	07/08/18			
78	Backfilling and compaction from existing ground +4.5mPD to +5.5mPD	45 days	08/08/18	21/09/18			
79	Delivery of band drain	5 days	29/08/18	02/09/18			
80	Plant establishment for band drain (1st rig)	10 days	03/09/18	12/09/18			
81	Plant establishment for band drain (2nd rig)	7 days	20/09/18	26/09/18			
82	Plant establishment for band drain (3rd rig)	7 days	11/10/18	17/10/18			

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					Aug 2019	Sep 2019	Oct 2019	
83	Vert. Band drain installation (1023 nos. x 44m)	45 days	13/09/18	27/10/18				
84	Deposition of surcharge up to +8.3mPD	45 days	17/09/18	31/10/18				
85	<b>Section A3 - Ground treatment installation works at Zone 2</b>	<b>158 days</b>	<b>01/10/18</b>	<b>17/03/19</b>				
86	Backfilling and compaction from existing ground +4.5mPD to +5.5mPD	30 days	01/10/18	30/10/18				
87	Delivery of band drain	6 days	18/10/18	23/10/18				
88	Vert. Band drain installation (1787 nos. x 44m)	50 days	24/10/18	12/12/18				
89	Deposition of surcharge up to +8.3mPD	60 days	03/12/18	31/01/19				
90	Additional Concrete Blocks + Extra Surcharge	60 days	07/01/19	17/03/19				
91	<b>Section A4 - Ground treatment installation works at Zone 3</b>	<b>131 days</b>	<b>01/11/18</b>	<b>21/03/19</b>				
92	Backfilling and compaction from existing ground +4.5mPD to +5.5mPD	12 days	01/11/18	12/11/18				
93	Vert. Band drain installation	60 days	09/11/18	07/01/19				
94	Deposition of surcharge up to +8.3mPD	45 days	18/12/18	31/01/19				
95	Possession of Part 1 Defer portion at Zone 3	0 days	20/02/19	20/02/19				
96	Vert. Band drain installation	10 days	20/02/19	01/03/19				
97	Possession of Part 2 Defer portion at Zone 3	0 days	01/03/19	01/03/19				
98	Vert. Band drain installation	7 days	01/03/19	07/03/19				
99	Surcharge at deferred portion	14 days	08/03/19	21/03/19				
100	<b>Section A5 (i) - Ground treatment installation works at Zone 4</b>	<b>83 days</b>	<b>26/12/18</b>	<b>28/03/19</b>				
101	Site Preparation for Vertical Band Drain	3 days	01/01/19	03/01/19				
102	Band drain installation	21 days	26/12/18	15/01/19				
103	Possession of Defer portion at Zone 4	0 days	01/03/19	01/03/19				
104	Vert. Band drain installation	28 days	01/03/19	28/03/19				
105	<b>Section A5 (ii) - Surcharge works at Zone 4</b>	<b>30 days</b>	<b>01/09/20</b>	<b>30/09/20</b>				
106	Deposition of surcharge up to +8.3mPD	30 days	01/09/20	30/09/20				
107	<b>Section A6 (i) - A&amp;A Works for No. 4 C.W. Outfall at Area E18</b>	<b>493 days</b>	<b>01/11/18</b>	<b>28/03/20</b>				
108	BD Amendment, resubmission & approval for Jacking Pit	170 days	01/11/18	29/04/19				
109	Consent for Jacking Pit ELS	28 days	20/04/19	17/05/19				
110	Mobilization	0 days	15/12/18	15/12/18				
111	Jacking Pit Sheetpile Installation (incl. Stop work notice + CNY)	60 days	16/12/18	23/02/19				
112	Protective screen and preventive measure for U9 gas pipeline (VO)	28 days	24/02/19	23/03/19				
113	Provision of temp support for U10 gas pipeline (VO) upon RMA allow access	28 days	14/04/19	11/05/19				
114	ELS of jacking pit	30 days	18/05/19	16/06/19				
115	Pipe Jacking set up & ground strengthening	18 days	17/06/19	04/07/19				
116	Pipe Jacking	90 days	10/09/19	08/12/19				
117	Receiving Pit BD Approval	170 days	25/11/18	23/05/19				
118	Consent for Pipe & Sheet pile	28 days	14/05/19	10/06/19				
119	Receiving Pit Pipe & Sheet pile installation	30 days	11/06/19	10/07/19				
120	Consent for Receiving Pit ELS	28 days	04/07/19	31/07/19				
121	ELS of Receiving pit	40 days	01/08/19	09/09/19				
122	Allow modify existing outfall manhole for pipe jacking receiving	18 days	10/09/19	27/09/19				
123	Culvert Pipe Intallation & water test	55 days	09/12/19	12/02/20				
124	Inspection Manhole at Jacking Pit + backfill (Area E3(A))	18 days	13/02/20	01/03/20				
125	Manhole extension at Outfall no. 4 + backfill + Reinstate of Outfall Rd	45 days	13/02/20	28/03/20				
126	Sheetpile for L12 Outlet culvert (Connection to Jacking Pit)	45 days	15/07/19	28/08/19				
127	Consent + ELS for remaining jacking pit	75 days	29/08/19	11/11/19				
128	Outlet Culvert pipe installation + Thrust Box (remaining portion at A1 Area)	45 days	12/11/19	28/12/19				
129	Sheet pile for future extension along GRS	60 days	29/08/19	27/10/19				
130	<b>Section A6 (ii) - External works at Area E15(D)</b>	<b>37 days</b>	<b>01/01/20</b>	<b>15/02/20</b>				
131	Area possession & Clearance	6 days	01/01/20	06/01/20				
132	Road & Surface Works	31 days	07/01/20	15/02/20				
133	<b>Section B1 (i) - Area south of L11 MSB and HRSG from GL11-F eastwards leading to Chimney Road at Area E1 &amp; E2</b>	<b>375 days</b>	<b>31/01/19</b>	<b>01/03/20</b>				
134	Area Possession & Clearance	0 days	31/01/19	31/01/19				
135	Excavation for CW Inlet Culvert (South of L11 HRSG)	21 days	16/04/19	06/05/19				
136	Installation CW Inlet Culvert pipe	30 days	07/05/19	05/06/19				
137	Construction of Thrust Box & Manholes,etc	14 days	06/06/19	19/06/19				
138	Backfill	21 days	20/06/19	10/07/19				
139	Install underground utilities	45 days	30/09/19	13/11/19				
140	Backfill and Temporary paving for Condensor Move in (E1)	14 days	17/02/20	01/03/20				
141	Backfill and Temporary paving for Condensor Move in (others)	30 days	01/02/20	01/03/20				
142	<b>Section B1 (ii) - Supporting structures for overhead cranes of L11 MSB including the associated roof structure except the roof deferred works</b>	<b>482 days</b>	<b>01/11/18</b>	<b>17/03/20</b>				
143	Area possession & Clearance	0 days	01/11/18	01/11/18				
144	Erection of turbine hall roof except defer work	0 days	13/11/19	13/11/19				

