

**16/8002 Outstanding Work Programme**

16-8002 OS Work Prog (04 Nov 19)\_BC

Wed 4/3/20

ID	Task Name	Duration	Start	Finish	20		
					April 2020	May 2020	June 2020
1	<b>16/8002 Unit 10 Outstanding Work Programme</b>	<b>521 days</b>	<b>Sat 1/12/18</b>	<b>Thu 14/5/20</b>	▼ 14 May '20		
2	<b>Unit 10 MSB &amp; HRSG</b>	<b>368 days</b>	<b>Sat 1/12/18</b>	<b>Fri 13/12/19</b>			
3	<b>Superstructure</b>	<b>340 days</b>	<b>Sat 1/12/18</b>	<b>Fri 15/11/19</b>			
53	<b>External Works</b>	<b>15 days</b>	<b>Fri 1/11/19</b>	<b>Fri 15/11/19</b>			
54	EVA North MSB & HRSG	15 days	Fri 1/11/19	Fri 15/11/19			
55	Curb surrounding Feed Water Pump	6 days	Mon 4/11/19	Sat 9/11/19			
56	Road base near West & along cable trench	7 days	Fri 1/11/19	Thu 7/11/19			
57	Road paving near West & along cable trench	12 days	Mon 4/11/19	Fri 15/11/19			
58	Conduits for streetlight and fs signal	5 days	Mon 4/11/19	Fri 8/11/19			
59	Road base near East	2 days	Sat 9/11/19	Sun 10/11/19			
60	Road paving near East	5 days	Mon 11/11/19	Fri 15/11/19			
61	EVA West MSB	7 days	Fri 8/11/19	Thu 14/11/19			
62	Road base near South	2 days	Fri 8/11/19	Sat 9/11/19			
63	Road paving	2 days	Sun 10/11/19	Mon 11/11/19			
64	Relocate hoarding and Gate 39	3 days	Tue 12/11/19	Thu 14/11/19			
65	EVA South MSB & HRSG	12 days	Mon 4/11/19	Fri 15/11/19			
66	Road base near West	2 days	Fri 8/11/19	Sat 9/11/19			
67	Road paving near West	2 days	Sun 10/11/19	Mon 11/11/19			
68	Conduits for streetlight and fs signal near East	4 days	Mon 4/11/19	Thu 7/11/19			
69	Road base near East	3 days	Fri 8/11/19	Sun 10/11/19			
70	Road paving near East	3 days	Mon 11/11/19	Wed 13/11/19			
71	Extend hoarding to the East	2 days	Thu 14/11/19	Fri 15/11/19			
72	EVA East HRSG	14 days	Sat 2/11/19	Fri 15/11/19			
73	Surface channel outside HRSG Equipment Room	4 days	Mon 4/11/19	Thu 7/11/19			
74	Remaining on-grade slab at HRSG	6 days	Fri 8/11/19	Wed 13/11/19			
75	300mm dia. drain to new surface channel	5 days	Sat 2/11/19	Wed 6/11/19			
76	New surface drain u channel	5 days	Mon 4/11/19	Fri 8/11/19			
77	Conduits for streetlight and fs signal	3 days	Wed 6/11/19	Fri 8/11/19			
78	Road base	2 days	Sat 9/11/19	Sun 10/11/19			
79	Road paving	5 days	Mon 11/11/19	Fri 15/11/19			
80	Erect hoarding and gate	2 days	Thu 14/11/19	Fri 15/11/19			
81	Installation of pole for traffic sign@EVA	8 days	Wed 6/11/19	Wed 13/11/19			

