


**Contract No. 19/83002 Lamma Power Station Extension Civil and Building Works for Unit L12** **Master Programme**

ID	Task Name	Duration	Start	Finish	Jun	Jul	Aug	Sep	3rd Q
<b>1</b>	<b>KEY DATES &amp; MILESTONES</b>	<b>1123 days</b>	<b>Fri 4/12/20</b>	<b>Sun 31/12/23</b>					
2	Contract Period	1123 days	Fri 4/12/20	Sun 31/12/23					
3	Deferred Work Completion Key Dates	784 days	Mon 8/11/21	Sun 31/12/23					
4	Substantial Completion of the Whole Contract Works (1123 Days)	0 days	Sun 31/12/23	Sun 31/12/23					
<b>5</b>	<b>SITE POSSESSION DATES</b>	<b>513 days</b>	<b>Fri 4/12/20</b>	<b>Sun 1/5/22</b>					
6	Site Possession Date as phased site possession plan and PS1.4.2	0 days	Fri 4/12/20	Fri 4/12/20					
7	Site Possession Date as phased site possession plan and PS1.4.2	0 days	Fri 1/1/21	Fri 1/1/21					
8	Site Possession Date as phased site possession plan and PS1.4.2	0 days	Sat 1/5/21	Sat 1/5/21					
9	Site Possession Date as phased site possession plan and PS1.4.2	0 days	Fri 1/10/21	Fri 1/10/21					
10	Site Possession Date as phased site possession plan and PS1.4.2	0 days	Fri 1/4/22	Fri 1/4/22					
11	Site Possession Date as phased site possession plan and PS1.4.2	0 days	Sun 1/5/22	Sun 1/5/22					
<b>12</b>	<b>COMPLETION DATES as per PS1.4.2 Time for Completion</b>	<b>838 days</b>	<b>Thu 30/9/21</b>	<b>Tue 16/1/24</b>					
13	Section A1 (i) - Area south of L12 MSB and L12 HRSG from GL12-F eastwards leading to Chimney Road Area F1 & F2	0 days	Thu 30/9/21	Thu 30/9/21					
14	Section A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the associated roof structures except the roof deferred works	0 days	Mon 1/11/21	Mon 1/11/21					
15	Section A2 (i) External Works including CW Inlet Culvert at Area F8A	0 days	Fri 28/7/23	Fri 28/7/23					Section A2 (i) External Works including CW Inlet Culvert at Area F8A
16	Section A2 (ii) External Works including CW Inlet Culvert at Area F8B	0 days	Tue 16/1/24	Tue 16/1/24					
17	Section A2 (iii) External Works including CW Inlet Culvert at Area F8C	0 days	Sat 28/10/23	Sat 28/10/23					
18	Section B1 - Area south of L12 MSB from GL12-F westwards leading to Station Road at Area F3	0 days	Wed 15/12/21	Wed 15/12/21					
19	Section B2 (i) - Southern Part of L12 HRSG areas and its surrounding refer to Area F6B as shown in drawing no 553/03/2040 including the foundations for Gas Exhaust Duct	0 days	Thu 30/9/21	Thu 30/9/21					
20	Section B2 (ii) - Remaining northern part of L12 HRSG area and its surrounding at Area F6A and F6C	0 days	Mon 15/11/21	Mon 15/11/21					
21	Section B2 - (iii) L12 Turbo Block foundation including the L12 MSB ground floor together with the equipment foundations between GL 12-F to 12-H and 12-1 to 12-6 for the installation of power generator, air inlet duct and lube oil reservoir	0 days	Mon 28/2/22	Mon 28/2/22					
22	Section B2 - (iv) G/F of L12 MSB including the Condenser Pit, Circulating Water Pipe Pit and equipment foundations between GL 12-B to 12-C and 12-1 to 12-6 for the installation of condenser	0 days	Wed 15/12/21	Wed 15/12/21					
23	Section C - (i) Roads and external grounds surrounding L12 MSB and L12 HRSG in addition to the southern & eastern areas mentioned above in Area F5	0 days	Sat 15/1/22	Sat 15/1/22					
24	Section C - (ii) Whole of L12 MSB including the pipe and cable rack along south facade of L12 MSB with all underground utilities at Area F4 including C.W. Inlet and Outlet Culvert except the deferred works	0 days	Tue 30/5/23	Tue 30/5/23					Section C - (ii) Whole of L12 MSB including the pipe and cable rack along south facade of L12 MSB with all underground utilities at Area F4 including C.W. Inlet and Outlet Culvert except the deferred works
25	Section C - (iii) Link Bridge between L11 and L12 MSB including their associated A&A at L11 MSB	0 days	Sun 7/5/23	Sun 7/5/23					between L11 and L12 MSB including their associated A&A at L11 MSB
26	Section D - (i) Microwave Antenna Room and Chimney Windshiled for the installation of microwave equipment and antenna	0 days	Fri 10/6/22	Fri 10/6/22					
27	Section D (ii) - No. 5 Chimney with L12 Steel Flue liner	0 days	Wed 21/6/23	Wed 21/6/23					Section D (ii) - No. 5 Chimney with L12 Steel Flue liner
28	Section E (i) Tx Room of Administration and Control Building	0 days	Sun 31/10/21	Sun 31/10/21					
29	Section E (ii) - G/F, 1/F, 2/F & Hoisting Well of Admin. & Control Building	0 days	Mon 28/2/22	Mon 28/2/22					
30	Section E (iii) - Whole of Admin. And Control Building	0 days	Tue 31/5/22	Tue 31/5/22					
31	Section F (i) - Gas Receiving Station and L12 Gas Receiving Station Equipment Room (GRS) Area Extension at Area F14	0 days	Sun 9/4/23	Sun 9/4/23					on Equipment Room (GRS) Area Extension at Area F14
32	Section F (ii) - Pipe and Cable rack and external work at Area F9A and F9B	0 days	Mon 31/7/23	Mon 31/7/23					Section F (ii) - Pipe and Cable rack and external work at Area F9A and F9B
33	Section F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external works at Area F10	0 days	Wed 5/7/23	Wed 5/7/23					Section F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external works at Area F10
34	Section G (i) - External Work surrounding Area F11	0 days	Tue 31/10/23	Tue 31/10/23					
35	Section G (ii) - External Works at Area F12 & F13	0 days	Fri 20/10/23	Fri 20/10/23					
36	Section G (iii) - FS Modification works along South Seafront Road at Area F15	0 days	Fri 30/9/22	Fri 30/9/22					
37	Section G (iv) - 275kV cable trenches and External Works at Area F16	0 days	Mon 14/8/23	Mon 14/8/23					Section G (iv) - 275kV cable trenches and External Works
38	Section G (v) - Shunt Reactor Compound and External Works at Area F17	0 days	Sat 3/6/23	Sat 3/6/23					Section G (v) - Shunt Reactor Compound and External Works at Area F17
39	Section G (vi) - 275kV cable trenches and External Works at Area F18	0 days	Wed 1/6/22	Wed 1/6/22					
40	Section G (vii) - Flood Wall at No. 4 CW Intake Area along HUA at Area F20A	0 days	Tue 14/2/23	Tue 14/2/23					
41	Section G (viii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20B	0 days	Sat 30/9/23	Sat 30/9/23					
42	Section G (ix) - Bund wall modification works at South Seafront Road at Area F21	0 days	Fri 15/10/21	Fri 15/10/21					
43	Section G (x) - DAX Cable Diversion Works (from Part I to Part IV)	0 days	Sun 16/7/23	Sun 16/7/23					Section G (x) - DAX Cable Diversion Works (from Part I to Part IV)
44	Section H - All remaining works shall be completed for reporting completion to BD and ready for OP inspection	0 days	Sat 1/7/23	Sat 1/7/23					Section H - All remaining works shall be completed for reporting completion to BD and ready for OP inspection
<b>45</b>	<b>GENERAL &amp; PRELIMINARY</b>	<b>228 days</b>	<b>Fri 4/12/20</b>	<b>Mon 19/7/21</b>					
46	First Mobilization	18 days	Fri 4/12/20	Mon 21/12/20					
47	Set up Temporary Site Office and Welfare Facilities	90 days	Tue 22/12/20	Sun 21/3/21					
48	Permit Applications & Statutory Submissions	120 days	Mon 22/3/21	Mon 19/7/21					
49	Existing Utilities scanning & Excavation Permit	45 days	Tue 22/12/20	Thu 4/2/21					
50	Tower Crane erections	60 days	Sun 27/12/20	Wed 24/2/21					
<b>51</b>	<b>TECHNICAL SUBMISSION AND APPROVAL</b>	<b>1021 days</b>	<b>Thu 10/12/20</b>	<b>Wed 27/9/23</b>					
52	BD Approval & Consent (If required)	0 days	Thu 10/12/20	Thu 10/12/20					
53	Submission and Approval of Master Programme	14 days	Fri 11/12/20	Thu 24/12/20					
54	Work Execution Overall Plan submission & approval	14 days	Fri 11/12/20	Thu 24/12/20					
55	Material Submissions and approval	300 days	Fri 25/12/20	Wed 20/10/21					
56	Method Statement submission and approval	300 days	Fri 25/12/20	Wed 20/10/21					
57	BIM Model, CSD & CBWD Submission & approval	120 days	Fri 25/12/20	Fri 23/4/21					
58	Structure Steelwork Connection Design Submission & BD approval	45 days	Tue 29/12/20	Thu 11/2/21					
59	Structure Steelwork Shop Drawing & Approval	30 days	Fri 12/2/21	Sat 13/3/21					
60	Metal Cladding, louvre & windows submission & BD approval	45 days	Tue 29/12/20	Thu 11/2/21					
61	Metal Cladding, louvre & windows shop drawing submission	45 days	Fri 12/2/21	Sun 28/3/21					
62	Order, Off Site Fabrication and Delivery (S. Steel & Cladding & louvres)	120 days	Mon 29/3/21	Mon 25/7/21					
63	ELS Submission and BD approval	90 days	Fri 11/12/20	Wed 10/3/21					
64	No. 5 Chimney windshield temporary work submission, approval & fabrication	60 days	Fri 11/12/20	Mon 8/2/21					
65	Steel Flue Assessment Report and Design Drawings submission & approval	60 days	Tue 9/2/21	Fri 9/4/21					
66	Folding Shutters Shop Drawing Submission & Approval	30 days	Thu 11/2/21	Fri 12/3/21					
67	Fabrication & Delivery of Folding Shutters	180 days	Sat 13/3/21	Wed 8/9/21					
68	Sewage Pump System Design submission & approval	45 days	Wed 15/2/23	Fri 31/3/23					
69	Fabrication & Delivery of Sewage Pump	180 days	Sat 1/4/23	Wed 27/9/23					
70	Other material submission & approval & delivery	180 days	Sat 24/4/21	Wed 20/10/21					
71	Other material submission & approval & delivery	180 days	Sat 24/4/21	Wed 20/10/21					
<b>72</b>	<b>CONSTRUCTION</b>	<b>1139 days</b>	<b>Fri 4/12/20</b>	<b>Tue 16/1/24</b>					
73	Coordination with the Employer's Specialist Contractors	562 days	Fri 15/1/21	Sat 30/7/22					
74	Installation of Puddle Pipes at C.W. outlet Culvert	7 days	Mon 22/3/21	Sun 28/3/21					
75	Installation of Puddle Pipes at C.W. Inlet Culvert	7 days	Thu 27/5/21	Wed 2/6/21					
76	Template setting at L12 Turbo Block Foundation	45 days	Tue 16/1/21	Thu 30/12/21					
77	Template setting of holding down bolts at HRSG column base	45 days	Fri 15/1/21	Sun 28/2/21					
78	I-beam / channel base installation on top of transformer foundations at Transformer Area	45 days	Tue 1/6/21	Thu 15/7/21					
79	Overhead crane erection at turbine hall using access through a temporary opening at L12 MSB roof between GL12-G to 12-H and 12-2 to 12-9	38 days	Mon 1/11/21	Wed 8/12/21					
80	Condenser assembly and erection using access through a temporary facade opening at L12 MSB below 1/F along GL 12-6 from GL12-B to 12-C including a clear space below 1/F between GL 12-B to 12-C	122 days	Thu 16/12/21	Sat 16/4/22					