ID	Task Name	Duration	Start	Finish	Half 2, 2019			
					Aug 2019	Sep 2019	Oct 2019	
145	Installation of crane griders	21 days	11/11/19	01/12/19				
146	Turbine hall wall claddings	60 days	09/01/20	17/03/20				
147	<b>Section B1 (iii) - FSRU Civil works at Area E13 (GRS)</b>	<b>151 days</b>	<b>01/01/21</b>	<b>31/05/21</b>				
148	Submission and approval for consent to work	0 days	01/01/21	01/01/21				
149	Civil & Building Works	130 days	01/01/21	10/05/21				
150	Ground reinstatement	21 days	11/05/21	31/05/21				
151	<b>Section B2 - Retractable Cover D at Area E22</b>	<b>435 days</b>	<b>01/01/19</b>	<b>31/03/20</b>				
152	Area Possession, Demolition and clearance work	60 days	01/01/19	11/03/19				
153	Revise Structural Form and BD resubmission & approval	150 days	12/03/19	08/08/19				
154	Foundation construction	60 days	09/08/19	07/10/19				
155	Backfill & Ground reinstatement	30 days	08/10/19	06/11/19				
156	Superstructure fabrication & delivery	90 days	09/08/19	06/11/19				
157	Superstructure erection	90 days	07/11/19	15/02/20				
158	E&M Installation and T&C	45 days	16/02/20	31/03/20				
159	<b>Section B3 - External works at Area B1, D2 and D4</b>	<b>416 days</b>	<b>01/03/19</b>	<b>30/04/20</b>				
160	Receive Area from HKE, Area Possession & Clearance	0 days	01/03/19	01/03/19				
161	Removal of existing paving for band drain under Section A5(i)	30 days	01/03/19	30/03/19				
162	Complete Vert. Band drain under Section A5(i)	0 days	28/03/19	28/03/19				
163	Ground preparation for B1, D2 & D4 for handover to Plant contractor	90 days	01/02/20	30/04/20				
164	<b>Section C1 - Area south of L11 MSB from GL11-F westwards leading to Station Road at Area E3(A) &amp; E3(B)</b>	<b>466 days</b>	<b>01/11/18</b>	<b>01/03/20</b>				
165	Area Possession & Clearance	0 days	01/11/18	01/11/18				
166	Excavation for Type C (Area E3A)	21 days	26/03/19	15/04/19				
167	Installation CW Outlet Culvert Pipe connect to Type C1	21 days	16/04/19	06/05/19				
168	Installation CW Inlet Culvert pipe (South of L11 Condensor)	21 days	20/05/19	09/06/19				
169	Construction of Thrust Box	10 days	10/06/19	19/06/19				
170	Construction of Access Manhole	21 days	10/06/19	30/06/19				
171	Backfill	14 days	01/07/19	14/07/19				
172	Construction of Underground drainage and utilities	60 days	07/11/19	07/01/20				
173	Construct Temp Paving for Condenser move in	45 days	08/01/20	01/03/20				
174	<b>Section C2 - (i) Southern part of L11 HRSG area and its surrounding at Area E7 (No Defer Foundations)</b>	<b>295 days</b>	<b>31/01/19</b>	<b>01/12/19</b>				
175	Area Possession & Clearance	0 days	31/01/19	31/01/19				
176	Excavation & Pile Caps & Tie Beams (HRSG South Area E7)	45 days	19/05/19	02/07/19				
177	Construction RC foundations	45 days	09/07/19	22/08/19				
178	Construction RC plinths	30 days	23/08/19	21/09/19				
179	Construction underground utilities	45 days	23/08/19	06/10/19				
180	Backfill & Construction on-grade slabs	35 days	07/10/19	10/11/19				
181	Backfill and Temporary paving	21 days	11/11/19	01/12/19				
182	<b>Section C2 - (ii) L11 Turbo Block foundation including the L11 MSB ground floor together with the equipment foundations between GL 11-F to 11-H and 11-1 to 11-6 for the installation of power generator, air inlet duct and lube oil reservoir</b>	<b>496 days</b>	<b>01/12/18</b>	<b>30/04/20</b>				
183	Area Possession & Clearance	0 days	01/12/18	01/12/18				
184	Excavation & Pile Caps & Tie Beams (MSBL11 - Turbo Block North)	70 days	14/01/19	03/04/19				
185	Excavation & Pile Caps & Tie Beams (MSBL11 - Turbo Block South)	30 days	10/07/19	08/08/19				
186	Backfill and construction turbine block foundations	21 days	09/08/19	29/08/19				
187	Construction of internal drainage	60 days	09/08/19	07/10/19				
188	Construction RC walls incl. G/F rooms	90 days	08/10/19	07/01/20				
189	Construction turbine block columns and upper portion for plant embed installation	21 days	09/09/19	29/09/19				
190	Concrete Turbine upper part foundation & clear falsework	52 days	10/03/20	30/04/20				
191	<b>Section C2 - (iii) G/F of L11 MSB including the Condenser Pit, Circulating Water Pipe Pit and equipment foundations between GL 11-B to 11-C and 11-1 to 11-6 for the installation of condenser</b>	<b>466 days</b>	<b>01/11/18</b>	<b>01/03/20</b>				
192	Area Possession & Clearance	0 days	01/11/18	01/11/18				
193	Excavation to foundation level at ELS Type A	18 days	13/04/19	30/04/19				
194	Construction of CW Outlet Box + lowest tie beam & caps	40 days	01/05/19	09/06/19				
195	Construction of pile caps & tie beams & hot well sump pit up to +2.5mPD	30 days	10/06/19	09/07/19				
196	Backfill & Construction of CW Inlet Box + tie beams	18 days	10/07/19	27/07/19				
197	Backfill and Construction ground beams & trenches	18 days	28/07/19	14/08/19				

