

16/8002 Outstanding Work Programme

16-8002 OS Work Prog (30Sep19)

ID	Task Name	Duration	Start	Finish	Qtr 4, 2019		
					November 2019	December 2019	January 2020
1	16/8002 Unit 10 Outstanding Work Programme	373 days	Sat 1/12/18	Wed 18/12/19			
2	Unit 10 MSB & HRSG	355 days	Sat 1/12/18	Sat 30/11/19			
3	Superstructure	202 days	Sat 1/12/18	Sun 30/6/19			
101	External Works	232 days	Sat 30/3/19	Sat 16/11/19			
102	EVA North MSB	219 days	Sat 30/3/19	Sun 3/11/19			
103	Dia 900 Storm Drain (fr east to west) & FS PFH Pipe	0 days	Sat 30/3/19	Sat 30/3/19			
104	TDK remove air filter inlet scaffold	0 days	Mon 8/4/19	Mon 8/4/19			
105	Remain Dia900 storm drain to MH204	28 days	Mon 8/4/19	Sun 5/5/19			
106	Access and Complete east rc wall	12 days	Tue 30/4/19	Sat 11/5/19			
107	Access to TDK for transport steam blow pipes fr Gate 39	30 days	Mon 6/5/19	Tue 4/6/19			
108	Dia 400 Storm Drain at G.L. G~H	6 days	Wed 5/6/19	Mon 10/6/19			
109	Road gully to storm manhole (east)	6 days	Tue 11/6/19	Sun 16/6/19			
110	Conduits for streetlight and fs signal (east)	10 days	Mon 17/6/19	Wed 26/6/19			
111	Road base (East)	5 days	Thu 27/6/19	Mon 1/7/19			
112	Return Assess from TDK from HRSG North	0 days	Fri 16/8/19	Fri 16/8/19			
113	Manhole covers and remaining surface UU	14 days	Fri 16/8/19	Thu 29/8/19			
114	Road Paving and street light	21 days	Fri 30/8/19	Thu 19/9/19			
115	Cantilver beam & slab for drainage manhole	4 days	Sat 1/6/19	Tue 4/6/19			
116	Sewage Drain SM207C to SM207B	7 days	Wed 5/6/19	Tue 11/6/19			
117	Remaing FS OFH Pipe + concrete box (west)	10 days	Wed 12/6/19	Fri 21/6/19			
118	Sewage Drain + Pump Pit	9 days	Sat 22/6/19	Sun 30/6/19			
119	Backfill for TDK steambow piping set up	5 days	Mon 1/7/19	Fri 5/7/19			
120	TDK SteamBlow Set up & removal	85 days	Sat 6/7/19	Sat 28/9/19			
121	FS Hydrant FH3	7 days	Sun 29/9/19	Sat 5/10/19			
122	FS OFH pipe & plinth & valve from FH1 to West of Tx Bay	10 days	Sun 29/9/19	Tue 8/10/19			
123	Road gully to storm manhole (west)	5 days	Wed 9/10/19	Sun 13/10/19			
124	Conduits for streetlight and fs signal (to Station Rd)	7 days	Mon 14/10/19	Sun 20/10/19			
125	Road base + Paving	14 days	Mon 21/10/19	Sun 3/11/19			
126	OTG & MH204A1 & associated pipes + Extra OFH Pipe	21 days	Thu 15/8/19	Wed 4/9/19			
127	EVA West MSB	129 days	Thu 2/5/19	Sat 7/9/19			
128	Dia 900 Storm Drain to MH203	14 days	Thu 2/5/19	Wed 15/5/19			
129	Manhole MS213b & associated drain pipes	7 days	Thu 16/5/19	Wed 22/5/19			
130	FS OFH Pipe + concrete box	14 days	Thu 23/5/19	Wed 5/6/19			
131	Sewage drain pump pit to SM206a	12 days	Thu 6/6/19	Mon 17/6/19			
132	Dia 1200 pipe connect to MH202	14 days	Tue 18/6/19	Mon 1/7/19			
133	Road gully to storm manhole	10 days	Tue 2/7/19	Thu 11/7/19			
134	Conduits for streetlight and fs signal	14 days	Fri 12/7/19	Thu 25/7/19			
135	Road kerb + Base	12 days	Fri 26/7/19	Tue 6/8/19			
136	TDK Site crane at SunShade	30 days	Wed 7/8/19	Thu 5/9/19			
137	Paving	18 days	Wed 21/8/19	Sat 7/9/19			
138	EVA South MSB	139 days	Thu 9/5/19	Tue 24/9/19			
139	Dia 450 & 600 Storm Drain MH214-217A	14 days	Thu 9/5/19	Wed 22/5/19			
140	Sewage SM208E to pump pit	14 days	Thu 23/5/19	Wed 5/6/19			
141	Portable & Flushing along MSB south wall	14 days	Thu 6/6/19	Wed 19/6/19			
142	FS OFH Pipe + concrete box	18 days	Thu 20/6/19	Sun 7/7/19			
143	Road gully to storm manhole	7 days	Mon 8/7/19	Sun 14/7/19			
144	Conduits for streetlight and fs signal	14 days	Mon 15/7/19	Sun 28/7/19			
145	Allow for Structrual steel Erection @ L11	40 days	Mon 29/7/19	Fri 6/9/19			

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ID	Task Name	Duration	Start	Finish	Qtr 4, 2019		
					November 2019	December 2019	January 2020
146	Road base + Paving	18 days	Sat 7/9/19	Tue 24/9/19			
147	EVA North HRSG	42 days	Fri 16/8/19	Thu 26/9/19			
148	Area Return from TDK	0 days	Fri 16/8/19	Fri 16/8/19			
149	HRSG North on-grade slabs	7 days	Fri 16/8/19	Thu 22/8/19			
150	Road gully to storm manhole	7 days	Fri 23/8/19	Thu 29/8/19			
151	Drainage U-channel relocation	14 days	Fri 30/8/19	Thu 12/9/19			
152	Conduits for streetlight and fs signal	7 days	Fri 30/8/19	Thu 5/9/19			
153	Road base + Paving	14 days	Fri 13/9/19	Thu 26/9/19			
154	EVA East HRSG	201 days	Mon 15/4/19	Fri 1/11/19			
155	Completed Sheeppile work for L11 Gas Duct	0 days	Mon 15/4/19	Mon 15/4/19			
156	Dia 750 Storm Drain up to MH210	30 days	Mon 15/4/19	Tue 14/5/19			
157	FS OFH Pipe + concrete box	14 days	Wed 15/5/19	Tue 28/5/19			
158	Return to TDK crane sitting	0 days	Tue 28/5/19	Tue 28/5/19			
159	Storm drain from MH210 to MH211	7 days	Wed 15/5/19	Tue 21/5/19			
160	Formation of Bund wall for Lube Oil Tank	2 days	Wed 22/5/19	Thu 23/5/19			
161	Bund wall construction	10 days	Fri 24/5/19	Sun 2/6/19			
162	Formation of Lube Oil Tank fdn	1 day	Mon 3/6/19	Mon 3/6/19			
163	Lube Oil Tank Fdn construction	12 days	Tue 4/6/19	Sat 15/6/19			
164	TDK return area	0 days	Mon 16/9/19	Mon 16/9/19			
165	New surface drain u channel	12 days	Mon 16/9/19	Fri 27/9/19			
166	Road gully to stormdrain	7 days	Sat 28/9/19	Fri 4/10/19			
167	Conduits for streetlight and fs signal	7 days	Sat 5/10/19	Fri 11/10/19			
168	Road base + Paving	21 days	Sat 12/10/19	Fri 1/11/19			
169	EVA South HRSG	76 days	Mon 2/9/19	Sat 16/11/19			
170	Allow access (i.e. block access to MSB Loading Bay)	0 days	Mon 2/9/19	Mon 2/9/19			
171	Dia 450 Storm Drain to MH212B to MH211a	5 days	Mon 2/9/19	Fri 6/9/19			
172	Pipe rack footing	5 days	Mon 2/9/19	Fri 6/9/19			
173	Road gully to storm	5 days	Sat 7/9/19	Wed 11/9/19			
174	Conduits for streetlight and fs signal	3 days	Mon 9/9/19	Wed 11/9/19			
175	Road base+paving	12 days	Thu 12/9/19	Mon 23/9/19			
176	Allow access from TDK (South of Lube Oil Storage Tank)	0 days	Mon 23/9/19	Mon 23/9/19			
177	Dia 600 Storm Drain to MH211a to MH212	14 days	Tue 24/9/19	Mon 7/10/19			
178	FS OFH Pipe + concret box	14 days	Tue 8/10/19	Mon 21/10/19			
179	Road gully to storm	5 days	Thu 17/10/19	Mon 21/10/19			
180	Conduits for streetlight and fs signal	5 days	Tue 22/10/19	Sat 26/10/19			
181	Road base+paving	21 days	Sun 27/10/19	Sat 16/11/19			
182	Complete UU Services and Road Paving Works (MSB)	0 days	Sun 3/11/19	Sun 3/11/19			
183	Complete UU Services and Road Paving Works (HRSG)	0 days	Sat 16/11/19	Sat 16/11/19			
184	Building Façade repair and touch up.	14 days	Tue 10/9/19	Mon 23/9/19			
185	Touch Up at HRSG Equipment Room	21 days	Sat 12/10/19	Fri 1/11/19			
186	Electrical & FS Installation @ HRSG	60 days	Thu 1/8/19	Sun 29/9/19			
187	Lift @ HRSG Installation (Temporary)	30 days	Fri 1/11/19	Sat 30/11/19			
188	Statutory Submissions & Inspection	203 days	Sat 11/5/19	Sat 30/11/19			
203	C.W. Pump, Intake and Urea Plant and Outstanding External Works	345 days	Mon 31/12/18	Wed 18/12/19			
204	C.W. Pump Area incl. Chlorination Area	249 days	Mon 14/1/19	Fri 27/9/19			
205	Cable tray at pipe rack ready for power supply laying	0 days	Thu 31/1/19	Thu 31/1/19			

