


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

ID	Task Name	Duration	Start	Finish	Predecessors	Start	Oct	Nov	Dec
1	KEY DATES & MILESTONES	1123 days	Fri 4/12/20	Sun 31/12/23					
2	Contract Period	1123 days	Fri 4/12/20	Sun 31/12/23	4FF,6				
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	3,572FF				
5	SITE POSSESSION DATES	513 days	Fri 4/12/20	Sun 1/5/22					
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					
12	COMPLETION DATES as per PS1.4.2 Time for Completion	838 days	Thu 30/9/21	Tue 16/1/24					
13	Section A1 (i) - Area south of L12 MSB and L12 HRSG from GL12-F eastwards leading to Chimney Road at Area F1 & F2	0 days	Thu 30/9/21	Thu 30/9/21	83FF				
14	Section A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the associated roof structure except the roof deferred works	0 days	Mon 1/11/21	Mon 1/11/21	91FF				
15	Section A2 (i) External Works including CW Inlet Culvert at Area F8A	0 days	Fri 28/7/23	Fri 28/7/23	98FF				
16	Section A2 (ii) External Works including CW Inlet Culvert at Area F8B	0 days	Tue 16/1/24	Tue 16/1/24	108FF				
17	Section A2 (iii) External Works including CW Inlet Culvert at Area F8C	0 days	Sat 28/10/23	Sat 28/10/23	116				
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	125FF				
19	Section B2 (i) - Southern Part of L12 HRSG areas and its surrounding refer to Area F8B 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	132FF				
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	143FF				
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	154FF				
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	169FF				
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	185FF				
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	192FF				
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	228FF				
26	Section D - (i) Microwave Antenna Room and Chimney Windshield for the installation of microwave equipment and antenna	0 days	Fri 10/6/22	Fri 10/6/22	261FF				
27	Section D (ii) - No. 5 Chimney with L12 Steel Flue Inner	0 days	Wed 21/6/23	Wed 21/6/23	240FF				
28	Section E (i) Tx Room of Administration and Control Building	0 days	Sun 31/10/21	Sun 31/10/21	274FF				
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	288FF				
30	Section E (iii) - Whole of Admin. And Control Building	0 days	Tue 31/5/22	Tue 31/5/22	264FF				
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	307FF				
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	319FF				
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	327FF				
34	Section G (i) - External Work surrounding Area F11	0 days	Tue 31/10/23	Tue 31/10/23	349FF				
35	Section G (ii) - External Works at Area F12 & F13	0 days	Fri 20/10/23	Fri 20/10/23	359FF				
36	Section G (iii) - FS Modification works along South Seafront Road at Area F15	0 days	Fri 30/9/22	Fri 30/9/22	369FF				
37	Section G (iv) - 275kV cable trenches and External Works at Area F16	0 days	Mon 14/8/23	Mon 14/8/23	378FF				
38	Section G (v) - Shunt Reactor Compound and External Works at Area F17	0 days	Sat 3/6/23	Sat 3/6/23	388FF				
39	Section G (vi) - 275kV cable trenches and External Works at Area F18	0 days	Wed 1/6/22	Wed 1/6/22	407FF				
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	417FF				
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	430FF				
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	445FF				
43	Section G (x) - DAX Cable Diversion Works (from Part I to Part IV)	0 days	Sun 16/7/23	Sun 16/7/23	459FF				
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	487FF				
45	GENERAL & PRELIMINARY	228 days	Fri 4/12/20	Mon 19/7/21					
46	First Mobilization	18 days	Fri 4/12/20	Mon 21/12/20	6				
47	Set up Temporary Site Office and Welfare Facilities	90 days	Tue 22/12/20	Mon 21/3/21	46				
48	Permit Applications & Statutory Submissions	120 days	Mon 22/3/21	Mon 19/7/21	47				
