

16/8002 Outstanding Work Programme

16-8002 OS Work Prog (28Aug19).mpp

ID	Task Name	Duration	Start	Finish	Qtr 4, 2019		
					Oct 2019	Nov 2019	Dec 2019
1	16/8002 Unit 10 Outstanding Work Programme	373 days	01/12/18	18/12/19	[Gantt bar: 01/12/18 to 18/12/19]		
2	Unit 10 MSB & HRSG	355 days	01/12/18	30/11/19	[Gantt bar: 01/12/18 to 30/11/19]		
3	Superstructure	202 days	01/12/18	30/06/19	[Gantt bar: 01/12/18 to 30/06/19]		
101	External Works	232 days	30/03/19	16/11/19	[Gantt bar: 30/03/19 to 16/11/19]		
102	EVA North MSB	219 days	30/03/19	03/11/19	[Gantt bar: 30/03/19 to 03/11/19]		
103	Dia 900 Storm Drain (fr east to west) & FS PFH Pipe	0 days	30/03/19	30/03/19	[Gantt bar: 30/03/19 to 30/03/19]		
104	TDK remove air filter inlet scaffold	0 days	08/04/19	08/04/19	[Gantt bar: 08/04/19 to 08/04/19]		
105	Remain Dia900 storm drain to MH204	28 days	08/04/19	05/05/19	[Gantt bar: 08/04/19 to 05/05/19]		
106	Access and Complete east rc wall	12 days	30/04/19	11/05/19	[Gantt bar: 30/04/19 to 11/05/19]		
107	Access to TDK for transport steam blow pipes fr Gate 39	30 days	06/05/19	04/06/19	[Gantt bar: 06/05/19 to 04/06/19]		
108	Dia 400 Storm Drain at G.L. G-H	6 days	05/06/19	10/06/19	[Gantt bar: 05/06/19 to 10/06/19]		
109	Road gully to storm manhole (east)	6 days	11/06/19	16/06/19	[Gantt bar: 11/06/19 to 16/06/19]		
110	Conduits for streetlight and fs signal (east)	10 days	17/06/19	26/06/19	[Gantt bar: 17/06/19 to 26/06/19]		
111	Road base (East)	5 days	27/06/19	01/07/19	[Gantt bar: 27/06/19 to 01/07/19]		
112	Return Assess from TDK from HRSG North	0 days	16/08/19	16/08/19	[Gantt bar: 16/08/19 to 16/08/19]		
113	Manhole covers and remaining surface UU	14 days	16/08/19	29/08/19	[Gantt bar: 16/08/19 to 29/08/19]		
114	Road Paving and street light	21 days	30/08/19	19/09/19	[Gantt bar: 30/08/19 to 19/09/19]		
115	Cantilver beam & slab for drainage manhole	4 days	01/06/19	04/06/19	[Gantt bar: 01/06/19 to 04/06/19]		
116	Sewage Drain SM207C to SM207B	7 days	05/06/19	11/06/19	[Gantt bar: 05/06/19 to 11/06/19]		
117	Remaing FS OFH Pipe + concrete box (west)	10 days	12/06/19	21/06/19	[Gantt bar: 12/06/19 to 21/06/19]		
118	Sewage Drain + Pump Pit	9 days	22/06/19	30/06/19	[Gantt bar: 22/06/19 to 30/06/19]		
119	Backfill for TDK steamblow piping set up	5 days	01/07/19	05/07/19	[Gantt bar: 01/07/19 to 05/07/19]		
120	TDK SteamBlow Set up & removal	85 days	06/07/19	28/09/19	[Gantt bar: 06/07/19 to 28/09/19]		