ID	Task Name	Duration	Start	Finish	
198	Construction of indoor underground drainage	12 days	15/08/19	26/08/19	
199	Backfill & construction on-grade slabs	10 days	27/08/19	05/09/19	
200	Construction Column casting and RC walls	30 days	30/09/19	29/10/19	
201	Metal Cladding & Louvres for GLB-C/1-6	60 days	28/11/19	06/02/20	
202	Mis. Works for plant erection	24 days	07/02/20	01/03/20	
203	<b>Section D - (i) Roads and external grounds surrounding L11 MSB and L11 HRSG in addition to the southern &amp; eastern areas mentioned above in Area E5 and E6</b>	<b>414 days</b>	<b>01/11/18</b>	<b>31/12/19</b>	c.D(i)
204	Area Possession & Clearance	14 days	01/11/18	14/11/18	
205	Excavation for Type C1 and open sheet pile	75 days	14/01/19	08/04/19	
206	Install CW Outlet pipe & connect to previous	21 days	16/04/19	06/05/19	
207	Backfill	10 days	07/05/19	16/05/19	
208	Undeground utilities and trenches	60 days	03/07/19	31/08/19	
209	Construction of plant drainage, trenches & RC plinths	45 days	01/09/19	15/10/19	
210	Remaining Undeground utilities & backfill (West of Tx Bay)	75 days	16/10/19	31/12/19	
211	<b>Section D - (ii) Remaining northern part of L11 HRSG area and its surrounding in Area E6</b>	<b>375 days</b>	<b>31/01/19</b>	<b>01/03/20</b>	c.D(ii)
212	Area Possession & Clearance	0 days	31/01/19	31/01/19	
213	Excavation & Pits & Pile Caps & Tie Beams (HRSG north Area E6)	45 days	04/04/19	18/05/19	
214	Construction RC foundations	45 days	19/05/19	02/07/19	
215	Construction RC plinths & HRSG Lift Pit & internal drainage	60 days	09/06/19	07/08/19	
216	Backfill Construction on-grade slabs	28 days	08/08/19	04/09/19	
217	Construction underground utilities	45 days	05/09/19	19/10/19	
218	Backfill, Remaining utilities and temporary paving	85 days	14/11/19	17/02/20	
219	Touch up and site clearance	13 days	18/02/20	01/03/20	
220	<b>Section D - (iii) Whole of L11 MSB including the pipe and cable rack along south facade of L11 MSB with all underground utilities at Area E4 including C.W. Inlet and Outlet Culvert except the deferred works</b>	<b>526 days</b>	<b>01/11/18</b>	<b>30/04/20</b>	c.D(iii)
221	Area Possession & Clearance	0 days	01/11/18	01/11/18	
222	Construction of pile caps & tie beams at Transformer Area	60 days	15/11/18	13/01/19	
223	Excavation & Construction Blow Down Sum pit (Type B)	45 days	04/04/19	18/05/19	
224	Construction of pile caps & tie beams at SunShadeCover Area	45 days	10/07/19	23/08/19	
225	Preparation for S.Steelwork Erection	14 days	03/07/19	16/07/19	
226	Structural Delivery & Erection (Turhine Hall North fr G.L. 1-3/H->B)	30 days	17/07/19	15/08/19	
227	Structural Delivery & Erection (Equipment Floors)	45 days	16/08/19	29/09/19	
228	Structural Delivery & Erection (Turbine Hall South)	45 days	30/09/19	13/11/19	
229	Fire Coating Application at Joint	120 days	16/08/19	13/12/19	
230	External Scaffolding Erection	150 days	31/07/19	29/12/19	
231	Construction 1/F RC Slab	14 days	30/09/19	13/10/19	
232	Construction M/F RC Slab	7 days	14/10/19	20/10/19	
233	Construction 2/F RC Slab	14 days	14/10/19	27/10/19	
234	Construction 3/F RC Slab	14 days	28/10/19	10/11/19	
235	Construction 4/F RC Slab	14 days	11/11/19	24/11/19	
236	Construction 5/F RC Slab (Roof of turbine hall, except defer portion)	30 days	25/11/19	24/12/19	
237	Construction Roof RC Slab	14 days	09/12/19	22/12/19	
238	Construction Upper Roof RC Slab	12 days	27/12/19	07/01/20	
239	Construction Defer Roof RC Slab (G.L. G-H)	30 days	08/01/20	15/02/20	
240	Construction of Staircase ST-01 & lift shaft & machine room	120 days	30/08/19	29/12/19	
241	Construction of Staircase ST-02 except defer work	76 days	28/10/19	13/01/20	
242	Construction of RC plinth, kerbs & parapet Walls	30 days	07/02/20	07/03/20	
243	Erection of Skylight & Roof Features	45 days	21/02/20	05/04/20	
244	Waterproofing & Flooring at Roof	60 days	08/01/20	16/03/20	
245	ABFW Works from 1/F to 5/F equipment rooms	150 days	21/10/19	29/03/20	
246	Metal Cladding, Windows and Louvres incl. roof feature	100 days	28/11/19	17/03/20	
247	Removal of external scaffolding	60 days	17/02/20	16/04/20	
248	Building Services E&M Access & Installation	150 days	04/11/19	12/04/20	
249	Remaining and Mis. works for Plant erection Full Access	18 days	13/04/20	30/04/20	
250	<b>Section D - (iv) Link Bridge between L10 and L11 MSB and at the south of L11 MSB including their associated alternations &amp; additions (A&amp;A) Works at L10 MSB</b>	<b>526 days</b>	<b>01/11/18</b>	<b>30/04/20</b>	c.D(iv)
251	Area Possession & Clearance	0 days	01/11/18	01/11/18	