49	Existing Utilities scanning & Excavation Permit	45 days	Tue 22/12/20	Thu 4/2/21	46				
50	Tower Crane erections	60 days	Sun 27/12/20	Wed 24/2/21	6FS+23 days				
51	TECHNICAL SUBMISSION AND APPROVAL	1021 days	Thu 10/12/20	Wed 27/9/23					
52	BD Approval & Consent (If required)	0 days	Thu 10/12/20	Thu 10/12/20	6FS+7 days				
53	Submission and Approval of Master Programme	14 days	Fri 11/12/20	Thu 24/12/20	6FS+7 days				
54	Work Execution Overall Plan submission & approval	14 days	Fri 11/12/20	Thu 24/12/20	6FS+7 days				
55	Material Submissions and approval	300 days	Fri 25/12/20	Wed 20/10/21	46,54				
56	Method Statement submission and approval	300 days	Fri 25/12/20	Wed 20/10/21	55SS				
57	BIM Model, CSD & CBWD Submission & approval	120 days	Fri 25/12/20	Fri 23/4/21	56SS				
58	Structure Steelwork Connection Design Submission & BD approval	45 days	Tue 29/12/20	Thu 11/2/21	52FS+18 days				
59	Structure Steelwork Shop Drawing & Approval	30 days	Fri 12/2/21	Sat 13/3/21	58				
60	Metal Cladding, louvre & windows submission & BD approval	45 days	Tue 29/12/20	Thu 11/2/21	58SS				
61	Metal Cladding, louvre & windows shop drawing submission	45 days	Fri 12/2/21	Sun 28/3/21	60				
62	Order, Off Site Fabrication and Delivery (S. Steel & Cladding & louvres)	120 days	Mon 29/3/21	Mon 26/7/21	59,61				
63	ELS Submission and BD approval	90 days	Fri 11/12/20	Wed 10/3/21	52				
64	No. 5 Chimney windshield temporary work submission, approval & fabrication	60 days	Fri 11/12/20	Mon 8/2/21	52				
65	Steel Flue Assessment Report and Design Drawings submission & approval	60 days	Tue 9/2/21	Fri 9/4/21	64				
66	Folding Shutters Shop Drawing Submission & Approval	30 days	Thu 11/2/21	Fri 12/3/21	55SS+48 days				
67	Fabrication & Delivery of Folding Shutters	180 days	Sat 13/3/21	Wed 8/9/21	66				
68	Sewage Pump System Design submission & approval	45 days	Wed 15/2/23	Fri 31/3/23	57SS+60 days				
69	Fabrication & Delivery of Sewage Pump	180 days	Sat 1/4/23	Wed 27/9/23	68				
70	Other material submission & approval & delivery	180 days	Sat 24/4/21	Wed 20/10/21	55SS+120 days				
71	Other material submission & approval & delivery	180 days	Sat 24/4/21	Wed 20/10/21	55SS+120 days				
72	CONSTRUCTION	1139 days	Fri 4/12/20	Tue 16/1/24					
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	174				
75	Installation of Puddle Pipes at C.W. Inlet Culvert	7 days	Thu 27/5/21	Wed 2/6/21	176				
76	Template setting at L12 Turbo Block Foundation	45 days	Tue 16/11/21	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	139SS+30 days, 149SS+30 days				
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 12-6	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	169				

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	Predecessors	Start	Oct	Nov	Dec
81	Installation of power train equipment including air inlet duct using access through a temporary facade 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	192				
82	Installation of embedded materials such as holding down bolts for equipment foundations - Commencement	0 days	Thu 15/4/21	Thu 15/4/21	158				
83	Section A1 (i) - Area south of L12 MSB and L12 HRSG from GL12-F eastwards leading to Chimney Road at Area F1 & F2	301 days	Fri 4/12/20	Thu 30/9/21					
84	Area Possession & Clearance	30 days	Fri 4/12/20	Sat 2/1/21	6				
85	Subletting / Fabrication / Delivery (both for Area F1 and Area F2)	60 days	Sun 17/1/21	Wed 17/3/21	84FS+14 days				
86	Excavation for CW Inlet Culvert (Type D Construction Area)	14 days	Tue 1/6/21	Mon 14/6/21	135				
87	Installation CW Inlet Culvert pipe	70 days	Tue 15/6/21	Mon 23/9/21	86				
88	Backfill	7 days	Tue 24/8/21	Mon 30/8/21	87				
89	Construction UG Utilities 2m deep below further surface	28 days	Tue 31/8/21	Mon 27/9/21	88				
90	Temporary Paving and handover for plant erection	3 days	Tue 28/9/21	Thu 30/9/21	89				