**MASTER PROGRAMME**  
Rev 1-B 23 Aug 2021



Task █ Split █ Milestone ◆ Summary █

**Contract No. 19/83002 Lamma Power Station Extension Civil and Building Works for Unit L12** **Master Programme**

ID	Task Name	Duration	Start	Finish	Jun	Jul	Aug	Sep	3rd Q
81	Installation of power train equipment including air inlet duct using access through a temporary façade opening at L12 MSB below 1/F along GL 12-6 from GL12-F to 12-H including a clear space below 1/F of the above area	121 days	Fri 1/4/22	Sat 30/7/22					
82	Installation of embedded materials such as holding down bolts for equipment foundations - Commencement	0 days	Thu 15/4/21	Thu 15/4/21					
83	<b>Section A1 (i) - Area south of L12 MSB and L12 HRSBG from GL12-F eastwards leading to Chimney Road at Area F1 &amp; F2</b>	<b>301 days</b>	<b>Fri 4/12/20</b>	<b>Thu 30/9/21</b>					
84	Area Possession & Clearance	30 days	Fri 4/12/20	Sat 2/1/21					
85	Subletting / Fabrication / Delivery (both for Area F1 and Area F2)	60 days	Sun 17/1/21	Wed 17/3/21					
86	Excavation for CW Inlet Culvert (Type D Construction Area)	14 days	Tue 1/6/21	Mon 14/6/21					
87	Installation CW Inlet Culvert pipe	70 days	Tue 15/6/21	Mon 23/8/21					
88	Backfill	7 days	Tue 24/8/21	Mon 30/8/21					
89	Construction UG Utilities 2m deep below further surface	28 days	Tue 31/8/21	Mon 27/9/21					
90	Temporary Paving and handover for plant erection	3 days	Tue 28/9/21	Thu 30/9/21					
91	<b>Section A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the associated roof structure except the roof deferred works</b>	<b>333 days</b>	<b>Fri 4/12/20</b>	<b>Mon 1/11/21</b>					
92	Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21					
93	Subletting / Fabrication / Delivery	210 days	Tue 23/2/21	Mon 20/9/21					
94	Complete structural steel erection	0 days	Tue 19/10/21	Tue 19/10/21					
95	Install Crane Girders	11 days	Tue 12/10/21	Fri 29/10/21					
96	Construction of roof slab (except defer work)	14 days	Tue 19/10/21	Mon 1/11/21					
97	Touch up and handover for install overhead cranes	3 days	Sat 30/10/21	Mon 1/11/21					
98	<b>Section A2 (i) External Works including CW Inlet Culvert at Area F8A</b>	<b>967 days</b>	<b>Fri 4/12/20</b>	<b>Fri 28/7/23</b>					
99	BD consent for Sheetpile installation	30 days	Fri 4/12/20	Sat 2/1/21					
100	Subletting / Fabrication / Delivery (both for Area F8A-F8B)	30 days	Fri 18/12/20	Sat 16/1/21					
101	Area Possession & Clearance	14 days	Sat 2/1/21	Fri 15/1/21					
102	Install Sheet pile	55 days	Sat 16/1/21	Thu 11/3/21					
103	Installation of Additional sheet Pile at South of area F8A	7 days	Sat 17/4/21	Fri 23/4/21					
104	BD Consent for ELS	28 days	Sat 24/4/21	Fri 21/5/21					
105	ELS and install CW Inlet Pipe (NW to N direction) (Assume flexible joint deliver in Sep 2021)	100 days	Fri 16/7/21	Sat 23/10/21					
106	Construction of Thrust Box & Manholes,etc	15 days	Thu 16/9/21	Thu 30/9/21					
107	Backfill, UG Utilities and Road Paving	150 days	Wed 1/3/23	Fri 28/7/23					
108	<b>Section A2 (ii) External Works including CW Inlet Culvert at Area F8B</b>	<b>1139 days</b>	<b>Fri 4/12/20</b>	<b>Tue 16/1/24</b>					
109	Area Possession & Clearance	30 days	Mon 1/3/21	Tue 30/3/21					
110	BD consent for Sheetpile installation	30 days	Fri 4/12/20	Sat 2/1/21					
111	Install Sheet pile	90 days	Fri 2/4/21	Wed 30/6/21					
112	BD Consent for ELS	28 days	Thu 1/7/21	Wed 28/7/21					
113	ELS and install CW Inlet Pipe	100 days	Thu 29/7/21	Fri 5/11/21					
114	Construction of Thrust Box & Manholes,etc	15 days	Wed 1/9/21	Wed 15/9/21					
115	Backfill, UG Utilities and Road Paving	200 days	Sat 1/7/23	Tue 16/1/24					
116	<b>Section A2 (iii) External Works including CW Inlet Culvert at Area F8C</b>	<b>961 days</b>	<b>Fri 12/3/21</b>	<b>Sat 28/10/23</b>					
117	Area Possession & Clearance	30 days	Fri 12/3/21	Sat 10/4/21					
118	Subletting / Fabrication / Delivery (for Area F8C)	60 days	Fri 12/3/21	Mon 10/5/21					
119	BD consent for Sheetpile installation	30 days	Tue 13/4/21	Wed 12/5/21					
120	Install Sheet pile	62 days	Thu 13/5/21	Tue 13/7/21					
121	BD Consent for ELS	35 days	Wed 14/7/21	Tue 17/8/21					
122	ELS and install CW Inlet Pipe (including soil nail installation under 19/83014)	76 days	Wed 18/8/21	Thu 20/1/22					
123	Construction of Thrust Box & Manholes,etc	30 days	Fri 21/1/22	Sat 19/2/22					
124	Backfill, UG Utilities and Road Paving	150 days	Thu 1/6/23	Sat 28/10/23					
125	<b>Section B1 - Area south of L12 MSB from GL12-F westwards leading to Station Road at Area F3</b>	<b>377 days</b>	<b>Fri 4/12/20</b>	<b>Wed 15/12/21</b>					
126	Area Possession & Clearance	30 days	Fri 4/12/20	Sat 2/1/21					
127	Subletting / Fabrication / Delivery	120 days	Fri 25/12/20	Fri 23/4/21					
128	Complete CW Pipe Installation & Thrust box	45 days	Tue 25/5/21	Thu 8/7/21					
129	Backfill	30 days	Fri 9/7/21	Sat 7/8/21					
130	Construction of Storm Drain & Manholes	67 days	Mon 20/9/21	Thu 25/11/21					
131	Temp Paving and handover for Condenser Move in	20 days	Fri 26/11/21	Wed 15/12/21					
132	<b>Section B2 - (i) Southern part of L12 HRSBG area and its surrounding at Area F6B including the foundations for Gas Exhaust Duct</b>	<b>273 days</b>	<b>Fri 1/1/21</b>	<b>Thu 30/9/21</b>					
133	Area Possession & Clearance	30 days	Fri 1/1/21	Sat 30/1/21					
134	Subletting / Fabrication / Delivery (for F6B Civil and E&M)	120 days	Sat 2/1/21	Sat 1/5/21					
135	Construction of underground pits	35 days	Tue 8/6/21	Mon 12/7/21					
136	Excavation & Construct Pile Caps & Tie Beams & Piers	86 days	Mon 8/3/21	Thu 19/8/21					
137	Installation of Pipe Pile for HRSBG foundation (VO)	48 days	Thu 25/3/21	Tue 11/5/21					
138	Construction HRSBG & Gas Duct foundations	112 days	Fri 7/5/21	Fri 3/9/21					
139	Construction of HRSBG Equipment Room incl. ABWF & BS (except T&C)	64 days	Tue 4/5/21	Thu 30/9/21					
140	Construction underground utilities within HRSBG	55 days	Mon 19/7/21	Sat 11/9/21					
141	Backfill & Construction on-grade slabs & RC plinths on top	14 days	Fri 30/7/21	Mon 27/9/21					
142	Backfill and Temporary paving	21 days	Fri 10/9/21	Thu 30/9/21					
143	<b>Section B2 (ii) - Remaining northern part of L12 HRSBG area and its surrounding at Area F6A and F6C</b>	<b>319 days</b>	<b>Fri 1/1/21</b>	<b>Mon 15/11/21</b>					
144	Area Possession and Clearance at Area F6A	30 days	Fri 1/1/21	Sat 30/1/21					
145	Subletting / Fabrication / Delivery (for Area F6A and F6C civil)	90 days	Sat 2/1/21	Thu 1/4/21					
146	Construction of Underground pits (HRSBG Blowdown sump pit)	110 days	Sat 2/1/21	Wed 21/4/21					
147	Excavation & Construct Pile Caps & Tie Beams & Piers	139 days	Mon 1/2/21	Sat 10/7/21					
148	Construction underground utilities within HRSBG	55 days	Mon 19/7/21	Sat 11/9/21					
149	Construction of Underground pits (GT Oil & Chemical drain pits)	15 days	Thu 5/8/21	Thu 19/8/21					
150	Backfill & Construction on-grade slabs & RC plinths on top	45 days	Sun 12/9/21	Tue 26/10/21					
151	Construct RC Walls	90 days	Thu 22/4/21	Tue 20/7/21					
152	Construction of Underground utilities at F6C	21 days	Tue 19/10/21	Mon 8/11/21					
153	Backfill and Temporary paving	7 days	Tue 9/11/21	Mon 15/11/21					
154	<b>Section B2 - (iii) L12 Turbo Block foundation including the L12 MSB ground floor together with the equipment foundations between GL 12-F to 12-H and 12-1 to 12-6 for the installation of power generator, air inlet duct and lube oil reservoir</b>	<b>452 days</b>	<b>Fri 4/12/20</b>	<b>Mon 28/2/22</b>					
155	Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21					
156	Subletting / Fabrication / Delivery (Civil+ABWF+BS for MSBL12)	150 days	Fri 25/12/20	Sun 23/5/21					
157	Complete excavation at Type A&C Construction Area	0 days	Sun 21/3/21	Sun 21/3/21					
158	Excavation & Pile Caps & Tie Beams + Slabs (Turbo Block North)	75 days	Sun 31/1/21	Thu 15/4/21					
159	Backfill and construction turbine block & equipment foundation	85 days	Tue 1/6/21	Tue 24/8/21					
160	Excavation & Pile Caps & Tie Beams + Slabs (Turbo Block South)	45 days	Sat 17/4/21	Mon 31/5/21					
161	Construction of internal drainage & on-grade slab	90 days	Wed 1/9/21	Mon 29/11/21					
162	Construction turbine block columns and upper portion for plant embed installation	83 days	Wed 25/8/21	Mon 15/11/21					
163	Concrete Turbine upper part foundation	15 days	Fri 31/12/21	Fri 14/1/22					
164	Construction of Lube Oil Room	60 days	Tue 30/11/21	Fri 28/1/22					
165	Concrete RC walls	115 days	Tue 7/9/21	Thu 30/12/21					
166	ABFW Works	60 days	Thu 4/11/21	Sun 2/1/22					
167	Building Services Works	45 days	Sat 15/1/22	Mon 28/2/22					
168	Remove temporary falsework and scaffolding for installation of power generator	13 days	Mon 7/2/22	Sat 19/2/22					



**Contract No. 19/83002 Lamma Power Station Extension Civil and Building Works for Unit L12** **Master Programme**

ID	Task Name	Duration	Start	Finish	Jun	Jul	Aug	Sep	Oct
169	<b>Section B2 - (iv) G/F of L12 MSB including the Condenser Pit, Circulating Water Pipe Pit and equipment foundations between GL 12-B to 12-C and 12-1 to 12-6 for the installation of condenser</b>	<b>377 days</b>	<b>Fri 4/12/20</b>	<b>Wed 15/12/21</b>					
170	Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21					
171	Subletting / Fabrication / Delivery (for MSB L12 civil)	150 days	Fri 25/12/20	Sun 23/5/21					
172	Excavation to foundation level at ELS SP Type A & C	80 days	Fri 1/1/21	Sun 21/3/21					
173	Install CW Outlet pipe	85 days	Mon 22/3/21	Mon 14/6/21					
174	Construction of CW Outlet Box + lowest tie beam & caps	40 days	Mon 22/3/21	Fri 30/4/21					
175	Construction of pile caps & tie beams & sump pits up to +2.7mPD	26 days	Sat 1/5/21	Wed 26/5/21					
176	Backfill & Construction of CW Inlet Box + tie beams	71 days	Thu 27/5/21	Thu 5/8/21					
177	Construction of pile caps & tie beams at SunShadeCover Area	45 days	Tue 15/6/21	Thu 29/7/21					
178	Backfill and Construction ground beams & trenches	28 days	Thu 27/5/21	Mon 5/7/21					
179	Construction of indoor underground drainage	14 days	Fri 13/8/21	Thu 26/8/21					
180	Backfill & construction on-grade slabs	60 days	Sun 1/8/21	Wed 29/9/21					
181	Construction Column casting and RC walls & equipment foundations	50 days	Thu 30/9/21	Thu 18/11/21					
182	ABFW Works	15 days	Fri 19/11/21	Fri 3/12/21					
183	Building Services Works	20 days	Fri 26/11/21	Wed 15/12/21					
184	Mis. Works and Ready for condenser move in	25 days	Wed 17/11/21	Wed 15/12/21					
185	<b>Section C - (i) Roads and external grounds surrounding L12 MSB and L12 HRSG in addition to the southern &amp; eastern areas mentioned above in Area F5</b>	<b>408 days</b>	<b>Fri 4/12/20</b>	<b>Sat 15/1/22</b>					
186	Area Possession & Clearance	30 days	Fri 4/12/20	Sat 2/1/21					
187	Subletting / Fabrication / Delivery	210 days	Fri 25/12/20	Thu 22/7/21					
188	Complete substructure & Steel Erection works for MSB	0 days	Tue 17/8/21	Tue 17/8/21					
189	Construction all utilities deeper than 2m from future road level	30 days	Wed 18/8/21	Thu 16/9/21					
190	Construction of cable trenches	30 days	Fri 17/9/21	Sat 16/10/21					
191	Backfill and lay temporary paving	91 days	Sun 17/10/21	Sat 15/1/22					
192	<b>Section C - (ii) Whole of L12 MSB including the pipe and cable rack along south façade of L12 MSB with all underground utilities at Area F4 including C.W. Inlet and Outlet Culvert except the deferred works</b>	<b>908 days</b>	<b>Fri 4/12/20</b>	<b>Tue 30/5/23</b>					
193	Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21					
194	Subletting / Fabrication / Delivery	120 days	Fri 25/12/20	Fri 23/4/21					
195	Construction of pile caps & tie beams at Transformer Area	180 days	Sun 31/1/21	Thu 29/7/21					
196	Backfill and on-grade slab at transformer Area	160 days	Sun 11/4/21	Thu 7/10/21					
197	Construction of Fire Walls at Transformer Area	45 days	Fri 8/10/21	Mon 29/11/21					
198	Excavation & Construction Blow Down Sump pit (SP Type B)	140 days	Wed 14/4/21	Tue 31/8/21					
199	Preparation for S.Steelwork Erection	7 days	Sat 5/6/21	Fri 11/6/21					
200	Structural Delivery & Erection (Turbine Hall North fr G.L. 1-3/H->B)	67 days	Sat 12/6/21	Tue 17/8/21					
201	Structural Delivery & Erection (Equipment Floors)	33 days	Wed 18/8/21	Sun 19/9/21					
202	Structural Delivery & Erection (Turbine Hall South + East Elevation)	47 days	Mon 20/9/21	Fri 5/11/21					
203	Joint Tightening and touch up coating	99 days	Sat 3/7/21	Wed 24/11/21					
204	External Scaffolding Erection	97 days	Thu 15/7/21	Mon 22/11/21					
205	Construction 1/F RC Slab	14 days	Mon 20/9/21	Sun 3/10/21					
206	Construction 2/F RC Slab	7 days	Mon 27/9/21	Sun 10/10/21					
207	Construction 3/F RC Slab	18 days	Thu 30/9/21	Sun 17/10/21					
208	Construction 4/F RC Slab	7 days	Thu 7/10/21	Sun 24/10/21					
209	Construction 5/F RC Slab	44 days	Mon 25/10/21	Tue 7/12/21					
210	Construction 6/F RC Slab	14 days	Wed 1/12/21	Tue 14/12/21					
211	Construction Upper Roof RC Slab	10 days	Sun 12/12/21	Fri 24/12/21					
212	Construction Main Roof RC Slab	39 days	Tue 12/10/21	Fri 19/11/21					
213	Construction Defer Roof RC Slab (G.L. G-H)	16 days	Sun 28/11/21	Mon 13/12/21					
214	Construction of Staircase ST-01 & lift shaft & machine room	130 days	Fri 27/8/21	Mon 3/1/22					
215	Construction M/F RC Slab	14 days	Fri 1/10/21	Thu 14/10/21					
216	Lift Installation	90 days	Thu 9/2/23	Tue 9/5/23					
217	Construction of Staircase ST-02 except defer work	68 days	Mon 11/10/21	Fri 24/12/21					
218	Construction of RC plinth, kerbs & parapet Walls	40 days	Sat 20/11/21	Wed 29/12/21					
219	Erection of Skylight & Roof Features	50 days	Fri 26/11/21	Fri 14/1/22					
220	Waterproofing & Flooring at Roof	34 days	Thu 30/12/21	Thu 17/2/22					
221	ABFW Works	600 days	Fri 8/10/21	Tue 30/5/23					
222	Building Services Works	550 days	Tue 16/11/21	Fri 19/5/23					
223	Metal Cladding, Windows and Louvres incl. roof feature	535 days	Mon 23/8/21	Wed 8/2/23					
224	Removal of external scaffolding	460 days	Wed 1/12/21	Sun 5/3/23					
225	Installation of Catwalk at south elevation	90 days	Thu 1/9/22	Wed 14/12/22					
226	Cladding, ABWF & BS Works	60 days	Thu 15/12/22	Sun 12/2/23					
227	Removal of temporary works & clearance for plant erection contractor	30 days	Sat 14/1/23	Sun 12/2/23					
228	<b>Section C - (iii) Link Bridge between L11 and L12 MSB including their associated A&amp;A at L11 MSB</b>	<b>885 days</b>	<b>Fri 4/12/20</b>	<b>Sun 7/5/23</b>					
229	BD Consent	0 days	Fri 4/12/20	Fri 4/12/20					
230	Subletting / Fabrication / Delivery (For BS and ABWF)	250 days	Fri 25/12/20	Tue 31/8/21					
231	Clearing Works and plant set-up	30 days	Fri 3/12/21	Sat 1/1/22					
232	Dismantle of north scaffold for link bridge erection	0 days	Tue 25/1/22	Tue 25/1/22					
233	A&A works at South of L11 MSB	30 days	Fri 3/12/21	Sat 1/1/22					
234	Erection of link bridge structural steel	30 days	Sun 2/1/22	Mon 31/1/22					
235	Casting of bridge deck	11 days	Tue 1/2/22	Fri 11/2/22					
236	Metal roofing installation	30 days	Wed 22/2/23	Thu 23/3/23					
237	ABWF work	15 days	Fri 24/3/23	Fri 7/4/23					
238	BS Works	30 days	Sat 8/4/23	Sun 7/5/23					
239	Ready for power cable laying work by others	0 days	Sun 10/4/22	Sun 10/4/22					
240	<b>Section D - (ii) No. 5 Chimney with L12 Steel Flue Liner</b>	<b>902 days</b>	<b>Fri 1/1/21</b>	<b>Wed 21/6/23</b>					
241	Area Possession & Clearance	45 days	Fri 1/1/21	Sun 14/2/21					
242	Subletting / Fabrication / Delivery (For Civil and BS for Microwave Antenna and Equipment)	120 days	Fri 8/1/21	Fri 7/5/21					
243	Excavation & Pile Cap & Backfill	90 days	Sat 2/1/21	Thu 1/4/21					
244	Tower Crane erection	30 days	Tue 11/5/21	Wed 9/6/21					
245	Construction of Wind Shield + clearance for internal floors and flue+Ground slab	308 days	Fri 2/4/21	Mon 4/4/22					
246	Structural steel fabrication & Delivery for floors and staircase	415 days	Mon 3/1/22	Tue 21/2/23					
247	Erection of steel floors	79 days	Tue 19/4/22	Wed 6/7/22					
248	Construction of G/F room incl. Microwave Antenna Rm	45 days	Thu 7/7/22	Sat 20/8/22					
249	Construction of 1/F RC slab	8 days	Sat 13/8/22	Sat 20/8/22					
250	Construction of 2/F RC Slab	8 days	Fri 5/8/22	Fri 12/8/22					
251	Construction of 3/F RC slab	8 days	Thu 28/7/22	Thu 4/8/22					
252	Construction of 4/F RC slab	8 days	Thu 7/7/22	Thu 14/7/22					
253	Construction of Roof RC slab	61 days	Tue 21/6/22	Sat 20/8/22					
254	Removal of tower Crane	7 days	Sun 21/8/22	Sat 27/8/22					
255	Steel Flue fabrication and delivery	145 days	Sat 5/3/22	Wed 27/7/22					
256	Set up for steel flue installation	60 days	Tue 5/7/22	Fri 2/9/22					
257	Lift & install steel flue liner + cladding works	200 days	Thu 28/7/22	Sun 12/2/23					
258	Lift installation	120 days	Wed 22/2/23	Wed 21/6/23					
259	Installation Louvre & Doors	60 days	Mon 13/2/23	Thu 13/4/23					
260	Mis works, Demobilization and ready for gas duct connection	17 days	Thu 5/1/23	Sat 21/1/23					
261	<b>Section D (i) - ABWF and BS Works at Microwave Antenna Room and Chimney Windshield for installation of microwave and antenna</b>	<b>102 days</b>	<b>Tue 1/3/22</b>	<b>Fri 10/6/22</b>					
262	Completion of Microwave Antenna Room	0 days	Tue 1/3/22	Tue 1/3/22					
263	Remaining ABWF & BS Works	100 days	Thu 3/3/22	Fri 10/6/22					
264	<b>Section E - (i) Administration and Control Building (Transformer Room)</b>	<b>332 days</b>	<b>Fri 4/12/20</b>	<b>Sun 31/10/21</b>					
265	Area Possession & Clearance + BD consent	60 days	Fri 4/12/20	Mon 1/2/21					
266	Subletting / Fabrication / Delivery (For Civil+BS+ABWF)	100 days	Tue 2/2/21	Wed 12/5/21					