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ID	Task Name	Duration	Start	Finish	Qtr 4, 2019		
					November 2019	December 2019	January 2020
206	Power supply laying and T&C for BS installation at CW. Pump Equip. Room	60 days	Thu 31/1/19	Mon 8/4/19			
207	Building's work touch up	30 days	Tue 9/4/19	Wed 8/5/19			
208	TDK confirm not use of temp. access to CW Intake	0 days	Mon 14/1/19	Mon 14/1/19			
209	Drainage construction under Chlorination area	21 days	Mon 14/1/19	Mon 11/2/19			
210	Bearing inspection by BD	45 days	Tue 12/2/19	Thu 28/3/19			
211	Foundation Construction of Chlorination area	45 days	Fri 29/3/19	Sun 12/5/19			
212	Above ground RC @ Chlorination area	21 days	Mon 13/5/19	Sun 2/6/19			
213	RC plinths & Backfill	14 days	Mon 3/6/19	Sun 16/6/19			
214	FS valve pipe + Reconstruct	45 days	Mon 17/6/19	Wed 31/7/19			
215	Drainage up to mid-way to MH831	14 days	Thu 1/8/19	Wed 14/8/19			
216	Divert Access to Intake	7 days	Thu 15/8/19	Wed 21/8/19			
217	Remain surfacae drainage FS pipe etc along CW Pump Pavement	30 days	Thu 22/8/19	Fri 20/9/19			
218	Road Reinstatement at Demin. Plant Road	30 days	Thu 15/8/19	Fri 13/9/19			
219	Relocation Hoarding to middle road and return area to GEN	14 days	Sat 14/9/19	Fri 27/9/19			
220	Urea Plant + Middle Road	269 days	Mon 31/12/18	Thu 3/10/19			
221	Handover for plant erection	0 days	Mon 31/12/18	Mon 31/12/18			
222	Building Services and raised floors for Urea Ele. Equip Room	14 days	Wed 2/1/19	Tue 15/1/19			
223	Cable Tray ready at Pipe rack for power laying	0 days	Mon 8/4/19	Mon 8/4/19			
224	Power laying and T&C for BS at Urea Ele. Equip Rm	30 days	Tue 9/4/19	Wed 8/5/19			
225	TDK Return area construction	0 days	Wed 8/5/19	Wed 8/5/19			
226	Removal of existing drainage U-Channel	21 days	Thu 9/5/19	Wed 29/5/19			
227	New Oily Drain installation and diversion of FS & foam pipe	75 days	Thu 30/5/19	Mon 12/8/19			
228	Storm Drain MH830a to MH809	12 days	Thu 1/8/19	Mon 12/8/19			
229	Storm Drain MH831 to MH830a	12 days	Tue 13/8/19	Sat 24/8/19			
230	Storm Drain MH832 & MH837 to MH831	12 days	Sun 25/8/19	Thu 5/9/19			
231	Storm Drain at Urea Pavement	12 days	Fri 6/9/19	Tue 17/9/19			
232	FS Pipe at West of Urea	14 days	Fri 6/9/19	Thu 19/9/19			
233	Conduits for steeltight and fs signal	14 days	Fri 6/9/19	Thu 19/9/19			
234	Road Kerb + Road Base + Paving	30 days	Sat 31/8/19	Sun 29/9/19			
235	Construction of RC bund wall, step, slab, etc.	40 days	Thu 9/5/19	Mon 17/6/19			
236	Erection of Removable Metal cladding	21 days	Tue 18/6/19	Mon 8/7/19			
237	Installation of folding shutters	21 days	Tue 23/7/19	Mon 12/8/19			
238	Urea Shelter BD approval + Consent	0 days	Fri 21/6/19	Fri 21/6/19			
239	Urea Shelter Fdn and superstructure	50 days	Fri 21/6/19	Fri 9/8/19			
240	TDK return Urea South for raod work	0 days	Wed 21/8/19	Wed 21/8/19			
241	installation of draw pits and Conduits	14 days	Wed 21/8/19	Tue 3/9/19			
242	Road & paving work	30 days	Wed 4/9/19	Thu 3/10/19			
243	Other & External works	343 days	Wed 2/1/19	Wed 18/12/19			18 Dec '19
244	Chimney Remaining Installation works for L10	90 days	Wed 2/1/19	Tue 9/4/19			
245	Return from ground treatment at North of Area B1 & D2	0 days	Mon 1/4/19	Mon 1/4/19			
246	New Pipe Rack foundation Under L11 Contract (FYI)	60 days	Tue 6/8/19	Fri 4/10/19			
247	Site Clearance for Paving at Middle Road to Chimney Rd	30 days	Sat 5/10/19	Sun 3/11/19			
248	Road Paving and other service reinstatement	45 days	Mon 4/11/19	Wed 18/12/19			

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Critical Split Task  Split Milestone ◆ Summary 

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

Appendix J



No.	Description	2019		2020
		Nov	Dec	Jan
	Erection Key Date			<div style="border: 1px solid black; width: 10px; height: 10px; margin: 0 auto;"></div> T/O 1-Jan
A	HRSG PORTION			
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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Appendix J



No.	Description	2019		2020
		Nov	Dec	Jan
	Erection Key Date			<div style="border: 1px solid black; width: 10px; height: 10px; margin: 0 auto;"></div> T/O 1-Jan
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			

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



No.	Description	2019		2020
		Nov	Dec	Jan
	Erection Key Date			<div style="border: 1px solid black; width: 10px; height: 10px; margin: 0 auto;"></div> T/O 1-Jan
	Installation of Temporary piping, Support & Silencer Exception of Steam blowing out Dismantle of Temporary piping, Support & Silencer Exception of Steam boiling out			
B	GT/ST/GEN PORTION			
B-1	Turbine O/H Crane			
B-2	Condenser			
B-3	Install ST			

SCHEDULE C. Contract No. 16/2209
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		Nov	Dec	Jan
	Erection Key Date			<div style="border: 1px solid black; width: 10px; height: 10px; margin: 0 auto;"></div> T/O 1-Jan
B-4	Install GEN			
B-5	Install GT			

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Appendix J



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		Nov	Dec	Jan
	Erection Key Date			<div style="border: 1px solid black; width: 10px; height: 10px; margin: 0 auto;"></div> T/O 1-Jan
B-6	Aux Equipment			
B-7	Insulation			
B-8	Painting			
B-9	Switchgear/Hoist/Hoist for condenser			

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No.	Description	2019		2020
		Nov	Dec	Jan
	Erection Key Date			<div style="border: 1px solid black; width: 10px; height: 10px; margin: 0 auto;"></div> T/O 1-Jan
C	ERECTION & INSTRUMENTATION PORTION			
C-1	Transformer & Ancillaries (G Tx, U Tx, Ex Tx, SFC Tx)			
C-2	EQUIPMENT INSTALLATION			
	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	CABLING SYSTEM INSTALLATION			
	Cable Ladder / Tray Installation			
	Conduit Pipe Installation			
	Earthing Installation			
	Cable Laying & Termination			
	Fire Resistant Sealing			
	Cable Trench Opening & Transportation			