91	Section A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the associated roof structure except the roof deferred works	333 days	Fri 4/12/20	Mon 1/11/21					
92	Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	6				
93	Subletting / Fabrication / Delivery	210 days	Tue 23/2/21	Mon 20/9/21	84FS+14 days				
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	94				
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	96FF				
98	Section A2 (i) External Works including CW Inlet Culvert at Area F8A	967 days	Fri 4/12/20	Fri 28/7/23					
99	BD consent for Sheetpile installation	30 days	Fri 4/12/20	Sat 2/1/21	52SS-7 days				
100	Subletting / Fabrication / Delivery (both for Area F8A-F8B)	30 days	Fri 18/12/20	Sat 16/1/21	99SS+14 days				
101	Area Possession & Clearance	14 days	Sat 2/1/21	Fri 15/1/21	7				
102	Install Sheet pile	55 days	Sat 16/1/21	Thu 11/3/21	101				
103	Installation of Additional sheet Pile at South of area F8A	7 days	Sat 17/4/21	Fri 23/4/21	102FS+60 days				
104	BD Consent for ELS	28 days	Sat 24/4/21	Fri 21/5/21	103				
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	104				
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 29/3/23	106				
108	Section A2 (ii) External Works including CW Intet Culvert at Area F8B	1139 days	Fri 4/12/20	Tue 16/1/24					
109	Area Possession & Clearance	30 days	Mon 1/3/21	Tue 30/3/21	7FS+30 days				
110	BD consent for Sheetpile installation	30 days	Fri 4/12/20	Sat 2/1/21	99SS				
111	Install Sheet pile	90 days	Fri 2/4/21	Wed 30/6/21	103FS+21 days,102FS+21 days				
112	BD Consent for ELS	28 days	Thu 1/7/21	Wed 28/7/21	111				
113	ELS and install CW Inlet Pipe	100 days	Thu 29/7/21	Fri 5/11/21	112				
114	Construction of Thrust Box & Manholes,etc	15 days	Wed 1/9/21	Wed 15/9/21	113SS+34 days				
115	Backfill, UG Utilities and Road Paving	200 days	Sat 17/7/23	Tue 16/1/24	114				
116	Section A2 (iii) External Works including CW Inlet Culvert at Area F8C	961 days	Fri 12/3/21	Sat 28/10/23					
117	Area Possession & Clearance	30 days	Fri 12/3/21	Sat 10/4/21	9				
118	Subletting / Fabrication / Delivery (for Area F8C)	60 days	Fri 12/3/21	Mon 10/5/21	117SS				
119	BD consent for Sheetpile installation	30 days	Tue 13/4/21	Wed 12/5/21	117				
120	Install Sheet pile	62 days	Thu 13/5/21	Tue 13/7/21	119				
121	BD Consent for ELS	35 days	Tue 17/8/21	Tue 17/8/21	120				
122	ELS and install CW Inlet Pipe (including soil nail installation under 19/83014)	76 days	Wed 18/8/21	Thu 20/1/22	113,121				
123	Construction of Thrust Box & Manholes,etc	30 days	Fri 21/1/22	Sat 19/2/22	122				
124	Backfill, UG Utilities and Road Paving	150 days	Thu 1/6/23	Sat 28/10/23	123				
125	Section B1 - Area south of L12 MSB from GL12-F westwards leading to Station Road at Area F3	377 days	Fri 4/12/20	Wed 15/12/21					
126	Area Possession & Clearance	30 days	Fri 4/12/20	Sat 2/1/21	6				
127	Subletting / Fabrication / Delivery	120 days	Fri 25/12/20	Fri 23/4/21	126SS+21 days				
128	Complete CW Pipe Installation & Thrust box	45 days	Tue 23/5/21	Thu 8/7/21	137FS+13 days				
129	Backfill	30 days	Fri 9/7/21	Sat 7/9/21					
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	130				
132	Section B2 - (i) Southern part of L12 HRSG area and its surrounding at Area F6B including the foundations for Gas Exhaust Duct	273 days	Fri 1/1/21	Thu 30/9/21					
133	Area Possession & Clearance	30 days	Fri 1/1/21	Sat 30/1/21	7				
134	Subletting / Fabrication / Delivery (for F6B Civil and E&M)	120 days	Sat 2/1/21	Sat 1/5/21	133SS				
135	Construction of Underground pits	35 days	Tue 8/6/21	Mon 12/7/21	146				
136	Excavation & Construct Pile Caps & Tie Beams & Piers	86 days	Mon 8/3/21	Thu 19/8/21	135				
137	Installation of Pipe Pile for HRSG foundation (VO)	48 days	Thu 25/3/21	Tue 11/5/21	136SS+7 days				
138	Construction HRSG & Gas Duct foundations	112 days	Fri 7/5/21	Fri 9/9/21	137				
139	Construction of HRSG Equipment Room incl. ABWF & BS (except T&C)	64 days	Tue 4/5/21	Thu 30/9/21	138				