**Contract No. 19/83002 Lamma Power Station Extension Civil and Building Works for Unit L12**

**Master Programme**


ID	Task Name	Duration	Start	Finish	Jun	Jul	Aug	Sep	Oct
267	Excavation works	45 days	Fri 4/12/20	Sun 17/1/21					
268	Main Earth Grid Installation	45 days	Sun 3/1/21	Tue 16/2/21					
269	Pile cap and Tie Beam	45 days	Sun 3/1/21	Tue 16/2/21					
270	Tower Crane Erection and modification works	49 days	Wed 10/2/21	Tue 30/3/21					
271	Substructure + Bearing walls + On grade slabs	115 days	Wed 17/2/21	Fri 11/6/21					
272	Construction of RC up to 1/F incl. staircases	69 days	Sat 12/6/21	Thu 19/6/21					
273	ABWF at G/F	52 days	Fri 10/9/21	Sun 31/10/21					
274	<b>Section E (ii) Handover G/F, 1/F, 2/F &amp; Hoisting Well</b>	<b>452 days</b>	<b>Fri 4/12/20</b>	<b>Mon 28/2/22</b>					
275	Cleaning Works and plant set-up	21 days	Sun 31/10/21	Sat 20/11/21					
276	Subletting / Fabrication / Delivery (For NSC Lift)	180 days	Sun 3/1/21	Sat 31/7/21					
277	Construction of RC up to 2/F incl. staircases	25 days	Sat 14/8/21	Mon 13/9/21					
278	Construction of RC up to 3/F incl. staircases	20 days	Thu 2/9/21	Tue 21/9/21					
279	Temporary Hoist erection	14 days	Wed 22/9/21	Tue 5/10/21					
280	Construction of RC up to 4/F incl. staircases	20 days	Thu 16/9/21	Tue 5/10/21					
281	Construction of RC up to R/F incl. staircases	25 days	Thu 30/9/21	Sun 24/10/21					
282	Construction of RC up to lift machine room	21 days	Mon 25/10/21	Sun 14/11/21					
283	Construction of RC up to UR/F	21 days	Mon 15/11/21	Sun 5/12/21					
284	External Wall Finish, Cladding + Windows and Louvres + Features	500 days	Thu 30/9/21	Sat 11/2/23					
285	ABWF at 1/F	95 days	Fri 8/10/21	Mon 10/1/22					
286	ABWF at 2/F	96 days	Fri 15/10/21	Tue 18/1/22					
287	Building Services Works at G/F, 1/F, 2/F & Hoisting Well	147 days	Tue 5/10/21	Mon 28/2/22					
288	<b>Section E (iii) Whole of Administration and Control Building</b>	<b>513 days</b>	<b>Sat 23/10/21</b>	<b>Sun 19/3/23</b>					
289	Subletting / Fabrication / Delivery (For BS+ABWF)	127 days	Sat 23/10/21	Sun 20/3/22					
290	Construction of New UG Grey Water Tank	60 days	Mon 21/3/22	Thu 19/5/22					
291	Submission of WW046 for commencement	60 days	Wed 19/1/22	Sat 19/3/22					
292	ABWF at 3/F	500 days	Mon 25/10/21	Wed 8/3/23					
293	ABWF at 4/F	470 days	Wed 24/11/21	Wed 8/3/23					
294	ABWF at R/F	470 days	Wed 24/11/21	Wed 8/3/23					
295	ABWF at UR/F + Lift Machine Room	35 days	Wed 1/2/23	Mon 13/3/23					
296	Bridge Erection & Connection	28 days	Wed 9/3/22	Wed 27/4/22					
297	Installation of Raised floors	60 days	Thu 9/12/21	Sun 6/2/22					
298	Removal of external scaffolding	45 days	Sat 21/1/23	Tue 14/3/23					
299	Waterproofing & screeding	440 days	Mon 6/12/21	Sat 18/2/23					
300	Removal of Tower Crane	7 days	Thu 31/3/22	Wed 6/4/22					
301	External utilities and road work	45 days	Fri 20/1/23	Tue 7/5/23					
302	Building Services Works	450 days	Sat 4/12/21	Sun 26/2/23					
303	False ceiling after BS works	54 days	Sun 15/1/23	Sat 11/3/23					
304	Submission of WW046 for completion	360 days	Wed 9/3/22	Fri 3/3/23					
305	Submission of FS inspection	14 days	Fri 3/3/23	Fri 17/3/23					
306	Submission for OP Inspection	14 days	Wed 8/3/23	Tue 21/3/23					
307	<b>Section F (i) - Gas Receiving Station and L12 Gas Receiving Station Equipment Room (GRS) Area Extension at Area F14</b>	<b>678 days</b>	<b>Tue 1/6/21</b>	<b>Sun 9/4/23</b>					
308	Area Possession & Clearance + BD consent	90 days	Tue 1/6/21	Sun 29/8/21					
309	Subletting / Fabrication / Delivery	30 days	Tue 22/6/21	Wed 21/7/21					
310	Installation of pipe pile at north of GRS (VO)	125 days	Mon 5/7/21	Sat 6/11/21					
311	Construction Equipment room extension	145 days	Sun 31/10/21	Thu 24/3/22					
312	Modification of existing drainage	45 days	Fri 25/3/22	Sun 8/5/22					
313	Excavation & earthing for Skid foundations	21 days	Mon 9/5/22	Sun 29/5/22					
314	Construction of Skid foundation	45 days	Mon 30/5/22	Wed 13/7/22					
315	Construct underground utilities and drainage	45 days	Thu 14/7/22	Sat 27/8/22					
316	Backfill and road works	200 days	Sun 28/8/22	Wed 15/3/23					
317	Relocate / install new fencing for completion	21 days	Sun 5/3/23	Sun 26/3/23					
318	Mis. Work and ready for OP inspection	14 days	Mon 27/3/23	Sun 9/4/23					
319	<b>Section F (ii) - Pipe and Cable rack and external work at Area F9A and F9B</b>	<b>941 days</b>	<b>Sat 2/1/21</b>	<b>Mon 31/7/23</b>					
320	BD consent + Site Possession at Area F9A & F9B	90 days	Sat 2/1/21	Thu 1/4/21					
321	Excavation & Plate load test	30 days	Mon 1/11/21	Tue 30/11/21					
322	Construction new footing for pipe rack	30 days	Wed 1/12/21	Mon 23/5/22					
323	Underground utilities and road works for completion	11 days	Thu 31/3/22	Tue 31/5/22					
324	Structural Steel fabrication & Delivery	90 days	Sat 2/10/21	Tue 31/5/22					
325	Erection of new pipe rack	70 days	Fri 31/12/21	Thu 10/3/22					
326	Mis. Work and ready for OP inspection	31 days	Sat 1/7/23	Mon 31/7/23					
327	<b>Section F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external works at Area F10</b>	<b>765 days</b>	<b>Tue 1/6/21</b>	<b>Wed 5/7/23</b>					
328	Area Possession & Clearance + BD consent	90 days	Tue 1/6/21	Sun 14/11/21					
329	Subletting / Fabrication / Delivery For ABWF + BS	150 days	Wed 2/6/21	Fri 29/10/21					
330	Installation of Sheet Pile (VO)	85 days	Tue 1/6/21	Tue 24/8/21					
331	Consent for ELS Works	28 days	Wed 25/8/21	Tue 21/9/21					
332	Excavation & Plate load test	30 days	Wed 22/9/21	Thu 21/10/21					
333	Construction new footing for equipment room	68 days	Thu 23/12/21	Mon 28/2/22					
334	Superstructure for equipment room	60 days	Tue 1/3/22	Fri 29/4/22					
335	ABWF Works	45 days	Sat 30/4/22	Mon 13/6/22					
336	BS Works	400 days	Wed 1/6/22	Wed 5/7/23					
337	Construction RC Wall & plinths & drainage at Chlorinator area	280 days	Wed 30/3/22	Tue 3/1/23					
338	External wall finish & remove scaffolding	60 days	Sat 31/12/22	Tue 28/2/23					
339	Excavation & Plate load test for pipe rack extension (For F45-47 & F49)	30 days	Sat 16/10/21	Sun 14/11/21					
340	Construction new footing for pipe rack (For F45-47 & F49)	45 days	Mon 15/11/21	Wed 29/12/21					
341	Underground utilities and road works for completion	31 days	Wed 1/3/23	Fri 31/3/23					
342	Structural Steel fabrication & Delivery	90 days	Sun 12/12/21	Fri 11/3/22					
343	Backfilling and prepare for steel erection	12 days	Mon 28/2/22	Fri 11/3/22					
344	Excavation & Plate Load test for pipe rack extension (For F48 F56)	14 days	Wed 30/3/22	Tue 12/4/22					
345	Construction of new footing for pipe rack (For F48 & F56)	14 days	Wed 13/4/22	Tue 26/4/22					
346	Erection of new pipe rack (For F48 & F56)	65 days	Tue 3/5/22	Wed 6/7/22					
347	Erection of new pipe rack (For F45-47 & F49)	70 days	Sat 12/3/22	Fri 20/5/22					
348	Mis. Work and ready for OP inspection	56 days	Sun 7/5/23	Wed 5/7/23					
349	<b>Section G (i) - External Work surrounding Area F11</b>	<b>254 days</b>	<b>Mon 20/2/23</b>	<b>Tue 31/10/23</b>					
350	Area Possession & Clearance after handover from No. 5 Intake Contractor	31 days	Wed 1/3/23	Fri 31/3/23					
351	Subletting / Fabrication / Delivery	31 days	Mon 20/2/23	Wed 22/3/23					
352	Submission WWO046 for commencement	31 days	Wed 1/3/23	Fri 31/3/23					
353	Construct Underground utilities and drainage	150 days	Sat 1/4/23	Mon 28/8/23					
354	Install new FS Hydrant	20 days	Mon 10/7/23	Sat 29/7/23					
355	Submission WWO046 for completion	30 days	Sun 30/7/23	Mon 28/8/23					
356	Construction Road extension	58 days	Sun 30/7/23	Mon 25/9/23					
357	Construction road paving and install fencing	30 days	Tue 26/9/23	Wed 25/10/23					
358	Ready for OP inspection	14 days	Wed 18/10/23	Tue 31/10/23					
359	<b>Section G (ii) - External Works at Area F12 &amp; F13</b>	<b>961 days</b>	<b>Thu 4/3/21</b>	<b>Fri 20/10/23</b>					
360	Area Possession & Clearance after handover from other	45 days	Wed 17/5/23	Fri 30/6/23					
361	Subletting / Fabrication / Delivery	180 days	Thu 4/3/21	Mon 30/8/21					
362	Excavation	7 days	Sat 1/7/23	Fri 7/7/23					