16-8002 OS Work Prog (04 Nov 19)      Critical Split ..... Split ..... Summary ▼

Task  Milestone ◆

16/8002 Outstanding Work Programme

16-8002 OS Work Prog (04 Nov 19)\_BC

Wed 4/3/20

ID	Task Name	Duration	Start	Finish	20		
					April 2020	May 2020	June 2020
82	Cleaning and complete remaining works inside manholes@EVA	14 days	Wed 30/10/19	Tue 12/11/19			
83	Street lighting	12 days	Mon 4/11/19	Fri 15/11/19			
84	Lift @ HRSG Installation (Temporary)	30 days	Fri 1/11/19	Sat 30/11/19			
85	<b>Statutory Submissions &amp; Inspection (Incl. HRSG)</b>	<b>368 days</b>	<b>Sat 1/12/18</b>	<b>Fri 13/12/19</b>			
96	<b>C.W. Pump, Intake and Urea Plant and Outstanding External Works</b>	<b>34 days</b>	<b>Mon 28/10/19</b>	<b>Sat 30/11/19</b>			
97	<b>C.W. Pump Area incl. Chlorination Area</b>	18 days	Mon 4/11/19	Thu 21/11/19			
98	Conduits for streetlight and fs signal@ footpath	5 days	Mon 4/11/19	Fri 8/11/19			
99	Road Reinstatement at Demin. Plant Road	8 days	Sat 9/11/19	Sat 16/11/19			
100	Relocation Hoarding to middle road and return area to GEN	5 days	Sun 17/11/19	Thu 21/11/19			
101	<b>Urea Plant + Middle Road</b>	29 days	Sat 2/11/19	Sat 30/11/19			
102	Storm drain to Gully@ MH837	6 days	Mon 4/11/19	Sat 9/11/19			
103	Storm drain MH831 to MH832	6 days	Wed 6/11/19	Mon 11/11/19			
104	FS pipes at Junction of Intake Road and Middle Road	4 days	Tue 5/11/19	Fri 8/11/19			
105	New Oily Drain installation and diversion of FS & foam pipe	3 days	Sat 9/11/19	Mon 11/11/19			
106	Road Base@ Intake Road	3 days	Tue 12/11/19	Thu 14/11/19			
107	Paving@ Intake Road	3 days	Fri 15/11/19	Sun 17/11/19			
108	Reinstatement of irrigation pipes	3 days	Wed 6/11/19	Fri 8/11/19			
109	Ramp of Urea Shelter at North	3 days	Thu 7/11/19	Sat 9/11/19			
110	Conduits for steetlight and fs signal@ Middle Road & junction of Demin. Plant Road	14 days	Mon 4/11/19	Sun 17/11/19			
111	Road Kerb	12 days	Sat 2/11/19	Wed 13/11/19			
112	Road Base	5 days	Thu 14/11/19	Mon 18/11/19			
113	Road Paving	8 days	Tue 19/11/19	Tue 26/11/19			
114	Installation of pole for traffic sign@EVA	3 days	Sun 24/11/19	Tue 26/11/19			
115	Erect hoarding and gate	4 days	Wed 27/11/19	Sat 30/11/19			
116	<b>Other &amp; External works</b>	<b>14 days</b>	<b>Mon 28/10/19</b>	<b>Sun 10/11/19</b>			
118	<b>Rectification of Defects after OP Inspection and before handover to GEN</b>	<b>74 days</b>	<b>Mon 2/3/20</b>	<b>Thu 14/5/20</b>	14 May '20		
119	MSB Rectification and cleaning works	45 days	Mon 2/3/20	Wed 15/4/20	MSB Rectification and cleaning works		
120	Urea Plant Rectification and cleaning works	60 days	Mon 16/3/20	Thu 14/5/20	Urea Plant Rectification and cleaning works		

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**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	2020	2020	2020
		Apr	May	June
	<b>Erection Key Date</b>			
<b>A</b>	<b>HRSG PORTION</b>			
A-01	Install Casing (Bottom/Side/Top) with Structure			
A-02	Upper/Lower Connection Pipe			
A-03	Module Install (Bundle Tube Block)			
A-04	Down Commer Pipe			
A-05	Drum Lifting / HDR Level Adjustment			
A-06	Critical Piping/connecting piping (Main Steam, Aux, R/H, HP/LP Feed Water)			
A-07	Other piping			
A-08	Access Platform / Hand Rail			
A-09	Inside Baffle Plate & Seismic Tie Adjust / Setting			
A-10	SCR System			

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

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		Apr	May	June
	<b>Erection Key Date</b>			
	Installation of Temporary piping, Support & Silencer Exection of Steam blowing out Dismantle of Temporary iping, Support & Silencer Exection of Steam boiling out			
<b>B</b>	<b>GT/ST/GEN PORTION</b>			
B-1	Turbine O/H Crane			
B-2	Condenser			
B-3	Install ST			

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B-4	Install GEN			
B-5	Install GT			

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		Apr	May	June
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B-6	Aux Equipment			
B-7	Insulation			
B-8	Painting			
B-9	Switchgear/Hoist/Hoist for condenser			

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



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No.	Description	2020	2020	2020
		Apr	May	June
	<b>Erection Key Date</b>			
C-4	INSTRUMENTS, INSTR. PIPINGS & AIR TUBE			
	Local Instruments, Piping & Tubing			
	Instrument Calibration			
C-5	OTHER WORK			
	275kV Shunt Reactor Relocation			
	Turbine Overhead Crane, Hoist, Battery Power Supply			
	Existing CWP etc.			
	BOP & Other Works			
	Site Cleaning			
C-6	TESTING & COMMISSIONING			
	Testing & Commissioning			
	Commissioning Assistant			
C-7	Lift Shaft installation	●—●		

ID	Task Name	Duration	Start	Finish	Timeline		
					April 2020	May 2020	June 2020
1	<b>Civil and Building Works for Unit 11 and Associated Works</b>	<b>1197 days</b>	<b>Fri 1/6/18</b>	<b>Thu 30/9/21</b>			
2	<b>Contract Key Dates</b>	<b>1197 days</b>	<b>Fri 1/6/18</b>	<b>Thu 30/9/21</b>			
3	Contract Commencement Date	0 days	Fri 1/6/18	Fri 1/6/18			
4	<b>Completion Dates</b>	<b>1044 days</b>	<b>Wed 31/10/18</b>	<b>Thu 30/9/21</b>			
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	Section A6 (i) - A&A Works for No. 4 C.W. Outfall at Area E18		
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	om GL11-F eastwards leading to Chimney Road at Area E1 & E2		
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	Supporting structures for overhead cranes of L11 MSB including the associated roof structure except the roof deferred works		
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	Section B2 - Retractable Cover D at Area E22		
17	Section B3 - External works at Area B1, D2 and D4	0 days	Thu 30/4/20	Thu 30/4/20		Section B3 - External works at Area B1, D2 and D4	
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	estwards leading to Station Road at Area E3(A) & E3(B)		
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		Section C2 - (ii) L11 Turbo Block foundation including the L11 MSB ground floor together with the equipment	
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	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		
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	E6		
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	G area and its surrounding in Area E6		
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		Section D - (iii) Whole of L11 MSB including the pipe and cable rack along south façade of L11 MSB with a	
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		Section D - (iv) Link Bridge between L10 and L11 MSB and at the south of L11 MSB including their associa	
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		Section F - 275kV Station Building Extension and ass	
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		Section G - A&A Works at No. 4 C.W. Intake at Area	
35	Section H - L11 Steel flue liner at No. 4 Chimney	0 days	Mon 15/7/19	Mon 15/7/19			