121	FS Hydrant FH3	7 days	29/09/19	05/10/19	[Gantt bar: 29/09/19 to 05/10/19]		
122	FS OFH pipe & plinth & valve from FH1 to West of Tx Ba	10 days	29/09/19	08/10/19	[Gantt bar: 29/09/19 to 08/10/19]		
123	Road gully to storm manhole (west)	5 days	09/10/19	13/10/19	[Gantt bar: 09/10/19 to 13/10/19]		
124	Conduits for streetlight and fs signal (to Station Rd)	7 days	14/10/19	20/10/19	[Gantt bar: 14/10/19 to 20/10/19]		
125	Road base + Paving	14 days	21/10/19	03/11/19	[Gantt bar: 21/10/19 to 03/11/19]		
126	OTG & MH204A1 & associated pipes + Extra OFH Pipe	21 days	15/08/19	04/09/19	[Gantt bar: 15/08/19 to 04/09/19]		
127	EVA West MSB	129 days	02/05/19	07/09/19	[Gantt bar: 02/05/19 to 07/09/19]		
128	Dia 900 Storm Drain to MH203	14 days	02/05/19	15/05/19	[Gantt bar: 02/05/19 to 15/05/19]		
129	Manhole MS213b & associated drain pipes	7 days	16/05/19	22/05/19	[Gantt bar: 16/05/19 to 22/05/19]		
130	FS OFH Pipe + concrete box	14 days	23/05/19	05/06/19	[Gantt bar: 23/05/19 to 05/06/19]		
131	Sewage drain pump pit to SM206a	12 days	06/06/19	17/06/19	[Gantt bar: 06/06/19 to 17/06/19]		
132	Dia 1200 pipe connect to MH202	14 days	18/06/19	01/07/19	[Gantt bar: 18/06/19 to 01/07/19]		
133	Road gully to storm manhole	10 days	02/07/19	11/07/19	[Gantt bar: 02/07/19 to 11/07/19]		
134	Conduits for streetlight and fs signal	14 days	12/07/19	25/07/19	[Gantt bar: 12/07/19 to 25/07/19]		
135	Road kerb + Base	12 days	26/07/19	06/08/19	[Gantt bar: 26/07/19 to 06/08/19]		
136	TDK Site crane at SunShade	30 days	07/08/19	05/09/19	[Gantt bar: 07/08/19 to 05/09/19]		
137	Paving	18 days	21/08/19	07/09/19	[Gantt bar: 21/08/19 to 07/09/19]		
138	EVA South MSB	139 days	09/05/19	24/09/19	[Gantt bar: 09/05/19 to 24/09/19]		
139	Dia 450 & 600 Storm Drain MH214-217A	14 days	09/05/19	22/05/19	[Gantt bar: 09/05/19 to 22/05/19]		
140	Sewage SM208E to pump pit	14 days	23/05/19	05/06/19	[Gantt bar: 23/05/19 to 05/06/19]		
141	Portable & Flushing along MSB south wall	14 days	06/06/19	19/06/19	[Gantt bar: 06/06/19 to 19/06/19]		
142	FS OFH Pipe + concrete box	18 days	20/06/19	07/07/19	[Gantt bar: 20/06/19 to 07/07/19]		
143	Road gully to storm manhole	7 days	08/07/19	14/07/19	[Gantt bar: 08/07/19 to 14/07/19]		
144	Conduits for streetlight and fs signal	14 days	15/07/19	28/07/19	[Gantt bar: 15/07/19 to 28/07/19]		
145	Allow for Structural steel Erection @ L11	40 days	29/07/19	06/09/19	[Gantt bar: 29/07/19 to 06/09/19]		