**Contract No. 19/83002 Lamma Power Station Extension Civil and Building Works for Unit L12** **Master Programme**

ID	Task Name	Duration	Start	Finish	
363	Submission WWO046 for commencement	30 days	Thu 8/6/23	Fri 7/7/23	
364	Construct Underground utilities and drainage	60 days	Sat 8/7/23	Tue 5/9/23	
365	Install new FS Hydrant	15 days	Wed 6/9/23	Wed 20/9/23	
366	Submission WWO046 for completion	30 days	Thu 21/9/23	Fri 20/10/23	
367	Construction Road extension	15 days	Thu 21/9/23	Thu 5/10/23	
368	Complete with Mis. Works for completion	15 days	Fri 6/10/23	Fri 20/10/23	
369	<b>Section G (iii) - FS Modification works along South Seafront Road at Area F15</b>	<b>183 days</b>	<b>Fri 1/4/22</b>	<b>Fri 30/9/22</b>	
370	Area Possession & Clearance after handover from other	45 days	Fri 1/4/22	Sun 15/5/22	
371	Subletting / Fabrication / Delivery	21 days	Fri 1/4/22	Thu 21/4/22	
372	Temporary Traffic Arrangement approval	14 days	Fri 1/4/22	Thu 14/4/22	
373	Utilities scanning and expose existing FS	14 days	Fri 15/4/22	Thu 28/4/22	
374	Determine new FS alignment	21 days	Fri 29/4/22	Thu 19/5/22	
375	Submission to FSD	14 days	Fri 20/5/22	Thu 2/6/22	
376	Modification of FS	60 days	Fri 3/6/22	Mon 1/8/22	
377	Backfill and reinstatement - report to FSD	60 days	Tue 2/8/22	Fri 30/9/22	
378	<b>Section G (iv) - 275kV cable trenches and External Works at Area F16</b>	<b>836 days</b>	<b>Sat 1/5/21</b>	<b>Mon 14/6/23</b>	
379	Area Possession & Clearance	60 days	Sat 1/5/21	Tue 29/6/21	
380	Subletting / Fabrication / Delivery	210 days	Wed 17/11/21	Tue 14/6/22	
381	Temporary Traffic Arrangement approval	60 days	Sat 1/5/21	Tue 29/6/21	
382	Removal of aboveground services	60 days	Wed 30/6/21	Sat 28/8/21	
383	Utilities scanning and expose existing UU	30 days	Sun 29/8/21	Mon 27/9/21	
384	Arrange of diversion existing UG utilities	90 days	Tue 28/9/21	Sun 26/12/21	
385	Construct new cable trenches	550 days	Mon 27/12/21	Thu 29/6/23	
386	Realignment / install new UG utilities	30 days	Fri 23/6/23	Sun 23/7/23	
387	Backfill and reinstatement & ready for cable laying by others	45 days	Sat 1/7/23	Mon 14/8/23	
388	<b>Section G (v) - Shunt Reactor Compound and External Works at Area F17</b>	<b>912 days</b>	<b>Fri 4/12/20</b>	<b>Sat 3/6/23</b>	
389	Temporary Traffic Arrangement approval	45 days	Fri 4/12/20	Sun 17/1/21	
390	Subletting / Fabrication / Delivery	100 days	Fri 25/12/20	Sat 3/4/21	
391	BD approval & consent for pipe pile installation	90 days	Fri 4/12/20	Wed 3/3/21	
392	Area Possession & Clearance	14 days	Thu 4/3/21	Wed 17/3/21	
393	Removal of aboveground services	21 days	Thu 18/3/21	Wed 7/4/21	
394	Utilities scanning and expose existing UU	15 days	Thu 8/4/21	Thu 22/4/21	
395	Arrange of diversion existing UG utilities	45 days	Fri 23/4/21	Sun 6/6/21	
396	Install pipe piles	61 days	Sun 23/5/21	Thu 22/7/21	
397	BA14 for pipepile and BD consent for ELS	28 days	Fri 23/7/21	Thu 19/8/21	
398	Excavation & install earthing	35 days	Fri 20/8/21	Thu 23/9/21	
399	Construct Pipe Caps and Tie Beams	45 days	Fri 24/9/21	Sun 7/11/21	
400	Backfill & Erect scaffold	21 days	Mon 8/11/21	Sun 28/11/21	
401	Construction of SRC Walls	75 days	Mon 29/11/21	Fri 11/2/22	
402	Wall finish and remove scaffolding	380 days	Sat 12/2/22	Sun 26/2/23	
403	Construct new cable trenches	60 days	Thu 9/2/23	Sun 9/4/23	
404	Install new UG Utilities, Backfill and reinstatement & ready for cable laying by others for DAX1	55 days	Thu 7/4/22	Tue 31/5/22	
405	Realignment / install new UG utilities (for DAX2, APX1 & APX3)	30 days	Tue 4/4/23	Thu 4/5/23	
406	Backfill and reinstatement & ready for cable laying by others (for DAX2, APX1 & APX3)	30 days	Thu 4/5/23	Sat 3/6/23	
407	<b>Section G (vi) - 275kV cable trenches and External Works at Area F18</b>	<b>397 days</b>	<b>Sat 1/5/21</b>	<b>Wed 1/6/22</b>	
408	Temporary Traffic Arrangement approval	45 days	Sat 1/5/21	Mon 14/6/21	
409	Subletting / Fabrication / Delivery	60 days	Tue 15/6/21	Fri 13/8/21	
410	Area Possession & Clearance	15 days	Sat 1/5/21	Sat 15/5/21	
411	Removal of aboveground services	30 days	Sun 16/5/21	Mon 14/6/21	
412	Utilities scanning and expose existing UU	45 days	Tue 15/6/21	Thu 23/9/21	
413	Arrange of diversion existing UG utilities	60 days	Fri 30/7/21	Mon 27/9/21	
414	Construct new cable trenches	172 days	Tue 28/9/21	Fri 18/3/22	
415	Realignment / install new UG utilities	45 days	Sat 19/3/22	Mon 2/5/22	
416	Backfill and reinstatement & ready for cable laying by others	30 days	Tue 3/5/22	Wed 1/6/22	
417	<b>Section G (vii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20A</b>	<b>803 days</b>	<b>Fri 4/12/20</b>	<b>Tue 14/2/23</b>	
418	Area Possession & Clearance	30 days	Fri 4/12/20	Sat 2/1/21	
419	Subletting / Fabrication / Delivery	60 days	Fri 25/12/20	Mon 22/2/21	
420	Temporary Traffic Arrangement approval	300 days	Fri 4/12/20	Wed 29/9/21	
421	ELS BD approval & consent	90 days	Fri 18/12/20	Wed 17/3/21	
422	Demolition of existing carriageway	30 days	Thu 11/11/21	Fri 10/12/21	
423	Removal of aboveground services	21 days	Thu 30/9/21	Wed 20/10/21	
424	Utilities scanning and expose existing UU	21 days	Thu 21/10/21	Wed 10/11/21	
425	Arrange of diversion existing UG utilities	30 days	Sat 11/12/21	Sun 9/1/22	
426	Excavation and construction of new Flood wall	65 days	Mon 10/1/22	Tue 15/3/22	
427	Realignment / install new UG utilities	30 days	Wed 16/3/22	Thu 14/4/22	
428	Backfill and construct new carriageway	300 days	Fri 15/4/22	Wed 8/2/23	
429	Mis. Work for completion	6 days	Thu 9/2/23	Tue 14/2/23	
430	<b>Section G (viii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20B</b>	<b>729.5 days</b>	<b>Fri 1/10/21</b>	<b>Sat 30/9/23</b>	
431	Area Possession & Clearance	45 days	Fri 1/10/21	Sun 14/11/21	
432	Subletting / Fabrication / Delivery	90 days	Fri 22/10/21	Wed 19/1/22	
433	Temporary Traffic Arrangement approval	14 days	Fri 1/10/21	Thu 14/10/21	
434	ELS BD approval & consent	90 days	Fri 15/10/21	Wed 12/1/22	
435	Demolition of existing carriageway	630 days	Fri 1/10/21	Thu 22/6/23	
436	Removal of aboveground services	21 days	Tue 20/6/23	Tue 11/7/23	
437	Utilities scanning and expose existing UU	21 days	Wed 5/7/23	Wed 26/7/23	
438	Arrange of diversion existing UG utilities	30 days	Sun 23/7/23	Tue 22/8/23	
439	Install Sheetpiles	55 days	Thu 10/2/22	Tue 5/4/22	
440	BA14 for sheetpile and BD consent for ELS	28 days	Wed 6/4/22	Tue 3/5/22	
441	Excavation and construction of new Flood wall	30 days	Wed 26/7/23	Fri 28/8/23	
442	Realignment / install new UG utilities	15 days	Fri 25/8/23	Sat 9/9/23	
443	Backfill and construct new carriageway	21 days	Thu 7/9/23	Thu 28/9/23	
444	Mis. Work for completion	9 days	Thu 21/9/23	Sat 30/9/23	
445	<b>Section G (ix) - Bund wall modification works at South Seafront Road at Area F21</b>	<b>316 days</b>	<b>Fri 4/12/20</b>	<b>Fri 15/10/21</b>	
446	Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	
447	Subletting / Fabrication / Delivery	90 days	Fri 25/12/20	Wed 24/3/21	
448	Temporary Traffic Arrangement approval	165 days	Fri 4/12/20	Mon 17/5/21	
449	ELS BD approval & consent	0 days	Thu 17/12/20	Thu 17/12/20	
450	Demolition of existing carriageway	14 days	Tue 18/5/21	Mon 31/5/21	
451	Removal of aboveground services	14 days	Tue 1/6/21	Mon 14/6/21	
452	Utilities scanning and expose existing UU	21 days	Tue 15/6/21	Mon 5/7/21	
453	Arrange of diversion existing UG utilities (include FS pipe under 17/8002)	40 days	Tue 6/7/21	Sat 14/8/21	
454	Excavation and expose existing bund wall & demolish	18 days	Wed 28/7/21	Sat 14/8/21	
455	Construction new bund wall for road junction	21 days	Sat 4/9/21	Fri 24/9/21	
456	Realignment / install new UG utilities (include FS pipe under 17/8002)	60 days	Sun 1/8/21	Wed 29/9/21	
457	Backfill and construct new carriageway	16 days	Thu 30/9/21	Fri 15/10/21	
458	Mis. Work for completion	5 days	Mon 11/10/21	Fri 15/10/21	
459	<b>Section G (x) - DAX Cable Diversion Works (from Part I to Part IV)</b>	<b>955 days</b>	<b>Fri 4/12/20</b>	<b>Sun 16/7/23</b>	
460	Temporary Traffic Arrangement approval	14 days	Fri 4/12/20	Thu 17/12/20	
461	Subletting / Fabrication / Delivery	90 days	Fri 25/12/20	Wed 24/3/21	
462	Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	
463	Identification of existing cable trench	7 days	Mon 18/1/21	Sun 24/1/21	
464	Part 1 Re-excavation works incl construction of joint bay (at Water Reservoir Road)	246 days	Mon 25/1/21	Mon 27/9/21	
465	Part 1 Re-excavation works incl construction of joint bay (other than Reservoir road base on revised routing)	310 days	Mon 25/1/21	Tue 30/11/21	
466	Part 2 Re-excavation works incl. joint bay	120 days	Mon 1/11/21	Mon 28/2/22	
467	Part 3 Re-excavation works incl. joint bay	500 days	Mon 1/11/21	Wed 15/3/23	

MASTER PROGRAMME  
Rev 1-B23 Aug 2021




Task  Split  Milestone  Summary 

**Contract No. 19/83002 Lamma Power Station Extension Civil and Building Works for Unit L12 Master Programme**

ID	Task Name	Duration	Start	Finish	Jun	Jul	Aug	Sep
468	Part 4 Re-excavation works incl. joint bay & new oil tank pits	92 days	Sat 11/0/22	Sat 31/12/22				
469	Backfill & Reinstatement Part 1	61 days	Mon 1/11/21	Fri 31/12/21				
470	Backfill & Reinstatement Part 2	61 days	Sun 1/5/22	Thu 30/6/22				
471	Backfill & Reinstatement Part 3	61 days	Wed 17/5/23	Sun 16/7/23				
472	<b>Section H - All remaining works shall be completed for reporting completion to BD and ready for OP inspection (PS1.4.4)</b>	<b>736.15 days</b>	<b>Wed 17/11/21</b>	<b>Thu 23/11/23</b>				
473	<b>Deferred works (MSB &amp; HRSG) Listed in PS 1.4.4</b>	<b>539 days</b>	<b>Wed 17/11/21</b>	<b>Tue 9/5/23</b>				
474	Construction of L12 HRSG roof between GL12-G to 12-H and 12-2 to 12-6 after the overhead crane installation by the Employer's Specialist Contractors	38 days	Wed 17/11/21	Tue 4/1/22				
475	Construction of walls of L12 MSB below 1/F along GL 12-6 from GL12-B to 12-C and the associated staircases including the enclosure walls between G/F and 1/F. The Contractor shall allow access for the Employer's Specialist Contractors to use the hoisting we	92 days	Mon 16/5/22	Mon 15/8/22				
476	Provision in associated with hoisting well	21 days	Mon 6/6/22	Sun 26/6/22				
477	Construction of internal partition wall at 1/F of L12 MSB along GL 12-C from GL 12-2 to 12-3 AND North Façade at 1/F of L12 MSB along GL 12-1 from GL 12-B to 12-C	30 days	Wed 1/3/23	Thu 30/3/23				
478	Construction of metal fence and the associated Fire Services (F.S.) installations and installation of removable shelter at Transformer Area	120 days	Tue 10/1/23	Tue 9/5/23				
479	<b>Deferred works (DAX1 and DAX2 ) Listed in PS 1.4.4</b>	<b>151 days</b>	<b>Sun 1/1/23</b>	<b>Wed 31/5/23</b>				
480	Backfilling of whole DAX1 compartment inside existing joint bay "STJ12" and the new oil tank pit A located aside existing joint bay "STJ12".	59 days	Wed 1/2/23	Fri 31/3/23				
481	Re-excavation of whole DAX2 compartment inside existing joint bay "STJ12".	61 days	Sun 1/11/23	Thu 2/3/23				
482	Backfilling of whole DAX2 compartment inside existing joint bay "STJ12" and the new oil tank pit B located aside existing joint bay "STJ12".	61 days	Sat 1/4/23	Wed 31/5/23				
483	<b>Deferred works (External Work) Listed in PS 1.4.4</b>	<b>357.15 days</b>	<b>Thu 1/12/22</b>	<b>Thu 23/11/23</b>				
484	Final reinstatement of access roads and pavement surrounding and within L12 MSB and L12 HRSG area	320 days	Thu 1/12/22	Mon 16/10/23				
485	Installation of trench cover and road reinstatement of gas pipe and cable trenches within Area F5, F14, F16, F17 and F18.	30 days	Sun 1/1/23	Thu 28/9/23				
486	Backfilling and road reinstatement of 275kV cable trenches	60 days	Sun 1/1/23	Thu 23/11/23				
487	All Remaining work ready for OP inspection	0 days	Sat 1/7/23	Sat 1/7/23				
488	<b>STATUTORY SUBMISSION, INSPECTION &amp; APPROVAL</b>	<b>560 days</b>	<b>Tue 16/11/21</b>	<b>Mon 29/5/23</b>				
489	<b>WSD Statutory Submission, Inspection and Approval WWO Part I to III Submission / Approval</b>	<b>256 days</b>	<b>Tue 16/11/21</b>	<b>Fri 29/7/22</b>				
490	WSD: Submit to WSD Form WWO 046 Part I to II - FOR ACB Building (for Ext Works at later stage)	0 days	Tue 16/11/21	Tue 16/11/21				
491	WSD: Vetting Form WWO 046 Part I and II Submission	90 days	Wed 17/11/21	Mon 14/2/22				
492	WSD: Issued of Form WWO 046 Part III by WSD - FOR ACB Building	0 days	Tue 15/2/22	Tue 15/2/22				
493	WSD: Prepare for 1st Amendment for Plumbing Plan	60 days	Tue 15/2/22	Fri 15/4/22				
494	WSD: Submit to WSD 1st Amendment for Plumbing Plan	0 days	Fri 15/4/22	Fri 15/4/22				
495	WSD: Vetting of Plumbing Plan by WSD	60 days	Sat 16/4/22	Tue 14/6/22				
496	WSD: 1st Approval for Plumbing Plan by WSD	0 days	Tue 14/6/22	Tue 14/6/22				
497	WSD: Prepare and Submit for Final Amendment for Plumbing Plan	45 days	Wed 15/6/22	Fri 29/7/22				
498	WSD: Vetting and Final Approval for Plumbing Plan by WSD	0 days	Fri 29/7/22	Fri 29/7/22				
499	<b>WSD Statutory Submission, Inspection and Approval WWO Part IV to V Fire Services Water Submission / Approval</b>	<b>33 days</b>	<b>Fri 29/7/22</b>	<b>Wed 31/8/22</b>				
500	WSD: Form WWO 046 Part IV Submission (FS)	0 days	Fri 3/3/23	Fri 3/3/23				
501	WSD: WSD Received Form WWO046 Part IV and arrange for inspection (FS)	7 days	Fri 3/3/23	Thu 9/3/23				
502	WSD: WSD Inspection (FS)	7 days	Fri 10/3/23	Thu 16/3/23				
503	WSD: WWO 046 Part V Endorsement by WSD (FS)	12 days	Fri 17/3/23	Tue 28/3/23				
504	WSD: WSD Processing Water Supply Connection Certificate (FS)	7 days	Wed 29/3/23	Tue 4/4/23				
505	WSD: Issue by WSD Water Supply Connection Certificate (FS)	0 days?	Tue 4/4/23	Tue 4/4/23				
506	<b>WSD Statutory Submission, Inspection and Approval WWO Part IV to V Potable / Flush Water Submission / Approval</b>	<b>60 days</b>	<b>Fri 3/3/23</b>	<b>Mon 1/5/23</b>				
507	WSD: Form WWO 046 Part IV Submission (Fresh/Flush)	0 days	Fri 3/3/23	Fri 3/3/23				
508	WSD: WSD Acknowledge Form WWO 046	6 days	Fri 3/3/23	Wed 8/3/23				
509	WSD: WSD Inspection with Testing to lead (Fresh/Fluhs)	12 days	Thu 9/3/23	Mon 20/3/23				
510	WSD: Cleansing/Disinfecting Water Tanks / Piping System (Fresh/Flush)	6 days	Tue 21/3/23	Sun 26/3/23				
511	WSD: Collection of Sample for Testing at Accredited Lab (Fresh/Flush)	12 days	Mon 27/3/23	Fri 7/4/23				
512	WSD: Accredited Lab Testing Report of Sample to WSD	12 days	Sat 8/4/23	Wed 19/4/23				
513	WSD: Vetting of Test Report by WSD	6 days	Thu 20/4/23	Tue 25/4/23				
514	WSD: Issue of WWO 046 Part V (Fresh/Flush)	0 days	Tue 25/4/23	Tue 25/4/23				
515	WSD: WSD Processing WWO1005 Water Certification (Fresh/Flush)	6 days	Wed 26/4/23	Mon 1/5/23				
516	WSD: Issue by WSD WWO 1005 Water Certification (Fresh/Flush)	0 days	Mon 1/5/23	Mon 1/5/23				
517	<b>EMSD LIFT Statutory Submission, Inspection and Approval</b>	<b>45 days</b>	<b>Wed 15/2/23</b>	<b>Fri 31/3/23</b>				
518	EMSD: Submission of Lift Form LE5 to EMSD	12 days	Wed 15/2/23	Sun 26/2/23				
519	EMSD: EMSD Makes arrangement for Lift Installation	5 days	Mon 27/2/23	Fri 3/3/23				
520	EMSD: EMSD Inspection to Lift Installation	14 days	Sat 4/3/23	Fri 17/3/23				
521	EMSD: Processing Lift Certificate (Form LE6)	14 days	Sat 18/3/23	Fri 31/3/23				
522	EMSD: Lift Issuance of Form 6 (Lift Certificate)	0 days	Fri 31/3/23	Fri 31/3/23				
523	<b>HKE Transformer Final Inspection</b>	<b>120 days</b>	<b>Sat 30/7/22</b>	<b>Sat 26/11/22</b>				
524	TX Room: Invite HKE For Transformer Room Inspection	7 days	Sat 30/7/22	Fri 5/8/22				
525	TX Room: Give Access to Transformer Room for HKE Contractor	0 days	Fri 5/8/22	Fri 5/8/22				
526	TX Room: Move in HKE Transformer Equipments	5 days	Sat 6/8/22	Wed 10/8/22				
527	TX Room: Install HKE Transformer, MEP Works & Testing	90 days	Thu 11/8/22	Tue 8/1/23				
528	TX Room: HKE Power Energization / Inspection	6 days	Wed 9/11/22	Mon 14/11/22				
529	TX Room: Metering Installation	12 days	Tue 15/11/22	Sat 26/11/22				
530	TX Room: HKE Power-ON Date	0 days	Sat 26/11/22	Sat 26/11/22				
531	<b>DSD Drainage Completion Memo</b>	<b>65 days</b>	<b>Fri 30/6/23</b>	<b>Sat 2/9/23</b>				
532	DSD: CCTV Survey Report on Completed Drainage	30 days	Fri 30/6/23	Sat 29/7/23				
533	DSD: Submitted CCTV Report & Form HPB1 of Completed Drainage to DSD For Technical Audit	7 days	Sun 30/7/23	Sat 5/8/23				
534	DSD: Completed Drainage System including TMC Inspection/Technical Audit by DSD	14 days	Sun 6/8/23	Sat 19/8/23				
535	DSD: Preparation of Drainage Connection Completion Memo by DSD	14 days	Sun 20/8/23	Sat 2/9/23				
536	DSD: Issue of Drainage Connection Completion Memo by DSD	0 days	Sat 2/9/23	Sat 2/9/23				
537	<b>EPD Submission, Inspection and Approval</b>	<b>60 days</b>	<b>Wed 5/7/23</b>	<b>Sun 3/9/23</b>				
538	EPD: License Application to EPD under APCO (Cap 311) for Generator Sets	0 days	Wed 5/7/23	Wed 5/7/23				
539	EPD: Vetting of Application by EPD under APCO (Cap 311) for Generator Sets	60 days	Thu 6/7/23	Sun 3/9/23				
540	EPD: Approval from EPD under APCO (Cap 311) for Generator Sets Installation	0 days	Sun 3/9/23	Sun 3/9/23				
541	<b>FSD VAC Statutory Submission, Inspection and Approval</b>	<b>150 days</b>	<b>Wed 20/7/22</b>	<b>Fri 16/12/22</b>				
542	Preparation of FSD VAC Drawings and Submission to HEC	60 days	Wed 20/7/22	Sat 17/9/22				
543	HEC: Review and Approval	30 days	Sun 18/9/22	Mon 17/10/22				
544	Preparation of VAC Drawings and Submission to FSD	30 days	Tue 18/10/22	Wed 16/11/22				
545	FSD: Review and Approval	30 days	Thu 17/11/22	Fri 16/12/22				
546	<b>FSD Statutory Submission, Inspection and Approval</b>	<b>91 days</b>	<b>Sun 15/1/23</b>	<b>Sat 15/4/23</b>				
547	Testing and Commissioning (Individual System - FSI Related)	45 days	Sun 15/1/23	Tue 28/2/23				
548	FSD: All Sections FS Ingration Test by NSC_BS	15 days	Wed 1/3/23	Wed 15/3/23				
549	FSD: Completion of FS Integration Test by NSC_BS for FS14/501	0 days	Wed 15/3/23	Wed 15/3/23				
550	FSD: Submit Form 213/314 & Form 501 Request for Inspection	0 days	Wed 15/3/23	Wed 15/3/23				
551	FSD: FSD Makes Arrangement for Inspection	7 days	Thu 16/3/23	Wed 22/3/23				
552	FSD: FSD Inspection	12 days	Thu 23/3/23	Mon 3/4/23				
553	FSD: Completion of FS Inspection	0 days	Mon 3/4/23	Mon 3/4/23				
554	FSD: FSD Processing FS Certificate Form 172	12 days	Tue 4/4/23	Sat 15/4/23				
555	FSD: Issue of Fire Services FS Certificate Form 172	0 days	Sat 15/4/23	Sat 15/4/23				
556	<b>PRACTICAL COMPLETION</b>	<b>216 days</b>	<b>Sun 16/4/23</b>	<b>Fri 17/11/23</b>				
557	BD Inspection	97 days	Sun 16/4/23	Fri 21/7/23				
558	BD: Application Form BA13 for OP Application	21 days	Sun 16/4/23	Sat 6/5/23				
559	BD: BD Inspection Date	15 days	Sun 7/5/23	Sun 21/5/23				
560	BD: Reinspection date with defects and rectification works	60 days	Mon 22/5/23	Thu 20/7/23				