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					April 2020	May 2020	June 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			◆ Section I - (i) 275kV cable trenching works connecting the 275kV Switching Sta
37	Section I - (ii) Interconnector 2 Trench Modification Works at Area E10	0 days	Fri 15/5/20	Fri 15/5/20			◆ Section I - (ii) Interconnector 2 Trench Modification Works at Area E10
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	<b>General &amp; Preliminary</b>	<b>318 days</b>	<b>Fri 1/6/18</b>	<b>Wed 24/4/19</b>			
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	<b>Submission and Approval</b>	<b>554 days</b>	<b>Fri 1/6/18</b>	<b>Mon 16/12/19</b>			
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	<b>Coordination with the Employer's Specialist Contractors</b>	<b>478 days</b>	<b>Mon 20/5/19</b>	<b>Sat 19/9/20</b>			
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	Foundation		
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		I-beam / channel base installation on top of transformer foundations at Transfo	
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	<b>Section A1 &amp; A2 - Ground treatment at Zone 1A &amp; 1B</b>	<b>92 days</b>	<b>Wed 1/8/18</b>	<b>Wed 31/10/18</b>			
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			

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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	<b>Section A3 - Ground treatment installation works at Zone 2</b>	<b>158 days</b>	<b>Mon 1/10/18</b>	<b>Sun 17/3/19</b>			
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	<b>Section A4 - Ground treatment installation works at Zone 3</b>	<b>131 days</b>	<b>Thu 1/11/18</b>	<b>Thu 21/3/19</b>			
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	<b>Section A5 (i) - Ground treatment installation works at Zone 4</b>	<b>83 days</b>	<b>Wed 26/12/18</b>	<b>Thu 28/3/19</b>			
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	<b>Section A5 (ii) - Surcharge works at Zone 4</b>	<b>30 days</b>	<b>Tue 1/9/20</b>	<b>Wed 30/9/20</b>			
106	Deposition of surcharge up to +8.3mPD	30 days	Tue 1/9/20	Wed 30/9/20			
107	<b>Section A6 (i) - A&amp;A Works for No. 4 C.W. Outfall at Area E18</b>	<b>493 days</b>	<b>Thu 1/11/18</b>	<b>Sat 28/3/20</b>	Mar '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	(A)		
125	Manhole extension at Outfall no. 4 + backfill + Reinstate of Outfall Rd	45 days	Thu 13/2/20	Sat 28/3/20	hole extension at Outfall no. 4 + backfill + Reinstate of Outfall Rd		
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	<b>Section A6 (ii) - External works at Area E15(D)</b>	<b>37 days</b>	<b>Wed 1/1/20</b>	<b>Sat 15/2/20</b>			
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	<b>Section B1 (i) - Area south of L11 MSB and HRSB from GL11-F eastwards leading to Chimney Road at Area E1 &amp; E2</b>	<b>375 days</b>	<b>Thu 31/1/19</b>	<b>Sun 1/3/20</b>			
134	Area Possession & Clearance	0 days	Thu 31/1/19	Thu 31/1/19			
135	Excavation for CW Inlet Culvert (South of L11 HRSB)	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	in (E1)		
141	Backfill and Temporary paving for Condensor Move in (others)	30 days	Sat 1/2/20	Sun 1/3/20	in (others)		
142	<b>Section B1 (ii) - Supporting structures for overhead cranes of L11 MSB including the associated roof structure except the roof deferred works</b>	<b>482 days</b>	<b>Thu 1/11/18</b>	<b>Tue 17/3/20</b>			
143	Area possession & Clearance	0 days	Thu 1/11/18	Thu 1/11/18			
144	Erection of turbine hall roof except defer work	0 days	Wed 13/11/19	Wed 13/11/19			

ID	Task Name	Duration	Start	Finish	April 2020			May 2020			June 2020			
					1	2	3	1	2	3	1	2	3	
145	Installation of crane griders	21 days	Mon 11/11/19	Sun 1/12/19										
146	Turbine hall wall claddings	60 days	Thu 9/1/20	Tue 17/3/20										
147	<b>Section B1 (iii) - FSRU Civil works at Area E13 (GRS)</b>	<b>151 days</b>	<b>Fri 1/1/21</b>	<b>Mon 31/5/21</b>										
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	<b>Section B2 - Retractable Cover D at Area E22</b>	<b>435 days</b>	<b>Tue 1/1/19</b>	<b>Tue 31/3/20</b>										
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										
156	Superstructure fabrication & delivery	90 days	Fri 9/8/19	Wed 6/11/19										
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	<b>Section B3 - External works at Area B1, D2 and D4</b>	<b>416 days</b>	<b>Fri 1/3/19</b>	<b>Thu 30/4/20</b>										
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	<b>Section C1 - Area south of L11 MSB from GL11-F westwards leading to Station Road at Area E3(A) &amp; E3(B)</b>	<b>466 days</b>	<b>Thu 1/11/18</b>	<b>Sun 1/3/20</b>										
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										
173	Construct Temp Paving for Condenser move in	45 days	Wed 8/1/20	Sun 1/3/20										
174	<b>Section C2 - (i) Southern part of L11 HRSG area and its surrounding at Area E7 (No Defer Foundations)</b>	<b>295 days</b>	<b>Thu 31/1/19</b>	<b>Sun 1/12/19</b>										
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										
181	Backfill and Temporary paving	21 days	Mon 11/11/19	Sun 1/12/19										
182	<b>Section C2 - (ii) L11 Turbo Block foundation including the L11 MSB ground floor together with the equipment foundations between GL 11-F to 11-H and 11-1 to 11-6 for the installation of power generator, air inlet duct and lube oil reservoir</b>	<b>496 days</b>	<b>Sat 1/12/18</b>	<b>Thu 30/4/20</b>										
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										
189	Construction turbine block columns and upper portion for plant embed installation	21 days	Mon 9/9/19	Sun 29/9/19										
190	Concrete Turbine upper part foundation & clear falsework	52 days	Tue 10/3/20	Thu 30/4/20										
191	<b>Section C2 - (iii) G/F of L11 MSB including the Condenser Pit, Circulating Water Pipe Pit and equipment foundations between GL 11-B to 11-C and 11-1 to 11-6 for the installation of condenser</b>	<b>466 days</b>	<b>Thu 1/11/18</b>	<b>Sun 1/3/20</b>										
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										
197	Backfill and Construction ground beams & trenches	18 days	Sun 28/7/19	Wed 14/8/19										

