ID Task Name					amme (01-8-2017	/IPP			25/02/1
ID	Task Name	Duration	Start	Finish		March 2019	Half 1, 2019	April 2019	May 2019
1	Contract Key Date	1308 days	01/11/16	31/05/20				•	
2	Possession Date	1308 days	01/11/16	31/05/20					
3	Contract Commencement Date	0 days	01/11/16	01/11/16					
4	Section A1 - Modify Plinth at Ext. GRS	61 days	01/11/16	31/12/16					
5	Section A2 - LPS Site Office Building	410 days	18/12/16	31/01/18					
6	Section B1 - Area C1&2 incl. all UG structures & Temp. Access for Empolyer's Specialis	426 days	12/12/16	10/02/18					
7	Section B2 - Surcharge relocation & assoicated top-up works	122 days	01/09/17	31/12/17					
8	Section C - Area C3, HRSG & MSBU10 for Empolyer's Specialist	457 days	13/12/16	14/03/18					
9	Section D - Remaining of MSBU10, HRSG, A&A at L9 & L8, Ext. & Demolish Site Toilet	516 days	22/12/16	21/05/18					
10	Section D - CW Pump Equip. Rm No. 4	365 days	01/04/17	31/03/18					
11	Section E - Middel Rd & South of L10. Expose & Construction New 275kV Trench at LN	577 days	01/11/16	31/05/18					
12	Section F -Urea Storage & Handling Factilies	488 days	01/05/17	31/08/18					
13	Section G - Demin. Plant Road & No.3 Outfall	273 days	01/01/18	30/09/18					
14	Section G - Modification at No. 4 CW Intake	122 days	01/06/18	30/09/18					
15	Section H1 - Gas Support foundation & trench at Area C11 Section H2 - GRS Improvement work at Area C10	745 days	01/11/16	15/11/18					
16 17	·	441 days	01/09/17	15/11/18					
18	Section H3 - L10 Chimney Flue and A&A L9 & pipe rack formation  Section I1 - Link Bridge & associated A&A	319 days 455 days	01/01/18 06/01/17	15/11/18 05/04/18					
19	Section I2 - Shunt Reactor SR4 Foundation	90 days	01/01/19	31/03/19			4Section I2 -	Shunt Reactor SR4 Foundation	
20	Section 13 - All remaining work except deferred works	417 days	08/02/18	31/03/19			•	All remaining work except deferred v	vorks
21	Section J - Cable Route CPX1&2 cable diversion & whole of work except deferred	790 days	00/02/16	30/12/18	carried out in DL	P	ection is -	All remaining work except deferred v	VOIRS
	works to be carried out in DLP				Surrisu Sur III D				
22	Deferred works during DLP	336 days	01/07/19	31/05/20					
23	General & Preliminary	552 days	01/11/16	06/05/18					
25	Set up Temporary Site Office and Utilities Full Mobilization	30 days	01/11/16 01/11/16	30/11/16 14/11/16					
26	Permit Applications & Statuary Submissions	14 days	08/11/16	22/12/16					
27	Existing Utilities scanning & Excavation Permit	45 days 45 days	06/11/16	15/12/16					
28	Foundation of Tower Crane Construction	7 days	05/04/17	11/04/17					
29	Tower Crane Erection	5 days	12/04/17	16/04/17					
30	Removal of Tower Crane (Including Foundation)	14 days	23/04/18	06/05/18					
31	L10 MSB External Scaffolding erection	120 days	12/09/17	09/01/18					
32	L10 MSB External Scaffolding Removal	14 days	09/04/18	22/04/18					
33	Submission and Approval	450 days	01/11/16	24/01/18					
34	Method Statement / Temp Work Submission & Approval from HEC for General Works	240 days	01/11/16	28/06/17					
35	BD Approval & Consent (If required)	90 days	01/12/16	28/02/17					
36	BIM Model, CSD & CBWD Submission & Approval from HEC	200 days	01/12/16	18/06/17					
37	Structure Steelwork Connection Design Submission & BD Approval	30 days	31/12/16	29/01/17					
38	Structure Steelwork Shop Drawing & Approval	30 days	30/01/17	28/02/17					
39	Metal Cladding, louvre & windows submission & BD Approval	60 days	30/01/17	30/03/17					
40	Metal Cladding, louvre & windows shop drawing submission	45 days	14/02/17	30/03/17					
41	Order, Off Site Fabrication and Delivery (S. Steel & Cladding & louvres)	180 days	31/03/17	26/09/17	-				
42	CW Culvert (Inlet) ELS BD approval & consent	90 days	31/03/17	28/06/17					
43	Sumission & Approval of Steel Flue Assessment Report and Design Drawings	210 days	31/12/16	28/07/17					
44	Submission and Approval of Steel Flue Design from BD	90 days	29/07/17	26/10/17					
45	Material Fabrication & Delivery for L10 Flue	100 days	27/09/17	04/01/18					
46	Folding Shutters Shop Drawing Submission & Approval	120 days	01/03/17	28/06/17					
47	Fabrication & Delivery of Foldering Shutters	150 days	29/06/17	25/11/17					
48	Sewage Pump System Design submission & Approval	45 days	13/08/17	26/09/17					
49	Fabrication & Delivery of Sewage Pump	120 days	27/09/17	24/01/18					
50	Other Material Submission & Approval & Deliverys	240 days	31/03/17	25/11/17					
51	Coordination with the Employer's Specialist Contractors	480 days	09/07/17	31/10/18					
52	Outlet Culvert Box Verical Puddle Pipes Installation	7 days	09/07/17	15/07/17					
53	Inlet Culvert Box Verical Puddle Pipes Installation	7 days	05/09/17	11/09/17					
54	Template setting in at L10 Turbo Block Foundation	45 days	12/10/17	25/11/17					
16_8	8002 Rev4 Master Progra Critical Split	Split		Mi	lestone •	Summa	ary 🔻	•	
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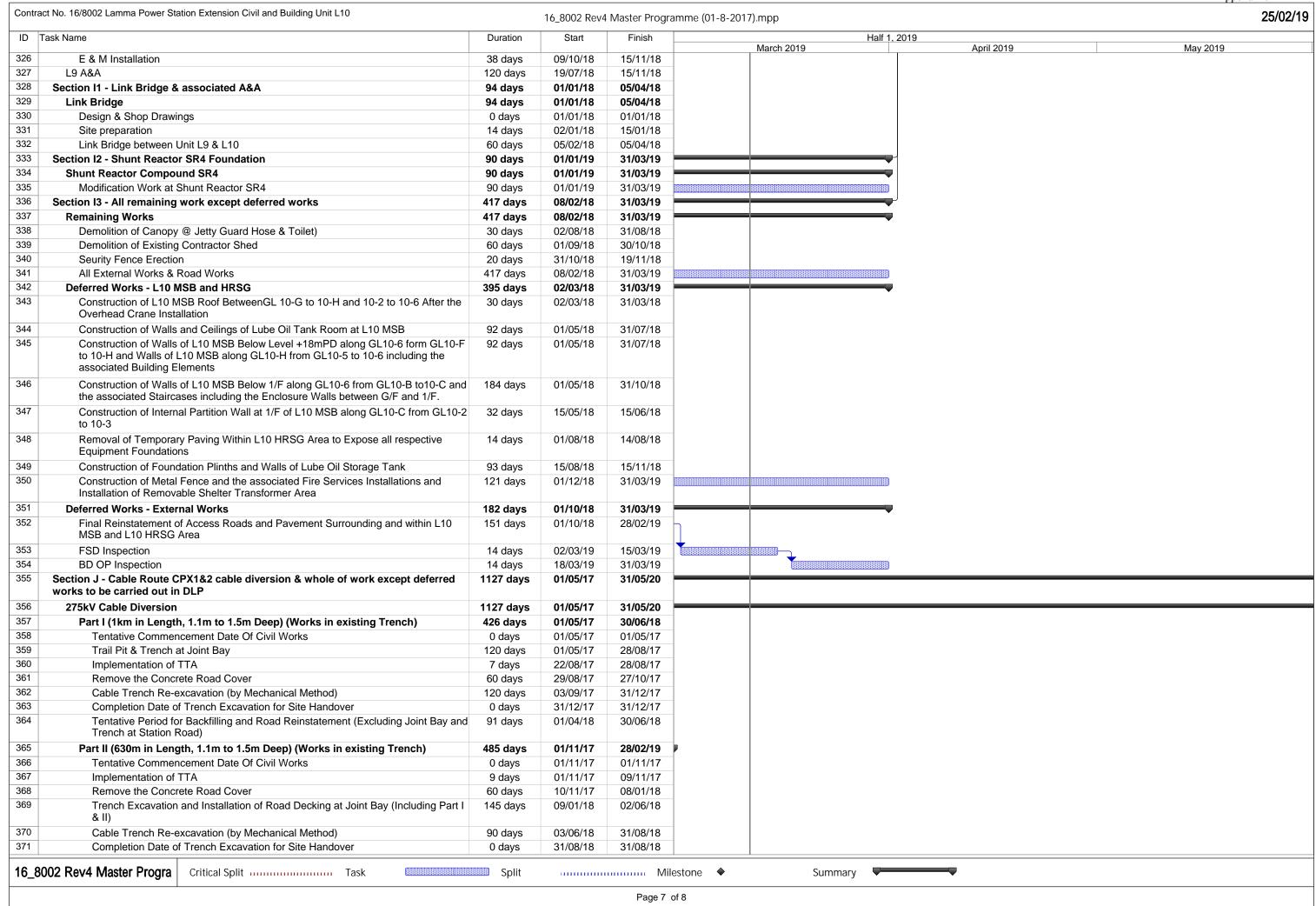
Task Name		Duration	Start	Finish	March 2010	Half 1, 2019	A = =:1 0040	May 2040
5 Template setting	g of holding down bolts at HRSG Column Base	45 days	16/08/17	29/09/17	March 2019		April 2019	May 2019
	el Base Installation on top of Transformer Foundations at Transformer A	32 days	12/10/17	12/11/17				
7 Overhead crane	e rail installation	14 days	15/01/18	28/01/18				
Overhead Crand at L10 MSB Roo	e Erection at Turbine Hall using Access through a Temporary Opening of between GL 10-G to 10-H and 10-2 and 10-6	21 days	29/01/18	18/02/18				
	embly and Erection using Access through a Temporary Opening at L10 along GL 10-6 from GL 10-B to 10-C including a Clear Space below 1/F-B to 10-C	89 days	01/02/18	30/04/18				
Temporary Faça	ower Train Equipment including Air Inlet Duct using Access through a ade Opening at L10 MSB below 1/F along GL 10-6 from GL 10-F to a Clear Space below 1/F of the above Area	89 days	07/02/18	06/05/18				
	quipment in L10 HRSG Area after the Temporary Paving was Removed Respective Foundations by the Contractor	78 days	15/08/18	31/10/18				
2 Installation of E	mbedded Materials such as Holding Down Bolts for Equipment Foundati	200 days	30/07/17	14/02/18				
3 Section A1 - Modi	ify Plinth at Ext. GRS	61 days	01/11/16	31/12/16				
4 Existing Plinth F	Removal	18 days	01/11/16	18/11/16				
5 Wall Base & Pli	nth Construction	45 days	17/11/16	31/12/16				
6 Pipe Rcak at Unit	9 North (VO under El No. 6)	197 days	29/01/17	14/08/17				
	A10 Submissions	0 days	29/01/17	29/01/17				
8 Hoarding & Plar		18 days	30/01/17	16/02/17				
	uction & Reinstatement	120 days	17/02/17	16/06/17				
	Fabrication, Delivery & Erection	60 days	16/06/17	14/08/17				
	Site Office Building	457 days	01/11/16	31/01/18				
	Shop Drawings and Approval	90 days	01/11/16	29/01/17				
	pproval of CSD & CBWD	60 days	15/01/17	15/03/17				
-	learance by HKE	0 days	01/11/16	01/11/16				
75 Demolish of exis	•	21 days	01/11/16	21/11/16				
BA 10 Application		0 days	01/11/16	01/11/16				
77 Erection of Hord	•	7 days	01/11/16	07/11/16				
<ul><li>Plate Load Test</li><li>Installation of Ea</li></ul>		7 days	08/11/16	14/11/16				
	pad footing, bearing wall, columns up to G/F	18 days 45 days	15/11/16 03/12/16	02/12/16 16/01/17				
Chinese New York		10 days	27/01/17	05/02/17				
	rainage within Building	75 days	17/01/17	01/04/17				
Backfill & Blindi	•	4 days	02/04/17	05/04/17				
	on-grade slab & External Scaffold Erection	12 days	06/04/17	17/04/17				
	mns and Slab up to 1/F	100 days	18/04/17	26/07/17				
	mns and Slab up to R/F	40 days	13/07/17	21/08/17				
	S Water Tank, Top Roofs + RC curb, hatch door etc	21 days	22/08/17	11/09/17				
	or Liift pit + Water test	14 days	15/08/17	28/08/17				
	ouvre, Doors Frame & Shutter Frame	30 days	26/08/17	24/09/17				
G/F Finishing W		45 days	09/09/17	23/10/17				
	k Drainage Works	30 days	09/10/17	07/11/17				
	tting and Cubicles	30 days	30/10/17	28/11/17				
	ry metal, railing, etc	45 days	24/10/17	07/12/17				
G/F Placing Fur		10 days	21/01/18	30/01/18				
	ouvre & Door Frames	30 days	21/09/17	20/10/17				
96 1/F Finishing W		45 days	05/10/17	18/11/17				
	Sanitary Fittings & Drainage Works	21 days	04/11/17	24/11/17				
	ry metal, railing, etc	60 days	21/10/17	19/12/17				
-	proofing Installation + Testing	45 days	03/10/17	16/11/17				
R/F Finishing W R/F Plumbing W	Vorks (incl. Water Tank & FS Pump Room)	45 days	03/10/17 17/11/17	16/11/17 30/11/17				
	tal, Handrail & Glazed Railing	14 days 30 days	17/11/17	16/12/17				
	oor a& Shutter leafs	30 days	17/11/17	16/12/17				
04 Handover of lift		0 days	28/08/17	28/08/17				
	+ EMSD Inspection + Issue of Lift Cert	90 days	29/08/17	26/11/17				
		-						
6_8002 Rev4 Master I	Progra Critical Split Task	Split		Milestone	♦ Sum	mary		