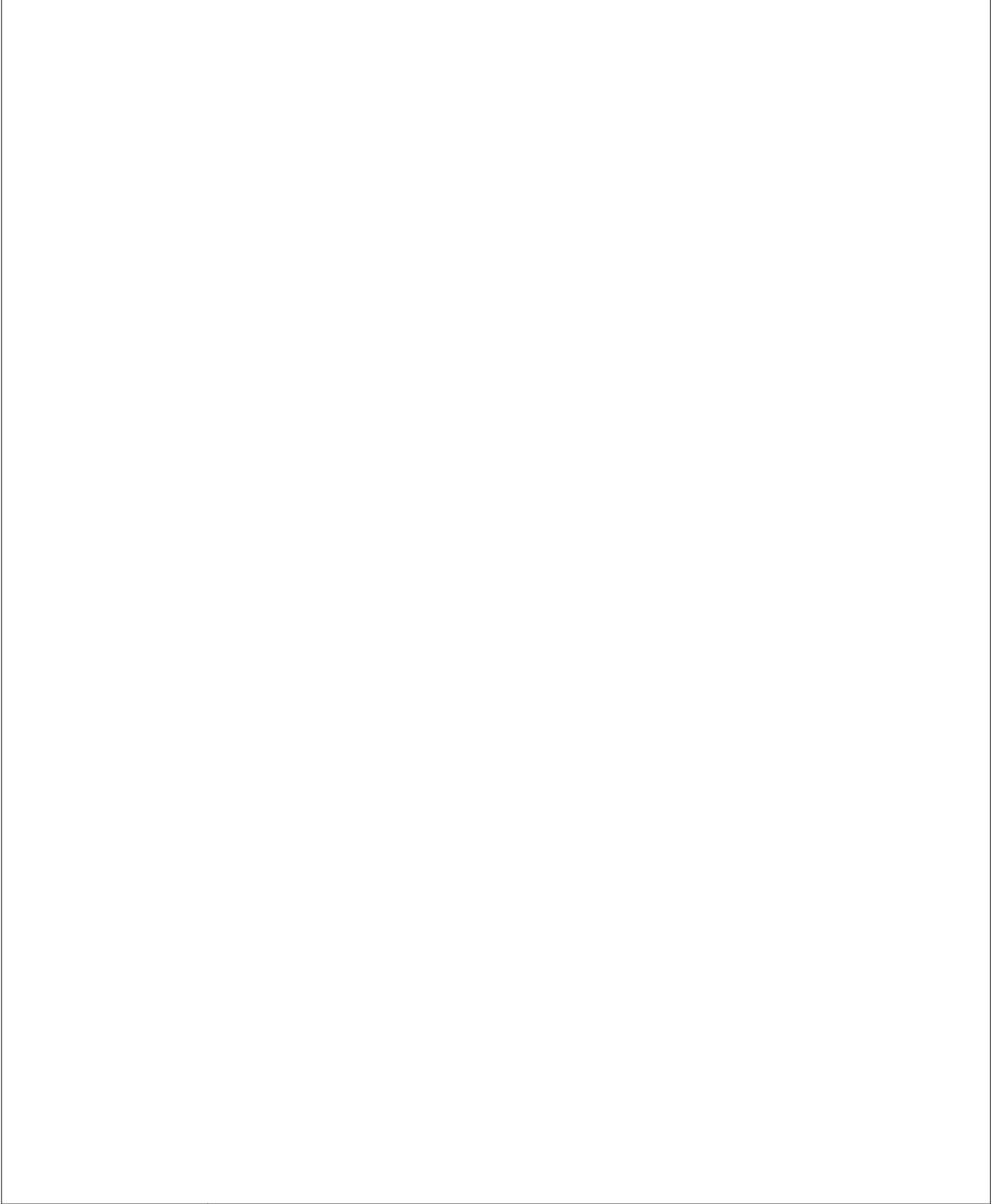
MASTER PROGRAMME  
Rev 1-B23 Aug 2021



Task  Split  Milestone  Summary 

**Contract No. 19/83002 Lamma Power Station Extension Civil and Building Works for Unit L12** **Master Programme**

ID	Task Name	Duration	Start	Finish	
561	<b>BD: Obtain Occupation Permit (OP) from BD</b>	<b>1 day</b>	<b>Fri 21/7/23</b>	<b>Fri 21/7/23</b>	
562	<b>As-Built Drawings &amp; Handover Documentation</b>	<b>120 days</b>	<b>Mon 1/5/23</b>	<b>Mon 28/8/23</b>	
563	Prepare and Submit As-Built Drawings & Handover Documentation	45 days	Mon 1/5/23	Wed 14/6/23	
564	Review and Approval	45 days	Thu 15/6/23	Sat 29/7/23	
565	As-Built Drawings & Handover Documentation - Revision by MC	30 days	Sun 30/7/23	Mon 28/8/23	
566	Revised As-Built Drawings & Handover Documentation - Final Submission	0 days	Mon 28/8/23	Mon 28/8/23	
567	<b>Completion of the Whole Contract Works</b>	<b>119 days</b>	<b>Sat 22/7/23</b>	<b>Fri 17/11/23</b>	
568	1st Client Inspection for Review and Comments	30 days	Sat 22/7/23	Sun 20/8/23	
569	Defects and Rectification works	60 days	Mon 21/8/23	Thu 19/10/23	
570	2nd Client Inspection	14 days	Fri 20/10/23	Thu 2/11/23	
571	Minor Defects Rectification Works and Final Inspection	15 days	Fri 3/11/23	Fri 17/11/23	
572	<b>PRACTICAL COMPLETION</b>	<b>0 days</b>	<b>Fri 17/11/23</b>	<b>Fri 17/11/23</b>	