ID	Task Name	Duration	Start	Finish	2020		
					April	May	June
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	<b>Section D - (i) Roads and external grounds surrounding L11 MSB and L11 HRSG in addition to the southern &amp; eastern areas mentioned above in Area E5 and E6</b>	<b>414 days</b>	<b>Thu 1/11/18</b>	<b>Tue 31/12/19</b>			
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	<b>Section D - (ii) Remaining northern part of L11 HRSG area and its surrounding in Area E6</b>	<b>375 days</b>	<b>Thu 31/1/19</b>	<b>Sun 1/3/20</b>			
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	<b>Section D - (iii) Whole of L11 MSB including the pipe and cable rack along south facade of L11 MSB with all underground utilities at Area E4 including C.W. Inlet and Outlet Culvert except the deferred works</b>	<b>526 days</b>	<b>Thu 1/11/18</b>	<b>Thu 30/4/20</b>			
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	<b>Section D - (iv) Link Bridge between L10 and L11 MSB and at the south of L11 MSB including their associated alternations &amp; additions (A&amp;A) Works at L10 MSB</b>	<b>526 days</b>	<b>Thu 1/11/18</b>	<b>Thu 30/4/20</b>			
251	Area Possession & Clearance	0 days	Thu 1/11/18	Thu 1/11/18			

ID	Task Name	Duration	Start	Finish	Timeline		
					April 2020	May 2020	June 2020
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	<b>Section D - (v) Gas Duct Foundation, Pipe and Cable Rack and associated trench in Area E20</b>	<b>345 days</b>	<b>Mon 11/2/19</b>	<b>Sat 1/2/20</b>			
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 utitiies	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	<b>Section E1 - (i) Link Bridge and Pipe and Cable Rack connecting L11 MSB to the western area of L11 MSB at Area E3</b>	<b>263 days</b>	<b>Wed 1/1/20</b>	<b>Mon 28/9/20</b>			
268	Area Possession	0 days	Wed 1/1/20	Wed 1/1/20			
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	<b>Section E1 - (ii) Gas Receiving Station and L11 Gas Receiving Station Equipment Room (GRS) Area Extension at Area E16</b>	<b>173 days</b>	<b>Wed 1/1/20</b>	<b>Tue 30/6/20</b>			
274	Area Possession	0 days	Wed 1/1/20	Wed 1/1/20			
275	Removal of Surcharge and excavation	14 days	Wed 1/1/20	Tue 14/1/20			
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	<b>Section E1 - (iii) External Works at Area E15 ( C )</b>	<b>273 days</b>	<b>Mon 1/6/20</b>	<b>Sun 28/2/21</b>			
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	<b>Section E2 - Pipe and Cable Rack and trench at west of Chimney Road and Pipe and Cable Rack at south of Middle Road at Area E8 and E19</b>	<b>495 days</b>	<b>Wed 1/5/19</b>	<b>Thu 17/9/20</b>			
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			
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	<b>Section E3 - Gas Pipe Support Foundation and Pipe Trench and associated external works at Area E14, E15 (A) and E15 (B)</b>	<b>173 days</b>	<b>Wed 1/1/20</b>	<b>Tue 30/6/20</b>			
299	Removal of surcharge / site clearance	21 days	Wed 1/1/20	Tue 21/1/20			
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	<b>Section E4 - 275kV cable trenching works connecting the 275kV Switching Station Extension and L11 MSB at Area E9 (A)</b>	<b>185 days</b>	<b>Fri 15/3/19</b>	<b>Sun 15/9/19</b>			
305	Site possession	0 days	Fri 15/3/19	Fri 15/3/19			
306	Obtain Permit to work & Road close permit	10 days	Fri 15/3/19	Sun 24/3/19			