ID	Task Name	Duration	Start	Finish	Half 2, 2019			
					Aug 2019	Sep 2019	Oct 2019	
252	A&A works at South of L10 MSB	60 days	28/11/19	07/02/20				
253	Erection of link bridge structural steel	21 days	07/02/20	27/02/20				
254	Casting of bridge deck	7 days	28/02/20	05/03/20				
255	Metal roofing installation	14 days	06/03/20	19/03/20				
256	ABWF work	21 days	20/03/20	09/04/20				
257	Form new opening at MSB for final connection	14 days	27/03/20	09/04/20				
258	E&M Work for completion	21 days	10/04/20	30/04/20				
259	<b>Section D - (v) Gas Duct Foundation, Pipe and Cable Rack and associated trench in Area E20</b>	<b>345 days</b>	<b>11/02/19</b>	<b>01/02/20</b>				
260	Area Possession & Clearance + CNY	0 days	11/02/19	11/02/19				
261	Sheet pile installation & submit as-built	75 days	11/02/19	26/04/19				
262	Consent for excavation	28 days	27/04/19	24/05/19				
263	Excavation & plate load test	45 days	01/06/19	15/07/19				
264	Construction of foundation	45 days	16/07/19	29/08/19				
265	Backfill & Underground utilities	30 days	30/08/19	28/09/19				
266	Remaining Pipe & cable rack and associated trenches in Area E20	115 days	29/09/19	01/02/20				
267	<b>Section E1 - (i) Link Bridge and Pipe and Cable Rack connecting L11 MSB to the western area of L11 MSB at Area E3</b>	<b>263 days</b>	<b>01/01/20</b>	<b>28/09/20</b>				
268	Area Possession	0 days	01/01/20	01/01/20				
269	Excavation & construction of new foundation	40 days	01/01/20	18/02/20				
270	Backfill	10 days	19/02/20	28/02/20				
271	Erection of Structural steel	30 days	06/07/20	04/08/20				
272	Backfill & Ground works	55 days	05/08/20	28/09/20				
273	<b>Section E1 - (ii) Gas Receiving Station and L11 Gas Receiving Station Equipment Room (GRS) Area Extension at Area E16</b>	<b>173 days</b>	<b>01/01/20</b>	<b>30/06/20</b>				
274	Area Possession	0 days	01/01/20	01/01/20				
275	Removal of Surcharge and excavation	14 days	01/01/20	14/01/20				
276	Modification of Site Drainage	45 days	15/01/20	08/03/20				
277	Construction of new RC for GRS Equipment Room	75 days	14/01/20	06/04/20				
278	ABWF for GRS Equipment room	45 days	07/04/20	21/05/20				
279	E&M Installation	45 days	17/05/20	30/06/20				
280	Construction of new Gas pipe plinths & racks	45 days	22/02/20	06/04/20				
281	Backfill and construction site drainage	21 days	07/04/20	27/04/20				
282	External Paving and install new fencing	60 days	02/05/20	30/06/20				
283	<b>Section E1 - (iii) External Works at Area E15 ( C )</b>	<b>273 days</b>	<b>01/06/20</b>	<b>28/02/21</b>				
284	Removal of Surcharge and excavation	45 days	01/06/20	15/07/20				
285	Underground drianage, Utilities and RC plinths	123 days	16/07/20	15/11/20				
286	Backfill and install surface utilities	45 days	16/11/20	30/12/20				
287	Roadwork	60 days	31/12/20	28/02/21				
288	<b>Section E2 - Pipe and Cable Rack and trench at west of Chimney Road and Pipe and Cable Rack at south of Middle Road at Area E8 and E19</b>	<b>495 days</b>	<b>01/05/19</b>	<b>17/09/20</b>				
289	BD consent + Site Possession @ Area E8	0 days	01/05/19	01/05/19				
290	Excavation & Plate load test	60 days	01/05/19	29/06/19				
291	Foundation and Trench constructions	90 days	30/06/19	27/09/19				
292	Backfill & underground utitiles + temp paving	60 days	28/09/19	26/11/19				
293	Excavation & plate load test @ E19	60 days	27/11/19	05/02/20				
294	Construction of foundations & trenches	45 days	06/02/20	21/03/20				
295	Backfill & underground utitiles	60 days	22/03/20	20/05/20				
296	Pipe & cable rack Erection	60 days	21/05/20	19/07/20				
297	Ground reinstatement	60 days	20/07/20	17/09/20				
298	<b>Section E3 - Gas Pipe Support Foundation and Pipe Trench and associated external works at Area E14, E15 (A) and E15 (B)</b>	<b>173 days</b>	<b>01/01/20</b>	<b>30/06/20</b>				
299	Removal of surcharge / site clearance	21 days	01/01/20	21/01/20				
300	Excavation & construction of pipe trench	30 days	22/01/20	29/02/20				
301	Construction of gas pipe support foundation	30 days	01/03/20	30/03/20				
302	Construction of underground drainage and utilities	60 days	31/03/20	29/05/20				
303	Backfill & road work	32 days	30/05/20	30/06/20				
304	<b>Section E4 - 275kV cable trenching works connecting the 275kV Switching Station Extension and L11 MSB at Area E9 (A)</b>	<b>185 days</b>	<b>15/03/19</b>	<b>15/09/19</b>				
305	Site possession	0 days	15/03/19	15/03/19				
306	Obtain Permit to work & Road close permit	10 days	15/03/19	24/03/19				