ID	Task Name	Duration	Start	Finish	Predecessors	3rd Quarter		
						Jul	Aug	Sep
1	<b>19-83014 - Civil Works for No. 5 C.W. Intake and Cable Bridge at Lamma Power Station Extension</b>	<b>390 days</b>	<b>Fri 22/7/22</b>	<b>Tue 15/8/23</b>		[Gantt bar from Jul 22 to Aug 15]		
2	<b>No. 5 C.W. Intake</b>	<b>390 days</b>	<b>Fri 22/7/22</b>	<b>Tue 15/8/23</b>		[Gantt bar from Jul 22 to Aug 15]		
3	Delivery of Precast No. 5 Intake Chamber	3 days	Fri 22/7/22	Sun 24/7/22		[Gantt bar from Jul 22 to Jul 24]		
4	Installation of Precast No. 5 Intake Chamber	2 days	Mon 25/7/22	Tue 26/7/22 3		[Gantt bar from Jul 25 to Jul 26]		
5	Prepare formation level for reinstall culvert	18 days	Wed 27/7/22	Sat 13/8/22 4		[Gantt bar from Jul 27 to Aug 13]		
6	Reinstate of culvert	7 days	Mon 15/8/22	Sun 21/8/22		[Gantt bar from Aug 15 to Aug 21]		
7	Reinstate of seawall block	28 days	Mon 22/8/22	Sun 18/9/22 6		[Gantt bar from Aug 22 to Sep 18]		
8	Backfill at East Side	20 days	Mon 19/9/22	Sat 8/10/22 7		[Gantt bar from Sep 19 to Oct 8]		
9	Reinstate of seawall coping	30 days	Thu 3/11/22	Fri 2/12/22 8FS+25 days		[Gantt bar from Nov 3 to Dec 2]		
10	Temporary backfill for access at east of Intake Chamber	10 days	Sat 3/12/22	Mon 12/12/22 9		[Gantt bar from Dec 3 to Dec 12]		
11	Handover back from erection contractor at Intake Road	1 day	Mon 15/5/23	Mon 15/5/23		[Gantt bar at May 15, 2023]		
12	UU works and reinstatement of Intake Road	92 days	Tue 16/5/23	Tue 15/8/23 11		[Gantt bar from May 16 to Aug 15, 2023]		
13	<b>Steel Parapet along seawall</b>	<b>46 days</b>	<b>Tue 18/4/23</b>	<b>Fri 2/6/23</b>		[Gantt bar from Apr 18 to Jun 2, 2023]		
14	Delivery of steel parapet (Removed for Chamber installation portion)	1 day	Tue 18/4/23	Tue 18/4/23		[Gantt bar at Apr 18, 2023]		
15	Installation of steel parapet (Removed for chamber installation portion)	7 days	Mon 29/5/23	Sun 4/6/23 14FS+40 days		[Gantt bar from May 29 to Jun 4, 2023]		
16	Removal of existing steel parapet for replacement	7 days	Mon 5/6/23	Sun 11/6/23 15		[Gantt bar from Jun 5 to Jun 11, 2023]		
17	Installation of steel parapet (Replacement)	21 days	Mon 12/6/23	Sun 2/7/23 16		[Gantt bar from Jun 12 to Jul 2, 2023]		
18	<b>Steel Gantry Frame above Bar Screen Chamber</b>	<b>21 days</b>	<b>Tue 25/4/23</b>	<b>Mon 15/5/23</b>		[Gantt bar from Apr 25 to May 15, 2023]		
19	Delivery of steel members	1 day	Thu 15/6/23	Thu 15/6/23		[Gantt bar at Jun 15, 2023]		
20	Installation of gantry frame	14 days	Fri 16/6/23	Thu 29/6/23 19		[Gantt bar from Jun 16 to Jun 29, 2023]		
21	<b>Bollard &amp; Fender</b>	<b>151 days</b>	<b>Wed 1/3/23</b>	<b>Sat 29/7/23</b>		[Gantt bar from Mar 1 to Jul 29, 2023]		
22	Confirmation and order of bollard and fender	1 day	Wed 1/3/23	Wed 1/3/23		[Gantt bar at Mar 1, 2023]		
23	Fabrication and delivery of bollard & fender	100 days	Thu 2/3/23	Fri 9/6/23 22		[Gantt bar from Mar 2 to Jun 9, 2023]		
24	Installation of bollard (1 no.)	1 day	Sat 10/6/23	Sat 10/6/23 23		[Gantt bar at Jun 10, 2023]		
25	Rebar fixing & Concreting	2 days	Sun 11/6/23	Mon 12/6/23 24		[Gantt bar from Jun 11 to Jun 12, 2023]		
26	Removal of existing fender	15 days	Sat 10/6/23	Sat 24/6/23 23		[Gantt bar from Jun 10 to Jun 24, 2023]		
27	Installation of fender	35 days	Sun 25/6/23	Sat 29/7/23 26		[Gantt bar from Jun 25 to Jul 29, 2023]		
28	<b>In-situ Construction Work for Intake Chamber</b>	<b>339 days</b>	<b>Sat 20/8/22</b>	<b>Mon 24/7/23</b>		[Gantt bar from Aug 20 to Jul 24, 2023]		
29	<b>Backfilling Work between Pipepile and Intake Chamber External Wall</b>	<b>19 days</b>	<b>Sat 20/8/22</b>	<b>Wed 7/9/22</b>		[Gantt bar from Aug 20 to Sep 7, 2022]		
33	Backfilling at Discharge Valve Chamber	10 days	Fri 9/9/22	Sun 18/9/22		[Gantt bar from Sep 9 to Sep 18, 2022]		
34	Installation of Concrete Block inside/ on intake chamber/ culvert	25 days	Tue 23/8/22	Fri 16/9/22		[Gantt bar from Aug 23 to Sep 16, 2022]		
35	Removal of Internal Strut/ King Post	28 days	Sat 20/8/22	Fri 16/9/22		[Gantt bar from Aug 20 to Sep 16, 2022]		
36	Dewatering in Chamber Internal Side	3 days	Tue 20/9/22	Thu 22/9/22 30,31,33		[Gantt bar from Sep 20 to Sep 22, 2022]		
37	Corrosion Protection of Rebar	8 days	Fri 23/9/22	Fri 30/9/22		[Gantt bar from Sep 23 to Sep 30, 2022]		
38	<b>Construction of Intake Chamber External Wall to Level +5.70mPD</b>	<b>189 days</b>	<b>Sun 28/8/22</b>	<b>Sat 4/3/23</b>		[Gantt bar from Aug 28 to Mar 4, 2023]		
39	<b>Erection of Scaffolding Supporting Bracket</b>	<b>37 days</b>	<b>Sun 28/8/22</b>	<b>Mon 3/10/22</b>		[Gantt bar from Aug 28 to Sep 3, 2022]		
44	<b>Installation of Scaffolding</b>	<b>51 days</b>	<b>Sat 3/9/22</b>	<b>Sun 23/10/22</b>		[Gantt bar from Sep 3 to Oct 23, 2022]		
45	<b>Chamber Internal Side</b>	<b>51 days</b>	<b>Sat 3/9/22</b>	<b>Sun 23/10/22</b>		[Gantt bar from Sep 3 to Oct 23, 2022]		
50	<b>Chamber External Side</b>	<b>51 days</b>	<b>Sat 3/9/22</b>	<b>Sun 23/10/22</b>		[Gantt bar from Sep 3 to Oct 23, 2022]		
55	<b>Rebar Fixing &amp; Formwork</b>	<b>58 days</b>	<b>Thu 8/9/22</b>	<b>Fri 4/11/22</b>		[Gantt bar from Sep 8 to Nov 4, 2022]		
59	<b>Concreting</b>	<b>18 days</b>	<b>Thu 29/9/22</b>	<b>Sun 16/10/22</b>		[Gantt bar from Sep 29 to Oct 16, 2022]		
63	<b>Wall construction at Penstock Chamber</b>	<b>132 days</b>	<b>Mon 24/10/22</b>	<b>Sat 4/3/23</b>		[Gantt bar from Oct 24 to Mar 4, 2023]		
72	Excavation and installation of CW culvert pipes	45 days	Sat 15/10/22	Mon 28/11/22		[Gantt bar from Oct 15 to Nov 28, 2022]		
76	On grade slab & plinths construction at west of Intake Chamber	14 days	Tue 29/11/22	Mon 12/12/22 75		[Gantt bar from Nov 29 to Dec 12, 2022]		
77	<b>Construction of trash pit &amp; RC footings for hoist support</b>	<b>218 days</b>	<b>Wed 16/11/22</b>	<b>Wed 21/6/23</b>		[Gantt bar from Nov 16 to Jun 21, 2023]		
78	Backfill to bottom level of trash pit at south of Intake Chamber	7 days	Wed 16/11/22	Tue 22/11/22 61FS+10 days		[Gantt bar from Nov 16 to Nov 22, 2022]		
79	RC works for trash pit & hoist support footings	30 days	Mon 6/2/23	Tue 7/3/23 78,314FF		[Gantt bar from Feb 6 to Feb 7, 2023]		
80	Construction of sump pit (VO) & eastern portion of flood wall "I"	20 days	Wed 8/3/23	Mon 27/3/23 79		[Gantt bar from Mar 8 to Mar 27, 2023]		
81	Backfill to ground level at south of Intake Chamber	4 days	Tue 28/3/23	Fri 31/3/23 80		[Gantt bar from Mar 28 to Mar 31, 2023]		
82	Handover to TDK for installation of hoist	37 days	Sat 1/4/23	Sun 7/5/23 81		[Gantt bar from Apr 1 to Apr 7, 2023]		
83	On grade slab & plinths construction at south of Intake Chamber	45 days	Mon 8/5/23	Wed 21/6/23 82		[Gantt bar from May 8 to Jun 21, 2023]		
84	<b>North Chamber (L12)</b>	<b>91 days</b>	<b>Fri 23/9/22</b>	<b>Thu 22/12/22</b>		[Gantt bar from Sep 23 to Dec 22, 2022]		
149	<b>W20 (Seal up L12 Box-out openings at discharge valve chamber)</b>	<b>15 days</b>	<b>Wed 15/3/23</b>	<b>Wed 29/3/23</b>		[Gantt bar from Mar 15 to Mar 29, 2023]		

Project: 19-83014 - No. 5 Intake and Cable Br  
 Date: 28 May 2023  
 Rev. 10 - Programme for No. 5 C.W. Intake

Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Progress	
Split		External Tasks		Inactive Summary		Manual Summary		Deadline	
Milestone		External Milestone		Manual Task		Start-only			
Summary		Inactive Task		Duration-only		Finish-only			



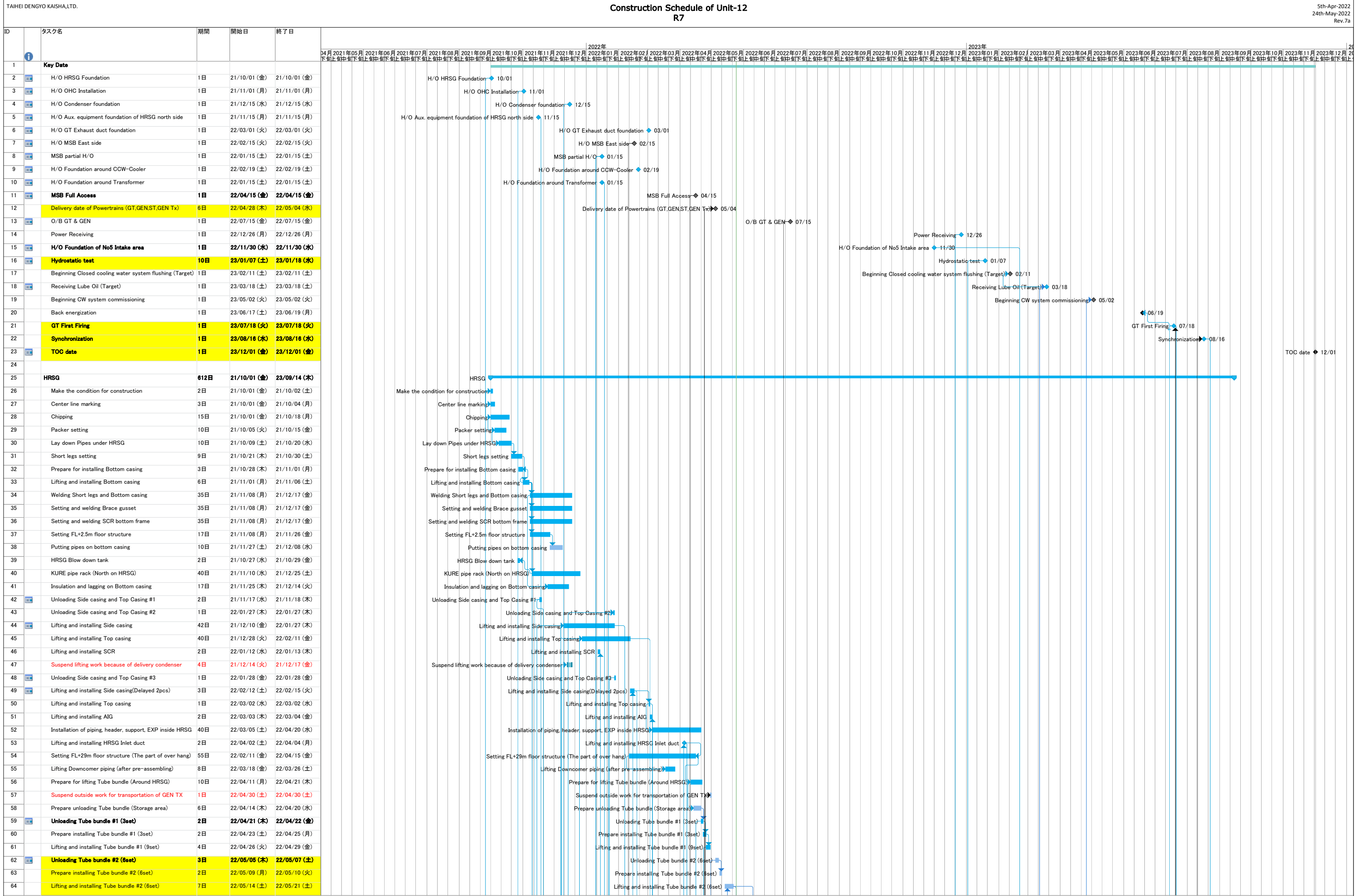
ID	Task Name	Duration	Start	Finish	Predecessors	3rd Quarter		
						Jul	Aug	Sep
150	Handover to Paul Y for Sealing up work	1 day	Wed 15/3/23	Wed 15/3/23				
151	Rebar fixing, Formwork, Concreteing and Removal of Formwork	14 days	Thu 16/3/23	Wed 29/3/23	150			
152	<b>L12 Penstock Chamber</b>	<b>18 days</b>	<b>Mon 10/4/23</b>	<b>Thu 27/4/23</b>				
153	Handover to Paul Y for additional RC curb	1 day	Mon 10/4/23	Mon 10/4/23				
154	Drilled in rebar	7 days	Tue 11/4/23	Mon 17/4/23	153			
155	Formwork	2 days	Tue 18/4/23	Wed 19/4/23	154			
156	Concreting	1 day	Thu 20/4/23	Thu 20/4/23	155			
157	Installation of GRP catladder	2 days	Wed 26/4/23	Thu 27/4/23				
158	<b>L12 Bar Screen Chamber</b>	<b>95 days</b>	<b>Fri 24/2/23</b>	<b>Mon 29/5/23</b>				
159	Drilled in anchor bolt at concrete recess of bar screen chamber	7 days	Fri 24/2/23	Thu 2/3/23				
160	Installation of Bar Screen Guide Channel (Bottom & Based Portion)	7 days	Fri 3/3/23	Thu 9/3/23	159			
161	Installation of Bar Screen Guide Channel (Remaining Portion)	7 days	Fri 10/3/23	Thu 16/3/23	160			
162	Grouting	18 days	Fri 17/3/23	Mon 3/4/23	161			
163	Removal of formwork & temporary struct	3 days	Tue 4/4/23	Thu 6/4/23	162			
164	Modification works of bar screen walls	15 days	Fri 7/4/23	Fri 21/4/23	163			
165	Removal of scaffold and installation of GRP catladder	3 days	Sat 22/4/23	Mon 24/4/23	164			
166	Delivery of Rubber gasket for replacement	1 day	Thu 27/4/23	Thu 27/4/23				
167	Replacement of damaged Rubber gasket for CW4 Penstock	2 days	Fri 28/4/23	Sat 29/4/23	166			
168	Installation of temporary water gate (Use existing water gate from Intake 4)	1 day	Sun 30/4/23	Sun 30/4/23	165,167			
169	Removal of temporary water gate	1 day	Mon 29/5/23	Mon 29/5/23				
170	<b>L12 2nd Bar Screen Chamber and culvert</b>	<b>65 days</b>	<b>Mon 27/3/23</b>	<b>Tue 30/5/23</b>				
171	Drilled in anchor bolt at concrete recess of bar screen chamber	6 days	Mon 27/3/23	Sat 1/4/23				
172	Form Access Panel and pump out remaining water inside culvert	4 days	Mon 3/4/23	Thu 6/4/23				
173	Obsesrvation for any leakage from steel gate at culvert inlet	4 days	Fri 7/4/23	Mon 10/4/23	172			
174	Installation of Bar Screen Guide Channel (Bottom & Based Portion) & temporary struct for temporary water gate	12 days	Tue 11/4/23	Sat 22/4/23	173			
175	Installation of Bar Screen Guide Channel (Remaining Portion)	7 days	Tue 18/4/23	Mon 24/4/23	174FF+2 days			
176	Grouting	6 days	Sun 23/4/23	Fri 28/4/23	174			
177	Installation of Dosing Pipe for vertical portion	2 days	Tue 25/4/23	Wed 26/4/23	175			
178	Removal of formwork & temporary struct (by Paul Y.), installation of conduit (by other) and removal of scaffolding	3 days	Sat 29/4/23	Mon 1/5/23	176,177			
179	Installation of GRP catladder	1 day	Tue 2/5/23	Tue 2/5/23	178			
180	Water filling of chamber	1 day	Wed 3/5/23	Wed 3/5/23	168,179			
181	Removal of Steel Gate (Friendly Benefit)	9 days	Thu 4/5/23	Fri 12/5/23	180			
182	Removal of Steel Gate at Culvert Inlet L12 (WOD)	4 days	Thu 27/4/23	Sun 30/4/23	177			
183	Installation of Dosing Pipe for culvert portion	6 days	Mon 1/5/23	Sat 6/5/23	182			
184	Connection of Dosing Pipe for culvert & vertical portion	2 days	Sat 13/5/23	Sun 14/5/23	181,183			
185	Testing & Commissioning	1 day	Tue 30/5/23	Tue 30/5/23	169,184			
186	<b>Centre Chamber (Spare)</b>	<b>124 days</b>	<b>Tue 25/10/22</b>	<b>Sat 25/2/23</b>				
238	<b>W20 (Seal up spare Box-out openings at discharge valve chamber)</b>	<b>15 days</b>	<b>Sat 15/4/23</b>	<b>Sat 29/4/23</b>				
239	Handover to Paul Y for Sealing up work	1 day	Sat 15/4/23	Sat 15/4/23				
240	Rebar fixing, Formwork, Concreteing and Removal of Formwork	18 days	Sun 16/4/23	Wed 3/5/23	239			
241	<b>Spare Penstock Chamber</b>	<b>11 days</b>	<b>Wed 31/5/23</b>	<b>Sat 10/6/23</b>				
242	Drilled in rebar	7 days	Wed 31/5/23	Tue 6/6/23	156FS+40 days			
243	Handover to TDK for installation of Cast-in embedment	1 day	Wed 7/6/23	Wed 7/6/23	242			
244	Formwork	2 days	Thu 8/6/23	Fri 9/6/23	243			
245	Concreting	1 day	Sat 10/6/23	Sat 10/6/23	244			
246	<b>Spare Bar Screen Chamber</b>	<b>65 days</b>	<b>Sun 2/4/23</b>	<b>Mon 5/6/23</b>				
247	Drilled in anchor bolt at concrete recess of bar screen chamber	7 days	Sun 2/4/23	Sat 8/4/23	171			
248	Installation of Bar Screen Guide Channel (Bottom & Based Portion)	14 days	Tue 2/5/23	Mon 15/5/23	178,247			
249	Installation of Bar Screen Guide Channel (Remaining Portion)	7 days	Tue 16/5/23	Mon 22/5/23	248			
250	Grouting	7 days	Tue 23/5/23	Mon 29/5/23	249			
251	Removal of formwork & temporary struct (by Paul Y.) and installation of conduit (by other)	3 days	Tue 30/5/23	Thu 1/6/23	250			
252	Modification works of bar screen walls	14 days	Tue 23/5/23	Mon 5/6/23	249			