street light

TDK SteamBlow Set up & removal

FS Hydrant FH3

FS OFH pipe & plinth & valve from FH1 to West of Tx Bay

Road gully to storm manhole (west)

Conduits for streetlight and fs signal (to Station Rd)

Road base + Paving

Extra-OFH Pipe

19

L11

 Critical Split
 Task
 Split
 Milestone
 ◆
 Summary
 ▾

16/8002 Outstanding Work Programme

16-8002 OS Work Prog (28Aug19).mpp

ID	Task Name	Duration	Start	Finish	Qtr 4, 2019		
					Oct 2019	Nov 2019	Dec 2019
146	Road base + Paving	18 days	07/09/19	24/09/19	Road base + Paving		
147	EVA North HRSG	42 days	16/08/19	26/09/19	EVA North HRSG		
148	Area Return from TDK	0 days	16/08/19	16/08/19	Area Return from TDK		
149	HRSG North on-grade slabs	7 days	16/08/19	22/08/19	HRSG North on-grade slabs		
150	Road gully to storm manhole	7 days	23/08/19	29/08/19	Road gully to storm manhole		
151	Drainage U-channel relocation	14 days	30/08/19	12/09/19	Drainage U-channel relocation		
152	Conduits for streetlight and fs signal	7 days	30/08/19	05/09/19	Conduits for streetlight and fs signal		
153	Road base + Paving	14 days	13/09/19	26/09/19	Road base + Paving		
154	EVA East HRSG	201 days	15/04/19	01/11/19	EVA East HRSG		
155	Completed Sheetpile work for L11 Gas Duct	0 days	15/04/19	15/04/19	Completed Sheetpile work for L11 Gas Duct		
156	Dia 750 Storm Drain up to MH210	30 days	15/04/19	14/05/19	Dia 750 Storm Drain up to MH210		
157	FS OFH Pipe + concrete box	14 days	15/05/19	28/05/19	FS OFH Pipe + concrete box		
158	Return to TDK crane sitting	0 days	28/05/19	28/05/19	Return to TDK crane sitting		
159	Storm drain from MH210 to MH211	7 days	15/05/19	21/05/19	Storm drain from MH210 to MH211		
160	Formation of Bund wall for Lube Oil Tank	2 days	22/05/19	23/05/19	Formation of Bund wall for Lube Oil Tank		
161	Bund wall construction	10 days	24/05/19	02/06/19	Bund wall construction		
162	Formation of Lube Oil Tank fdn	1 day	03/06/19	03/06/19	Formation of Lube Oil Tank fdn		
163	Lube Oil Tank Fdn construction	12 days	04/06/19	15/06/19	Lube Oil Tank Fdn construction		
164	TDK return area	0 days	16/09/19	16/09/19	TDK return area		
165	New surface drain u channel	12 days	16/09/19	27/09/19	New surface drain u channel		
166	Road gully to stormdrain	7 days	28/09/19	04/10/19	Road gully to stormdrain		
167	Conduits for streetlight and fs signal	7 days	05/10/19	11/10/19	Conduits for streetlight and fs signal		
168	Road base + Paving	21 days	12/10/19	01/11/19	Road base + Paving		
169	EVA South HRSG	76 days	02/09/19	16/11/19	EVA South HRSG		
170	Allow access (i.e. block access to MSB Loading Bay)	0 days	02/09/19	02/09/19	Allow access (i.e. block access to MSB Loading Bay)		
171	Dia 450 Storm Drain to MH212B to MH211a	5 days	02/09/19	06/09/19	Dia 450 Storm Drain to MH212B to MH211a		
172	Pipe rack footing	5 days	02/09/19	06/09/19	Pipe rack footing		
173	Road gully to storm	5 days	07/09/19	11/09/19	Road gully to storm		
174	Conduits for streetlight and fs signal	3 days	09/09/19	11/09/19	Conduits for streetlight and fs signal		
175	Road base+paving	12 days	12/09/19	23/09/19	Road base+paving		
176	Allow access from TDK (South of Lube Oil Storage Tank)	0 days	23/09/19	23/09/19	Allow access from TDK (South of Lube Oil Storage Tank)		
177	Dia 600 Storm Drain to MH211a to MH212	14 days	24/09/19	07/10/19	Dia 600 Storm Drain to MH211a to MH212		
178	FS OFH Pipe + concret box	14 days	08/10/19	21/10/19	FS OFH Pipe + concret box		
179	Road gully to storm	5 days	17/10/19	21/10/19	Road gully to storm		
180	Conduits for streetlight and fs signal	5 days	22/10/19	26/10/19	Conduits for streetlight and fs signal		
181	Road base+paving	21 days	27/10/19	16/11/19	Road base+paving		
182	Complete UU Services and Road Paving Works (MSB)	0 days	03/11/19	03/11/19	Complete UU Services and Road Paving Works (MSB)		
183	Complete UU Services and Road Paving Works (HRSG)	0 days	16/11/19	16/11/19	Complete UU Services and Road Paving Works (HRSG)		
184	Building Façade repair and touch up.	14 days	10/09/19	23/09/19	Building Façade repair and touch up.		
185	Touch Up at HRSG Equipment Room	21 days	12/10/19	01/11/19	Touch Up at HRSG Equipment Room		
186	Electrical & FS Installation @ HRSG	60 days	01/08/19	29/09/19	Electrical & FS Installation @ HRSG		
187	Lift @ HRSG Installation (Temporary)	30 days	01/11/19	30/11/19	Lift @ HRSG Installation (Temporary)		
188	Statutory Submissions & Inspection	203 days	11/05/19	30/11/19	Statutory Submissions & Inspection		
203	C.W. Pump, Intake and Urea Plant and Outstanding External Works	345 days	31/12/18	18/12/19	C.W. Pump, Intake and Urea Plant and Outstanding External Works		
204	C.W. Pump Area incl. Chlorination Area	249 days	14/01/19	27/09/19	C.W. Pump Area incl. Chlorination Area		
205	Cable tray at pipe rack ready for power supply laying	0 days	31/01/19	31/01/19	Cable tray at pipe rack ready for power supply laying		