ID	Task Name	Duration	Start	Finish	Timeline		
					April 2020	May 2020	June 2020
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	<b>Section F - 275kV Station Building Extension and associated works at Area E17</b>	<b>709 days</b>	<b>Fri 1/6/18</b>	<b>Sat 30/5/20</b>	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 & Louvre 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	<b>Section G - A&amp;A Works at No. 4 C.W. Intake at Area E12</b>	<b>143 days</b>	<b>Wed 1/1/20</b>	<b>Sun 31/5/20</b>	c.I(i)		
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	<b>Section H - L11 Steel flue liner at No. 4 Chimney</b>	<b>186 days</b>	<b>Tue 1/1/19</b>	<b>Mon 15/7/19</b>	c.I(ii)		
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	Reinstatate G/F louvre wall and access door	45 days	Sat 1/6/19	Mon 15/7/19			
370	<b>Section I - (i) 275kV cable trenching works connecting the 275kV Switching Station Extension and L11 MSB at Area E9 (B)</b>	<b>232 days</b>	<b>Sun 15/9/19</b>	<b>Fri 15/5/20</b>	c.I(i)		
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			
373	Re-excavate cable trench for cable laying	72 days	Thu 5/3/20	Fri 15/5/20			
374	<b>Section I - (ii) Interconnector 2 Trench Modification Works at Area E10</b>	<b>275 days</b>	<b>Wed 1/4/20</b>	<b>Thu 31/12/20</b>	c.I(ii)		
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			



ID	Task Name	Duration	Start	Finish	Timeline		
					April 2020	May 2020	June 2020
377	<b>Section J - (i) Demolition of Retractable Cover A&amp;B &amp; (ii) Construction of new LOT 3 &amp; 4</b>	<b>426 days</b>	<b>Sun 1/3/20</b>	<b>Fri 30/4/21</b>			
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	Removal of existing cover & structural steel		
381	Demolish of existing bund wall and staircases	45 days	Tue 21/4/20	Thu 4/6/20	Demolish of existing bund wall and staircase		
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	<b>Section K1 - External works at Area 15 ( E ) and 15( F )</b>	<b>365 days</b>	<b>Mon 1/6/20</b>	<b>Mon 31/5/21</b>	1 Jun '20 Sec.K1		
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	<b>Section K2 - Removal of Southern Bund and External Works at Area D5, D6 and D7</b>	<b>365 days</b>	<b>Mon 1/6/20</b>	<b>Mon 31/5/21</b>	1 Jun '20 Sec.K2		
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	<b>Section K3 - All remaining works shall be completed for reporting completion to BD and ready for OP inspection (PS1.4.4)</b>	<b>623 days</b>	<b>Wed 8/1/20</b>	<b>Thu 30/9/21</b>			
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			

Schedule of U11 Construction

ID	タスク名	
1	Key Date	
2	H/O HRSG Foundation	
3	H/O OHC Installation	
4	H/O Condenser foundation	
5	H/O Aux. equipment foundation of HRSG noi	
6	H/O HRSG Exhaust duct	
7	H/O GT Exhaust duct foundation	
8	H/O MSB building	foundation → 05/01
9	H/O Foundation around CCW-Cooler	SB building → 05/01 /O Foundation around CCW-Cooler → 0
10	Hydrostatic test	
11	Receiving Lube oil	
12	Synchronization	
13		
14	HRSG	_____
75		
76	HRSG Exhaust duct	_____
91		
92	Over Head Crane	
102		
103	Condenser	_____
128		
129	GT/ST/Generator	Generator _____
161		
162	GT Air inlet	GT Air inlet _____
175		
176	Auxiliary Equipment (O/B)	_____
247		
248	Sea water intake area	Sea water intake area _____
260		
261	Tranceformer area	Tranceformer area _____
269	Building structure	_____
276		
277	Piping	_____
285		
286	Crane	_____
304		
305	Equipment for heavy lifting	_____

2020年 第2回定期  
 2020年04月 2020年05月 2020年06月  
 11. 初半 12. 中半 13. 後半 14. 初半 15. 後半

SUNLEY ENGINEERING & CONSTRUCTION CO., LTD.