ID	Task Name	Duration	Start	Finish	Half 2, 2019			
					Aug 2019	Sep 2019	Oct 2019	
307	Excavation & construction new cable trench to 275kV	45 days	25/03/19	08/05/19				
308	Excavation & construction new cable trench to L11MSB	130 days	09/05/19	15/09/19	Excavation & construction new cable trench to L11MSB			
309	<b>Section F - 275kV Station Building Extension and associated works at Area E17</b>	<b>709 days</b>	<b>01/06/18</b>	<b>30/05/20</b>	c.F			
310	Installation of ELS for 275kV Switching Station near Staircase ST-3 and ST-6	14 days	01/06/18	14/06/18				
311	Construction of Staircase ST-3	110 days	15/06/18	02/10/18				
312	BD Amendment Approval on A&A	0 days	17/12/18	17/12/18				
313	BD Amendment Approval on A&A ST3 & Drainage	0 days	04/02/19	04/02/19				
314	OP inspection of Staircase ST-3	14 days	11/02/19	24/02/19				
315	Consent of New Foundation Works (Stage 1)	0 days	19/10/18	19/10/18				
316	Consent & BA10 for Demolition of Existing Staircase	0 days	08/03/19	08/03/19				
317	Demolition of Existing Staircase and Submit BA14A	14 days	09/03/19	22/03/19				
318	BD inspection for BA14A & Issue OP	28 days	23/03/19	19/04/19				
319	Consent & BA10 for New Foundation Work (Stage 2)	28 days	13/04/19	10/05/19				
320	Hoarding Modification	7 days	19/10/18	25/10/18				
321	Pile Cap & Tie Beam Construction (Stage 1)	98 days	26/10/18	31/01/19				
322	Erection of Tower Crane	40 days	11/02/19	22/03/19				
323	Pile Cap and Tie Beam (Stage 2)	21 days	11/05/19	31/05/19				
324	RC Construction up to 1/F (Stage 1)	30 days	11/05/19	09/06/19				
325	RC Construction up to 1/F (Stage 2)	75 days	01/06/19	14/08/19	RC Construction up to 1/F (Stage 2)			
326	Construction of Staircase ST6	90 days	15/09/19	13/12/19				
327	Shop Drawing Submission & Approval of Structural Steel	45 days	27/02/19	12/04/19				
328	Structural Steel fabrication & Delivery	60 days	13/04/19	11/06/19				
329	Erection of Structural Steel GL 17~18	30 days	16/08/19	14/09/19		Erection of Structural Steel GL 17~18		
330	Erection of Structural Steel GL 8~17	60 days	15/09/19	13/11/19				
331	Metal Cladding Delivery	60 days	07/08/19	05/10/19				
332	Metal Door, Window & Louve Delivery	45 days	06/10/19	19/11/19				
333	Erection of Working Platform and Scaffold	150 days	01/07/19	27/11/19				
334	Install Decking	60 days	09/10/19	07/12/19				
335	RC Walls from 1/F @ GIS Hall	40 days	31/10/19	09/12/19				
336	Construction of 2/F RC slab	14 days	10/12/19	23/12/19				
337	Construction of R/F RC slab	21 days	24/12/19	15/01/20				
338	Construction of UR/F RC slab	14 days	16/01/20	07/02/20				
339	Construction of GIS Hall Floor	60 days	24/12/19	03/03/20				
340	Installation of Overhead Crane (By JEC)	60 days	04/03/20	02/05/20				
341	Construction of staircase ST4, ST5, Lift Shaft & Equip Floors	150 days	15/09/19	22/02/20				
342	Lift Installation	90 days	23/02/20	22/05/20				
343	Concrete of RC walls, plinths, kerb & parapet walls & New trench for LV Power	30 days	24/12/19	02/02/20				
344	ABWF Works @ G/F	50 days	14/10/19	02/12/19				
345	ABWF Works @ 1/F	50 days	13/11/19	03/01/20				
346	ABWF Works @ 2/F	75 days	13/12/19	07/03/20				
347	ABWF Works @ R/F	30 days	14/01/20	21/02/20				
348	ABWF Works @ UR/F	21 days	03/02/20	23/02/20				
349	Waterproofing Works at R/F & UR/F	45 days	16/01/20	09/03/20				
350	Building Services E&M Access & Installation & T&C	150 days	13/11/19	21/04/20				
351	Metal Cladding, Windows and Louvres incl. Roof Feature	90 days	24/12/19	02/04/20				
352	Shutter Erection	30 days	03/04/20	02/05/20				
353	Removal of External Scaffolding + Tower Crane	35 days	03/04/20	07/05/20				
354	External Underground Drainage and Utilities	30 days	17/04/20	16/05/20				
355	Road & Paving Reinstatement	30 days	01/05/20	30/05/20				
356	Ready for FSD & OP Inspection	0 days	30/05/20	30/05/20				
357	<b>Section G - A&amp;A Works at No. 4 C.W. Intake at Area E12</b>	<b>143 days</b>	<b>01/01/20</b>	<b>31/05/20</b>				
358	Permit to work	0 days	01/01/20	01/01/20				
359	Erection of temp. platform	14 days	01/01/20	14/01/20				
360	Demolition work	30 days	15/01/20	22/02/20				
361	Modify existing slab openings	75 days	23/02/20	07/05/20				
362	Curing + Removal of platform	24 days	08/05/20	31/05/20				
363	<b>Section H - L11 Steel flue liner at No. 4 Chimney</b>	<b>186 days</b>	<b>01/01/19</b>	<b>15/07/19</b>				
364	Complete erection of L10 Steel flue	0 days	01/01/19	01/01/19				
365	Modification of erection equipment	21 days	01/01/19	21/01/19				
366	Erection temp. platform and demolition work	30 days	22/01/19	02/03/19				
367	Structural steel delivery & Erection	85 days	03/03/19	26/05/19				
368	Removal of temp. work	5 days	27/05/19	31/05/19				
369	Reinstate G/F louvre wall and access door	45 days	01/06/19	15/07/19				
370	<b>Section I - (i) 275kV cable trenching works connecting the 275kV Switching Station Extension and L11 MSB at Area E9 (B)</b>	<b>232 days</b>	<b>15/09/19</b>	<b>15/05/20</b>				
371	Obtain Permit to work & Road close permit	0 days	15/09/19	15/09/19				
372	Excavation & construction new cable trench	160 days	16/09/19	04/03/20				
373	Re-excavate cable trench for cable laying	72 days	05/03/20	15/05/20				
374	<b>Section I - (ii) Interconnector 2 Trench Modification Works at Area E10</b>	<b>275 days</b>	<b>01/04/20</b>	<b>31/12/20</b>				
375	Obtain Permit to work & Road close permit	0 days	01/04/20	01/04/20				
376	Re-excavate & new cable trench for cable laying	275 days	01/04/20	31/12/20				