4	ask Name	Duration	Start	Finish		Half 1, 2019	A !! 22.5	
6	Electrial Installation	85 days	24/10/17	16/01/18	March 2019		April 2019	May 2019
,	Fire Service Installation	85 days	24/10/17	16/01/18				
3	MVAC Installation	85 days	24/10/17	16/01/18				
$\forall$	Testing & Commissioning Works	10 days	07/01/18	16/01/18				
)	External Wall Finishing Works	45 days	03/10/17	16/11/17				
$\forall$	Removal of Scaffolding	14 days	17/11/17	30/11/17				
2	External UG P&D and Road Works	100 days	22/08/17	29/11/17				
3	WWO046 Completion	0 days	29/11/17	29/11/17				
ŀ	FSD Inspection	0 days	16/01/18	16/01/18				
	Submit BA 13 Inspection	14 days	17/01/18	30/01/18				
3	Expected OP Issue	0 days	31/01/18	31/01/18				
7	Section B1 - Area C1&2 incl. all UG structures & Temp. Access for Empolyer's Specialist	277 days	10/05/17	10/02/18				
3	C.W. Culvert System (Area C1 & C2) (~160m)	277 days	10/05/17	10/02/18				
)	Excavation to Formation Level (+1.1mPD)	18 days	10/05/17	27/05/17				
)	Construction of Binding & Plinth	14 days	19/05/17	01/06/17				
	Pile Laying	14 days	02/06/17	15/06/17				
2	Thrust Box + Manhole Construction	14 days	16/06/17	29/06/17				
3	Water Test	4 days	30/06/17	03/07/17				
1	Backfill	7 days	04/07/17	10/07/17				
5	Return area to Sunley for L11 piling	120 days	11/07/17	07/11/17				
3	Cutting Sheet pile	14 days	08/11/17	21/11/17				
7	All underground Utilities	60 days	22/11/17	20/01/18				
В	Backfill & Reinstatement & Formation of Access	60 days	13/12/17	10/02/18				
9	Supporting Structure for Overhead Crane	30 days	16/12/17	14/01/18				
)	Section B2 - Surcharge relocation & assoicated top-up works	229 days	17/05/17	31/12/17				
1	Roadworks and External Works	229 days	17/05/17	31/12/17				
2	Surface Drainage Modification	60 days	17/05/17	15/07/17				
3	Remove of Surcharge Fill (~21500 m3)@ Area C2, C10 & C15 to Area B1, B2, D2, D3 and D4	45 days	01/09/17	15/10/17				
4	Construction of Access Road	60 days	16/10/17	14/12/17				
5	Existing Band Drains Cut-down (2520 nos)	90 days	03/10/17	31/12/17				
3	Section C - Area C3, HRSG & MSBU10 for Empolyer's Specialist	499 days	01/11/16	14/03/18				
7	HRSG Area Equipment Rm & Fdn - South (Area C7)	201 days	02/07/17	18/01/18				
3	Excavation to Formation Level	14 days	02/07/17	15/07/17				
)	Pile Head Treatment	14 days	16/07/17	29/07/17				
)	Pile Cap & Tie Beam - GL 10-H to 10H-H, 10-H5 to 10-9	60 days	23/07/17	20/09/17				
П	Pit Constructions	30 days	22/08/17	20/09/17				
2	All Underground Utilities	60 days	21/09/17	19/11/17				
3	Backfill & Reinstatement & Formation of Access Road	60 days	20/11/17	18/01/18				
F	HRSG Equipment Room	175 days	21/09/17	14/03/18				
5	Plate Load Test	10 days	21/09/17	30/09/17				
6	Underground Drainage	14 days	01/10/17	14/10/17				
7	HRSG Equipment RM Foundation + Backfill	18 days	15/10/17	01/11/17				
3	Construct G/F	14 days	02/11/17	15/11/17				
9	Roof Construction	24 days	16/11/17	09/12/17				
)	Parapet Wall	14 days	10/12/17	23/12/17				
П	ABWF Works	30 days	14/01/18	12/02/18				
2	Building Service Installations	30 days	13/02/18	14/03/18				
1	Ready for BA 13 Application	0 days	14/03/18	14/03/18				
	Main Station Building Fdn, G/F &1/F	409 days	01/11/16	14/12/17				
5	Installation of Dewatering Well & King Post for Type A	14 days	01/11/16	14/11/16				
	BD Consent for ELS Phase I MSBU10 Foundation	0 days	23/12/16	23/12/16				
7	BD Consent for ELS Phase II MSBU10 Foundation	0 days	13/01/17	13/01/17				
3	Turbo Block (Col portion)	21 days	22/08/17	11/09/17				
	Turbo Block (Upper Portion) for handover to erection contractor	30 days	12/09/17	11/10/17				