Critical Split
 Task
 Split
 Milestone

 Summary

16/8002 Outstanding Work Programme

16-8002 OS Work Prog (28Aug19).mpp

ID	Task Name	Duration	Start	Finish	Qtr 4, 2019		
					Oct 2019	Nov 2019	Dec 2019
206	Power supply laying and T&C for BS installation at CW. Pump Equip. Room	60 days	31/01/19	08/04/19			
207	Building's work touch up	30 days	09/04/19	08/05/19			
208	TDK confirm not use of temp. access to CW Intake	0 days	14/01/19	14/01/19			
209	Drainage construction under Chlorination area	21 days	14/01/19	11/02/19			
210	Bearing inspection by BD	45 days	12/02/19	28/03/19			
211	Foundation Construction of Chlorination area	45 days	29/03/19	12/05/19			
212	Above ground RC @ Chlorination area	21 days	13/05/19	02/06/19			
213	RC plinths & Backfill	14 days	03/06/19	16/06/19			
214	FS valve pipe + Reconstruct	45 days	17/06/19	31/07/19			
215	Drainage up to mid-way to MH831	14 days	01/08/19	14/08/19			
216	Divert Access to Intake	7 days	15/08/19	21/08/19			
217	Remain surfacae drainage FS pipe etc along CW Pump Pavement	30 days	22/08/19	20/09/19	ae drainage FS pipe etc along CW Pump Pavement		
218	Road Reinstatement at Demin. Plant Road	30 days	15/08/19	13/09/19	min. Plant Road		
219	Relocation Hoarding to middle road and return area to GEN	14 days	14/09/19	27/09/19	ocation Hoarding to middle road and return area to GEN		
220	Urea Plant + Middle Road	269 days	31/12/18	03/10/19	03 Oct '19		
221	Handover for plant erection	0 days	31/12/18	31/12/18			
222	Building Services and raised floors for Urea Ele. Equip Room	14 days	02/01/19	15/01/19			
223	Cable Tray ready at Pipe rack for power laying	0 days	08/04/19	08/04/19			
224	Power laying and T&C for BS at Urea Ele. Equip Rm	30 days	09/04/19	08/05/19			
225	TDK Return area contruction	0 days	08/05/19	08/05/19			
226	Removal of existing drainage U-Channel	21 days	09/05/19	29/05/19			
227	New Oily Drain installation and diversion of FS & foam pipe	75 days	30/05/19	12/08/19			
228	Storm Drain MH830a to MH809	12 days	01/08/19	12/08/19			
229	Storm Drain MH831 to MH830a	12 days	13/08/19	24/08/19			
230	Storm Drain MH832 & MH837 to MH831	12 days	25/08/19	05/09/19			
231	Storm Drain at Urea Pavement	12 days	06/09/19	17/09/19	Pavement		
232	FS Pipe at West of Urea	14 days	06/09/19	19/09/19	of Urea		
233	Conduits for steeltlight and fs signal	14 days	06/09/19	19/09/19	atlight and fs signal		
234	Road Kerb + Road Base + Paving	30 days	31/08/19	29/09/19	Road Kerb + Road Base + Paving		
235	Construction of RC bund wall, step, slab, etc.	40 days	09/05/19	17/06/19			
236	Erection of Removable Metal cladding	21 days	18/06/19	08/07/19			
237	Installation of folding shutters	21 days	23/07/19	12/08/19			
238	Urea Shelter BD approval + Consent	0 days	21/06/19	21/06/19			
239	Urea Shelter Fdn and superstructure	50 days	21/06/19	09/08/19			
240	TDK return Urea South for raod work	0 days	21/08/19	21/08/19			
241	installation of draw pits and Conduits	14 days	21/08/19	03/09/19			
242	Road & paving work	30 days	04/09/19	03/10/19	Road & paving work		
243	Other & External works	343 days	02/01/19	18/12/19	18 Dec '19		
244	Chimney Remaining Installation works for L10	90 days	02/01/19	09/04/19			
245	Return from ground treatment at North of Area B1 & D2	0 days	01/04/19	01/04/19			
246	New Pipe Rack foundation Under L11 Contract (FYI)	60 days	06/08/19	04/10/19	New Pipe Rack foundation Under L11 Contract (FYI)		
247	Site Clearance for Paving at Middle Road to Chimney Rd	30 days	05/10/19	03/11/19	Site Clearance for Paving at Middle Road to Chimney Rd		
248	Road Paving and other service reinstatement	45 days	04/11/19	18/12/19	Road Paving and ot		