140	Construction underground utilities within HRSG	55 days	Mon 19/7/21	Sat 11/9/21	136SS+51 days,137SS+51 days				
141	Backfill & Construction on-grade slabs & RC plinths on top	14 days	Fri 30/7/21	Mon 27/9/21	140				
142	Backfill and Temporary paving	21 days	Fri 10/9/21	Thu 30/9/21	140FS-2 days				
143	Section B2 (ii) - Remaining northern part of L12 HRSG area and its surrounding at Area F6A and F6C	319 days	Fri 1/1/21	Mon 15/11/21					
144	Area Possession and Clearance at Area F6A	30 days	Fri 1/1/21	Sat 30/1/21	7				
145	Subletting / Fabrication / Delivery (for Area F6A and F6C civil)	90 days	Sat 2/1/21	Thu 1/4/21	133SS				
146	Construction of Underground pits (HRSG Blowdown sump pit)	110 days	Sat 2/1/21	Wed 21/4/21	144SS				
147	Excavation & Construct Pile Caps & Tie Beams & Piers	139 days	Mon 1/2/21	Sat 10/7/21	146				
148	Construction underground utilities within HRSG	55 days	Mon 19/7/21	Sat 11/9/21	147				
149	Construction of Underground pits (GT Oil & Chemical drain pits)	15 days	Thu 5/8/21	Thu 19/8/21	138,148				
150	Backfill & Construction on-grade slabs & RC plinths on top	45 days	Sun 12/9/21	Tue 26/10/21	148				
151	Construct RC Walls	90 days	Thu 22/4/21	Tue 20/7/21	200				
152	Construction of Underground utilities at F6C	21 days	Tue 19/10/21	Mon 8/1/21	151				
153	Backfill and Temporary paving	7 days	Tue 9/11/21	Mon 15/11/21	152				
154	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	452 days	Fri 4/12/20	Mon 28/2/22					
155	Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	6				
156	Subletting / Fabrication / Delivery (Civil+ABWF+BS for MSBL12)	150 days	Fri 25/12/20	Sun 23/5/21	155SS+21 days				
157	Complete excavation at Type A&C Construction Area	0 days	Sun 21/3/21	Sun 21/3/21	172				
158	Excavation & Pile Caps & Tie Beams + Slabs (Turbo Block North)	75 days	Sun 31/1/21	Thu 15/4/21	157				
159	Backfill and construction turbine block & equipment foundation	85 days	Tue 1/6/21	Tue 24/8/21	160				
160	Excavation & Pile Caps & Tie Beams + Slabs (Turbo Block South)	45 days	Sat 17/4/21	Mon 31/5/21	158FS+1 day				
161	Construction of internal drainage & on-grade slab	90 days	Wed 1/9/21	Mon 29/11/21	159,160				
162	Construction turbine block columns and upper portion for plant embed installation	83 days	Wed 25/8/21	Mon 15/11/21	159				
163	Concrete Turbine upper part foundation	15 days	Fri 31/12/21	Fri 14/1/22	162				
164	Construction of Lube Oil Room	60 days	Tue 30/11/21	Fri 28/1/22	161				
165	Concrete RC walls	115 days	Tue 7/9/21	Thu 30/12/21	162SS				
166	ABFW Works	60 days	Thu 4/11/21	Sun 2/1/22	165FS-57 days				
167	Building Services Works	45 days	Sat 15/1/22	Mon 28/2/22	166SS+15 days				
168	Remove temporary falsework and scaffolding for installation of power generator	13 days	Mon 7/2/22	Sat 19/2/22	163				

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Rev 1-B 23 Aug 2021



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Master Programme

ID	Task Name	Duration	Start	Finish	Predecessors	Earliest	Oct	Nov	Dec
169	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	377 days	Fri 4/12/20	Wed 15/12/21					
170	Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	6				
171	Subletting / Fabrication / Delivery (for MSB L12 civil)	150 days	Fri 25/12/20	Sun 23/5/21	170SS+21 days				
172	Excavation to foundation level at ELS SP Type A & C	80 days	Fri 1/1/21	Sun 21/3/21	170SS+28 days				
173	Install CW Outlet pipe	85 days	Mon 22/3/21	Mon 14/6/21	172				
174	Construction of CW Outlet Box + lowest tie beam & caps	40 days	Mon 22/3/21	Fri 30/4/21	172				
175	Construction of pile caps & tie beams & sump pits up to +2.7mPD	26 days	Sat 1/5/21	Wed 26/5/21	174				
176	Backfill & Construction of CW Inlet Box + tie beams	71 days	Thu 27/5/21	Thu 5/8/21	175				
177	Construction of pile caps & tie beams at SunShadeCover Area	45 days	Tue 15/6/21	Thu 29/7/21	176				