ID	Task Name	Duration	Start	Finish	Half 2, 2019		
					Aug 2019	Sep 2019	Oct 2019
377	<b>Section J - (i) Demolition of Retractable Cover A&amp;B &amp; (ii) Construction of new LOT 3 &amp; 4</b>	<b>426 days</b>	<b>01/03/20</b>	<b>30/04/21</b>			
378	Obtain permit to work & Road close permit	0 days	01/03/20	01/03/20			
379	Erection of Hoarding	21 days	01/03/20	21/03/20			
380	Removal of existing cover & structural steel	30 days	22/03/20	20/04/20			
381	Demolish of existing bund wall and staircases	45 days	21/04/20	04/06/20			
382	Demolish of existing slab & foundation	60 days	05/06/20	03/08/20			
383	Consent for new work	30 days	04/08/20	02/09/20			
384	Construction of new bund wall and foundation	100 days	03/09/20	11/12/20			
385	Construction of new oil separator	80 days	23/09/20	11/12/20			
386	Construct underground drainage and surface channel	40 days	12/12/20	20/01/21			
387	Construction on-grade slab	60 days	21/01/21	21/03/21			
388	Removal of hoarding and ground reinstatement	40 days	22/03/21	30/04/21			
389	<b>Section K1 - External works at Area 15 ( E ) and 15( F )</b>	<b>365 days</b>	<b>01/06/20</b>	<b>31/05/21</b>			
390	Removal of surcharge	30 days	01/06/20	30/06/20			
391	Construct new drainage and utilities work	200 days	01/07/20	16/01/21			
392	Road & Paving	135 days	17/01/21	31/05/21			
393	<b>Section K2 - Removal of Southern Bund and External Works at Area D5, D6 and D7</b>	<b>365 days</b>	<b>01/06/20</b>	<b>31/05/21</b>			
394	Demolition work	30 days	01/06/20	30/06/20			
395	Construct new drainage and utilities work	200 days	01/07/20	16/01/21			
396	Road & Paving	135 days	17/01/21	31/05/21			
397	<b>Section K3 - All remaining works shall be completed for reporting completion to BD and ready for OP inspection (PS1.4.4)</b>	<b>623 days</b>	<b>08/01/20</b>	<b>30/09/21</b>			
398	Completion of remaining roof after over headcrane move in	30 days	08/01/20	15/02/20			
399	Construction of G/F Lube Oil Tank Room (BY TDK)	61 days	06/10/20	05/12/20			
400	Construction of wall and staircase at G/F after Condensor Move in	90 days	06/07/20	03/10/20			
401	Construction of Durasteel Steel wall panel after IBP installation	30 days	20/09/20	19/10/20			
402	Construction of Transformer fence wall, cladding & associated FS services	122 days	01/09/20	31/12/20			
403	Final restatement of road & paving around MSB & HRSG	122 days	01/09/20	31/12/20			
404	Installation of trench covers and gratings after plant installation	151 days	01/10/20	28/02/21			
405	Backfill and reinstatement after 275kV cable laying	122 days	01/06/21	30/09/21			

SUNLEY ENGINEERING & CONSTRUCTION CO., LTD.

**Contract No. 18/8004 - Lamma Power Station Extension Foundation Works for Unit L12**

**Master Programme**

ID	Task Name	Duration	Start	Finish	2019年			2020年		
					M7 八月	M8 九月	M9 十月			
1	<b>Key Date</b>	<b>416 days</b>	<b>3月12日 星期二</b>	<b>4月30日 星期四</b>						
2	Commencement date	0 days	3月12日 星期二	3月12日 星期二						
3	Duration of works	416 days	3月12日 星期二	4月30日 星期四						
4	Site possession date	0 days	3月12日 星期二	3月12日 星期二						
5	Completion of the Contract	0 days	4月30日 星期四	4月30日 星期四						
6										
7	<b>Total Contract Period</b>	<b>455 days</b>	<b>2月1日 星期五</b>	<b>4月30日 星期四</b>						
8										
9	<b>Preliminaries</b>	<b>21 days</b>	<b>3月12日 星期二</b>	<b>4月1日 星期一</b>						
10	Coordination with utility companies	14 days	3月12日 星期二	3月25日 星期一						
11	Pre-construction condition survey	14 days	3月12日 星期二	3月25日 星期一						
12	Notification of commencement of works to Labour Department	7 days	3月12日 星期二	3月18日 星期一						
13	Notification of air pollution control for commencement of works to EPD	7 days	3月12日 星期二	3月18日 星期一						
14	Application of water discharge licence from EPD	7 days	3月12日 星期二	3月18日 星期一						
15	Application for billing account for disposal of construction waste from EPD	7 days	3月12日 星期二	3月18日 星期一						
16	CCTV for existing underground drainage pipe around site boundary	21 days	3月12日 星期二	4月1日 星期一						
17	Utility detection for existing underground cables	21 days	3月12日 星期二	4月1日 星期一						
18	Site clearance	21 days	3月12日 星期二	4月1日 星期一						
19	Set up contractor's site office	21 days	3月12日 星期二	4月1日 星期一						
20	Installation of monitoring checkpoints	20 days	3月12日 星期二	3月31日 星期日						
21	Submission of BA10 for ELS & foundation works	7 days	3月12日 星期二	3月18日 星期一						
22										
23	<b>Predrilling Works for Section of A1 to A3 (Area P1 to P3)</b>	<b>96 days</b>	<b>2月1日 星期五</b>	<b>5月7日 星期二</b>						
24	Drilling rigs mobilization	10 days	2月1日 星期五	2月10日 星期日						
25	Predrilling works (46 holes) (8 rigs)	81 days	2月11日 星期一	5月2日 星期四						
26	Submission of predrill logs	71 days	2月26日 星期二	5月7日 星期二						
27	Completion of predrilling works	0 days	5月7日 星期二	5月7日 星期二						
28										
29	<b>Plant Mobilization for Bored Pile Construction</b>	<b>150 days</b>	<b>3月19日 星期二</b>	<b>8月15日 星期四</b>						
30	<b>Crawler Crane</b>	<b>136 days</b>	<b>3月19日 星期二</b>	<b>8月1日 星期四</b>						
31	1st & 2nd set	21 days	3月19日 星期二	4月8日 星期一						
32	3rd set	21 days	4月10日 星期三	4月30日 星期二						
33	4th & 5th set	21 days	6月14日 星期五	7月4日 星期四						
34	6th set	21 days	7月12日 星期五	8月1日 星期四						
35	<b>Oscillator</b>	<b>136 days</b>	<b>3月19日 星期二</b>	<b>8月1日 星期四</b>						
36	1st & 2nd set	21 days	3月19日 星期二	4月8日 星期一						
37	3rd set	21 days	4月10日 星期三	4月30日 星期二						
38	4th & 5th set	21 days	6月14日 星期五	7月4日 星期四						
39	6th set	21 days	7月12日 星期五	8月1日 星期四						
40	<b>RCD</b>	<b>129 days</b>	<b>4月9日 星期二</b>	<b>8月15日 星期四</b>						
41	1st & 2nd set	14 days	4月9日 星期二	4月22日 星期一						
42	3rd set	14 days	5月1日 星期三	5月14日 星期二						
43	4th & 5th set	14 days	7月5日 星期五	7月18日 星期四						
44	6th set	14 days	8月2日 星期五	8月15日 星期四						
45	Completion of plant mobilization for bored pile construction	0 days	8月15日 星期四	8月15日 星期四						
46										
47	<b>Delivery of Temporary Steel Casing for Bored Pile Construction</b>	<b>150 days</b>	<b>3月19日 星期二</b>	<b>8月15日 星期四</b>						
48	Duration for delivery of temporary steel casing	150 days	3月19日 星期二	8月15日 星期四						
49	Completion of delivery of temporary steel casing for bored pile construction	0 days	8月15日 星期四	8月15日 星期四						
50										
51	<b>Delivery of Permanent Casing &amp; Double Wall Liner</b>	<b>369 days</b>	<b>3月18日 星期一</b>	<b>3月20日 星期五</b>						
52	Testing for double wall liner	45 days	3月18日 星期一	5月1日 星期三						
53	Duration for delivery of permanent casing & double wall liner	325 days	5月1日 星期三	3月20日 星期五						
54										
55	<b>Section A1</b>	<b>320 days</b>	<b>3月18日 星期一</b>	<b>1月31日 星期五</b>						