	Task Name	Duration	Start	Finish	(01-8-2017).mpp	Half 1, 2019	
400					March 2019	1,2010	
160	Substructure & G/F- GL SC1 to 10-F, 10-1 to 10-6	307 days	24/12/16	26/10/17			
161	Excavation to Formation Level (Tx Bay Area + upto 10-D)	14 days	24/12/16	06/01/17			
162	Cut-down Pile Head & treatment	45 days	28/12/16	10/02/17 11/04/17			
163 164	Construction of Transformer Bay Foundations Pile Cap & Tie Beam, Pits Construction	60 days	11/02/17 12/04/17	10/06/17			
165	Bearing Wall, Column Post and G/F Plinths	60 days	12/04/17	09/08/17			
55 56	Excavation, Waling & Struct (Type A & Type C)	60 days	26/04/17	24/06/17			
67	CEP Drain Pit /Sump Pit Construction	60 days 14 days	25/04/17	08/07/17			
68	Arrival of CW Culvert piping materials incl. flexible joint & other cast in materials	0 days	30/12/16	30/12/16			
9	Construction of Culvert Outlet Box (1st pour)	18 days	25/06/17	12/07/17			
70	Construction of Tie Beam/ Ground Beam + Outlet Box 2nd Pour	40 days	13/07/17	21/08/17			
1	Construction of Culvert Inlet Box & Ground Beams	45 days	22/08/17	05/10/17			
2	Backfill + Slabs & Drainage at G/F Area	21 days	06/10/17	26/10/17			
- 3	Turbo Block Foundation (1st portion) + Temp work	35 days	18/07/17	21/08/17			
,  -	Substructure & G/F- GL 10-F to 10-H, 10-1 to 10-6	278 days	07/01/17	11/10/17			
5	Excavation to Formation Level (+2.425mPD & 5.025mPD)	60 days	07/01/17	07/03/17			
6	Existing Sheet Pile Cut-down	7 days	08/03/17	14/03/17			
7	Pile Head Treatment	14 days	15/03/17	28/03/17			
	Pile Cap & Tie Beam Construction	90 days	29/03/17	26/06/17			
_	Complete excavation at Type B & Plate Load Test	65 days	15/03/17	18/05/17			
) )	Blow Down Sump (1st pour) + Mass Concrete for tie beams	50 days	27/06/17	15/08/17			
_	Remaining Tie Beams + Column Post at North of Turbo Block	30 days	16/08/17	14/09/17			
31 32	Backfill, Bearing Wall, Drainage and G/F Slab Construction	21 days	15/09/17	05/10/17			
83	Pile Caps & Tie Beam at South of Turbo Block	30 days	22/08/17	20/09/17			
84	Turbo Block Foundation (GL 10-F to H)	21 days	21/09/17	11/10/17			
5	G/F & 1/F & Maintenance Floor	115 days	22/08/17	14/12/17			
6	Steel Column & Beam Erections (other than for roof truss)	70 days	22/08/17	30/10/17			
37	R.C. Structure Construction	45 days	31/10/17	14/12/17			
38	Transformer Area	95 days	10/08/17	12/11/17			
89	Fire Wall Construction	50 days	10/08/17	28/09/17			
190	Slab & Plinths Construction + Backfill	45 days	29/09/17	12/11/17			
91	C.W. Culvert System (Area C3)	202 days	11/06/17	29/12/17			
92	Excavation to Formation Level	14 days	11/06/17	24/06/17			
3	Construction of Binding & Plinth	3 days	25/06/17	27/06/17			
1	CW Pipe Laying	14 days	28/06/17	11/07/17			
5	Thrust Box Construction	14 days	12/07/17	25/07/17			
3	Water Test	10 days	26/07/17	04/08/17			
7	Backfill	14 days	05/08/17	18/08/17			
8	Pile Cap & Tie Beam + Underground UU + Backfill	60 days	31/10/17	29/12/17			
)	Section D - Remaining of MSBU10, HRSG, A&A at L9 & L8, CW Pump Equip. Rm No. 4 Ext. & Demolish Site Toilet	419 days	29/03/17	21/05/18			
0	C.W Culvert System (Area C5)	142 days	30/12/17	20/05/18			
1	Excavation to Formation Level (-2.8mPD) with ELS Installation	30 days	30/12/17	28/01/18			
2	Construction of Binding & Plinth	7 days	29/01/18	04/02/18			
3	Penstock Trial & Preparation for connection to existing outlet pipe	0 days	04/02/18	04/02/18			
	Pipe Laying (2 Pipes)	21 days	05/02/18	25/02/18			
04	Water Test	10 days	26/02/18	07/03/18			
	Backfill	14 days	08/03/18	21/03/18			
5		60 days	22/03/18	20/05/18			
5 6	All underground Utilities		22/03/18	20/05/18			
5 6 7	All underground Utilities  Backfill & Reinstatement & Formation of Access	60 days					
04 05 06 07 08	Backfill & Reinstatement & Formation of Access	60 days <b>356 days</b>	29/03/17	19/03/18	I	1	
5 7 3		356 days		<b>19/03/18</b> 18/04/17			
5 6 7 8	Backfill & Reinstatement & Formation of Access  HRSG Area Fdn - North (Area C6)	356 days 21 days	29/03/17				
5 7 3 9	Backfill & Reinstatement & Formation of Access  HRSG Area Fdn - North (Area C6)  Excavation to Formation Level  Pile Head Treatment	<b>356 days</b> 21 days 14 days	<b>29/03/17</b> 29/03/17 19/04/17	18/04/17 02/05/17			
	Backfill & Reinstatement & Formation of Access  HRSG Area Fdn - North (Area C6)  Excavation to Formation Level  Pile Head Treatment  Fdn North of HRSG Area GL 10-H to 10H-H, 10-1to 10H-5	356 days 21 days 14 days 60 days	<b>29/03/17</b> 29/03/17 19/04/17 03/05/17	18/04/17 02/05/17 01/07/17			
	Backfill & Reinstatement & Formation of Access  HRSG Area Fdn - North (Area C6)  Excavation to Formation Level  Pile Head Treatment	<b>356 days</b> 21 days 14 days	<b>29/03/17</b> 29/03/17 19/04/17	18/04/17 02/05/17			

Task Name	Duration	Start	Finish		Half 1, 2019		
Underground UU & Formation of Access	90 days	20/12/17	19/03/18	March 2019		April 2019	May 2019
Main Station Building - Unit L10 Superstructure	229 days	05/10/17	21/05/18				
2/F	28 days	31/10/17	27/11/17				
Steel Beam Erection	18 days	31/10/17	17/11/17				
R.C. Structure Construction	10 days	18/11/17	27/11/17				
3/F	20 days	18/11/17	07/12/17				
Steel Beam Erection	18 days	18/11/17	05/12/17				
R.C. Structure Construction	10 days	28/11/17	07/12/17				
4/F	18 days	06/12/17	23/12/17				
Steel Beam Erection	18 days	06/12/17	23/12/17				
R.C. Structure Construction	10 days	08/12/17	17/12/17				
5/F & Roof except GL 10-G to 10-H and 10-2 to 10-6	168 days	05/10/17	21/03/18				
Steel Roof Truss Preparation	60 days	05/10/17	03/12/17				
Steel Roof Truss Erection + 2d Truss Bolt & Nut	35 days	04/12/17	07/01/18				
Steel Roof & Crane Rail Erection	21 days	25/12/17	14/01/18				
Slab Construction	45 days	18/12/17	31/01/18				
Upper Roof - Steel Roof Erection	21 days	15/01/18	04/02/18				
Upper roof RC construction	45 days	05/02/18	21/03/18				
Staircase Constructions	75 days	31/10/17	13/01/18				
Ceiling Scaffolding & Fendolite Installation to S. Steel Works	120 days	20/12/17	18/04/18				
External Metal Cladding Installation	120 days	24/12/17	22/04/18				
Internal ABWF Works	150 days	14/11/17	12/04/18				
BS Installation	175 days	28/11/17	21/05/18				
275kV Cable Trench (Area C5 &C6)	61 days	22/03/18	21/05/18				
Cable & Pipe Trench (C5 Area)	45 days	22/03/18	05/05/18				
Cable Trench (C6 Area)	45 days	07/04/18	21/05/18				
MSB UnitL9 - A&A	105 days	08/01/18	22/04/18				
Hack-off Lean Concrete	60 days	08/01/18	08/03/18				
Pipe Rack Support Construction	45 days	09/03/18	22/04/18				
MSB UnitL8 - A&A	120 days	02/09/17	30/12/17				
A&A Works	120 days	02/09/17	30/12/17				
C.W. Pump Equipment Room	276 days	28/06/17	31/03/18				
BA 10 Application	0 days	28/06/17	28/06/17				
Removal of RC fin from existing CW Pump Room	14 days	29/06/17	12/07/17				
Tree Transplant & falling	30 days	13/07/17	11/08/17				
Excavation & Raft Footing	45 days	12/08/17	25/09/17				
Underground Drainage + Backfill	18 days	26/09/17	13/10/17				
Construct G/F	14 days	14/10/17	27/10/17				
Roof Construction	45 days	28/10/17	11/12/17				
Parapet Wall	18 days	12/12/17	29/12/17				
ABWF Works	40 days	11/01/18	19/02/18				
Building Service Installations	40 days	20/02/18	31/03/18				
Extenal Pipe Rack Extension & Reinstatement Works	150 days	28/10/17	26/03/18				
Ready for BA 13 Application	0 days	31/03/18	31/03/18				
Demolition Work - Temporary Site Toilet	60 days	31/01/18	31/03/18				
Demolition of Temp. Site Toilet	60 days	31/01/18	31/03/18				
Section E - Middel Rd & South of L10. Expose & Construction New 275kV Trench at LMX	337 days	29/06/17	31/05/18				
275kV Cable Trench	120 days	29/01/18	28/05/18				
275kV Cable Trench Re-excavation (~172m)	120 days	29/01/18	28/05/18				
C.W. Culvert System (Area C9a & C15)	337 days	29/01/18 29/06/17	31/05/18				
Removal of existing paving block	8 days	29/06/17	06/07/17				
Install ELS Phase 1 + consent	60 days	07/07/17	04/09/17				
Excavation & Blinding & Construct Plinth	30 days	05/09/17	04/10/17				
Pipe Laying & Thrust Box	60 days	05/09/17	03/12/17				
Water Test and Backfill	14 days	03/10/17	17/12/17				
vvater rest and backing	i + uays	V <del>7</del> /12/11	11/12/11				
8002 Rev4 Master Progra   Critical Split	Split		Milestone	♦ Sumi	mary $lacksquare$		
				Carri	- · <b>J</b>		