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

**Master Programme (Rev.1)**

ID	Task Name	Duration	Start	Finish	2019												2020											
					Gantt Chart Area												Gantt Chart Area											
1	<b>Key Date</b>	<b>542 days</b>	<b>Feb 1 '19</b>	<b>Jul 26 '20</b>																								
2	Commencement date	542 days	Feb 1 '19	Jul 26 '20																								
3																												
4	<b>Total Contract Period</b>	<b>542 days</b>	<b>Feb 1 '19</b>	<b>Jul 26 '20</b>																								
5																												
6	<b>Preliminaries</b>	<b>21 days</b>	<b>Feb 1 '19</b>	<b>Feb 21 '19</b>																								
7	Coordination with utility companies	14 days	Feb 1 '19	Feb 14 '19																								
8	Pre-construction condition survey	14 days	Feb 1 '19	Feb 14 '19																								
9	Notification of commencement of works to Labour Department	7 days	Feb 1 '19	Feb 7 '19																								
10	Notification of air pollution control for commencement of works to EPD	7 days	Feb 1 '19	Feb 7 '19																								
11	Application of water discharge licence from EPD	7 days	Feb 1 '19	Feb 7 '19																								
12	Application for billing account for disposal of construction waste from EPD	7 days	Feb 1 '19	Feb 7 '19																								
13	CCTV for existing underground drainage pipe around site boundary	21 days	Feb 1 '19	Feb 21 '19																								
14	Utility detection for existing underground cables	21 days	Feb 1 '19	Feb 21 '19																								
15	Site clearance	21 days	Feb 1 '19	Feb 21 '19																								
16	Set up contractor's site office	21 days	Feb 1 '19	Feb 21 '19																								
17	Installation of monitoring checkpoints	20 days	Feb 1 '19	Feb 20 '19																								
18	Submission of BA10 for ELS & foundation works	7 days	Feb 1 '19	Feb 7 '19																								
19																												
20	<b>Predrilling Works for Section of A1 to A3 (Area P1 to P3)</b>	<b>96 days</b>	<b>Feb 1 '19</b>	<b>May 7 '19</b>																								
21	Drilling rigs mobilization	10 days	Feb 1 '19	Feb 10 '19																								
22	Predrilling works (46 holes) (8 rigs)	81 days	Feb 11 '19	May 2 '19																								
23	Submission of predrill logs	71 days	Feb 26 '19	May 7 '19																								
24	Completion of predrilling works	0 days	May 7 '19	May 7 '19																								
25																												
26	<b>Plant Mobilization for Bored Pile Construction</b>	<b>151 days</b>	<b>Mar 18 '19</b>	<b>Aug 15 '19</b>																								
27	<b>Crawler Crane</b>	<b>137 days</b>	<b>Mar 18 '19</b>	<b>Aug 1 '19</b>																								
28	1st & 2nd set	21 days	Mar 18 '19	Apr 7 '19																								
29	3rd set	21 days	Apr 1 '19	Apr 21 '19																								
30	4th & 5th set	21 days	Jun 14 '19	Jul 4 '19																								
31	6th set	21 days	Jul 12 '19	Aug 1 '19																								
32	<b>Oscillator</b>	<b>137 days</b>	<b>Mar 18 '19</b>	<b>Aug 1 '19</b>																								
33	1st & 2nd set	21 days	Mar 18 '19	Apr 7 '19																								
34	3rd set	21 days	Apr 1 '19	Apr 21 '19																								
35	4th & 5th set	21 days	Jun 14 '19	Jul 4 '19																								
36	6th set	21 days	Jul 12 '19	Aug 1 '19																								
37	<b>RCD</b>	<b>130 days</b>	<b>Apr 8 '19</b>	<b>Aug 15 '19</b>																								
38	1st & 2nd set	14 days	Apr 8 '19	Apr 21 '19																								
39	3rd set	14 days	Apr 22 '19	May 5 '19																								
40	4th & 5th set	14 days	Jul 5 '19	Jul 18 '19																								
41	6th set	14 days	Aug 2 '19	Aug 15 '19																								
42	Completion of plant mobilization for bored pile construction	0 days	Aug 15 '19	Aug 15 '19																								
43																												
44	<b>Delivery of Temporary Steel Casing for Bored Pile Construction</b>	<b>151 days</b>	<b>Mar 18 '19</b>	<b>Aug 15 '19</b>																								
45	Duration for delivery of temporary steel casing	151 days	Mar 18 '19	Aug 15 '19																								
46	Completion of delivery of temporary steel casing for bored pile construction	0 days	Aug 15 '19	Aug 15 '19																								
47																												
48	<b>Delivery of Permanent Casing &amp; Double Wall Liner</b>	<b>369 days</b>	<b>Mar 18 '19</b>	<b>Mar 20 '20</b>																								
49	Testing for double wall liner	45 days	Mar 18 '19	May 1 '19																								
50	Duration for delivery of permanent casing & double wall liner	325 days	May 1 '19	Mar 20 '20																								
51																												