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
**FOR
 INFO**

No.	Description	2019		
		Oct	Nov	Dec
	Erection Key Date			T/ O
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			

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		
		Oct	Nov	Dec
	Erection Key Date			T/ O
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

Appendix J
**FOR
 INFO**

No.	Description	2019		
		Oct	Nov	Dec
	Erection Key Date			T/ O
	Installation of Temporary piping, Support & Silencer Execution of Steam blowing out Dismantle of Temporary piping, Support & Silencer Execution 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
 Lamma Power Station Extension - Unit 10
 Complete Erection, Inspection, Testing &
 Commissioning of Power Block Facilities

Appendix J
**FOR
 INFO**

No.	Description	2019		
		Oct	Nov	Dec
	Erection Key Date			T/ O
B-4	Install GEN			
B-5	Install GT			

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		
		Oct	Nov	Dec
	Erection Key Date			T/ O
B-6	Aux Equipment			
B-7	Insulation			
B-8	Painting			
B-9	Switchgear/Hoist/Hoist for condenser			

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



No.	Description	2019		
		Oct	Nov	Dec
	Erection Key Date			T/ O
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

Appendix J
**FOR
 INFO**

No.	Description	2019		
		Oct	Nov	Dec
	Erection Key Date			T/ O
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	2019		
					Oct 2019	Nov 2019	Dec 2019
1	Civil and Building Works for Unit 11 and Associated Works	1197 days	01/06/18	30/09/21			
2	Contract Key Dates	1197 days	01/06/18	30/09/21			
3	Contract Commencement Date	0 days	01/06/18	01/06/18			
4	Completion Dates	1044 days	31/10/18	30/09/21			
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	trenching works connecting the 275kV Switching Station Extension and L11 MSB at Area E9 (A)		
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 C2 - (i) Southern part of L11 HRSG area and