Duration   Start   Finish   Marc
Install ELS Phase 2 + consent       21 days       15/08/17       04/09/17         Blinding & Concrete Plinth       30 days       05/09/17       04/10/17         Pipe Laying and Thrust Box       45 days       04/12/17       17/01/18
Blinding & Concrete Plinth       30 days       05/09/17       04/10/17         Pipe Laying and Thrust Box       45 days       04/12/17       17/01/18
Pipe Laying and Thrust Box         45 days         04/12/17         17/01/18
· · ·
Water Test & Backfill 14 days 18/01/18 31/01/18
Underground UU and Reinstatement 120 days 01/02/18 31/05/18
Section F -Urea Storage & Handling Factilies 488 days 01/05/17 31/08/18
Urea Handling & Storage Plant House, Electrical Room &Pipe Rack 488 days 01/05/17 31/08/18
BA 10 Application 7 days 01/05/17 07/05/17
Excavation to Formation Level 10 days 26/09/17 05/10/17
Plate Load Test 14 days 06/10/17 19/10/17
Raft Foundation (Urea Handlng Rm + Ele Rm)  30 days 20/10/17 18/11/17
Backfill 21 days 19/11/17 09/12/17
Construct G/F 21 days 10/12/17 30/12/17
Roof Construction 90 days 31/12/17 30/03/18
Parapet Wall 14 days 31/03/18 13/04/18
ABWF Works 60 days 14/04/18 12/06/18
Building Service Installations 80 days 13/06/18 31/08/18
Ready for BA 13 Application 0 days 31/08/18 31/08/18
Plate Load Test 14 days 06/10/17 19/10/17
Pipe Rack Foundation 28 days 20/10/17 16/11/17
Supporting Tower (4 no.) (9.55m in Height) 60 days 17/11/17 15/01/18
Pipe Rack Truss (3 no. )17.3m Span 60 days 16/01/18 16/03/18
Section G - Demin. Plant Road & Modification at No. 4 CW Intake 273 days 01/01/18 30/09/18
C.W Culvert System (Area C9b) 273 days 01/01/18 30/09/18
Site possession 0 days 01/01/18 01/01/18
Removal of paving block & ELS Installation + consent 60 days 01/01/18 01/03/18
Excavation to Formation Level with ELS Installation 30 days 02/03/18 31/03/18
Construction of Blinding & Plinth 21 days 01/04/18 21/04/18
Pipe Laying (2 pipes x ~45m) 30 days 22/04/18 21/05/18
Construction of Thrust Box 14 days 22/05/18 04/06/18
Water Test 7 days 05/06/18 11/06/18
Backfill 16 days 12/06/18 27/06/18
All underground Utilities 50 days 28/06/18 16/08/18
Backfill & Reinstatement & Formation of Access 45 days 17/08/18 30/09/18
Modification Works - No. 4 C.W. Intake & No.3 C.W. Outfall 183 days 01/04/18 30/09/18
No. 3 C.W. Outfall Modification 90 days 01/04/18 29/06/18
No. 4 C.W. Intake Modification 90 days 03/07/18 30/09/18
Section H1 - Gas Support foundation & trench at Area C11 179 days 21/05/18 15/11/18
GRS Support Foundation 179 days 21/05/18 15/11/18
Temporary Protection, advance work etc 14 days 21/05/18 03/06/18
Gas Pipe Footing 165 days 04/06/18 15/11/18
Gas Pipe Trench         90 days         18/08/18         15/11/18
Section H2 - GRS Improvement work at Area C10         441 days         01/09/17         15/11/18
GRS Area Improvement Works 441 days 01/09/17 15/11/18
Retaining Wall Construction 90 days 01/09/17 29/11/17
Removal of Surcharge and Backfill 45 days 30/11/17 13/01/18
Footing Construction 240 days 14/01/18 10/09/18
Topping up, finish and Misc. Works 66 days 11/09/18 15/11/18
Section H3 - L10 Chimney Flue and A&A L9 318 days 01/01/18 15/11/18
No.4 Chimney Steel Flue 318 days 01/01/18 15/11/18
Consent, documentation and site preparation 0 days 01/01/18 01/01/18
Steel Flue Preparation & installation 150 days 02/01/18 31/05/18
Install Steel Cover at Windshield 45 days 01/06/18 15/07/18
Install Steel Cover at Roof 30 days 16/07/18 14/08/18
Modification & Reinstatement Works 55 days 15/08/18 08/10/18



Contrac	t No. 16/8002 Lamma Power Station Extension Civil and Building Unit L10	amma Power Station Extension Civil and Building Unit L10 16_8002 Rev4 Master Programme (01-8-2017).m					-2017).mpp <b>25</b>				
ID T	ask Name	Duration	Start	Finish	Marc	n 2019	Half 1, 2019 April 20	10	May 2019		
372	Tentative Period for Backfilling and Road Reinstatement (Including Joint Bay at Part I, but excluding Joint Bay SJ3)	90 days	01/12/18	28/02/19	With Ci	12013		10	iviay 2010		
373	Part III (400m in Length, 1.3m to 1.5m Deep) (Works in New Trench)	518 days	01/07/18	30/11/19							
374	Tentative Commencement Date Of Civil Works	0 days	01/07/18	01/07/18							
375	Implementation of TTA	9 days	01/07/18	09/07/18							
376	Remove the Concrete Road Cover	90 days	10/07/18	07/10/18							
377	Cable Trench Excavation with shoring	260 days	31/07/18	16/04/19				1			
378	Construction of New Joint Bay	45 days	17/04/19	31/05/19							
379	Completion Date of Trench Excavation for Site Handover	0 days	31/05/19	31/05/19					•		
380	Tentative Period for Backfilling and Road Reinstatement (excluding new slab but including SJ3)	91 days	01/09/19	30/11/19							
381	Part IV (Hand Dig Tunnel) + Defer portion	701 days	01/07/18	31/05/20							
382	Tentative Commencement Date Of Civil Works	0 days	01/07/18	01/07/18							
383	Trial Pits / Trenches	30 days	01/07/18	30/07/18							
384	Existing Drainage Diversion, if any	20 days	31/07/18	19/08/18							
385	Formation of Temp. Cable Pit	90 days	20/08/18	17/11/18							
386	Hand Dig Tunel (15m)	150 days	18/11/18	16/04/19				<u> </u>			
387	Excavtion for new RC Works	90 days	17/01/19	16/04/19							
388	Construction of new RC Works	45 days	17/04/19	31/05/19							
389	Backfill & reinstatement except new trench	30 days	01/06/19	30/06/19							
390	Completion Date of Trench for Site Handover	0 days	30/06/19	30/06/19							
391	Deferred Works - Cable Diversion CPX1 and CPX2 (during DLP)	274 days	01/09/19	31/05/20							
392	Formation of Wall Opening between existing trench CPX1 and new Joint Bay	7 days	01/09/19	07/09/19							
393	Breaking up for Road Paving and Excavation down to Cable Tiles of Existing Trench CPX2	31 days	01/12/19	31/12/19							
394	Demolition of Existing Trench CPX1 and CPX2	30 days	01/04/20	30/04/20							
395	Final Reinstatement of the CPX1 and CPX2 Areas	31 days	01/05/20	31/05/20							
396	Deferred Works - Shunt Reactor Compound SR4 (during DLP)	153 days	01/07/19	30/11/19							
397	Trench Re-excavation and Cable Supports Installation for Shunt Reactor Compound SR4	62 days	01/07/19	31/08/19							
398	Backfilling and Road Re-instatement of Shunt Reactor SR4 and Associated Trench	30 days	01/11/19	30/11/19							