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



No.	Description	2019		2020
		Nov	Dec	Jan
	Erection Key Date			 T/O 1-Jan
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	Timeline		
					November 2019	December 2019	January 2020
1	Civil and Building Works for Unit 11 and Associated Works	1197 days	Fri 1/6/18	Thu 30/9/21			
2	Contract Key Dates	1197 days	Fri 1/6/18	Thu 30/9/21			
3	Contract Commencement Date	0 days	Fri 1/6/18	Fri 1/6/18			
4	Completion Dates	1044 days	Wed 31/10/18	Thu 30/9/21			
5	Section A1 - Ground treatment installation works at Zone 1A	0 days	Wed 31/10/18	Wed 31/10/18			
6	Section A2 - Ground treatment installation works at Zone 1B	0 days	Wed 31/10/18	Wed 31/10/18			
7	Section A3 - Ground treatment installation works at Zone 2	0 days	Sun 17/3/19	Sun 17/3/19			
8	Section A4 - Ground treatment installation works at Zone 3	0 days	Thu 21/3/19	Thu 21/3/19			
9	Section A5 (i) - Ground treatment installation works at Zone 4 - Band drain installation	0 days	Thu 28/3/19	Thu 28/3/19			
10	Section A5 (ii) - Ground treatment installation works at Zone 4 - Surcharge filling	0 days	Wed 30/9/20	Wed 30/9/20			
11	Section A6 (i) - A&A Works for No. 4 C.W. Outfall at Area E18	0 days	Sat 28/3/20	Sat 28/3/20			
12	Section A6 (ii) - External works at Area E15	0 days	Sat 15/2/20	Sat 15/2/20			
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	Sun 1/3/20	Sun 1/3/20			
14	Section B1 (ii) - Supporting structures for overhead cranes of L11 MSB including the associated roof structure except the roof deferred works	0 days	Tue 17/3/20	Tue 17/3/20			
15	Section B1 (iii) - FSRU Civil works at Area E13	0 days	Mon 31/5/21	Mon 31/5/21			
16	Section B2 - Retractable Cover D at Area E22	0 days	Tue 31/3/20	Tue 31/3/20			
17	Section B3 - External works at Area B1, D2 and D4	0 days	Thu 30/4/20	Thu 30/4/20			
18	Section C1 - Area south of L11 MSB from GL11-F westwards leading to Station Road at Area E3(A) & E3(B)	0 days	Sun 1/3/20	Sun 1/3/20			
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	Sun 1/12/19	Sun 1/12/19			
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	Thu 30/4/20	Thu 30/4/20			
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	Sun 1/3/20	Sun 1/3/20			
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	Tue 31/12/19	Tue 31/12/19			
23	Section D - (ii) Remaining northern part of L11 HRSG area and its surrounding in Area E6	0 days	Sun 1/3/20	Sun 1/3/20			
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	Thu 30/4/20	Thu 30/4/20			
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	Thu 30/4/20	Thu 30/4/20			
26	Section D - (v) Gas Duct Foundation, Pipe and Cable Rack and associated trench in Area E20	0 days	Sat 1/2/20	Sat 1/2/20			
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	Mon 28/9/20	Mon 28/9/20			
28	Section E1 - (ii) Gas Receiving Station and L11 Gas Receiving Station Equipment Room (GRS) Area Extension at Area E16	0 days	Tue 30/6/20	Tue 30/6/20			
29	Section E1 - (iii) External Works at Area E15 (C)	0 days	Sun 28/2/21	Sun 28/2/21			
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	Thu 17/9/20	Thu 17/9/20			
31	Section E3 - Gas Pipe Support Foundation and Pipe Trench and associated external works at Area E14, E15 (A) and E15 (B)	0 days	Tue 30/6/20	Tue 30/6/20			
32	Section E4 - 275kV cable trenching works connecting the 275kV Switching Station Extension and L11 MSB at Area E9 (A)	0 days	Sun 15/9/19	Sun 15/9/19			
33	Section F - 275kV Station Building Extension and associated works at Area E17	0 days	Sat 30/5/20	Sat 30/5/20			
34	Section G - A&A Works at No. 4 C.W. Intake at Area E12	0 days	Sun 31/5/20	Sun 31/5/20			
35	Section H - L11 Steel flue liner at No. 4 Chimney	0 days	Mon 15/7/19	Mon 15/7/19			

◆ Section C2 - (i) Southern part of L11 HRSG area and its surrounding at Area E7 except the deferred works

◆ 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

Station Extension and L11 MSB at Area E9 (A)

ID	Task Name	Duration	Start	Finish	Gantt Chart		
					November 2019	December 2019	January 2020
36	Section I - (i) 275kV cable trenching works connecting the 275kV Switching Station Extension and L11 MSB at Area E9 (B)	0 days	Fri 15/5/20	Fri 15/5/20			
37	Section I - (ii) Interconnector 2 Trench Modification Works at Area E10	0 days	Fri 15/5/20	Fri 15/5/20			
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	Fri 30/4/21	Fri 30/4/21			
39	Section K1 - External works at Area 15 (E) and 15(F)	0 days	Mon 31/5/21	Mon 31/5/21			
40	Section K2 - Removal of Southern Bund and External Works at Area D5, D6 and D7	0 days	Mon 31/5/21	Mon 31/5/21			
41	Section K3 - All remaining works shall be completed for reporting completion to BD and ready for OP inspection	0 days	Thu 30/9/21	Thu 30/9/21			
42	General & Preliminary	318 days	Fri 1/6/18	Wed 24/4/19			
43	Set up Temporary Site Office and Utilities	90 days	Fri 1/6/18	Wed 29/8/18			
44	Permit Applications & Statuary Submissions	120 days	Thu 30/8/18	Thu 27/12/18			
45	Existing Utilities scanning & Excavation Permit	45 days	Tue 13/11/18	Thu 27/12/18			
46	Tower Crane erection 2@MSB, 1@ 275	50 days	Wed 6/3/19	Wed 24/4/19			
47	Submission and Approval	554 days	Fri 1/6/18	Mon 16/12/19			
48	Method Statement / Temp Work Submission & Approval from HEC for General Works	240 days	Fri 1/6/18	Sat 26/1/19			
49	BD Approval & Consent (If required)	120 days	Fri 1/6/18	Fri 28/9/18			
50	BIM Model, CSD & CBWD Submission & Approval from HEC	200 days	Sat 29/9/18	Fri 26/4/19			
51	Structure Steelwork Connection Design Submission & BD Approval	60 days	Sat 29/9/18	Tue 27/11/18			
52	Structure Steelwork Shop Drawing & Approval	60 days	Sat 13/10/18	Tue 11/12/18			
53	Metal Cladding, louvre & windows submission & BD Approval	60 days	Wed 28/11/18	Sat 26/1/19			
54	Metal Cladding, louvre & windows shop drawing submission	60 days	Wed 12/12/18	Tue 19/2/19			
55	Order, Off Site Fabrication and Delivery (S. Steel & Cladding & louvres)	180 days	Sat 27/10/18	Sat 4/5/19			
56	Retractable Cover D BD Submission & Approval	90 days	Wed 20/2/19	Mon 20/5/19			
57	No. 4 C.W. Outfall A&A BD 1st Submission	90 days	Thu 30/8/18	Tue 27/11/18			
58	Submission & Approval of Steel Flue Assessment Report and Design Drawings	60 days	Sun 30/9/18	Wed 28/11/18			
59	Submission and Approval of Steel Flue Design from BD	60 days	Sun 30/9/18	Wed 28/11/18			
60	Material Fabrication & Delivery for L11 Flue	100 days	Mon 15/10/18	Tue 22/1/19			
61	Folding Shutters Shop Drawing Submission & Approval	120 days	Wed 20/2/19	Wed 19/6/19			
62	Fabrication & Delivery of Folding Shutters	150 days	Thu 20/6/19	Sat 16/11/19			
63	Sewage Pump System Design submission & approval	90 days	Fri 22/3/19	Wed 19/6/19			
64	Fabrication & Delivery of Sewage Pump	180 days	Thu 20/6/19	Mon 16/12/19			
65	Other material submission & approval & delivery	300 days	Thu 30/8/18	Fri 5/7/19			
66	Coordination with the Employer's Specialist Contractors	478 days	Mon 20/5/19	Sat 19/9/20			
67	Installation of Puddle Pipes at C.W. outlet Culvert	7 days	Mon 20/5/19	Sun 26/5/19			
68	Installation of Puddle Pipes at C.W. Inlet Culvert	7 days	Sun 7/7/19	Sat 13/7/19			
69	Template setting at L11 Turbo Block Foundation	60 days	Wed 1/1/20	Mon 9/3/20			
70	Template setting of holding down bolts at HRSG column base	46 days	Tue 23/7/19	Fri 6/9/19			
71	I-beam / channel base installation on top of transformer foundations at Transformer Area	30 days	Fri 17/4/20	Sat 16/5/20			
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	Sun 1/12/19	Tue 7/1/20			
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	Sun 1/3/20	Sun 5/7/20			
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	Fri 1/5/20	Sat 19/9/20			
75	Installation of embedded materials such as holding down bolts for equipment foundations - Commencement	30 days	Sun 23/6/19	Mon 22/7/19			
76	Section A1 & A2 - Ground treatment at Zone 1A & 1B	92 days	Wed 1/8/18	Wed 31/10/18			
77	Plant establishment for earthworks	7 days	Wed 1/8/18	Tue 7/8/18			
78	Backfilling and compaction from existing ground +4.5mPD to +5.5mPD	45 days	Wed 8/8/18	Fri 21/9/18			
79	Delivery of band drain	5 days	Wed 29/8/18	Sun 2/9/18			
80	Plant establishment for band drain (1st rig)	10 days	Mon 3/9/18	Wed 12/9/18			
81	Plant establishment for band drain (2nd rig)	7 days	Thu 20/9/18	Wed 26/9/18			
82	Plant establishment for band drain (3rd rig)	7 days	Thu 11/10/18	Wed 17/10/18			