Master Programme  
24 Mar 2020

Task Critical Task Milestone Summary

**Master Programme (Rev.1)**

ID	Task Name	Duration	Start	Finish	2019												2020		
					Gantt Chart Area												M15	M16	M17
					A												M	J	
52	<b>Section A1</b>	<b>320 days</b>	<b>Mar 18 '19</b>	<b>Jan 31 '20</b>	[Gantt bars for Section A1]														
53	<b>Bored Pile Construction at P1 (17 piles)</b>	<b>299 days</b>	<b>Apr 8 '19</b>	<b>Jan 31 '20</b>	[Gantt bars for Bored Pile Construction at P1]														
54	1st set plant - BP1 > BP5 > BP9 > BP26 > BP13 > BP12 > BP8 > BP4 > G2 > G4 > G6	273 days	Apr 8 '19	Jan 5 '20	[Gantt bar for 1st set plant]														
55	3rd set plant - G8	45 days	Apr 22 '19	Jun 5 '19	[Gantt bar for 3rd set plant - G8]														
56	3rd set plant - BPC3 > BPC4 > BPC5 > BPC6 > BPC7	135 days	Aug 30 '19	Jan 11 '20	[Gantt bar for 3rd set plant - BPC3 > BPC4 > BPC5 > BPC6 > BPC7]														
57	Interface & sonic test	28 days	Jan 4 '20	Jan 31 '20	[Gantt bar for Interface & sonic test]														
58	Completion of bored pile construction at P1	0 days	Jan 31 '20	Jan 31 '20	[Gantt bar for Completion of bored pile construction at P1]														
59																			
60	<b>Sheet Pile at P1</b>	<b>215 days</b>	<b>Jul 1 '19</b>	<b>Jan 31 '20</b>	[Gantt bars for Sheet Pile at P1]														
61	Delivery of sheet pile material	14 days	Jul 1 '19	Jul 14 '19	[Gantt bar for Delivery of sheet pile material]														
62	Installation of sheet pile (approx. 57 piles) (1 rig)	10 days	Jul 17 '19	Jul 26 '19	[Gantt bar for Installation of sheet pile (approx. 57 piles) (1 rig)]														
63	Installation of sheet pile (approx. 254 piles) (1 rig)	38 days	Dec 17 '19	Jan 23 '20	[Gantt bar for Installation of sheet pile (approx. 254 piles) (1 rig)]														
64	Prepare & submit as-built record plan	7 days	Jan 24 '20	Jan 30 '20	[Gantt bar for Prepare & submit as-built record plan]														
65	Submission of BA14	1 day	Jan 31 '20	Jan 31 '20	[Gantt bar for Submission of BA14]														
66	Completion of sheet pile at P1	0 days	Jan 31 '20	Jan 31 '20	[Gantt bar for Completion of sheet pile at P1]														
67																			
68	<b>Cone Penetration Test</b>	<b>104 days</b>	<b>Mar 18 '19</b>	<b>Jun 29 '19</b>	[Gantt bars for Cone Penetration Test]														
69	Plant mobilization	14 days	Mar 18 '19	Mar 31 '19	[Gantt bar for Plant mobilization]														
70	Carry out CPTU testing (9 nos.) (1 rig)	90 days	Apr 1 '19	Jun 29 '19	[Gantt bar for Carry out CPTU testing (9 nos.) (1 rig)]														
71	Completion of cone penetration test	0 days	Jun 29 '19	Jun 29 '19	[Gantt bar for Completion of cone penetration test]														
72	Completion of section A1	0 days	Jan 31 '20	Jan 31 '20	[Gantt bar for Completion of section A1]														
73																			
74	<b>Section A2</b>	<b>197 days</b>	<b>Apr 8 '19</b>	<b>Oct 21 '19</b>	[Gantt bars for Section A2]														
75	<b>Bored Pile Construction at P2 (11 piles)</b>	<b>197 days</b>	<b>Apr 8 '19</b>	<b>Oct 21 '19</b>	[Gantt bars for Bored Pile Construction at P2 (11 piles)]														
76	2nd set plant - BP23 > BP24 > BP27 > BP16 > BP20 > BP17	158 days	Apr 8 '19	Sep 12 '19	[Gantt bar for 2nd set plant - BP23 > BP24 > BP27 > BP16 > BP20 > BP17]														
77	3rd set plant - G10 > BP21 > BPC8 > BPC1 > BPC2	135 days	May 12 '19	Sep 23 '19	[Gantt bar for 3rd set plant - G10 > BP21 > BPC8 > BPC1 > BPC2]														
78	Interface & sonic test	28 days	Sep 24 '19	Oct 21 '19	[Gantt bar for Interface & sonic test]														
79	Completion of bored pile construction at P2	0 days	Oct 21 '19	Oct 21 '19	[Gantt bar for Completion of bored pile construction at P2]														
80	Completion of section A2	0 days	Oct 21 '19	Oct 21 '19	[Gantt bar for Completion of section A2]														
81																			
82	<b>Section A3</b>	<b>386 days</b>	<b>May 18 '19</b>	<b>Jun 6 '20</b>	[Gantt bars for Section A3]														
83	<b>Bored Pile Construction at P3 (18 piles)</b>	<b>338 days</b>	<b>Jul 5 '19</b>	<b>Jun 6 '20</b>	[Gantt bars for Bored Pile Construction at P3 (18 piles)]														
84	4th set plant - G1 > G3 > G5 > G7 > G9	225 days	Jul 5 '19	Feb 14 '20	[Gantt bar for 4th set plant - G1 > G3 > G5 > G7 > G9]														
85	5th set plant - BP15 > BP19 > BP22 > BP25 > BP3	285 days	Jul 5 '19	Apr 14 '20	[Gantt bar for 5th set plant - BP15 > BP19 > BP22 > BP25 > BP3]														
86	6th set plant - BP28 > BP6 > BP7 > BP11 > BP2 > BP18 > BP14 > BP10	264 days	Aug 2 '19	Apr 21 '20	[Gantt bar for 6th set plant - BP28 > BP6 > BP7 > BP11 > BP2 > BP18 > BP14 > BP10]														
87	Interface & sonic test	14 days	Apr 22 '20	May 5 '20	[Gantt bar for Interface & sonic test]														
88	Prepare & submit as-built record plan	14 days	May 6 '20	May 19 '20	[Gantt bar for Prepare & submit as-built record plan]														
89	Submission of BA14	1 day	May 13 '20	May 13 '20	[Gantt bar for Submission of BA14]														
90	Allow 14 days for selection of pile for concrete full core test	14 days	May 14 '20	May 27 '20	[Gantt bar for Allow 14 days for selection of pile for concrete full core test]														
91	Concrete full core test	10 days	May 28 '20	Jun 6 '20	[Gantt bar for Concrete full core test]														
92	Completion of bored pile construction at P3	0 days	Jun 6 '20	Jun 6 '20	[Gantt bar for Completion of bored pile construction at P3]														
93																			
94	<b>Sheet Pile at P3</b>	<b>60 days</b>	<b>May 18 '19</b>	<b>Jul 16 '19</b>	[Gantt bars for Sheet Pile at P3]														
95	Plant mobilization	7 days	May 25 '19	May 31 '19	[Gantt bar for Plant mobilization]														
96	Delivery of sheet pile material	14 days	May 18 '19	May 31 '19	[Gantt bar for Delivery of sheet pile material]														
97	Installation of sheet pile (approx. 626 piles) (2 rigs)	46 days	Jun 1 '19	Jul 16 '19	[Gantt bar for Installation of sheet pile (approx. 626 piles) (2 rigs)]														
98	Completion of sheet pile at P3	0 days	Jul 16 '19	Jul 16 '19	[Gantt bar for Completion of sheet pile at P3]														
99	Completion of section A3	0 days	Jun 6 '20	Jun 6 '20	[Gantt bar for Completion of section A3]														
100																			
101	<b>Section B</b>	<b>265 days</b>	<b>Nov 5 '19</b>	<b>Jul 26 '20</b>	[Gantt bars for Section B]														
102	<b>Shunt Reactor</b>	<b>144 days</b>	<b>Mar 2 '20</b>	<b>Jul 23 '20</b>	[Gantt bars for Shunt Reactor]														