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			<u> </u>		
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 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	No.	Description			
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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	Α	HRSG PORTION			
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-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					
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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			Botto	m/Si	
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					
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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-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-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-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			1		
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-04 Down Commer Pipe  A-05 Drum Lifting / HDR Level Adjustment  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-02	Upper/Lower Connection 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-03	Module Install (Bundle Tube Block)			
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-04	Down Commer Pipe			
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-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 65	Development of the second			
A-06  HP/LP Feed Water)  A-07  Other piping  A-08  Access Platform / Hand Rail  A-09  Inside Baffle Plate & Seismic Tie Adjust / Setting	A-05				
A-08 Access Platform / Hand Rail  A-09 Inside Baffle Plate & Seismic Tie Adjust / Setting	A-06				
A-09 Inside Baffle Plate & Seismic Tie Adjust / Setting	A-07	Other piping	<b>—</b>		
	A-08	Access Platform / Hand Rail			
A-10 SCR System	A-09	Inside Baffle Plate & Seismic Tie Adjust / Setting		•	
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A-11	Inlet Duct Structure / Include Pipe Rack (U9-U10					
	Connection)			_		
A-12	Inlet Duct					
A-13	Exhaust Duct Structure					
A-14	Exhaust Dust					
A-14	Exhaust Duct					
A-15	Aux Equip(B/D Tank, HP/IP Feed Water Pump, LP Eco					
Α-13	Recirculation Pump, etc.)	+	•	Fin		
	HP/IP Feed Water Pump					
	Reserve feed water Tank					
	Treserve loca water rain					
A-16	Insulation					
		•				
A-17	Painting					
A-18	Install Catalyst					
A-19	Steam Blowing out(other scope) & alkaline boiling out					
	2.53 Distring sulfation soops) a amains soming out					



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	Installation of Temporary piping, Support & Silencer			
	Excection of Steam blowing out			• •
	Dismantle of Temporary iping, Support & Silencer			•
	Excection of Steam boiling out			-
В	GT/ST/GEN PORTION			
B-1	Turbine O/H Crane			
B-2	Condenser			
B-3	Install ST			
		Incto		L
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B-4 Install GEN  Seal Oil F		Election Rey Date				
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B-4 Install GEN Seal Oil F						
B-4 Install GEN Seal Oil F				Gas	s in	
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B-6	Aux Equipment				
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B-7	Insulation				
B-8	Painting				
B-9	Switchgear/Hoist/Hoist for condenser				



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<b>C</b> C-1	ERECTRICAL & INSTRUMENTATION PORTION					
0-1	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					
	Coble Ladder / Tray Installation					
	Cable Ladder / Tray Installation					
	Conduit Pipe Installation	-				
	Earthing Installation	<u> </u>				
	Cable Laying & Termination	•				
	Fire Registent Seeling	<u> </u>				
	Fire Resistant Sealing					
	Cable Trench Opening & Transportation					
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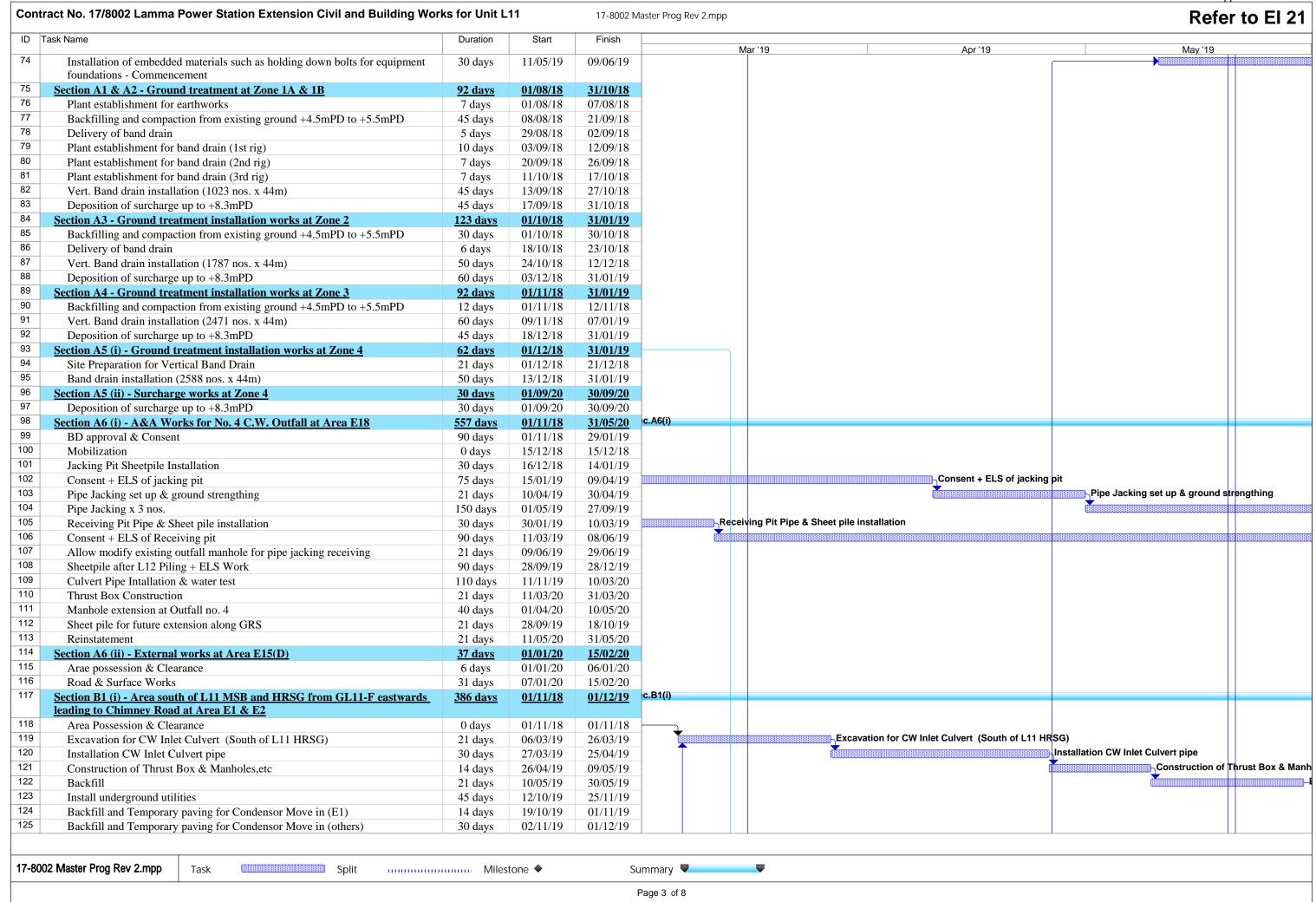


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			HRSG Gas in					
			Gas in 1-May					
C-4	INSTRUMENTS, INSTR. PIPINGS & AIR TUBE							
		•						
	Local Instruments, Piping & Tubing							
	Instrument Calibration							
C-5								
	OTHER WORK							
	275kV Shunt Reactor Relocation							
	Turbine Overhead Crane, Hoist, Battery Power Supply							
	Existing CWP etc.							
	BOP & Other Works							
	Site Cleaning							
C-6	TESTING & COMMISSIONING							
	Testing & Commissioning							
	Commissioning Assistant							