ID	Task Name	Duration	Start	Finish	November 2019			December 2019			January 2020			
83	Vert. Band drain installation (1023 nos. x 44m)	45 days	Thu 13/9/18	Sat 27/10/18										
84	Deposition of surcharge up to +8.3mPD	45 days	Mon 17/9/18	Wed 31/10/18										
85	Section A3 - Ground treatment installation works at Zone 2	158 days	Mon 1/10/18	Sun 17/3/19										
86	Backfilling and compaction from existing ground +4.5mPD to +5.5mPD	30 days	Mon 1/10/18	Tue 30/10/18										
87	Delivery of band drain	6 days	Thu 18/10/18	Tue 23/10/18										
88	Vert. Band drain installation (1787 nos. x 44m)	50 days	Wed 24/10/18	Wed 12/12/18										
89	Deposition of surcharge up to +8.3mPD	60 days	Mon 3/12/18	Thu 31/1/19										
90	Additional Concrete Blocks + Extra Surcharge	60 days	Mon 7/1/19	Sun 17/3/19										
91	Section A4 - Ground treatment installation works at Zone 3	131 days	Thu 1/11/18	Thu 21/3/19										
92	Backfilling and compaction from existing ground +4.5mPD to +5.5mPD	12 days	Thu 1/11/18	Mon 12/11/18										
93	Vert. Band drain installation	60 days	Fri 9/11/18	Mon 7/1/19										
94	Deposition of surcharge up to +8.3mPD	45 days	Tue 18/12/18	Thu 31/1/19										
95	Possession of Part 1 Defer portion at Zone 3	0 days	Wed 20/2/19	Wed 20/2/19										
96	Vert. Band drain installation	10 days	Wed 20/2/19	Fri 1/3/19										
97	Possession of Part 2 Defer portion at Zone 3	0 days	Fri 1/3/19	Fri 1/3/19										
98	Vert. Band drain installation	7 days	Fri 1/3/19	Thu 7/3/19										
99	Surcharge at deferred portion	14 days	Fri 8/3/19	Thu 21/3/19										
100	Section A5 (i) - Ground treatment installation works at Zone 4	83 days	Wed 26/12/18	Thu 28/3/19										
101	Site Preparation for Vertical Band Drain	3 days	Tue 1/1/19	Thu 3/1/19										
102	Band drain installation	21 days	Wed 26/12/18	Tue 15/1/19										
103	Possession of Defer portion at Zone 4	0 days	Fri 1/3/19	Fri 1/3/19										
104	Vert. Band drain installation	28 days	Fri 1/3/19	Thu 28/3/19										
105	Section A5 (ii) - Surcharge works at Zone 4	30 days	Tue 1/9/20	Wed 30/9/20										
106	Deposition of surcharge up to +8.3mPD	30 days	Tue 1/9/20	Wed 30/9/20										
107	Section A6 (i) - A&A Works for No. 4 C.W. Outfall at Area E18	493 days	Thu 1/11/18	Sat 28/3/20										
108	BD Amendment, resubmission & approval for Jacking Pit	170 days	Thu 1/11/18	Mon 29/4/19										
109	Consent for Jacking Pit ELS	28 days	Sat 20/4/19	Fri 17/5/19										
110	Mobilization	0 days	Sat 15/12/18	Sat 15/12/18										
111	Jacking Pit Sheetpile Installation (incl. Stop work notice + CNY)	60 days	Sun 16/12/18	Sat 23/2/19										
112	Protective screen and preventive measure for U9 gas pipeline (VO)	28 days	Sun 24/2/19	Sat 23/3/19										
113	Provision of temp support for U10 gas pipeline (VO) upon RMA allow access	28 days	Sun 14/4/19	Sat 11/5/19										
114	ELS of jacking pit	30 days	Sat 18/5/19	Sun 16/6/19										
115	Pipe Jacking set up & ground strengthening	18 days	Mon 17/6/19	Thu 4/7/19										
116	Pipe Jacking	90 days	Tue 10/9/19	Sun 8/12/19										
117	Receiving Pit BD Approval	170 days	Sun 25/11/18	Thu 23/5/19										
118	Consent for Pipe & Sheet pile	28 days	Tue 14/5/19	Mon 10/6/19										
119	Receiving Pit Pipe & Sheet pile installation	30 days	Tue 11/6/19	Wed 10/7/19										
120	Consent for Receiving Pit ELS	28 days	Thu 4/7/19	Wed 31/7/19										
121	ELS of Receiving pit	40 days	Thu 1/8/19	Mon 9/9/19										
122	Allow modify existing outfall manhole for pipe jacking receiving	18 days	Tue 10/9/19	Fri 27/9/19										
123	Culvert Pipe Intallation & water test	55 days	Mon 9/12/19	Wed 12/2/20										
124	Inspection Manhole at Jacking Pit + backfill (Area E3(A))	18 days	Thu 13/2/20	Sun 1/3/20										
125	Manhole extension at Outfall no. 4 + backfill + Reinstate of Outfall Rd	45 days	Thu 13/2/20	Sat 28/3/20										
126	Sheetpile for L12 Outlet culvert (Connection to Jacking Pit)	45 days	Mon 15/7/19	Wed 28/8/19										
127	Consent + ELS for remaining jacking pit	75 days	Thu 29/8/19	Mon 11/11/19										
128	Outlet Culvert pipe installation + Thrust Box (remaining portion at A1 Area)	45 days	Tue 12/11/19	Sat 28/12/19										
129	Sheet pile for future extension along GRS	60 days	Thu 29/8/19	Sun 27/10/19										
130	Section A6 (ii) - External works at Area E15(D)	37 days	Wed 1/1/20	Sat 15/2/20										
131	Area possession & Clearance	6 days	Wed 1/1/20	Mon 6/1/20										
132	Road & Surface Works	31 days	Tue 7/1/20	Sat 15/2/20										
133	Section B1 (i) - Area south of L11 MSB and HRSG from GL11-F eastwards leading to Chimney Road at Area E1 & E2	375 days	Thu 31/1/19	Sun 1/3/20										
134	Area Possession & Clearance	0 days	Thu 31/1/19	Thu 31/1/19										
135	Excavation for CW Inlet Culvert (South of L11 HRSG)	21 days	Tue 16/4/19	Mon 6/5/19										
136	Installation CW Inlet Culvert pipe	30 days	Tue 7/5/19	Wed 5/6/19										
137	Construction of Thrust Box & Manholes,etc	14 days	Thu 6/6/19	Wed 19/6/19										
138	Backfill	21 days	Thu 20/6/19	Wed 10/7/19										
139	Install underground utilities	45 days	Mon 30/9/19	Wed 13/11/19										
140	Backfill and Temporary paving for Condensor Move in (E1)	14 days	Mon 17/2/20	Sun 1/3/20										
141	Backfill and Temporary paving for Condensor Move in (others)	30 days	Sat 1/2/20	Sun 1/3/20										
142	Section B1 (ii) - Supporting structures for overhead cranes of L11 MSB including the associated roof structure except the roof deferred works	482 days	Thu 1/11/18	Tue 17/3/20										
143	Area possession & Clearance	0 days	Thu 1/11/18	Thu 1/11/18										