178	Backfill and Construction ground beams & trenches	28 days	Thu 27/5/21	Mon 5/7/21	177SS				
179	Construction of indoor underground drainage	14 days	Fri 13/8/21	Thu 26/8/21	178				
180	Backfill & construction on-grade slabs	60 days	Sun 1/8/21	Wed 29/9/21	177FS+1 day				
181	Construction Column casting and RC walls & equipment foundations	50 days	Thu 30/9/21	Thu 18/11/21	201				
182	ABFW Works	15 days	Fri 19/11/21	Fri 3/12/21	181				
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	181FS-2 days				
185	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	408 days	Fri 4/12/20	Sat 15/1/22					
186	Area Possession & Clearance	30 days	Fri 4/12/20	Sat 2/1/21	6				
187	Subletting / Fabrication / Delivery	210 days	Fri 25/12/20	Thu 22/7/21	186SS+21 days				
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	188				
190	Construction of cable trenches	30 days	Fri 17/9/21	Sat 16/10/21	189				
191	Backfill and lay temporary paving	91 days	Sun 17/9/21	Sat 15/1/22	190				
192	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	908 days	Fri 4/12/20	Tue 30/5/23					
193	Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	6				
194	Subletting / Fabrication / Delivery	120 days	Fri 25/12/20	Fri 23/4/21	193SS+21 days				
195	Construction of pile caps & tie beams at Transformer Area	180 days	Sun 31/1/21	Thu 29/7/21	172SS+30 days				
196	Backfill and on-grade slab at transformer Area	160 days	Sun 11/4/21	Thu 7/10/21	195FS-100 days				
197	Construction of Fire Walls at Transformer Area	45 days	Fri 8/10/21	Mon 29/11/21	196				
198	Excavation & Construction Blow Down Sum pit (SP Type B)	140 days	Wed 14/4/21	Tue 31/8/21	172,158FF				
199	Preparation for S.Steelwork Erection	7 days	Sat 5/6/21	Fri 11/6/21	198,158,148				
200	Structural Delivery & Erection (Turbine Hall North fr G.L. 1-3/H->B)	67 days	Sat 12/6/21	Tue 17/8/21	199				
201	Structural Delivery & Erection (Equipment Floors)	33 days	Wed 18/8/21	Sun 19/9/21	200,178				
202	Structural Delivery & Erection (Turbine Hall South + East Elevation)	47 days	Mon 20/9/21	Fri 5/11/21	201,128				
203	Joint Tightening and touch up coating	99 days	Sat 3/7/21	Wed 24/11/21	200				
204	External Scaffolding Erection	97 days	Thu 15/7/21	Mon 22/11/21	200				
205	Construction 1/F RC Slab	14 days	Mon 20/9/21	Sun 3/10/21	201				
206	Construction 2/F RC Slab	7 days	Mon 27/9/21	Sun 10/10/21	205				
207	Construction 3/F RC Slab	18 days	Thu 30/9/21	Sun 17/10/21	205				
208	Construction 4/F RC Slab	7 days	Thu 7/10/21	Sun 24/10/21	207				
209	Construction 5/F RC Slab	44 days	Mon 25/10/21	Tue 7/12/21	208				
210	Construction 6/F RC Slab	14 days	Wed 11/12/21	Tue 14/1/22	208				
211	Construction Upper Roof RC Slab	10 days	Sun 12/12/21	Fri 24/12/21	210				
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	212FS+9 days				
214	Construction of Staircase ST-01 & lift shaft & machine room	130 days	Fri 27/8/21	Mon 3/1/22	200				
215	Construction MF RC Slab	14 days	Fri 1/10/21	Thu 14/10/21	214SS+60 days				
216	Lift Installation	90 days	Thu 9/2/23	Tue 9/5/23	214				
217	Construction of Staircase ST-02 except defer work	68 days	Mon 11/10/21	Fri 24/12/21	207				
218	Construction of RC plinth, kerbs & parapet Walls	40 days	Sat 20/11/21	Wed 29/12/21	212				
219	Erection of Skylight & Roof Features	50 days	Fri 26/11/21	Fri 14/1/22	212				
220	Waterproofing & Flooring at Roof	34 days	Thu 30/12/21	Thu 17/2/22	219				
221	ABFW Works	600 days	Fri 8/10/21	Tue 30/5/23	205				
222	Building Services Works	550 days	Tue 16/11/21	Fri 19/5/23	221SS+21 days				
223	Metal Cladding, Windows and Louvres incl. roof feature	535 days	Mon 23/8/21	Wed 8/2/23	204SS+21 days				
224	Removal of external scaffolding	460 days	Wed 1/12/21	Sun 5/3/23	223SS+60 days				
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	225				
227	Removal of temporary works & clearance for plant erection contractor	30 days	Sat 14/1/23	Sun 12/2/23	226FF				