ID	Task Name	Duration	Start	Finish	2019		
					Oct 2019	Nov 2019	Dec 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	General & Preliminary	318 days	01/06/18	24/04/19			
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	Submission and Approval	554 days	01/06/18	16/12/19			16 Dec '19
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			Fabrication & Delivery of Folding Shutters
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			Fabrication & Delivery of
65	Other material submission & approval & delivery	300 days	30/08/18	05/07/19			
66	Coordination with the Employer's Specialist Contractors	478 days	20/05/19	19/09/20			
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			HRSG column base
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	Section A1 & A2 - Ground treatment at Zone 1A & 1B	92 days	01/08/18	31/10/18			
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			

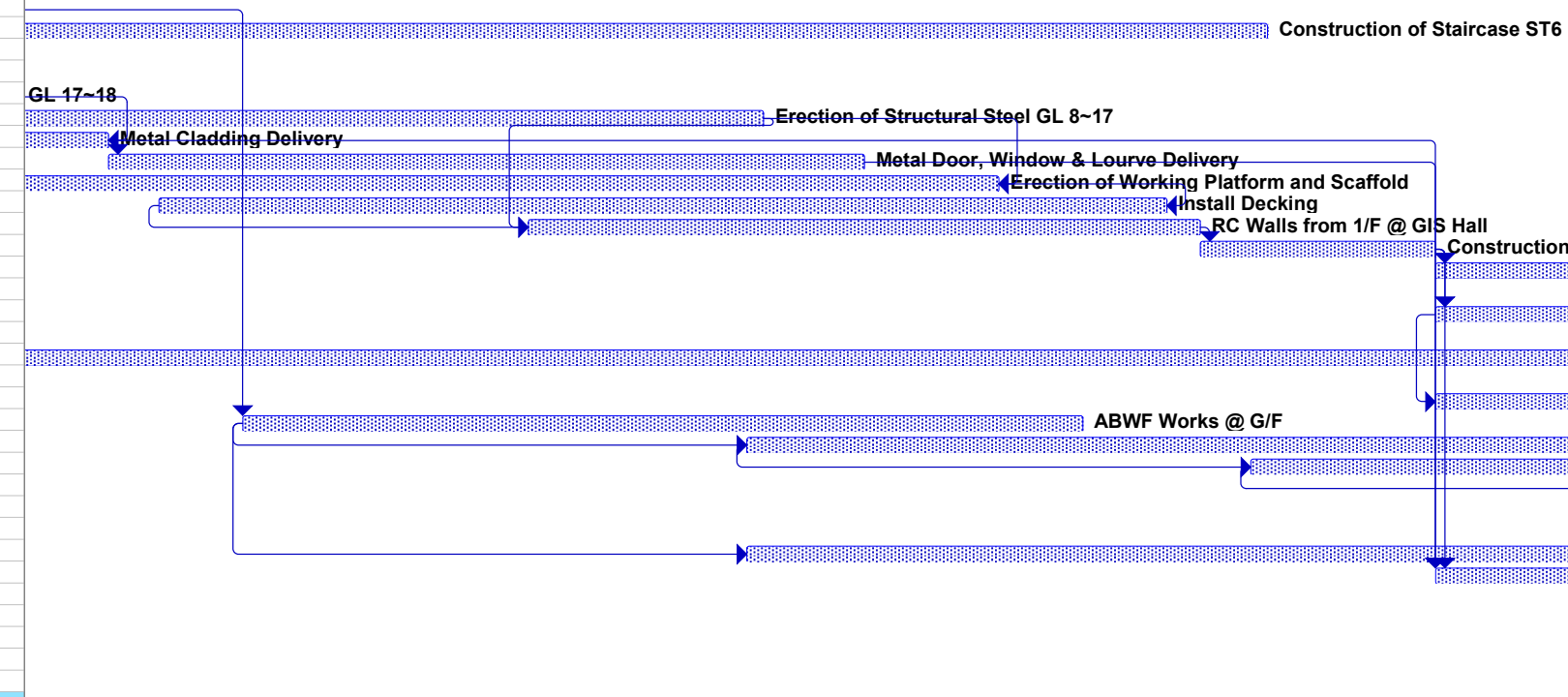
ID	Task Name	Duration	Start	Finish	2019		
					Oct 2019	Nov 2019	Dec 2019
83	Vert. Band drain installation (1023 nos. x 44m)	45 days	13/09/18	27/10/18			
84	Deposition of surcharge up to +8.3mPD	45 days	17/09/18	31/10/18			
85	Section A3 - Ground treatment installation works at Zone 2	158 days	01/10/18	17/03/19			
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	Section A4 - Ground treatment installation works at Zone 3	131 days	01/11/18	21/03/19			
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	Section A5 (i) - Ground treatment installation works at Zone 4	83 days	26/12/18	28/03/19			
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	Section A5 (ii) - Surcharge works at Zone 4	30 days	01/09/20	30/09/20			
106	Deposition of surcharge up to +8.3mPD	30 days	01/09/20	30/09/20			
107	Section A6 (i) - A&A Works for No. 4 C.W. Outfall at Area E18	493 days	01/11/18	28/03/20	c.A6(i)		
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			Pipe Jacking
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	Section A6 (ii) - External works at Area E15(D)	37 days	01/01/20	15/02/20			01 Jan '20
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	Section B1 (i) - Area south of L11 MSB and HRSG from GL11-F eastwards leading to Chimney Road at Area E1 & E2	375 days	31/01/19	01/03/20	c.B1(i)		
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			Install underground utilities
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	Section B1 (ii) - Supporting structures for overhead cranes of L11 MSB including the associated roof structure except the roof deferred works	482 days	01/11/18	17/03/20	c.B1(i)		
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			Erection of turbine hall roof except defer work