ID	Task Name	Duration	Start	Finish	November 2019			December 2019			January 2020		
144	Erection of turbine hall roof except defer work	0 days	Wed 13/11/19	Wed 13/11/19	Erection of turbine hall roof except defer work								
145	Installation of crane griders	21 days	Mon 11/11/19	Sun 1/12/19	Installation of crane griders								
146	Turbine hall wall claddings	60 days	Thu 9/1/20	Tue 17/3/20									
147	Section B1 (iii) - FSRU Civil works at Area E13 (GRS)	151 days	Fri 1/1/21	Mon 31/5/21									
148	Submission and approval for consent to work	0 days	Fri 1/1/21	Fri 1/1/21									
149	Civil & Building Works	130 days	Fri 1/1/21	Mon 10/5/21									
150	Ground reinstatement	21 days	Tue 11/5/21	Mon 31/5/21									
151	Section B2 - Retractable Cover D at Area E22	435 days	Tue 1/1/19	Tue 31/3/20	c.B2								
152	Area Possession, Demolition and clearance work	60 days	Tue 1/1/19	Mon 11/3/19									
153	Revise Structural Form and BD resubmission & approval	150 days	Tue 12/3/19	Thu 8/8/19									
154	Foundation construction	60 days	Fri 9/8/19	Mon 7/10/19									
155	Backfill & Ground reinstatement	30 days	Tue 8/10/19	Wed 6/11/19	Backfill & Ground reinstatement								
156	Superstructure fabrication & delivery	90 days	Fri 9/8/19	Wed 6/11/19	Superstructure fabrication & delivery								
157	Superstructure erection	90 days	Thu 7/11/19	Sat 15/2/20									
158	E&M Installation and T&C	45 days	Sun 16/2/20	Tue 31/3/20									
159	Section B3 - External works at Area B1, D2 and D4	416 days	Fri 1/3/19	Thu 30/4/20	c.B3								
160	Receive Area from HKE, Area Possession & Clearance	0 days	Fri 1/3/19	Fri 1/3/19									
161	Removal of existing paving for band drain under Section A5(i)	30 days	Fri 1/3/19	Sat 30/3/19									
162	Complete Vert. Band drain under Section A5(i)	0 days	Thu 28/3/19	Thu 28/3/19									
163	Ground preparation for B1, D2 & D4 for handover to Plant contractor	90 days	Sat 1/2/20	Thu 30/4/20									
164	Section C1 - Area south of L11 MSB from GL11-F westwards leading to Station Road at Area E3(A) & E3(B)	466 days	Thu 1/11/18	Sun 1/3/20	c.C1								
165	Area Possession & Clearance	0 days	Thu 1/11/18	Thu 1/11/18									
166	Excavation for Type C (Area E3A)	21 days	Tue 26/3/19	Mon 15/4/19									
167	Installation CW Outlet Culvert Pipe connect to Type C1	21 days	Tue 16/4/19	Mon 6/5/19									
168	Installation CW Inlet Culvert pipe (South of L11 Condensor)	21 days	Mon 20/5/19	Sun 9/6/19									
169	Construction of Thrust Box	10 days	Mon 10/6/19	Wed 19/6/19									
170	Construction of Access Manhole	21 days	Mon 10/6/19	Sun 30/6/19									
171	Backfill	14 days	Mon 1/7/19	Sun 14/7/19									
172	Construction of Underground drainage and utilities	60 days	Thu 7/11/19	Tue 7/1/20							Construction of Underground drainage a		
173	Construct Temp Paving for Condenser move in	45 days	Wed 8/1/20	Sun 1/3/20									
174	Section C2 - (i) Southern part of L11 HRSG area and its surrounding at Area E7 (No Defer Foundations)	295 days	Thu 31/1/19	Sun 1/12/19	c.C2(i)			1 Dec '19					
175	Area Possession & Clearance	0 days	Thu 31/1/19	Thu 31/1/19									
176	Excavation & Pile Caps & Tie Beams (HRSG South Area E7)	45 days	Sun 19/5/19	Tue 2/7/19									
177	Construction RC foundations	45 days	Tue 9/7/19	Thu 22/8/19									
178	Construction RC plinths	30 days	Fri 23/8/19	Sat 21/9/19									
179	Construction underground utilities	45 days	Fri 23/8/19	Sun 6/10/19									
180	Backfill & Construction on-grade slabs	35 days	Mon 7/10/19	Sun 10/11/19	Backfill & Construction on-grade slabs								
181	Backfill and Temporary paving	21 days	Mon 11/11/19	Sun 1/12/19	Backfill and Temporary paving								
182	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	496 days	Sat 1/12/18	Thu 30/4/20	c.C2(ii)								
183	Area Possession & Clearance	0 days	Sat 1/12/18	Sat 1/12/18									
184	Excavation & Pile Caps & Tie Beams (MSBL11 - Turbo Block North)	70 days	Mon 14/1/19	Wed 3/4/19									
185	Excavation & Pile Caps & Tie Beams (MSBL11 - Turbo Block South)	30 days	Wed 10/7/19	Thu 8/8/19									
186	Backfill and construction turbine block foundations	21 days	Fri 9/8/19	Thu 29/8/19									
187	Construction of internal drainage	60 days	Fri 9/8/19	Mon 7/10/19									
188	Construction RC walls incl. G/F rooms	90 days	Tue 8/10/19	Tue 7/1/20							Construction RC walls incl. G/F rooms		
189	Construction turbine block columns and upper portion for plant embed installation	21 days	Mon 9/9/19	Sun 29/9/19	for plant embed installation								
190	Concrete Turbine upper part foundation & clear falsework	52 days	Tue 10/3/20	Thu 30/4/20									
191	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	466 days	Thu 1/11/18	Sun 1/3/20	c.C2(iii)								
192	Area Possession & Clearance	0 days	Thu 1/11/18	Thu 1/11/18									
193	Excavation to foundation level at ELS Type A	18 days	Sat 13/4/19	Tue 30/4/19									
194	Construction of CW Outlet Box + lowest tie beam & caps	40 days	Wed 1/5/19	Sun 9/6/19									
195	Construction of pile caps & tie beams & hot well sump pit up to +2.5mPD	30 days	Mon 10/6/19	Tue 9/7/19									
196	Backfill & Construction of CW Inlet Box + tie beams	18 days	Wed 10/7/19	Sat 27/7/19									

ID	Task Name	Duration	Start	Finish	November 2019	December 2019	January 2020
197	Backfill and Construction ground beams & trenches	18 days	Sun 28/7/19	Wed 14/8/19			
198	Construction of indoor underground drainage	12 days	Thu 15/8/19	Mon 26/8/19			
199	Backfill & construction on-grade slabs	10 days	Tue 27/8/19	Thu 5/9/19			
200	Construction Column casting and RC walls	30 days	Mon 30/9/19	Tue 29/10/19			
201	Metal Cladding & Louvres for GLB-C/1-6	60 days	Thu 28/11/19	Thu 6/2/20			
202	Mis. Works for plant erection	24 days	Fri 7/2/20	Sun 1/3/20			
203	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	414 days	Thu 1/11/18	Tue 31/12/19	c.D(i)		
204	Area Possession & Clearance	14 days	Thu 1/11/18	Wed 14/11/18			
205	Excavation for Type C1 and open sheet pile	75 days	Mon 14/1/19	Mon 8/4/19			
206	Install CW Outlet pipe & connect to previous	21 days	Tue 16/4/19	Mon 6/5/19			
207	Backfill	10 days	Tue 7/5/19	Thu 16/5/19			
208	Undeground utilities and trenches	60 days	Wed 3/7/19	Sat 31/8/19			
209	Construction of plant drainage, trenches & RC plinths	45 days	Sun 1/9/19	Tue 15/10/19			
210	Remaining Undeground utilities & backfill (West of Tx Bay)	75 days	Wed 16/10/19	Tue 31/12/19			
211	Section D - (ii) Remaining northern part of L11 HRSG area and its surrounding in Area E6	375 days	Thu 31/1/19	Sun 1/3/20	c.D(ii)		
212	Area Possession & Clearance	0 days	Thu 31/1/19	Thu 31/1/19			
213	Excavation & Pits & Pile Caps & Tie Beams (HRSG north Area E6)	45 days	Thu 4/4/19	Sat 18/5/19			
214	Construction RC foundations	45 days	Sun 19/5/19	Tue 2/7/19			
215	Construction RC plinths & HRSG Lift Pit & internal drainage	60 days	Sun 9/6/19	Wed 7/8/19			
216	Backfill Construction on-grade slabs	28 days	Thu 8/8/19	Wed 4/9/19			
217	Construction underground utilities	45 days	Thu 5/9/19	Sat 19/10/19			
218	Backfill, Remaining utilities and temporary paving	85 days	Thu 14/11/19	Mon 17/2/20			
219	Touch up and site clearance	13 days	Tue 18/2/20	Sun 1/3/20			
220	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	526 days	Thu 1/11/18	Thu 30/4/20	c.D(iii)		
221	Area Possession & Clearance	0 days	Thu 1/11/18	Thu 1/11/18			
222	Construction of pile caps & tie beams at Transformer Area	60 days	Thu 15/11/18	Sun 13/1/19			
223	Excavation & Construction Blow Down Sum pit (Type B)	45 days	Thu 4/4/19	Sat 18/5/19			
224	Construction of pile caps & tie beams at SunShadeCover Area	45 days	Wed 10/7/19	Fri 23/8/19			
225	Preparation for S.Steelwork Erection	14 days	Wed 3/7/19	Tue 16/7/19			
226	Structural Delivery & Erection (Turbine Hall North fr G.L. 1-3/H->B)	30 days	Wed 17/7/19	Thu 15/8/19			
227	Structural Delivery & Erection (Equipment Floors)	45 days	Fri 16/8/19	Sun 29/9/19			
228	Structural Delivery & Erection (Turbine Hall South)	45 days	Mon 30/9/19	Wed 13/11/19			
229	Fire Coating Application at Joint	120 days	Fri 16/8/19	Fri 13/12/19			
230	External Scaffolding Erection	150 days	Wed 31/7/19	Sun 29/12/19			
231	Construction 1/F RC Slab	14 days	Mon 30/9/19	Sun 13/10/19			
232	Construction M/F RC Slab	7 days	Mon 14/10/19	Sun 20/10/19			
233	Construction 2/F RC Slab	14 days	Mon 14/10/19	Sun 27/10/19			
234	Construction 3/F RC Slab	14 days	Mon 28/10/19	Sun 10/11/19			
235	Construction 4/F RC Slab	14 days	Mon 11/11/19	Sun 24/11/19			
236	Construction 5/F RC Slab (Roof of turbine hall, except defer portion)	30 days	Mon 25/11/19	Tue 24/12/19			
237	Construction Roof RC Slab	14 days	Mon 9/12/19	Sun 22/12/19			
238	Construction Upper Roof RC Slab	12 days	Fri 27/12/19	Tue 7/1/20			
239	Construction Defer Roof RC Slab (G.L. G-H)	30 days	Wed 8/1/20	Sat 15/2/20			
240	Construction of Staircase ST-01 & lift shaft & machine room	120 days	Fri 30/8/19	Sun 29/12/19			
241	Construction of Staircase ST-02 except defer work	76 days	Mon 28/10/19	Mon 13/1/20			
242	Construction of RC plinth, kerbs & parapet Walls	30 days	Fri 7/2/20	Sat 7/3/20			
243	Erection of Skylight & Roof Features	45 days	Fri 21/2/20	Sun 5/4/20			
244	Waterproofing & Flooring at Roof	60 days	Wed 8/1/20	Mon 16/3/20			
245	ABFW Works from 1/F to 5/F equipment rooms	150 days	Mon 21/10/19	Sun 29/3/20			
246	Metal Cladding, Windows and Louvres incl. roof feature	100 days	Thu 28/11/19	Tue 17/3/20			
247	Removal of external scaffolding	60 days	Mon 17/2/20	Thu 16/4/20			
248	Building Services E&M Access & Installation	150 days	Mon 4/11/19	Sun 12/4/20			
249	Remaining and Mis. works for Plant erection Full Access	18 days	Mon 13/4/20	Thu 30/4/20			
250	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	526 days	Thu 1/11/18	Thu 30/4/20	c.D(iv)		