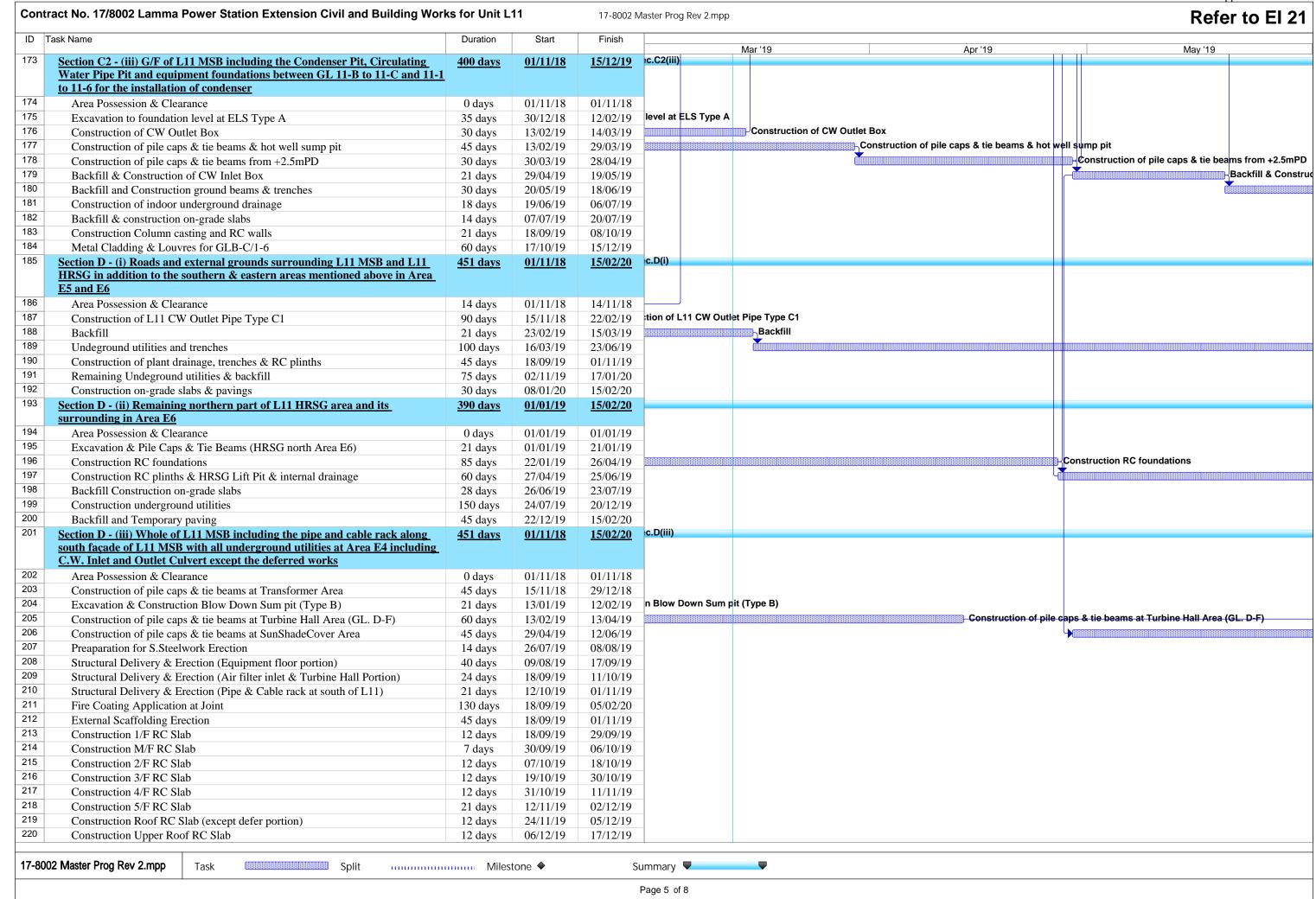
Со	ntract No. 17/8002 Lamma Power Station Extension Civil and Building Work	s for Unit L	11	17-8002 M	aster Prog Rev 2.mpp		Refer to El 21
ID	Task Name	Duration	Start	Finish	Mar '19	Apr '19	May '19
1	Civil and Building Works for Unit 11 and Assoicated Works	1197 days	01/06/18	30/09/21		•	
2	Contract Key Dates	<u>1197 days</u>	<u>01/06/18</u>	<u>30/09/21</u>			
3	Contract Commencement Date	0 days	01/06/18	01/06/18			
4	Section A1 - Ground treatment installation works at Zone 1A	0 days	31/10/18	31/10/18			
5	Section A2 - Ground treatment installation works at Zone 1B	0 days	31/10/18	31/10/18			
6	Section A3 - Ground treatment installation works at Zone 2	0 days	31/01/19	31/01/19	orks at Zone 2		
7	Section A4 - Ground treatment installation works at Zone 3	0 days	31/01/19	31/01/19	orks at Zone 3		
8	Section A5 (i) - Ground treatment installation works at Zone 4 - Band drain installation	0 days	31/01/19	31/01/19	works at Zone 4 - Band drain installation		
9	Section A5 (ii) - Ground treatment installation works at Zone 4 - Surcharge filling	0 days	30/09/20	30/09/20			
10	Section A6 (i) - A&A Works for No. 4 C.W. Outfall at Area E18	0 days	31/05/20	31/05/20			
11	Section A6 (ii) - External works at Area E15	0 days	15/02/20	15/02/20			
12	Section B1 (i) - Area south of L11 MSB and HRSG from GL11-F eastwards leading to Chimney Road at Area E1 & E2	0 days	01/12/19	01/12/19			
13	Section B1 (ii) - Supporting structures for overhead cranes of L11 MSB including the associated roof structure except the roof deferred works	0 days	01/12/19	01/12/19			
14	Section B1 (iii) - FSRU Civil works at Area E13	0 days	31/05/21	31/05/21			
15	Section B2 - Retractable Cover D at Area E22	0 days	31/12/19	31/12/19			
16	Section B3 - External works at Area B1, D2 and D4	0 days	06/01/20	06/01/20			
17	Section C1 - Area south of L11 MSB from GL11-F westwards leading to Station Road at Area E3(A) & E3(B)	0 days	15/12/19	15/12/19			
18	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	01/11/19	01/11/19			
19	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	15/02/20	15/02/20			
20	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	15/12/19	15/12/19			
21	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	15/02/20	15/02/20			
22	Section D - (ii) Remaining northern part of L11 HRSG area and its surrounding in Area E6	0 days	15/02/20	15/02/20			
23	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	15/02/20	15/02/20			
24	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	15/02/20	15/02/20			
25	Section D - (v) Gas Duct Foundation, Pipe and Cable Rack and associated trench in Area E20	0 days	15/02/20	15/02/20			
26	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	31/05/20	31/05/20			
27	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			
28	Section E1 - (iii) External Works at Area E15 ( C )	0 days	28/02/21	28/02/21			
29	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	15/05/20	15/05/20			
30	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			
31	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			
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17-	3002 Master Prog Rev 2.mpp Task Split Split	Miles	tone •	Sı	ımmary 🔻		

Page 1 of 8

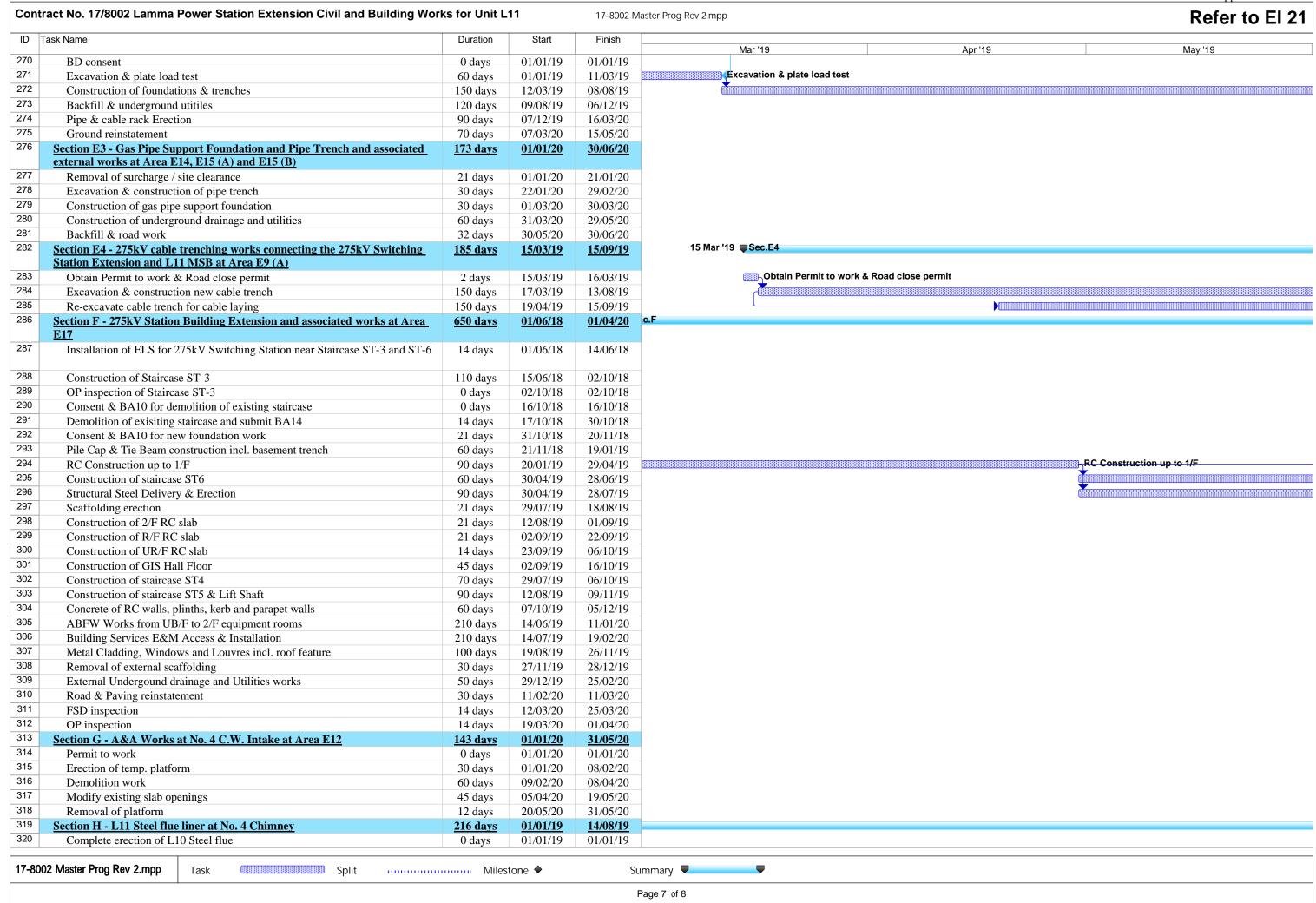
Cont	act No. 17/8002 Lamma Power Station Extension Civil and Building Worl	s for Unit L	.11	17-8002 N	Master Prog Rev 2.mpp	Refer to EI 21		
ID	ask Name	Duration	Start	Finish	Mar '19 Apr '19	May '19		
32	Section F - 275kV Station Building Extension and associated works at Area E17	0 days	01/04/20	01/04/20	Mar '19 Apr '19	IVIAY 19		
33	Section G - A&A Works at No. 4 C.W. Intake at Area E12	0 days	31/05/20	31/05/20				
34	Section H - L11 Steel flue liner at No. 4 Chimney	0 days	14/08/19	14/08/19				
35	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				
36	Section I - (ii) Interconnector 2 Trench Modification Works at Area E10	0 days	15/05/20	15/05/20				
37	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 Area	0 days	30/04/21	30/04/21				
38	Section K1 - External works at Area 15 (E) and 15(F)	0 days	31/05/21	31/05/21				
39	Section K2 - Removal of Southern Bund and External Works at Area D5, D6 and D7	0 days	31/05/21	31/05/21				
40	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				
41	General & Preliminary	272 days	01/06/18	09/03/19	■ 09 Mar '19			
42	Set up Temporary Site Office and Utilities	90 days	01/06/18	29/08/18				
43	Permit Applications & Statuary Submissions	120 days	30/08/18	27/12/18				
44	Existing Utilities scanning & Excavation Permit	45 days	13/11/18	27/12/18				
45	Tower Crane erection 2@MSB, 1@ 275	60 days	30/12/18	09/03/19	Tower Crane erection 2@MSB, 1@ 275			
46	Submission and Approval	<u>554 days</u>	01/06/18	<u>16/12/19</u>				
47	Method Statement / Temp Work Submission & Approval from HEC for General Works	240 days	01/06/18	26/01/19	al from HEC for General Works			
48	BD Approval & Consent (If required)	120 days	01/06/18	28/09/18				
49	BIM Model, CSD & CBWD Submission & Approval from HEC	200 days	29/09/18	26/04/19	BIM Model, CSD & CBWD	Submission & Approval from H		
50	Structure Steelwork Connection Design Submission & BD Approval	60 days	29/09/18	27/11/18				
51	Structure Steelwork Shop Drawing & Approval	60 days	13/10/18	11/12/18				
52	Metal Cladding, louvre & windows submission & BD Approval	60 days	28/11/18	26/01/19	pproval			
53	Metal Cladding, louvre & windows shop drawing submission	60 days	12/12/18	19/02/19	g, louvre & windows shop drawing submission			
54	Order, Off Site Fabrication and Delivery (S. Steel & Cladding & louvres)	180 days	27/10/18	04/05/19	Order, Off S	Site Fabrication and Delivery (S.		
55	Retractable Cover D BD Submission & Approval	90 days	20/02/19	20/05/19		Retractable Cov		
56	No. 4 C.W. Outfall A&A BD approval	90 days	30/08/18	27/11/18				
57	Sumission & Approval of Steel Flue Assessment Report and Design Drawings	60 days	30/09/18	28/11/18				
58	Submission and Approval of Steel Flue Design from BD	60 days	30/09/18	28/11/18				
59	Material Fabrication & Delivery for L11 Flue	100 days	15/10/18	22/01/19				
60	Folding Shutters Shop Drawing Submission & Approval	120 days	20/02/19	19/06/19				
61	Fabrication & Delivery of Folding Shutters	150 days	20/06/19	16/11/19				
62	Sewage Pump System Design submission & approval	90 days	22/03/19	19/06/19				
63 64	Fabrication & Delivery of Sewage Pump	180 days	20/06/19	16/12/19				
65	Other material submission & approval & delivery	300 days	30/08/18	05/07/19				
66	Coordination with the Employer's Specialist Contractors  Installation of Puddle Pipes at C.W. outlet Culvert	438 days	<b>22/02/19</b> 22/02/19	15/05/20 28/02/19	Installation of Puddle Ripes at C.W. outlet Culvert			
67	Installation of Puddle Pipes at C.W. Inlet Culvert	7 days 7 days	29/04/19	05/05/19		n of Puddle Ripes at C.W. Inlet (		
68	Template setting at L11 Turbo Block Foundation	60 days	15/11/19	15/01/20				
69	Template setting of holding down bolts at HRSG column base	46 days	26/07/19	09/09/19				
70	I-beam / channel base installation on top of transformer foundations at Transformer Area	30 days	15/12/19	15/01/20				
71	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				
72	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	15/12/19	30/04/20				
73	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	15/12/19	15/05/20				
17-80	22 Master Prog Rev 2.mpp Task Split Split	Miles	stone •		Summary Page 2 of 8			