228	Section C - (iii) Link Bridge between L11 and L12 MSB includin their associated A&A at L11 MSB	885 days	Fri 4/12/20	Sun 7/5/23					
229	BD Consent	0 days	Fri 4/12/20	Fri 4/12/20	6				
230	Subletting / Fabrication / Delivery (For BS and ABWF)	250 days	Fri 25/12/20	Tue 31/8/21	193SS+21 days				
231	Clearing Works and plant set-up	30 days	Fri 3/12/21	Sat 1/1/22	229FS+255 days				
232	Dismantle of north scaffold for link bridge erection	0 days	Tue 25/1/22	Tue 25/1/22	224SS				
233	A&A works at South of L11 MSB	30 days	Fri 3/12/21	Sat 1/1/22	231SS				
234	Erection of link bridge structural steel	30 days	Sun 2/1/22	Mon 31/1/22	233				
235	Casting of bridge deck	11 days	Tue 1/2/22	Fri 11/2/22	234				
236	Metal roofing installation	30 days	Wed 22/2/23	Thu 23/3/23	234				
237	ABWF work	15 days	Fri 24/3/23	Fri 7/4/23	236				
238	BS Works	30 days	Sat 8/4/23	Sun 7/5/23	237				
239	Ready for power cable laying work by others	0 days	Sun 10/4/22	Sun 10/4/22	238				
240	Section D - (ii) No. 5 Chimney with L12 Steel Flue Liner	902 days	Fri 1/1/21	Wed 21/6/23					
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	241SS+7 days				
243	Excavation & Pile Cap & Backfill	90 days	Sat 2/1/21	Thu 1/4/21	241SS				
244	Tower Crane erection	30 days	Tue 11/5/21	Wed 9/6/21	243FF				
245	Construction of Wind Shilded + clearance for internal floors and flue+Ground slab	308 days	Fri 2/4/21	Mon 4/4/22	244				
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	246SS+60 days				
248	Construction of G/F room incl. Microwave Antenna Rm	45 days	Thu 7/7/22	Sat 20/8/22	245SS+90 days				
249	Construction of 1/F RC slab	8 days	Sat 13/8/22	Sat 20/8/22	247				
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	253				
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	246				
259	Installation Louvre & Doors	60 days	Mon 13/2/23	Thu 13/4/23	257				
260	Mis works, Demobilization and ready for gas duct connection	17 days	Thu 5/1/23	Sat 21/1/23					
261	Section D (i) - ABWF and BS Works at Microwave Antenna Room and Chimney Windshield for installation of microwave and antenna	102 days	Tue 1/3/22	Fri 10/6/22					
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	262FS+1 day				
264	Section E - (i) Administration and Control Building (Transformer Room)	332 days	Fri 4/12/20	Sun 31/10/21					
265	Area Possession & Clearance + BD consent	60 days	Fri 4/12/20	Mon 1/2/21	6				
266	Subletting / Fabrication / Delivery (For Civil-BS-ABWF)	100 days	Tue 2/2/21	Wed 12/5/21	265SS+21 days				

MASTER PROGRAMME
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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	Predecessors	Partner	Oct	Nov	Dec
267	Excavation works	45 days	Fri 4/12/20	Sun 17/1/21	265SS				
268	Main Earth Grid Installation	45 days	Sun 3/1/21	Tue 16/2/21	267FS-15 days				
269	Pile cap and Tie Beam	45 days	Sun 3/1/21	Tue 16/2/21	268SS				
270	Tower Crane Erection and modification works	49 days	Wed 10/2/21	Tue 30/3/21	269FS-7 days				
271	Substructure + Bearing walls + On grade slabs	115 days	Wed 17/2/21	Fri 11/6/21	269				
272	Construction of RC up to 1/F incl. staircases	69 days	Sat 12/6/21	Thu 19/6/21	271				
273	ABWF at G/F	52 days	Fri 10/9/21	Sun 31/10/21	272FS+21 days				
274	Section E (ii) Handover G/F, 1/F, 2/F & Hoisting Well	452 days	Fri 4/12/20	Mon 28/2/22					
275	Clearing 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	266SS				
277	Construction of RC up to 2/F incl. staircases	25 days	Sat 14/8/21	Mon 13/9/21	272				
278	Construction of RC up to 3/F incl. staircases	20 days	Thu 2/9/21	Tue 21/9/21	277SS+16 days				
279	Temporary Hoist erection	14 days	Wed 22/9/21	Tue 5/10/21	278				
280	Construction of RC up to 4/F incl. staircases	20 days	Thu 16/9/21	Tue 5/10/21	278SS+14 days				
281	Construction of RC up to R/F incl. staircases	25 days	Thu 30/9/21	Sun 24/10/21	280SS+14 days				