ID	Task Name	Duration	Start	Finish	November 2019			December 2019			January 2020		
251	Area Possession & Clearance	0 days	Thu 1/11/18	Thu 1/11/18									
252	A&A works at South of L10 MSB	60 days	Thu 28/11/19	Fri 7/2/20									
253	Erection of link bridge structural steel	21 days	Fri 7/2/20	Thu 27/2/20									
254	Casting of bridge deck	7 days	Fri 28/2/20	Thu 5/3/20									
255	Metal roofing installation	14 days	Fri 6/3/20	Thu 19/3/20									
256	ABWF work	21 days	Fri 20/3/20	Thu 9/4/20									
257	Form new opening at MSB for final connection	14 days	Fri 27/3/20	Thu 9/4/20									
258	E&M Work for completion	21 days	Fri 10/4/20	Thu 30/4/20									
259	Section D - (v) Gas Duct Foundation, Pipe and Cable Rack and associated trench in Area E20	345 days	Mon 11/2/19	Sat 1/2/20	c.D(v)								
260	Area Possession & Clearance + CNY	0 days	Mon 11/2/19	Mon 11/2/19									
261	Sheet pile installation & submit as-built	75 days	Mon 11/2/19	Fri 26/4/19									
262	Consent for excavation	28 days	Sat 27/4/19	Fri 24/5/19									
263	Excavation & plate load test	45 days	Sat 1/6/19	Mon 15/7/19									
264	Construction of foundation	45 days	Tue 16/7/19	Thu 29/8/19									
265	Backfill & Underground utitilies	30 days	Fri 30/8/19	Sat 28/9/19									
266	Remaining Pipe & cable rack and associated trenches in Area E20	115 days	Sun 29/9/19	Sat 1/2/20									
267	Section E1 - (i) Link BrIdge and Pipe and Cable Rack connecting L11 MSB to the western area of L11 MSB at Area E3	263 days	Wed 1/1/20	Mon 28/9/20	1 Jan '20 Sec.E1(i)								
268	Area Possession	0 days	Wed 1/1/20	Wed 1/1/20	Area Possession								
269	Excavation & construction of new foundation	40 days	Wed 1/1/20	Tue 18/2/20									
270	Backfill	10 days	Wed 19/2/20	Fri 28/2/20									
271	Erection of Structural steel	30 days	Mon 6/7/20	Tue 4/8/20									
272	Backfill & Ground works	55 days	Wed 5/8/20	Mon 28/9/20									
273	Section E1 - (ii) Gas Receiving Station and L11 Gas Receiving Station Equipment Room (GRS) Area Extension at Area E16	173 days	Wed 1/1/20	Tue 30/6/20	1 Jan '20 Sec.E1(ii)								
274	Area Possession	0 days	Wed 1/1/20	Wed 1/1/20	Area Possession								
275	Removal of Surcharge and excavation	14 days	Wed 1/1/20	Tue 14/1/20	Removal of Surcharge and excavation								
276	Modification of Site Drainage	45 days	Wed 15/1/20	Sun 8/3/20									
277	Construction of new RC for GRS Equipment Room	75 days	Tue 14/1/20	Mon 6/4/20									
278	ABWF for GRS Equipment room	45 days	Tue 7/4/20	Thu 21/5/20									
279	E&M Installation	45 days	Sun 17/5/20	Tue 30/6/20									
280	Construction of new Gas pipe plinths & racks	45 days	Sat 22/2/20	Mon 6/4/20									
281	Backfill and construction site drainage	21 days	Tue 7/4/20	Mon 27/4/20									
282	External Paving and install new fencing	60 days	Sat 2/5/20	Tue 30/6/20									
283	Section E1 - (iii) External Works at Area E15 (C)	273 days	Mon 1/6/20	Sun 28/2/21									
284	Removal of Surcharge and excavation	45 days	Mon 1/6/20	Wed 15/7/20									
285	Underground drianage, Utilities and RC plinths	123 days	Thu 16/7/20	Sun 15/11/20									
286	Backfill and install surface utilities	45 days	Mon 16/11/20	Wed 30/12/20									
287	Roadwork	60 days	Thu 31/12/20	Sun 28/2/21									
288	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	495 days	Wed 1/5/19	Thu 17/9/20	c.E2								
289	BD consent + Site Possession @ Area E8	0 days	Wed 1/5/19	Wed 1/5/19									
290	Excavation & Plate load test	60 days	Wed 1/5/19	Sat 29/6/19									
291	Foundation and Trench constructions	90 days	Sun 30/6/19	Fri 27/9/19									
292	Backfill & underground utitiles + temp paving	60 days	Sat 28/9/19	Tue 26/11/19	Backfill & underground utitiles + temp paving								
293	Excavation & plate load test @ E19	60 days	Wed 27/11/19	Wed 5/2/20									
294	Construction of foundations & trenches	45 days	Thu 6/2/20	Sat 21/3/20									
295	Backfill & underground utitiles	60 days	Sun 22/3/20	Wed 20/5/20									
296	Pipe & cable rack Erection	60 days	Thu 21/5/20	Sun 19/7/20									
297	Ground reinstatement	60 days	Mon 20/7/20	Thu 17/9/20									
298	Section E3 - Gas Pipe Support Foundation and Pipe Trench and associated external works at Area E14, E15 (A) and E15 (B)	173 days	Wed 1/1/20	Tue 30/6/20	1 Jan '20 Sec.E3								
299	Removal of surcharge / site clearance	21 days	Wed 1/1/20	Tue 21/1/20	Removal of surcharge								
300	Excavation & construction of pipe trench	30 days	Wed 22/1/20	Sat 29/2/20									
301	Construction of gas pipe support foundation	30 days	Sun 1/3/20	Mon 30/3/20									
302	Construction of underground drainage and utilities	60 days	Tue 31/3/20	Fri 29/5/20									
303	Backfill & road work	32 days	Sat 30/5/20	Tue 30/6/20									
304	Section E4 - 275kV cable trenching works connecting the 275kV Switching Station Extension and L11 MSB at Area E9 (A)	185 days	Fri 15/3/19	Sun 15/9/19									
305	Site possession	0 days	Fri 15/3/19	Fri 15/3/19									