ID	Task Name	Duration	Start	Finish	2019		
					Oct 2019	Nov 2019	Dec 2019
145	Installation of crane griders	21 days	11/11/19	01/12/19			Installation of crane griders
146	Turbine hall wall claddings	60 days	09/01/20	17/03/20			
147	Section B1 (iii) - FSRU Civil works at Area E13 (GRS)	151 days	01/01/21	31/05/21			
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	Section B2 - Retractable Cover D at Area E22	435 days	01/01/19	31/03/20	c.B2		
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		Foundation construction	
155	Backfill & Ground reinstatement	30 days	08/10/19	06/11/19		Backfill & Ground reinstatement	
156	Superstructure fabrication & delivery	90 days	09/08/19	06/11/19		Superstructure fabrication & delivery	
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	Section B3 - External works at Area B1, D2 and D4	416 days	01/03/19	30/04/20	c.B3		
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	Section C1 - Area south of L11 MSB from GL11-F westwards leading to Station Road at Area E3(A) & E3(B)	466 days	01/11/18	01/03/20	c.C1		
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	Section C2 - (i) Southern part of L11 HRSG area and its surrounding at Area E7 (No Defer Foundations)	295 days	31/01/19	01/12/19	c.C2(i)		01 Dec '19
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	c.plinths		
179	Construction underground utilities	45 days	23/08/19	06/10/19		Construction underground utilities	
180	Backfill & Construction on-grade slabs	35 days	07/10/19	10/11/19		Backfill & Construction on-grade slabs	
181	Backfill and Temporary paving	21 days	11/11/19	01/12/19		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	01/12/18	30/04/20	c.C2(ii)		
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		Construction of internal drainage	
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		Construction turbine block columns and upper portion for plant embed installation	
190	Concrete Turbine upper part foundation & clear falsework	52 days	10/03/20	30/04/20			
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	01/11/18	01/03/20	c.C2(iii)		
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	2019		
					Oct 2019	Nov 2019	Dec 2019
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	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	01/11/18	31/12/19	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	Section D - (ii) Remaining northern part of L11 HRSG area and its surrounding in Area E6	375 days	31/01/19	01/03/20	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	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	01/11/18	30/04/20	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 (Turbine 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	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	01/11/18	30/04/20	c.D(iv)		
251	Area Possession & Clearance	0 days	01/11/18	01/11/18			