282	Construction of RC up to lift machine room	21 days	Mon 25/10/21	Sun 14/11/21	281				
283	Construction of RC up to UR/F	21 days	Mon 15/11/21	Sun 5/12/21	282				
284	External Wall Finish, Cladding + Windows and Louvres + Features	500 days	Thu 30/9/21	Sat 11/2/23	281SS				
285	ABWF at 1/F	95 days	Fri 8/10/21	Mon 10/1/22	277FS+24 days				
286	ABWF at 2/F	96 days	Fri 15/10/21	Tue 18/1/22	278FS+23 days				
287	Building Services Works at G/F, 1/F, 2/F & Hoisting Well	147 days	Tue 5/10/21	Mon 28/2/22	285SS-3 days				
288	Section E (iii) Whole of Administration and Control Building	513 days	Sat 23/10/21	Sun 19/3/23					
289	Subletting / Fabrication / Delivery (For BS+ABWF)	127 days	Sat 23/10/21	Sun 20/3/22	230FS+45 days				
290	Construction of New UG Grey Water Tank	60 days	Mon 21/3/22	Thu 19/5/22					
291	Submission of WWO46 for commencement	60 days	Wed 19/1/22	Sat 19/3/22	287SS-30 days				
292	ABWF at 3/F	500 days	Mon 25/10/21	Wed 8/3/23	286SS+10 days				
293	ABWF at 4/F	470 days	Wed 24/11/21	Wed 8/3/23	292SS+30 days				
294	ABWF at R/F	470 days	Wed 24/11/21	Wed 8/3/23	293SS				
295	ABWF at UR/F + Lift Machine Room	35 days	Wed 1/2/23	Mon 13/3/23	294,283FS+30 days				
296	Bridge Erection & Connection	28 days	Wed 9/3/22	Wed 27/4/22	295,298SS+35 days				
297	Installation of Raised floors	60 days	Thu 9/12/21	Sun 6/2/22	287SS+65 days				
298	Removal of external scaffolding	45 days	Sat 21/1/23	Tue 14/3/23	284FS-19 days				
299	Waterproofing & screeding	440 days	Mon 6/12/21	Sat 18/2/23	283				
300	Removal of Tower Crane	7 days	Thu 31/3/22	Wed 6/4/22	298FS+21 days				
301	External utilities and road work	45 days	Fri 20/1/23	Tue 7/3/23	298SS+21 days				
302	Building Services Works	450 days	Sat 4/12/21	Sun 26/2/23	293SS+41 days				
303	False ceiling after BS works	54 days	Sun 15/1/23	Sat 11/3/23	302FS-20 days				
304	Submission of WWO46 for completion	360 days	Wed 9/3/22	Fri 3/3/23	301FF				
305	Submission of FS inspection	14 days	Fri 3/3/23	Fri 17/3/23	287,304,291				
306	Submission for OP Inspection	14 days	Wed 8/3/23	Tue 21/3/23	301,304,305SS+5 days,291				
307	Section F (i) - Gas Receiving Station and L12 Gas Receiving Station Equipment Room (GRS) Area Extension at Area F14	678 days	Tue 1/6/21	Sun 9/4/23					
308	Area Possession & Clearance + BD consent	90 days	Tue 1/6/21	Sun 29/8/21	8				
309	Subletting / Fabrication / Delivery	30 days	Tue 22/6/21	Wed 21/7/21	308SS+21 days				
310	Installation of pipe pile at north of GRS (VO)	125 days	Mon 5/7/21	Sat 6/11/21	309FS-16 days				
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	311				
313	Excavation & earthing for Skid foundations	21 days	Mon 9/5/22	Sun 29/5/22	296				
314	Construction of Skid foundation	45 days	Mon 30/5/22	Wed 13/7/22	313				
315	Construct underground utilities and drainage	45 days	Thu 14/7/22	Sat 27/8/22	314				
316	Backfill and road works	200 days	Sun 28/8/22	Wed 15/3/23	315				
317	Relocate / install new fencing for completion	21 days	Sun 5/3/23	Sun 26/3/23	316				
318	Mis. Work and ready for OP inspection	14 days	Mon 27/3/23	Sun 9/4/23	317				
319	Section F (ii) - Pipe and Cable rack and external work at Area F9A and F9B	941 days	Sat 2/1/21	Mon 31/7/23					
320	BD consent + Site Possession at Area F9A & F9B	90 days	Sat 2/1/21	Thu 14/1/21	7				
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 3/1/22	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 17/2/23	Mon 31/7/23					
327	Section F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external works at Area F10	765 days	Tue 1/6/21	Wed 5/7/23					
328	Area Possession & Clearance + BD consent	90 days	Tue 1/6/21	Sun 14/11/21	9				
329	Subletting / Fabrication / Delivery For ABWF + BS	150 days	Wed 2/6/21	Fri 29/10/21	328SS				
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	331				
333	Construction new footing for equipment room	68 days	Thu 23/12/21	Mon 28/2/22	332				