ID	Task Name	Duration	Start	Finish	Timeline		
					November 2019	December 2019	January 2020
306	Obtain Permit to work & Road close permit	10 days	Fri 15/3/19	Sun 24/3/19			
307	Excavation & construction new cable trench to 275kV	45 days	Mon 25/3/19	Wed 8/5/19			
308	Excavation & construction new cable trench to L11MSB	130 days	Thu 9/5/19	Sun 15/9/19			
309	Section F - 275kV Station Building Extension and associated works at Area E17	709 days	Fri 1/6/18	Sat 30/5/20	c.F		
310	Installation of ELS for 275kV Switching Station near Staircase ST-3 and ST-6	14 days	Fri 1/6/18	Thu 14/6/18			
311	Construction of Staircase ST-3	110 days	Fri 15/6/18	Tue 2/10/18			
312	BD Amendment Approval on A&A	0 days	Mon 17/12/18	Mon 17/12/18			
313	BD Amendment Approval on A&A ST3 & Drainage	0 days	Mon 4/2/19	Mon 4/2/19			
314	OP inspection of Staircase ST-3	14 days	Mon 11/2/19	Sun 24/2/19			
315	Consent of New Foundation Works (Stage 1)	0 days	Fri 19/10/18	Fri 19/10/18			
316	Consent & BA10 for Demolition of Existing Staircase	0 days	Fri 8/3/19	Fri 8/3/19			
317	Demolition of Existing Staircase and Submit BA14A	14 days	Sat 9/3/19	Fri 22/3/19			
318	BD inspection for BA14A & Issue OP	28 days	Sat 23/3/19	Fri 19/4/19			
319	Consent & BA10 for New Foundation Work (Stage 2)	28 days	Sat 13/4/19	Fri 10/5/19			
320	Hoarding Modification	7 days	Fri 19/10/18	Thu 25/10/18			
321	Pile Cap & Tie Beam Construction (Stage 1)	98 days	Fri 26/10/18	Thu 31/1/19			
322	Erection of Tower Crane	40 days	Mon 11/2/19	Fri 22/3/19			
323	Pile Cap and Tie Beam (Stage 2)	21 days	Sat 11/5/19	Fri 31/5/19			
324	RC Construction up to 1/F (Stage 1)	30 days	Sat 11/5/19	Sun 9/6/19			
325	RC Construction up to 1/F (Stage 2)	75 days	Sat 1/6/19	Wed 14/8/19			
326	Construction of Staircase ST6	90 days	Sun 15/9/19	Fri 13/12/19			
327	Shop Drawing Submission & Approval of Structural Steel	45 days	Wed 27/2/19	Fri 12/4/19			
328	Structural Steel fabrication & Delivery	60 days	Sat 13/4/19	Tue 11/6/19			
329	Erection of Structural Steel GL 17-18	30 days	Fri 16/8/19	Sat 14/9/19			
330	Erection of Structural Steel GL 8-17	60 days	Sun 15/9/19	Wed 13/11/19			
331	Metal Cladding Delivery	60 days	Wed 7/8/19	Sat 5/10/19			
332	Metal Door, Window & Louve Delivery	45 days	Sun 6/10/19	Tue 19/11/19			
333	Erection of Working Platform and Scaffold	150 days	Mon 1/7/19	Wed 27/11/19			
334	Install Decking	60 days	Wed 9/10/19	Sat 7/12/19			
335	RC Walls from 1/F @ GIS Hall	40 days	Thu 31/10/19	Mon 9/12/19			
336	Construction of 2/F RC slab	14 days	Tue 10/12/19	Mon 23/12/19			
337	Construction of R/F RC slab	21 days	Tue 24/12/19	Wed 15/1/20			
338	Construction of UR/F RC slab	14 days	Thu 16/1/20	Fri 7/2/20			
339	Construction of GIS Hall Floor	60 days	Tue 24/12/19	Tue 3/3/20			
340	Installation of Overhead Crane (By JEC)	60 days	Wed 4/3/20	Sat 2/5/20			
341	Construction of staircase ST4, ST5, Lift Shaft & Equip Floors	150 days	Sun 15/9/19	Sat 22/2/20			
342	Lift Installation	90 days	Sun 23/2/20	Fri 22/5/20			
343	Concrete of RC walls, plinths, kerb & parapet walls & New trench for LV Power	30 days	Tue 24/12/19	Sun 2/2/20			
344	ABWF Works @ G/F	50 days	Mon 14/10/19	Mon 2/12/19			
345	ABWF Works @ 1/F	50 days	Wed 13/11/19	Fri 3/1/20			
346	ABWF Works @ 2/F	75 days	Fri 13/12/19	Sat 7/3/20			
347	ABWF Works @ R/F	30 days	Tue 14/1/20	Fri 21/2/20			
348	ABWF Works @ UR/F	21 days	Mon 3/2/20	Sun 23/2/20			
349	Waterproofing Works at R/F & UR/F	45 days	Thu 16/1/20	Mon 9/3/20			
350	Building Services E&M Access & Installation & T&C	150 days	Wed 13/11/19	Tue 21/4/20			
351	Metal Cladding, Windows and Louvres incl. Roof Feature	90 days	Tue 24/12/19	Thu 2/4/20			
352	Shutter Erection	30 days	Fri 3/4/20	Sat 2/5/20			
353	Removal of External Scaffolding + Tower Crane	35 days	Fri 3/4/20	Thu 7/5/20			
354	External Underground Drainage and Utilities	30 days	Fri 17/4/20	Sat 16/5/20			
355	Road & Paving Reinstatement	30 days	Fri 1/5/20	Sat 30/5/20			
356	Ready for FSD & OP Inspection	0 days	Sat 30/5/20	Sat 30/5/20			
357	Section G - A&A Works at No. 4 C.W. Intake at Area E12	143 days	Wed 1/1/20	Sun 31/5/20			
358	Permit to work	0 days	Wed 1/1/20	Wed 1/1/20			
359	Erection of temp. platform	14 days	Wed 1/1/20	Tue 14/1/20			
360	Demolition work	30 days	Wed 15/1/20	Sat 22/2/20			
361	Modify existing slab openings	75 days	Sun 23/2/20	Thu 7/5/20			
362	Curing + Removal of platform	24 days	Fri 8/5/20	Sun 31/5/20			
363	Section H - L11 Steel flue liner at No. 4 Chimney	186 days	Tue 1/1/19	Mon 15/7/19			
364	Complete erection of L10 Steel flue	0 days	Tue 1/1/19	Tue 1/1/19			
365	Modification of erection equipment	21 days	Tue 1/1/19	Mon 21/1/19			
366	Erection temp. platform and demolition work	30 days	Tue 22/1/19	Sat 2/3/19			
367	Structural steel delivery & Erection	85 days	Sun 3/3/19	Sun 26/5/19			
368	Removal of temp. work	5 days	Mon 27/5/19	Fri 31/5/19			
369	Reinstate G/F louvre wall and access door	45 days	Sat 1/6/19	Mon 15/7/19			
370	Section I - (i) 275kV cable trenching works connecting the 275kV Switching Station Extension and L11 MSB at Area E9 (B)	232 days	Sun 15/9/19	Fri 15/5/20			
371	Obtain Permit to work & Road close permit	0 days	Sun 15/9/19	Sun 15/9/19			
372	Excavation & construction new cable trench	160 days	Mon 16/9/19	Wed 4/3/20			

ID	Task Name	Duration	Start	Finish	November 2019		December 2019		January 2020	
373	Re-excavate cable trench for cable laying	72 days	Thu 5/3/20	Fri 15/5/20						
374	Section I - (ii) Interconnector 2 Trench Modification Works at Area E10	275 days	Wed 1/4/20	Thu 31/12/20						
375	Obtain Permit to work & Road close permit	0 days	Wed 1/4/20	Wed 1/4/20						
376	Re-excavate & new cable trench for cable laying	275 days	Wed 1/4/20	Thu 31/12/20						
377	Section J - (i) Demolition of Retractable Cover A&B & (ii) Construction of new LOT 3 & 4	426 days	Sun 1/3/20	Fri 30/4/21						
378	Obtain permit to work & Road close permit	0 days	Sun 1/3/20	Sun 1/3/20						
379	Erection of Hoarding	21 days	Sun 1/3/20	Sat 21/3/20						
380	Removal of existing cover & structural steel	30 days	Sun 22/3/20	Mon 20/4/20						
381	Demolish of existing bund wall and staircases	45 days	Tue 21/4/20	Thu 4/6/20						
382	Demolish of existing slab & foundation	60 days	Fri 5/6/20	Mon 3/8/20						
383	Consent for new work	30 days	Tue 4/8/20	Wed 2/9/20						
384	Construction of new bund wall and foundation	100 days	Thu 3/9/20	Fri 11/12/20						
385	Construction of new oil separator	80 days	Wed 23/9/20	Fri 11/12/20						
386	Construct underground drainage and surface channel	40 days	Sat 12/12/20	Wed 20/1/21						
387	Construction on-grade slab	60 days	Thu 21/1/21	Sun 21/3/21						
388	Removal of hoarding and ground reinstatement	40 days	Mon 22/3/21	Fri 30/4/21						
389	Section K1 - External works at Area 15 (E) and 15(F)	365 days	Mon 1/6/20	Mon 31/5/21						
390	Removal of surcharge	30 days	Mon 1/6/20	Tue 30/6/20						
391	Construct new drainage and utilities work	200 days	Wed 1/7/20	Sat 16/1/21						
392	Road & Paving	135 days	Sun 17/1/21	Mon 31/5/21						
393	Section K2 - Removal of Southern Bund and External Works at Area D5, D6 and D7	365 days	Mon 1/6/20	Mon 31/5/21						
394	Demolition work	30 days	Mon 1/6/20	Tue 30/6/20						
395	Construct new drainage and utilities work	200 days	Wed 1/7/20	Sat 16/1/21						
396	Road & Paving	135 days	Sun 17/1/21	Mon 31/5/21						
397	Section K3 - All remaining works shall be completed for reporting completion to BD and ready for OP inspection (PS1.4.4)	623 days	Wed 8/1/20	Thu 30/9/21						
398	Completion of remaining roof after over headcrane move in	30 days	Wed 8/1/20	Sat 15/2/20						
399	Construction of G/F Lube Oil Tank Room (BY TDK)	61 days	Tue 6/10/20	Sat 5/12/20						
400	Construction of wall and staircase at G/F after Condensor Move in	90 days	Mon 6/7/20	Sat 3/10/20						
401	Construction of Durasteel Steel wall panel after IBP installation	30 days	Sun 20/9/20	Mon 19/10/20						
402	Construction of Transformer fence wall, cladding & associated FS services	122 days	Tue 1/9/20	Thu 31/12/20						
403	Final restatement of road & paving around MSB & HRSG	122 days	Tue 1/9/20	Thu 31/12/20						
404	Installation of trench covers and gratings after plant installation	151 days	Thu 1/10/20	Sun 28/2/21						
405	Backfill and reinstatement after 275kV cable laying	122 days	Tue 1/6/21	Thu 30/9/21						