ID	Task Name	Duration	Start	Finish	2019		
					Oct 2019	Nov 2019	Dec 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	Section D - (v) Gas Duct Foundation, Pipe and Cable Rack and associated trench in Area E20	345 days	11/02/19	01/02/20	c.D(v)		
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	Backfill & Underground utilities		
266	Remaining Pipe & cable rack and associated trenches in Area E20	115 days	29/09/19	01/02/20			
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	01/01/20	28/09/20			01 Jan '20
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	Section E1 - (ii) Gas Receiving Station and L11 Gas Receiving Station Equipment Room (GRS) Area Extension at Area E16	173 days	01/01/20	30/06/20			01 Jan '20
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	Section E1 - (iii) External Works at Area E15 (C)	273 days	01/06/20	28/02/21			
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	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	01/05/19	17/09/20	c.E2		
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	Foundation and Trench constructions		
292	Backfill & underground utitiles + temp paving	60 days	28/09/19	26/11/19			Backfill & underground utitiles + temp paving
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	Section E3 - Gas Pipe Support Foundation and Pipe Trench and associated external works at Area E14, E15 (A) and E15 (B)	173 days	01/01/20	30/06/20			01 Jan '20
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	Section E4 - 275kV cable trenching works connecting the 275kV Switching Station Extension and L11 MSB at Area E9 (A)	185 days	15/03/19	15/09/19			
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	2019		
					Oct 2019	Nov 2019	Dec 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			
309	Section F - 275kV Station Building Extension and associated works at Area E17	709 days	01/06/18	30/05/20			
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			
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			
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	Section G - A&A Works at No. 4 C.W. Intake at Area E12	143 days	01/01/20	31/05/20			
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	Section H - L11 Steel flue liner at No. 4 Chimney	186 days	01/01/19	15/07/19			
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	Section I - (i) 275kV cable trenching works connecting the 275kV Switching Station Extension and L11 MSB at Area E9 (B)	232 days	15/09/19	15/05/20			
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	Section I - (ii) Interconnector 2 Trench Modification Works at Area E10	275 days	01/04/20	31/12/20			
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	2019		
					Oct 2019	Nov 2019	Dec 2019
377	Section J - (i) Demolition of Retractable Cover A&B & (ii) Construction of new LOT 3 & 4	426 days	01/03/20	30/04/21			
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	Section K1 - External works at Area 15 (E) and 15(F)	365 days	01/06/20	31/05/21			
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	Section K2 - Removal of Southern Bund and External Works at Area D5, D6 and D7	365 days	01/06/20	31/05/21			
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	Section K3 - All remaining works shall be completed for reporting completion to BD and ready for OP inspection (PS1.4.4)	623 days	08/01/20	30/09/21			
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		
					M9 十月	M10 十一月	M11 十二月			
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	2019年			2020年		
					10月	11月	12月	1月	2月	3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						
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	Sheet Pile at P1	215 days	7月1日 星期一	1月31日 星期五						
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	Cone Penetration Test	104 days	3月18日 星期一	6月29日 星期六						
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	Section A2	197 days	4月8日 星期一	10月21日 星期一						
78	Bored Pile Construction at P2 (11 piles)	197 days	4月8日 星期一	10月21日 星期一						
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	Section A3	331 days	5月18日 星期六	4月12日 星期日						
86	Bored Pile Construction at P3 (18 piles)	283 days	7月5日 星期五	4月12日 星期日						
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 星期日						
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	Sheet Pile at P3	60 days	5月18日 星期六	7月16日 星期二						
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	Section B	305 days	7月1日 星期一	4月30日 星期四						
105	Shunt Reactor	121 days	1月1日 星期三	4月30日 星期四						
106	Site possession date	0 days	1月1日 星期三	1月1日 星期三						
107	Predrilling Works for Bored Pile	34 days	1月1日 星期三	2月3日 星期一						
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 