Master Programme      Task      Critical Task      Milestone      Summary

**Master Programme**

ID	Task Name	Duration	Start	Finish	2019年			2020年		
					M7 八月	M8 九月	M9 十月			
56	<b>Bored Pile Construction at P1 (17 piles)</b>	<b>296 days</b>	<b>4月11日 星期四</b>	<b>1月31日 星期五</b>						
57	1st set plant - BP13 > BP5 > BP9 > BP26 > BP1 > BP12 > BP8 > BP4 > G2 > G4 > G6	273 days	4月11日 星期四	1月8日 星期三						
58	3rd set plant - G8	45 days	4月22日 星期一	6月5日 星期三						
59	3rd set plant - BPC3 > BPC4 > BPC5 > BPC6 > BPC7	135 days	8月30日 星期五	1月11日 星期六						
60	Interface & sonic test	28 days	1月4日 星期六	1月31日 星期五						
61	Completion of bored pile construction at P1	0 days	1月31日 星期五	1月31日 星期五						
62										
63	<b>Sheet Pile at P1</b>	<b>215 days</b>	<b>7月1日 星期一</b>	<b>1月31日 星期五</b>						
64	Delivery of sheet pile material	14 days	7月1日 星期一	7月14日 星期日						
65	Installation of sheet pile (approx. 57 piles) (1 rig)	10 days	7月17日 星期三	7月26日 星期五						
66	Installation of sheet pile (approx. 254 piles) (1 rig)	38 days	12月17日 星期二	1月23日 星期四						
67	Prepare & submit as-built record plan	7 days	1月24日 星期五	1月30日 星期四						
68	Submission of BA14	1 day	1月31日 星期五	1月31日 星期五						
69	Completion of sheet pile at P1	0 days	1月31日 星期五	1月31日 星期五						
70										
71	<b>Cone Penetration Test</b>	<b>104 days</b>	<b>3月18日 星期一</b>	<b>6月29日 星期六</b>						
72	Plant mobilization	14 days	3月18日 星期一	3月31日 星期日						
73	Carry out CPTU testing (9 nos.) (1 rig)	90 days	4月1日 星期一	6月29日 星期六						
74	Completion of cone penetration test	0 days	6月29日 星期六	6月29日 星期六						
75	Completion of section A1	0 days	1月31日 星期五	1月31日 星期五						
76										
77	<b>Section A2</b>	<b>197 days</b>	<b>4月8日 星期一</b>	<b>10月21日 星期一</b>						
78	<b>Bored Pile Construction at P2 (11 piles)</b>	<b>197 days</b>	<b>4月8日 星期一</b>	<b>10月21日 星期一</b>						
79	2nd set plant - BP27 > BP24 > BP23 > BP16 > BP20 > BP17	161 days	4月8日 星期一	9月15日 星期日						
80	3rd set plant - G10 > BP21 > BPC8 > BPC1 > BPC2	135 days	5月12日 星期日	9月23日 星期一						
81	Interface & sonic test	28 days	9月24日 星期二	10月21日 星期一						
82	Completion of bored pile construction at P2	0 days	10月21日 星期一	10月21日 星期一						
83	Completion of section A2	0 days	10月21日 星期一	10月21日 星期一						
84										
85	<b>Section A3</b>	<b>331 days</b>	<b>5月18日 星期六</b>	<b>4月12日 星期日</b>						
86	<b>Bored Pile Construction at P3 (18 piles)</b>	<b>283 days</b>	<b>7月5日 星期五</b>	<b>4月12日 星期日</b>						
87	4th set plant - G1 > G3 > G5 > G7 > G9	225 days	7月5日 星期五	2月14日 星期五						
88	5th set plant - BP15 > BP19 > BP22 > BP25 > BP28	225 days	7月5日 星期五	2月14日 星期五						
89	6th set plant - BP3 > BP6 > BP7 > BP11 > BP2 > BP10 > BP14 > BP18	203 days	8月2日 星期五	2月20日 星期四						
90	Interface & sonic test	28 days	2月21日 星期五	3月19日 星期四						
91	Prepare & submit as-built record plan	7 days	3月13日 星期五	3月19日 星期四						
92	Submission of BA14	1 day	3月19日 星期四	3月19日 星期四						
93	Allow 14 days for selection of pile for concrete full core test	14 days	3月20日 星期五	4月2日 星期四						
94	Concrete full core test	10 days	4月3日 星期五	4月12日 星期日						
95	Completion of bored pile construction at P3	0 days	4月12日 星期日	4月12日 星期日						
96										
97	<b>Sheet Pile at P3</b>	<b>60 days</b>	<b>5月18日 星期六</b>	<b>7月16日 星期二</b>						
98	Plant mobilization	7 days	5月25日 星期六	5月31日 星期五						
99	Delivery of sheet pile material	14 days	5月18日 星期六	5月31日 星期五						
100	Installation of sheet pile (approx. 626 piles) (2 rigs)	46 days	6月1日 星期六	7月16日 星期二						
101	Completion of sheet pile at P3	0 days	7月16日 星期二	7月16日 星期二						
102	Completion of section A3	0 days	4月12日 星期日	4月12日 星期日						
103										
104	<b>Section B</b>	<b>305 days</b>	<b>7月1日 星期一</b>	<b>4月30日 星期四</b>						
105	<b>Shunt Reactor</b>	<b>121 days</b>	<b>1月1日 星期三</b>	<b>4月30日 星期四</b>						
106	Site possession date	0 days	1月1日 星期三	1月1日 星期三						
107	<b>Predrilling Works for Bored Pile</b>	<b>34 days</b>	<b>1月1日 星期三</b>	<b>2月3日 星期一</b>						
108	Drilling rigs mobilization	7 days	1月1日 星期三	1月7日 星期二						
109	Predrilling works (4 holes) (2 rigs)	25 days	1月8日 星期三	2月1日 星期六						
110	Submission of predrill logs	15 days	1月20日 星期一	2月3日 星期一						