Project: 19-83014 - No. 5 Intake and Cable Br  
 Date: 28 May 2023  
 Rev. 10 - Programme for No. 5 C.W. Intake

Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Progress	
Split		External Tasks		Inactive Summary		Manual Summary		Deadline	
Milestone		External Milestone		Manual Task		Start-only			
Summary		Inactive Task		Duration-only		Finish-only			

ID	Task Name	Duration	Start	Finish	Predecessors	3rd Quarter		
						Jul	Aug	Sep
253	Removal of scaffold and installation of GRP catladder	3 days	Tue 6/6/23	Thu 8/6/23	252			
254	Installation of temporary water gate (Use existing water gate from Intake 4)	1 day	Fri 9/6/23	Fri 9/6/23	169,253			
255	Removal of temporary water gate	1 day	Mon 24/7/23	Mon 24/7/23	256			
256	<b>Spare 2nd Bar Screen Chamber and culvert</b>	106 days	Sun 9/4/23	Sun 23/7/23				
257	Drilled in anchor bolt at concrete recess of bar screen chamber	6 days	Sun 9/4/23	Fri 14/4/23	247			
258	Installation of Bar Screen Guide Channel (Bottom & Based Portion) & temporary struct for temporary water gate	14 days	Fri 2/6/23	Thu 15/6/23	251			
259	Installation of Bar Screen Guide Channel (Remaining Portion)	7 days	Fri 16/6/23	Thu 22/6/23	258			
260	Grouting	7 days	Fri 23/6/23	Thu 29/6/23	259			
261	Removal of formwork & temporary struct (by Paul Y.), installation of conduit (by other) and removal of scaffolding	3 days	Fri 30/6/23	Sun 2/7/23	260			
262	Water filling of chamber	1 day	Mon 3/7/23	Mon 3/7/23	254,261			
263	Removal of Steel Gate (Friendly Benefit)	9 days	Tue 4/7/23	Wed 12/7/23	262			
264	Installation of Dosing Pipe	9 days	Thu 13/7/23	Fri 21/7/23	263			
265	Testing & Commissioning	2 days	Sat 22/7/23	Sun 23/7/23	264			
266	Removal of Steel Gate at Culvert Inlet L12 (WOD)	2 days	Mon 15/5/23	Tue 16/5/23	184			
267	Installation of GRP catladder	2 days	Sat 22/7/23	Sun 23/7/23	264			
268	<b>South Chamber (L13)</b>	130 days	Wed 23/11/22	Sat 1/4/23				
320	<b>L13 Penstock Chamber</b>	11 days	Sun 11/6/23	Wed 21/6/23				
321	Drilled in rebar	7 days	Sun 11/6/23	Sat 17/6/23	245			
322	Handover to TDK for installation of Cast-in embedment	1 day	Sun 18/6/23	Sun 18/6/23	321			
323	Formwork	2 days	Mon 19/6/23	Tue 20/6/23	322			
324	Concreting	1 day	Wed 21/6/23	Wed 21/6/23	323			

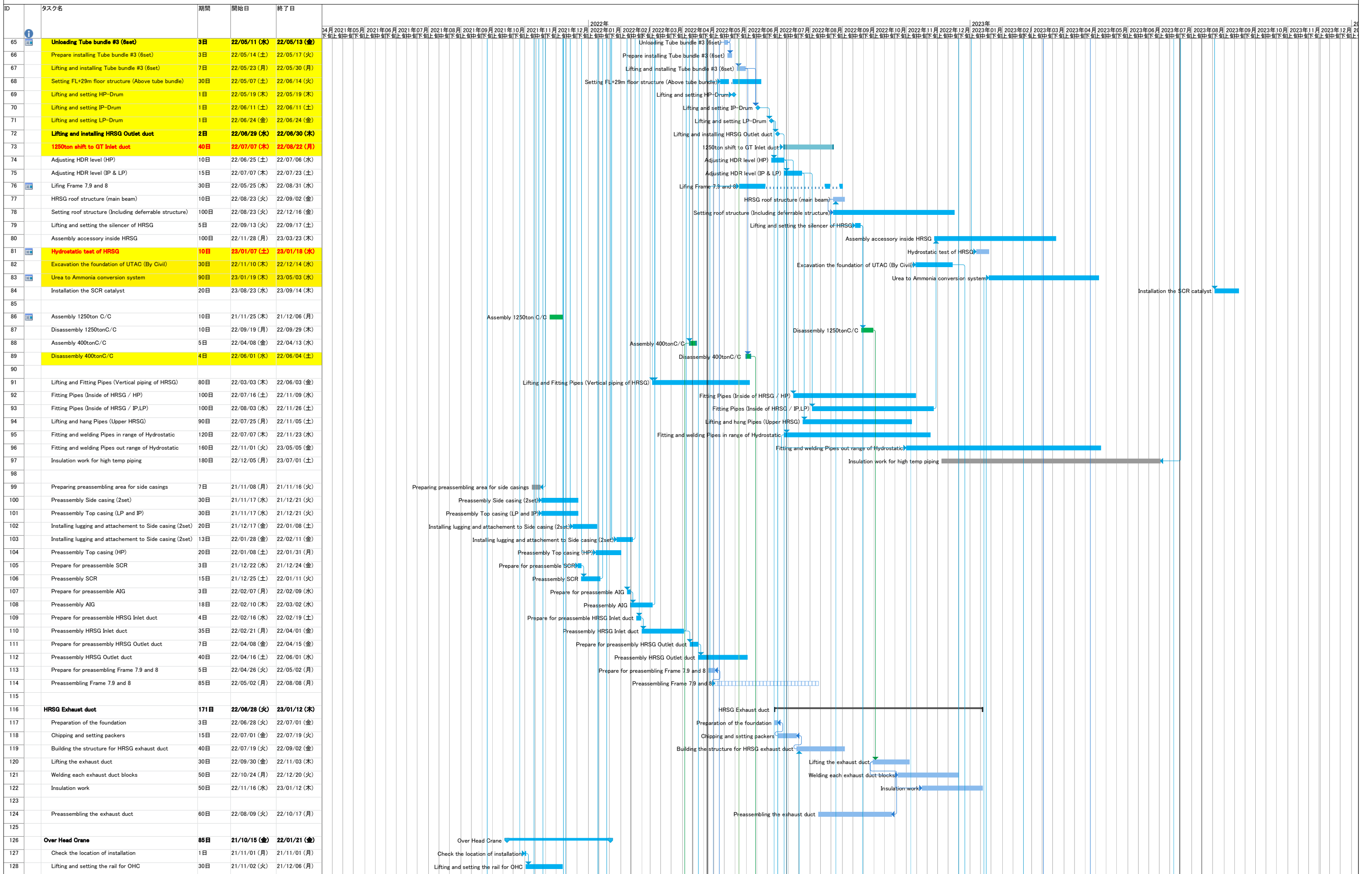
Project: 19-83014 - No. 5 Intake and Cable Br Date: 28 May 2023 Rev. 10 - Programme for No. 5 C.W. Intake	Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Progress	
	Split		External Tasks		Inactive Summary		Manual Summary		Deadline	
	Milestone		External Milestone		Manual Task		Start-only			
	Summary		Inactive Task		Duration-only		Finish-only			



This schedule was based on belows;  
 i) This schedule was revised with based on the email M80020 and M80036.  
 ii) Delivery schedule of the powertrain and the tube bundles are followed to the information by 5th-April.

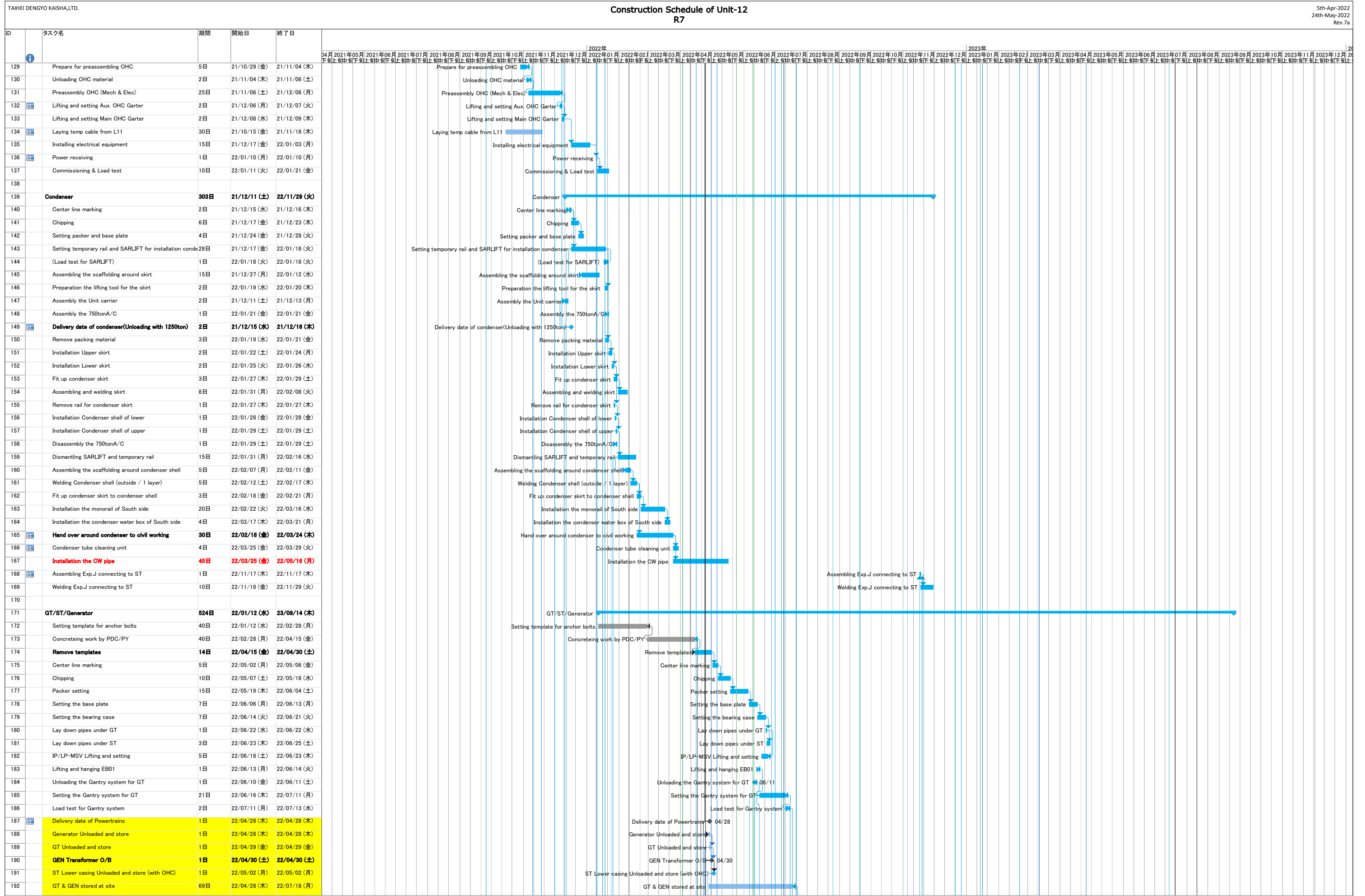
iii) Corrected by the comment of HKE on 11th-May-2022

Construction Schedule of Unit-12  
R7



This schedule was based on belows;  
 i) This schedule was revised with based on the email M80020 and M80036.  
 ii) Delivery schedule of the powertrain and the tube bundles are followed to the information by 5th-April.

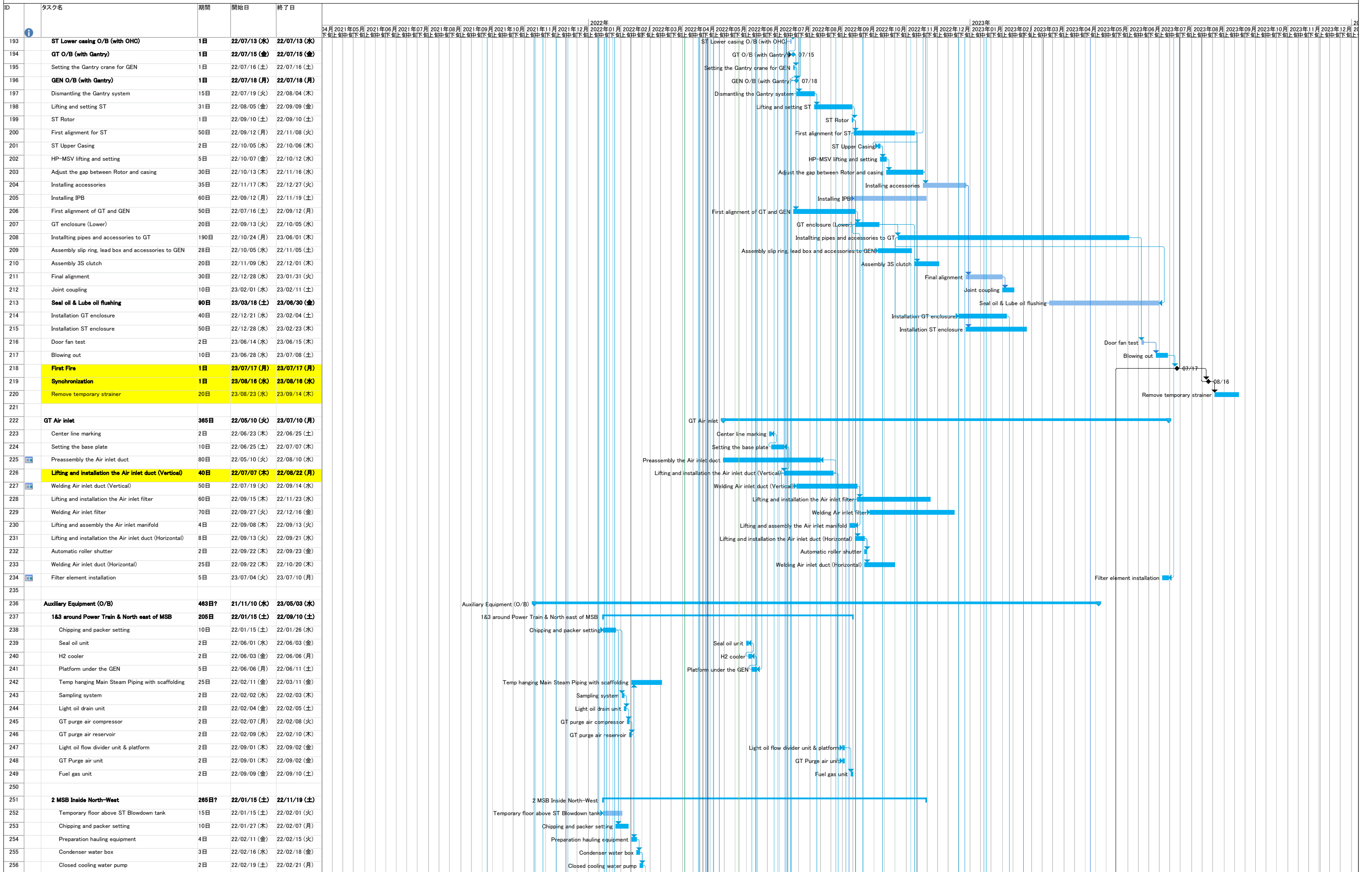
iii) Corrected by the comment of HKE on 11th-May-2022



This schedule was based on belows;  
 i) This schedule was revised with based on the email M80020 and M80036.  
 ii) Delivery schedule of the powertrain and the tube bundles are followed to the information by 5th-April.