Contract No. 17/8002 Lamma Power Station Extension Civil and Building Works for Unit L				17-8002 l	Master Prog Rev 2.mpp		Refer to EI 21
ID	Task Name	Duration	Start	Finish			
126	Section B1 (ii) - Supporting structures for overhead cranes of L11 MSB	385 days	01/11/18	01/12/19	)c.B1(i)	lar '19 Apr '19	May '19
	including the associated roof structure except the roof deferred works	505 days	01/11/10	01/12/17			
127	Area possession & Clearance	0 days	01/11/18	01/11/18			
128	Erection of turbine hall roof except defer work	0 days	11/10/19	11/10/19			
129	Installation of crane griders	21 days	12/10/19	01/11/19			
130	Turbine hall wall claddings	60 days	02/10/19	01/12/19			
131	Section B1 (iii) - FSRU Civil works at Area E13 (GRS)	<u>151 days</u>	01/01/21	31/05/21			
132	Submission and approval for consent to work	0 days	01/01/21	01/01/21			
133	Civil & Building Works	130 days	01/01/21	10/05/21			
134	Ground reinstatement	21 days	11/05/21	31/05/21			
135 136	Section B2 - Retractable Cover D at Area E22	353 days	01/01/19	31/12/19		Possession, Demolition and clearance work	
	Area Possession, Demolition and clearance work	60 days	01/01/19	11/03/19	Area	Possession, Demontion and Clearance work	CONTROL CONTRO
137 138	Foundation construction  Backfill & Ground statement	75 days	12/03/19	25/05/19			Founda
139		20 days	26/05/19 21/05/19	14/06/19 16/08/19			8888888888
140	Superstructure fabrication & delivery Superstructure erection	88 days 90 days	17/08/19	14/11/19			<u> </u>
141	E&M Installation and T&C	45 days	15/11/19	31/12/19			
142	Section B3 - External works at Area B1, D2 and D4	359 days	01/01/19	06/01/20			
143	Receive Area from HKE, Area Possession & Clearance	0 days	01/01/19	01/01/19			
144	Removal of existing paying for band drain under Section A5(i)	30 days	01/01/19	30/01/19	r Section A5(i)		
145	Complete Vert. Band drain under Section A5(i)	0 days	31/01/19	31/01/19	(i)		
146	Ground preparation for B1, D2 & D4	60 days	06/11/19	06/01/20			
147	Section C1 - Area south of L11 MSB from GL11-F westwards leading to	399 days	01/11/18	15/12/19	c.C1		
	Station Road at Area E3(A) & E3(B)		<u> </u>				
148	Area Possession & Clearance	0 days	01/11/18	01/11/18			
149	Excavation for CW Outlet/Inlet Culvert (work parallel & after MSB ELS phase	40 days	15/01/19	05/03/19	Excavation for	CW Outlet/Inlet Culvert (work parallel & after MSB ELS phase 1)	
	1)						
150	Installation CW Inlet Culvert pipe (South of L11 Condensor)	21 days	15/02/19	07/03/19	Installation	CW Inlet Culvert pipe (South of L11 Condensor)	
151	Installation CW Outlet Culvert Pipe connect to Type C1	21 days	06/03/19	26/03/19		Installation CW Outlet Culvert Pipe connect to T	
152	Construction of Thrust Box & Manholes,etc	14 days	27/03/19	09/04/19		Construction of Thrust B	ox & Manholes,etc
153	Backfill	21 days	10/04/19	30/04/19		(Management of the Control of the Co	Backfill
154	Installation remain sheeetpile for future Outlet Culvert	30 days	01/05/19	30/05/19			
155	Construct Temp Paving for Condenser move in	30 days	15/11/19	15/12/19			
156	Section C2 - (i) Southern part of L11 HRSG area and its surrounding at Area	<u>295 days</u>	01/01/19	<u>01/11/19</u>			
157	E7 except the deferred works for Lube Oil Storage Tank	0.1	01/01/10	01/01/10			
157 158	Area Possession & Clearance	0 days	01/01/19	01/01/19			700000000000000000000000000000000000000
159	Excavation & Pile Caps & Tie Beams (HRSG South Area E7)	30 days	27/04/19	26/05/19			Excav
160	Construction RC reliable	60 days	27/05/19 10/09/19	25/07/19 09/10/19			8888888
161	Construction RC plinths Construction underground utilities	30 days 75 days	26/07/19	08/10/19			
162	Backfill & Construction on-grade slabs	30 days	25/09/19	24/10/19			
163	Backfill and Temporary paving	18 days	15/10/19	01/11/19			
164	Section C2 - (ii) L11 Turbo Block foundation including the L11 MSB ground	421 days	01/12/18	15/02/20			
	floor together with the equipment foundations between GL 11-F to 11-H and	121 44,5	01/12/10	10/02/20			
	11-1 to 11-6 for the installation of power generator, air inlet duct and lube oil						
	<u>reservoir</u>						
165	Area Possession & Clearance	0 days	01/12/18	01/12/18			
166	Excavation & Pile Caps & Tie Beams (MSBL11 - Turbo Block North)	65 days	30/12/18	14/03/19		Excavation & Pile Caps & Tie Beams (MSBL11 - Turbo Block North)	
167	Excavation & Pile Caps & Tie Beams (MSBL11 - Turbo Block South)	45 days	15/03/19	28/04/19			Excavation & Pile Caps & Tie Beams (MSBL11 - Turb
168	Backfill and construction turbine block foundation	21 days	29/04/19	19/05/19			Backfill and cons
169	Construction of internal drainage	46 days	22/05/19	06/07/19			
170	Construction RC walls incl. G/F rooms	45 days	12/10/19	25/11/19			
171	Construction turbine block columns and upper portion for plant embed installation	21 days	25/10/19	15/11/19			
172	Concrete Turbine upper part foundation & clear falsework	22 days	16/01/20	15/02/20			
17-80	02 Master Prog Rev 2.mpp Task Split	Miles	tone ◆	9	Summary $\blacksquare$		
					Page 4 of 8		