Master Programme

Task  Critical Task  Milestone  Summary 

**Master Programme**

ID	Task Name	Duration	Start	Finish	2019年			2020年		
					M7 八月	M8 九月	M9 十月			
111	Completion of predrilling works	0 days	2月3日 星期一	2月3日 星期一						
112										
113	<b>Bored Pile Construction (4 piles)</b>	<b>113 days</b>	<b>1月9日 星期四</b>	<b>4月30日 星期四</b>						
114	Plant mobilization	15 days	1月9日 星期四	1月23日 星期四						
115	1st set plant - BPR-B4 > BPR-E2	65 days	1月16日 星期四	3月20日 星期五						
116	3rd set plant - BPR-E6 > BPR-E5	65 days	1月24日 星期五	3月28日 星期六						
117	Interface & sonic test	14 days	3月24日 星期二	4月6日 星期一						
118	Prepare & submit as-built record plan	7 days	3月31日 星期二	4月6日 星期一						
119	Submission of BA14	1 day	4月6日 星期一	4月6日 星期一						
120	Allow 14 days for selection of pile for concrete full core test	14 days	4月7日 星期二	4月20日 星期一						
121	Concrete full core test	10 days	4月21日 星期二	4月30日 星期四						
122	Completion of bored pile construction	0 days	4月30日 星期四	4月30日 星期四						
123	Completion of shunt reactor	0 days	4月30日 星期四	4月30日 星期四						
124										
125	<b>Cable Bridge</b>	<b>267 days</b>	<b>7月1日 星期一</b>	<b>3月23日 星期一</b>						
126	Site possession date	0 days	7月1日 星期一	7月1日 星期一						
127	<b>Predrilling Works for Bored Pile</b>	<b>55 days</b>	<b>7月1日 星期一</b>	<b>8月24日 星期六</b>						
128	Drilling rigs mobilization	7 days	7月1日 星期一	7月7日 星期日						
129	Predrilling works (8 holes) (2 rig)	46 days	7月8日 星期一	8月22日 星期四						
130	Submission of predrill logs	30 days	7月26日 星期五	8月24日 星期六						
131	Completion of predrilling works	0 days	8月24日 星期六	8月24日 星期六						
132										
133	<b>Bored Pile Construction (6 piles)</b>	<b>178 days</b>	<b>9月16日 星期一</b>	<b>3月11日 星期三</b>						
134	Plant mobilization	14 days	9月16日 星期一	9月29日 星期日						
135	2nd set plant - CP6-1 > CP6-3 > CP6-6 > CP6-8 > CP6-5 > CP6-2 > CP6-7 > CP6-4	150 days	9月30日 星期一	2月26日 星期三						
136	Interface & sonic test	14 days	2月27日 星期四	3月11日 星期三						
137	Completion of bored pile construction	0 days	3月11日 星期三	3月11日 星期三						
138										
139	<b>Temporary Working Platform for Socketted H-Pile Construction</b>	<b>74 days</b>	<b>7月1日 星期一</b>	<b>9月12日 星期四</b>						
140	Material delivery for temporary working platform erection	14 days	7月1日 星期一	7月14日 星期日						
141	Erection of temporary working platform	60 days	7月15日 星期一	9月12日 星期四						
142	Completion of temporary working platform	0 days	9月12日 星期四	9月12日 星期四						
143										
144	<b>Predrilling Works for Socketted H-pile</b>	<b>27 days</b>	<b>9月13日 星期五</b>	<b>10月9日 星期三</b>						
145	Drilling rigs mobilization	7 days	9月13日 星期五	9月19日 星期四						
146	Predrilling works (6 holes) (2 rigs)	18 days	9月20日 星期五	10月7日 星期一						
147	Submission of predrill logs	13 days	9月27日 星期五	10月9日 星期三						
148	Completion of predrilling works	0 days	10月9日 星期三	10月9日 星期三						
149										
150	<b>Socketted H-Pile Construction (30 piles)</b>	<b>168 days</b>	<b>10月8日 星期二</b>	<b>3月23日 星期一</b>						
151	Plant mobilization	14 days	10月8日 星期二	10月21日 星期一						
152	Trial pile installation (1 pile)	14 days	10月22日 星期二	11月4日 星期一						
153	Socketted H-pile installation (16 piles) (1 set plant)	65 days	11月5日 星期二	1月8日 星期三						
154	Post drill	5 days	1月9日 星期四	1月13日 星期一						
155	Prepare & submit as-built record plan	28 days	1月9日 星期四	2月5日 星期三						
156	Submission of BA14	1 day	2月6日 星期四	2月6日 星期四						
157	Allow 14 days for selection of pile for loading test	14 days	2月7日 星期五	2月20日 星期四						
158	Set up loading test platform for 1st pile testing	12 days	2月21日 星期五	3月3日 星期二						
159	Loading test for 1st pile	4 days	3月4日 星期三	3月7日 星期六						
160	Set up loading test platform for 2nd pile testing	12 days	3月8日 星期日	3月19日 星期四						
161	Loading test for 2nd pile	4 days	3月20日 星期五	3月23日 星期一						
162	Completion of socketted H-pile construction	0 days	3月23日 星期一	3月23日 星期一						
163	Completion of cable bridge	0 days	3月23日 星期一	3月23日 星期一						
164	Completion of section B	0 days	4月30日 星期四	4月30日 星期四						
165	Contract completion	0 days	4月30日 星期四	4月30日 星期四						

Master Programme      Task      Critical Task      Milestone      Summary