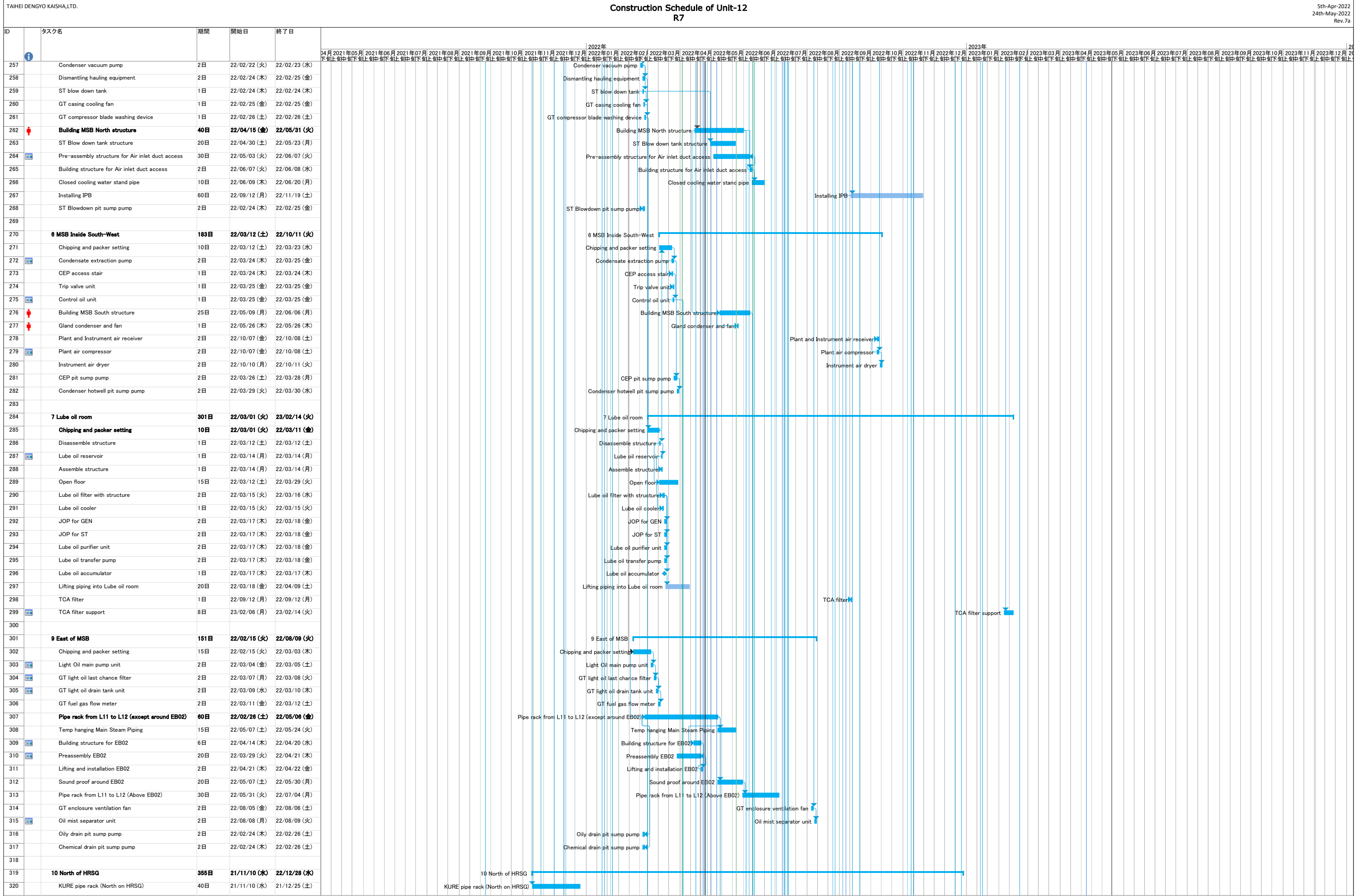
iii) Corrected by the comment of HKE on 11th-May-2022

Construction Schedule of Unit-12  
R7



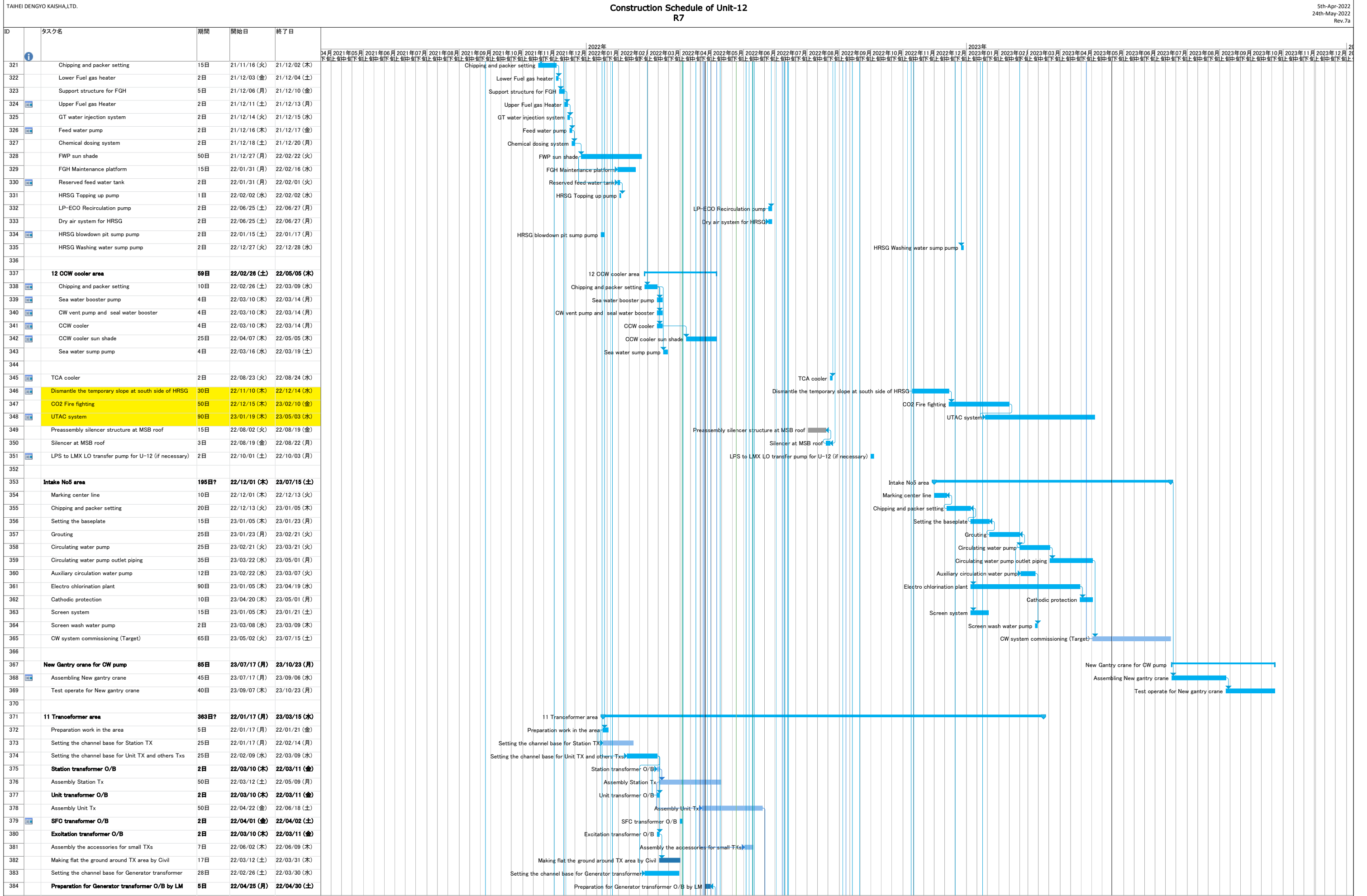
This schedule was based on belows;  
i) This schedule was revised with based on the email M80020 and M80036.  
ii) Delivery schedule of the powertrain and the tube bundles are followed to the information by 5th-April.

iii) Corrected by the comment of HKE on 11th-May-2022



This schedule was based on belows;  
 i) This schedule was revised with based on the email M80020 and M80036.  
 ii) Delivery schedule of the powertrain and the tube bundles are followed to the information by 5th-April.

iii) Corrected by the comment of HKE on 11th-May-2022

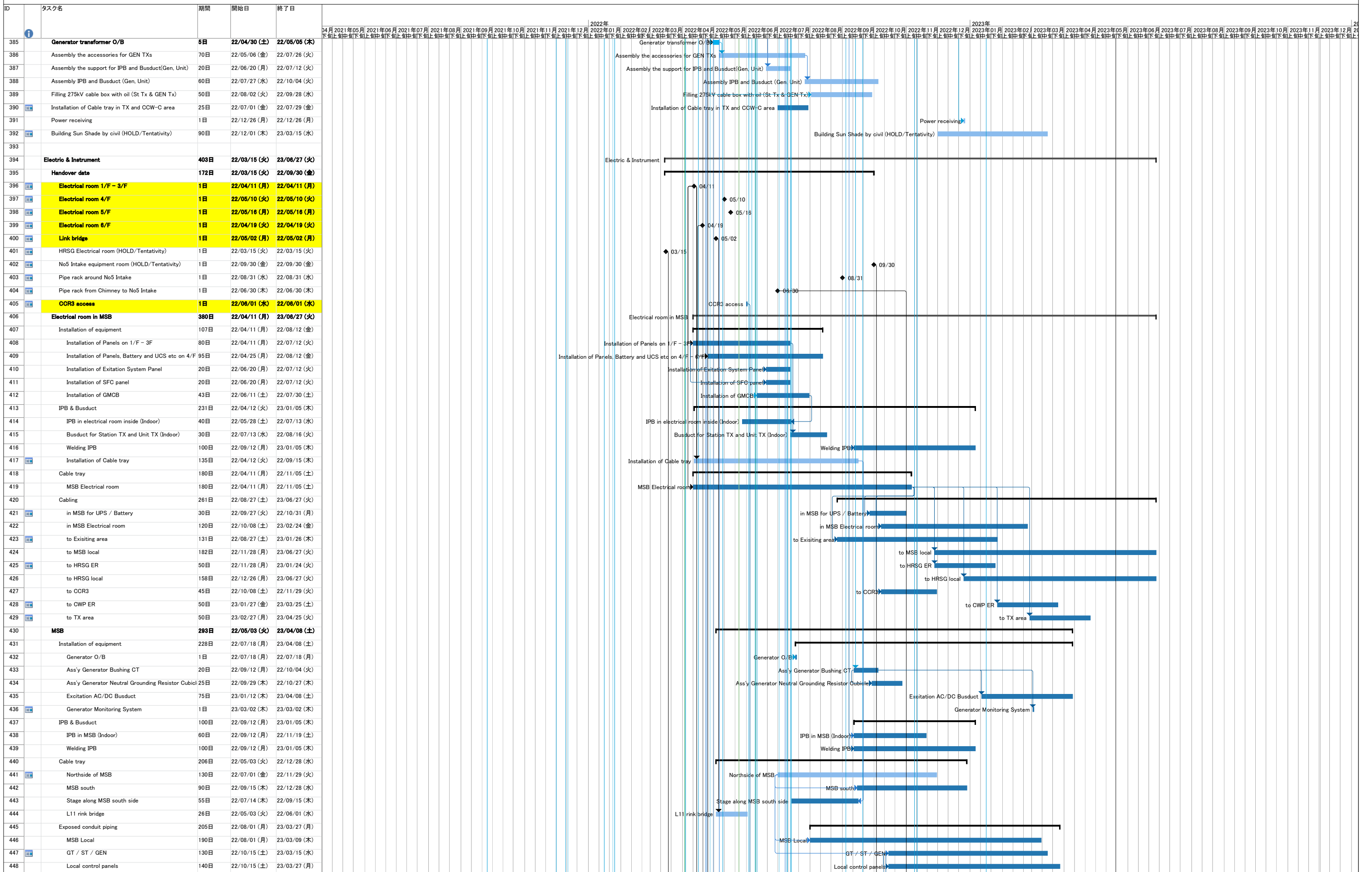


This schedule was based on belows;  
 i) This schedule was revised with based on the email M80020 and M80036.  
 ii) Delivery schedule of the powertrain and the tube bundles are followed to the information by 5th-April.

iii) Corrected by the comment of HKE on 11th-May-2022



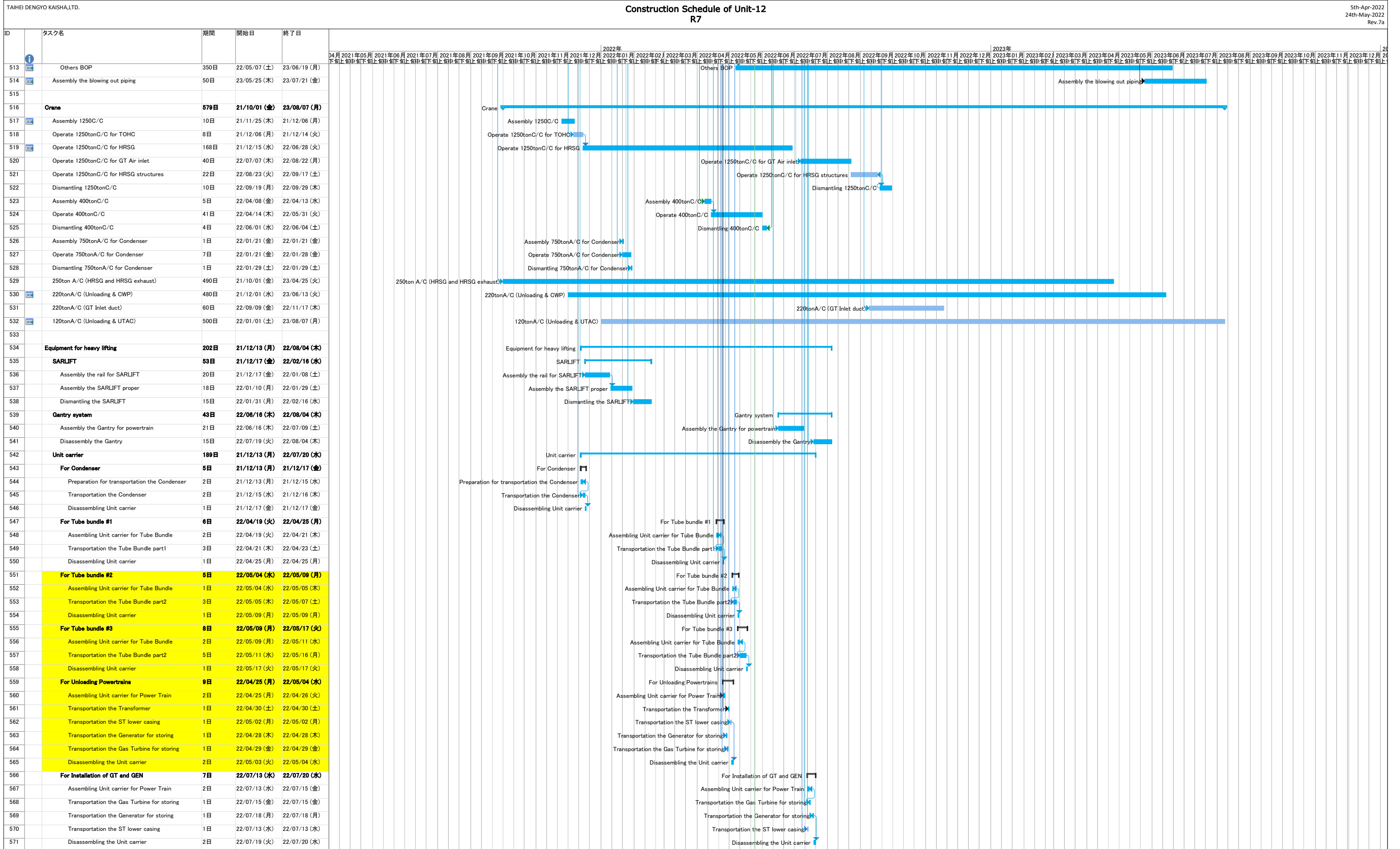
Construction Schedule of Unit-12  
R7



This schedule was based on belows;  
 i) This schedule was revised with based on the email M80020 and M80036.  
 ii) Delivery schedule of the powertrain and the tube bundles are followed to the information by 5th-April.

iii) Corrected by the comment of HKE on 11th-May-2022





This schedule was based on belows;  
 i) This schedule was revised with based on the email M80020 and M80036.  
 ii) Delivery schedule of the powertrain and the tube bundles are followed to the information by 5th-April.

iii) Corrected by the comment of HKE on 11th-May-2022