Con	tract No. 17/8002 Lamma Power Station Extension Civil and Building Work	ks for Unit L	.11	17-8002 N	laster Prog Rev 2.m <sub>l</sub>	op	Refer to El 21		
ID	Task Name	Duration	Start	Finish		Mar '19	Apr '19	May '19	
221	Construction Defer Roof RC Slab (G.L. G-H)	12 days	15/12/19	28/12/19		IVIAI 13	Αρί 13	Ividy 13	
222	Construction of Staircase ST-01 & lift shaft & machine room	90 days	12/10/19	11/01/20					
223	Construction of Staircase ST-02 except defer work	75 days	30/09/19	13/12/19					
224	Construction of RC plinth, kerbs & parapet Walls	30 days	03/12/19	03/01/20					
225	Erection of Skylight & Roof Features	30 days	17/12/19	17/01/20					
226	Waterproofing	30 days	02/01/20	09/02/20					
227	ABFW Works from 1/F to 5/F equipment rooms	110 days	07/10/19	04/02/20					
228	Metal Cladding, Windows and Louvres incl. roof feature	115 days	08/10/19	10/02/20					
229	Removal of external scaffolding	30 days	03/01/20	10/02/20					
230	Building Services E&M Access & Installation	110 days	18/10/19	15/02/20					
231	Section D - (iv) Link Bridge between L10 and L11 MSB and at the south of	451 days	<u>01/11/18</u>	<u>15/02/20</u>	c.D(iv)				
	L11 MSB including their associated alternations & additions (A&A) Works at								
	<u>L10 MSB</u>								
232	Area Possession & Clearance	0 days	01/11/18	01/11/18					
233	A&A works at South of L10 MSB	60 days	24/07/19	21/09/19					
234	Erection of link bridge structural steel	24 days	12/10/19	04/11/19					
235	Casting of bridge deck	5 days	05/11/19	09/11/19					
236	Metal roofing installation	21 days	10/11/19	30/11/19					
237	ABWF work	21 days	01/12/19	21/12/19					
238	Form new opening at MSB for final connection	10 days	22/12/19	02/01/20					
239	E&M Work	35 days	03/01/20	15/02/20					
240	Section D - (v) Gas Duct Foundation, Pipe and Cable Rack and associated trench in Area E20	<u>451 days</u>	<u>01/11/18</u>	<u>15/02/20</u>	c.D(v)				
241	Area Possession & Clearance	0 days	01/11/18	01/11/18					
242	Sheet pile installation & submit as-built	60 days	01/11/18	30/12/18					
243	Consent for excavation	30 days	31/12/18	29/01/19					
244	Excavation & plate load test	60 days	30/01/19	09/04/19			Excavation & plate load to	est	
245	Construction of foundation	45 days	10/04/19	24/05/19				Construc	
246	Backfill	21 days	25/05/19	14/06/19					
247	Remaining Pipe & cable rack and associated trenchs in Area E20	116 days	12/10/19	15/02/20					
248	Section E1 - (i) Link BrIdge and Pipe and Cable Rack connecting L11 MSB to the western area of L11 MSB at Area E3	143 days	01/01/20	31/05/20					
249	Area Possession	0 days	01/01/20	01/01/20					
250	Excavation & construction of new foundation	60 days	01/01/20	09/03/20					
251	Backfill	10 days	10/03/20	19/03/20					
252	Erection of Structural steel	20 days	01/05/20	20/05/20					
253	Ground Reinstatement	11 days	21/05/20	31/05/20					
254	Section E1 - (ii) Gas Receiving Station and L11 Gas Receiving Station	587 days	01/11/18	30/06/20	c.E1(ii)				
	Equipment Room (GRS) Area Extension at Area E16								
255	Area Possession	0 days	01/11/18	01/11/18					
256	Removal of Surcharge and excavation	18 days	01/01/20	18/01/20					
257	Modification of Site Drainage	35 days	19/01/20	02/03/20					
258	Construction of new RC for GRS Equipment Room	75 days	18/01/20	10/04/20					
259	ABWF for GRS Equipment room	45 days	11/04/20	25/05/20					
260	E&M Installation	45 days	16/05/20	29/06/20					
261	Construction of new Gas pipe plinths & racks	45 days	26/02/20	10/04/20					
262	Backfill and construction site drainage	21 days	11/04/20	01/05/20					
263	External Paving and install new fencing	60 days	02/05/20	30/06/20					
264	Section E1 - (iii) External Works at Area E15 ( C )	<u>273 days</u>	01/06/20	<u>28/02/21</u>					
265	Removal of Surcharge and excavation	45 days	01/06/20	15/07/20					
266	Underground drianage, Utilities and RC plinths	123 days	16/07/20	15/11/20					
267	Backfill and install surface utilities	45 days	16/11/20	30/12/20					
268	Roadwork	60 days	31/12/20	28/02/21					
269	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	<u>480 days</u>	<u>01/01/19</u>	<u>15/05/20</u>					
	1 tpc and Cable Mack at South of Pillule Avad at Alea Eo and E17								
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					Page 6 of 8				



Contract No. 17/8002 Lamma Power Station Extension Civil and Building Works for Unit L11  17-8002 Master Prog Rev 2.mpp  Refer to I								
Task Name	Duration	Start	Finish					
Modification of erection equipment	21 days	01/01/19	21/01/19	Mar '19 Apr '19	May '19			
Erection temp. platform and demolition work	30 days	22/01/19	02/03/19	Erection temp. platform and demolition work				
3 Structural steel delivery & Erection	90 days	03/03/19	31/05/19					
4 Removal of temp. work	45 days	01/06/19	15/07/19	(USSS) 000 000 000 000 000 000 000 000 000				
Reinstate G/F louvre wall and access door	30 days	16/07/19	14/08/19					
Section I - (i) 275kV cable trenching works connecting the 275kV Switching	232 days	15/09/19	15/05/20					
Station Extension and L11 MSB at Area E9 (B)	<u> 252 uays</u>	13/03/13	13/03/20					
Obtain Permit to work & Road close permit	0 days	15/09/19	15/09/19					
Excavation & construction new cable trench	160 days	16/09/19	04/03/20					
Re-excavate cable trench for cable laying	72 days	05/03/20	15/05/20					
Section I - (ii) Interconnector 2 Trench Modification Works at Area E10	275 days	01/04/20	31/12/20					
Obtain Permit to work & Road close permit	0 days	01/04/20	01/04/20					
Re-excavate & new cable trench for cable laying	275 days	01/04/20	31/12/20					
Section J - (i) Demolition of Retractable Cover A&B & (ii) Construction of	<b>426 days</b>	01/03/20	30/04/21					
new LOT 3 & 4								
Obtain permit to work & Road close permit	0 days	01/03/20	01/03/20					
Erection of Hoarding	21 days	01/03/20	21/03/20					
Removal of existing cover & structural steel	30 days	22/03/20	20/04/20					
Demolish of existing bund wall and staircases	45 days	21/04/20	04/06/20					
Demolish of existing slab & foundation	60 days	05/06/20	03/08/20					
Consent for new work	30 days	04/08/20	02/09/20					
Construction of new bund wall and foundation	100 days	03/09/20	11/12/20					
Construction of new oil separator	80 days	23/09/20	11/12/20					
Construct underground drainage and surface channel	40 days	12/12/20	20/01/21					
Construction on-grade slab	60 days	21/01/21	21/03/21					
Removal of hoarding and ground reinstatement	40 days	22/03/21	30/04/21					
Section K1 - External works at Area 15 (E) and 15(F)	<u>365 days</u>	<u>01/06/20</u>	<u>31/05/21</u>					
Removal of surcharge	30 days	01/06/20	30/06/20					
Construct new drainage and utilities work	200 days	01/07/20	16/01/21					
Road & Paving	135 days	17/01/21	31/05/21					
Section K2 - Removal of Southern Bund and External Works at Area D5, D6 and D7	<u>365 days</u>	01/06/20	31/05/21					
Demolition work	30 days	01/06/20	30/06/20					
Construct new drainage and utilities work	200 days	01/07/20	16/01/21					
Road & Paving	135 days	17/01/21	31/05/21					
Section K3 - All remaining works shall be completed for reporting completion	<u>623 days</u>	<u>08/01/20</u>	<u>30/09/21</u>					
to BD and ready for OP inspection (PS1.4.4)		0.5 15 1						
Completion of remaining roof after over headcrane move in	30 days	08/01/20	15/02/20					
Construction of G/F Lube Oil Tank Room	61 days	01/06/20	31/07/20					
Construction of wall and staircase at G/F after Condensor Move in	139 days	15/05/20	30/09/20					
Construction of Durasteel Steel wall panel after IBP installation	32 days	15/05/20	15/06/20					
Construction of Transformer fence wall, cladding & associated FS services	122 days	01/09/20	31/12/20					
Final restatement of road & paving around MSB & HRSG	122 days	01/09/20	31/12/20					
Installation of trench covers and gratings after plant installation	151 days	01/10/20	28/02/21					
Backfill and reinstatement after 275kV cable laying	122 days	01/06/21	30/09/21					