**Master Programme (Rev.1)**

ID	Task Name	Duration	Start	Finish	2019												2020											
103	Site possession date	0 days	Mar 2 '20	Mar 2 '20																								
104	Plant mobilization	4 days	Mar 2 '20	Mar 5 '20																								
105	<b>Bored Pile Construction (4 piles)</b>	<b>140 days</b>	<b>Mar 6 '20</b>	<b>Jul 23 '20</b>																								
106	BP4>BP3>BP1>BP2	102 days	Mar 6 '20	Jun 15 '20																								
107	Interface & sonic test	7 days	Jun 15 '20	Jun 21 '20																								
108	Prepare & submit as-built record plan	16 days	Jun 22 '20	Jul 7 '20																								
109	Submission of BA14	1 day	Jul 1 '20	Jul 1 '20																								
110	Allow 14 days for selection of pile for concrete full core test	14 days	Jul 2 '20	Jul 15 '20																								
111	Concrete full core test	8 days	Jul 16 '20	Jul 23 '20																								
112	Completion of bored pile construction	0 days	Jul 23 '20	Jul 23 '20																								
113	Completion of shunt reactor	0 days	Jul 23 '20	Jul 23 '20																								
114																												
115	<b>Cable Bridge</b>	<b>265 days</b>	<b>Nov 5 '19</b>	<b>Jul 26 '20</b>																								
116	Site possession date	0 days	Nov 18 '19	Nov 18 '19																								
117	<b>Predrilling Works for Bored Pile</b>	<b>39 days</b>	<b>Nov 18 '19</b>	<b>Dec 26 '19</b>																								
118	Predrilling works (4 holes) (1 rig)	29 days	Nov 18 '19	Dec 16 '19																								
119	Submission of predrill logs	10 days	Dec 17 '19	Dec 26 '19																								
120	Completion of predrilling works	0 days	Dec 26 '19	Dec 26 '19																								
121																												
122	<b>Bored Pile Construction (8 piles)</b>	<b>203 days</b>	<b>Nov 18 '19</b>	<b>Jun 7 '20</b>																								
123	CP6-7 > CP6-5 > CP6-6 > CP6-8 > CP6-2 > CP6-4> CP6-1>CP6-3 (1 set of plant)	155 days	Nov 18 '19	Apr 20 '20																								
124	Interface & sonic test	12 days	Apr 21 '20	May 2 '20																								
125	Prepare & submit as-built record plan	18 days	May 3 '20	May 20 '20																								
126	Submission of BA14	1 day	May 14 '20	May 14 '20																								
127	Allow 14 days for selection of pile for concrete full core test	14 days	May 15 '20	May 28 '20																								
128	Concrete full core test	10 days	May 29 '20	Jun 7 '20																								
129	Completion of bored pile construction	0 days	Jun 7 '20	Jun 7 '20																								
130																												
131	<b>Temporary Working Platform for Socketted H-Pile Construction</b>	<b>66 days</b>	<b>Nov 5 '19</b>	<b>Jan 9 '20</b>																								
132	Material delivery for temporary working platform erection	28 days	Nov 5 '19	Dec 2 '19																								
133	Erection of temporary working platform	53 days	Nov 18 '19	Jan 9 '20																								
134	Completion of temporary working platform	0 days	Jan 9 '20	Jan 9 '20																								
135																												
136	<b>Socketted H-Pile Construction (14 piles)</b>	<b>199 days</b>	<b>Jan 10 '20</b>	<b>Jul 26 '20</b>																								
137	Trial pile installation (1 pile)	13 days	Jan 10 '20	Jan 22 '20																								
138	Socketted H-pile installation (29 piles) (1 set plant)	77 days	Jan 23 '20	Apr 8 '20																								
139	Post drill	14 days	Apr 9 '20	Apr 22 '20																								
140	Prepare & submit as-built record plan	14 days	Apr 23 '20	May 6 '20																								
141	Submission of BA14	1 day	Apr 30 '20	Apr 30 '20																								
142	Allow 14 days for selection of pile for loading test	14 days	May 1 '20	May 14 '20																								
143	Set up loading test platform for 1st pile testing	15 days	May 15 '20	May 29 '20																								
144	Loading test for 1st pile	4 days	May 30 '20	Jun 2 '20																								
145	Set up loading test platform for 2nd pile testing	15 days	Jun 3 '20	Jun 17 '20																								
146	Loading test for 2nd pile	4 days	Jun 18 '20	Jun 21 '20																								
147	Submission of the report	5 days	Jun 22 '20	Jun 26 '20																								
148	Dismantle of the platform	30 days	Jun 27 '20	Jul 26 '20																								
149	Completion of socketted H-pile construction	0 days	Jul 26 '20	Jul 26 '20																								
150	Completion of cable bridge	0 days	Jul 26 '20	Jul 26 '20																								
151	Completion of section B	0 days	Jul 26 '20	Jul 26 '20																								
152	Contract completion	0 days	Jul 26 '20	Jul 26 '20																								