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	2020年		
					M10 十一月	M11 十二月	M12 一月
1	Key Date	416 days	3月12日星期二	4月30日星期四			
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	Total Contract Period	455 days	2月1日星期五	4月30日星期四			
8							
9	Preliminaries	21 days	3月12日星期二	4月1日星期一			
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	Predrilling Works for Section of A1 to A3 (Area P1 to P3)	96 days	2月1日星期五	5月7日星期二			
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	Plant Mobilization for Bored Pile Construction	150 days	3月19日星期二	8月15日星期四			
30	Crawler Crane	136 days	3月19日星期二	8月1日星期四			
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	Oscillator	136 days	3月19日星期二	8月1日星期四			
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	RCD	129 days	4月9日星期二	8月15日星期四			
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	Delivery of Temporary Steel Casing for Bored Pile Construction	150 days	3月19日星期二	8月15日星期四			
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	Delivery of Permanent Casing & Double Wall Liner	369 days	3月18日星期一	3月20日星期五			
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	Section A1	320 days	3月18日星期一	1月31日星期五			

Master Programme

Task  Critical Task  Milestone  Summary 

Master Programme

ID	Task Name	Duration	Start	Finish	Gantt Chart											
					2019年			2020年								
								M10	M11	M12						
								十一月	十二月	一月						
56	Bored Pile Construction at P1 (17 piles)	296 days	4月11日 星期四	1月31日 星期五	[Task bar: 4/11/19 - 1/31/20]											
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	[Task bar: 4/11/19 - 1/8/20]											
58	3rd set plant - G8	45 days	4月22日 星期一	6月5日 星期三	[Task bar: 4/22/19 - 6/5/19]											
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	[Task bar: 8/30/19 - 1/11/20]											
60	Interface & sonic test	28 days	1月4日 星期六	1月31日 星期五	[Task bar: 1/4/20 - 1/31/20]											
61	Completion of bored pile construction at P1	0 days	1月31日 星期五	1月31日 星期五	[Milestone: 1/31/20]											
62																
63	Sheet Pile at P1	215 days	7月1日 星期一	1月31日 星期五	[Task bar: 7/1/19 - 1/31/20]											
64	Delivery of sheet pile material	14 days	7月1日 星期一	7月14日 星期日	[Task bar: 7/1/19 - 7/14/19]											
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	[Task bar: 7/17/19 - 7/26/19]											
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	[Task bar: 12/17/19 - 1/23/20]											
67	Prepare & submit as-built record plan	7 days	1月24日 星期五	1月30日 星期四	[Task bar: 1/24/20 - 1/30/20]											
68	Submission of BA14	1 day	1月31日 星期五	1月31日 星期五	[Task bar: 1/31/20 - 1/31/20]											
69	Completion of sheet pile at P1	0 days	1月31日 星期五	1月31日 星期五	[Milestone: 1/31/20]											
70																
71	Cone Penetration Test	104 days	3月18日 星期一	6月29日 星期六	[Task bar: 3/18/19 - 6/29/19]											
72	Plant mobilization	14 days	3月18日 星期一	3月31日 星期日	[Task bar: 3/18/19 - 3/31/19]											
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	[Task bar: 4/1/19 - 6/29/19]											
74	Completion of cone penetration test	0 days	6月29日 星期六	6月29日 星期六	[Milestone: 6/29/19]											
75	Completion of section A1	0 days	1月31日 星期五	1月31日 星期五	[Milestone: 1/31/20]											
76																
77	Section A2	197 days	4月8日 星期一	10月21日 星期一	[Task bar: 4/8/19 - 10/21/19]											
78	Bored Pile Construction at P2 (11 piles)	197 days	4月8日 星期一	10月21日 星期一	[Task bar: 4/8/19 - 10/21/19]											
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	[Task bar: 4/8/19 - 9/15/19]											
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	[Task bar: 5/12/19 - 9/23/19]											
81	Interface & sonic test	28 days	9月24日 星期二	10月21日 星期一	[Task bar: 9/24/19 - 10/21/19]											
82	Completion of bored pile construction at P2	0 days	10月21日 星期一	10月21日 星期一	[Milestone: 10/21/19]											
83	Completion of section A2	0 days	10月21日 星期一	10月21日 星期一	[Milestone: 10/21/19]											
84																
85	Section A3	331 days	5月18日 星期六	4月12日 星期日	[Task bar: 5/18/19 - 4/12/20]											
86	Bored Pile Construction at P3 (18 piles)	283 days	7月5日 星期五	4月12日 星期日	[Task bar: 7/5/19 - 4/12/20]											
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	[Task bar: 7/5/19 - 2/14/20]											
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	[Task bar: 7/5/19 - 2/14/20]											
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	[Task bar: 8/2/19 - 2/20/20]											
90	Interface & sonic test	28 days	2月21日 星期五	3月19日 星期四	[Task bar: 2/21/20 - 3/19/20]											
91	Prepare & submit as-built record plan	7 days	3月13日 星期五	3月19日 星期四	[Task bar: 3/13/20 - 3/19/20]											
92	Submission of BA14	1 day	3月19日 星期四	3月19日 星期四	[Task bar: 3/19/20 - 3/19/20]											
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 星期日	[Task bar: 3/20/20 - 4/2/20]											
94	Concrete full core test	10 days	4月3日 星期五	4月12日 星期日	[Task bar: 4/3/20 - 4/12/20]											
95	Completion of bored pile construction at P3	0 days	4月12日 星期日	4月12日 星期日	[Milestone: 4/12/20]											
96																
97	Sheet Pile at P3	60 days	5月18日 星期六	7月16日 星期二	[Task bar: 5/18/19 - 7/16/19]											
98	Plant mobilization	7 days	5月25日 星期六	5月31日 星期五	[Task bar: 5/25/19 - 5/31/19]											
99	Delivery of sheet pile material	14 days	5月18日 星期六	5月31日 星期五	[Task bar: 5/18/19 - 5/31/19]											
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	[Task bar: 6/1/19 - 7/16/19]											
101	Completion of sheet pile at P3	0 days	7月16日 星期二	7月16日 星期二	[Milestone: 7/16/19]											
102	Completion of section A3	0 days	4月12日 星期日	4月12日 星期日	[Milestone: 4/12/20]											
103																
104	Section B	305 days	7月1日 星期一	4月30日 星期四	[Task bar: 7/1/19 - 4/30/20]											
105	Shunt Reactor	121 days	1月1日 星期三	4月30日 星期四	[Task bar: 1/1/20 - 4/30/20]											
106	Site possession date	0 days	1月1日 星期三	1月1日 星期三	[Milestone: 1/1/20]											
107	Predrilling Works for Bored Pile	34 days	1月1日 星期三	2月3日 星期一	[Task bar: 1/1/20 - 2/3/20]											
108	Drilling rigs mobilization	7 days	1月1日 星期三	1月7日 星期二	[Task bar: 1/1/20 - 1/7/20]											
109	Predrilling works (4 holes) (2 rigs)	25 days	1月8日 星期三	2月1日 星期六	[Task bar: 1/8/20 - 2/1/20]											
110	Submission of predrill logs	15 days	1月20日 星期一	2月3日 星期一	[Task bar: 1/20/20 - 2/3/20]											

Master Programme

Task [Blue bar] Critical Task [Red bar] Milestone [Diamond] Summary [Thick black bar]

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					
					M-1 一月	M1 二月	M2 三月	M3 四月	M4 五月	M5 六月	M6 七月	M7 八月	M8 九月	M9 十月	M10 十一月	M11 十二月	M12 一月	M13 二月	M14 三月	M15 四月		
111	Completion of predrilling works	0 days	2月3日 星期一	2月3日 星期一																		
112																						
113	Bored Pile Construction (4 piles)	113 days	1月9日 星期四	4月30日 星期四																		
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	Cable Bridge	267 days	7月1日 星期一	3月23日 星期一																		
126	Site possession date	0 days	7月1日 星期一	7月1日 星期一																		
127	Predrilling Works for Bored Pile	55 days	7月1日 星期一	8月24日 星期六																		
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	Bored Pile Construction (6 piles)	178 days	9月16日 星期一	3月11日 星期三																		
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	Temporary Working Platform for Socketted H-Pile Construction	74 days	7月1日 星期一	9月12日 星期四																		
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	Predrilling Works for Socketted H-pile	27 days	9月13日 星期五	10月9日 星期三																		
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	Socketted H-Pile Construction (30 piles)	168 days	10月8日 星期二	3月23日 星期一																		
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	
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