334	Superstructure for equipment room	60 days	Tue 1/3/22	Fri 29/4/22	333				
335	ABWF Works	45 days	Sat 30/4/22	Mon 13/6/22	334				
336	BS Works	400 days	Wed 1/6/22	Wed 5/7/23	335SS+3 days				
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	337				
339	Excavation & Plate load test for pipe rack extension (For F45-47 & F49)	30 days	Sat 16/10/21	Sun 14/11/21	332FS-6 days				
340	Construction new footing for pipe rack (For F45-47 & F49)	45 days	Mon 15/11/21	Wed 29/12/21	339				
341	Underground utilities and road works for completion	31 days	Wed 1/3/23	Fri 31/3/23	338				
342	Structural Steel fabrication & Delivery	90 days	Sun 12/12/21	Fri 11/3/22	341FF+12 days				
343	Backfilling and prepare for steel erection	12 days	Mon 28/2/22	Fri 11/3/22	342FS-12 days				
344	Excavation & Plate Load test for pipe rack extension (For F48 F56)	14 days	Wed 30/3/22	Tue 12/4/22	343FS+18 days				
345	Construction of new footing for pipe rack (For F48 & F56)	14 days	Wed 13/4/22	Tue 26/4/22	344				
346	Erection of new pipe rack (For F48 & F56)	65 days	Tue 3/5/22	Wed 6/7/22	345FS-6 days				
347	Erection of new pipe rack (For F45-47 & F49)	70 days	Sat 12/3/22	Fri 20/5/22	343				
348	Mis. Work and ready for OP inspection	56 days	Sun 7/5/23	Wed 5/7/23	336FF				
349	Section G (i) - External Work surrounding Area F11	254 days	Mon 20/2/23	Tue 31/10/23					
350	Area Possession & Clearance after handover from No. 5 Intake Contractor	31 days	Wed 1/3/23	Fri 31/3/23	11				
351	Subletting / Fabrication / Delivery	31 days	Mon 20/2/23	Wed 22/3/23	350SS				
352	Submission WWO046 for commencement	31 days	Wed 1/3/23	Fri 31/3/23	350SS				
353	Construct Underground utilities and drainage	150 days	Sat 1/4/23	Mon 28/8/23	350				
354	Install new FS Hydrant	20 days	Mon 10/7/23	Sat 29/7/23	353FF-30 days				
355	Submission WWO046 for completion	30 days	Sun 30/7/23	Mon 28/8/23	354				
356	Construction Road extension	58 days	Sun 30/7/23	Mon 25/9/23	354				
357	Construction road paving and install fencing	30 days	Tue 26/9/23	Wed 25/10/23	356				
358	Ready for OP inspection	14 days	Wed 18/10/23	Tue 31/10/23	357FS-8 days				
359	Section G (ii) - External Works at Area F12 & F13	961 days	Thu 4/3/21	Fri 20/10/23					
360	Area Possession & Clearance after handover from other	45 days	Wed 17/5/23	Fri 30/6/23	6				
361	Subletting / Fabrication / Delivery	180 days	Thu 4/3/21	Mon 30/8/21	360SS+90 days				
362	Excavation	7 days	Sat 1/7/23	Fri 7/7/23	360				

MASTER PROGRAMME
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Task Split Milestone Summary


31 Oct 23

20 Oct 23

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

ID	Task Name	Duration	Start	Finish	Predecessors	Partner	Oct	Nov	Dec
363	Submission WWO046 for commencement	30 days	Thu 8/6/23	Fri 7/7/23	362FF				
364	Construct Underground utilities and drainage	60 days	Sat 8/7/23	Tue 5/9/23	363	rainage			
365	Install new FS Hydrant	15 days	Wed 6/9/23	Wed 20/9/23	364	hydrant			
366	Submission WWO046 for completion	30 days	Thu 21/9/23	Fri 20/10/23	365				
367	Construction Road extension	15 days	Thu 21/9/23	Thu 5/10/23	365	Construction Road extension			
368	Complete with Mis. Works for completion	15 days	Fri 6/10/23	Fri 20/10/23	367	Complete with Mis. Works for completion			
369	Section G (iii) - FS Modification works along South Seafrost Road at Area F15	183 days	Fri 1/4/22	Fri 30/9/22					
370	Area Possession & Clearance after handover from other	45 days	Fri 1/4/22	Sun 15/5/22	10				
371	Subletting / Fabrication / Delivery	21 days	Fri 1/4/22	Thu 21/4/22	370SS				
372	Temporary Traffic Arrangement approval	14 days	Fri 1/4/22	Thu 14/4/22	370SS				
373	Utilities scanning and expose existing FS	14 days	Fri 15/4/22	Thu 28/4/22	372				
374	Determine new FS alignment	21 days	Fri 29/4/22	Thu 19/5/22	373				
375	Submission to FSD	14 days	Fri 20/5/22	Thu 2/6/22	374				
376	Modification of FS	60 days	Fri 3/6/22	Mon 1/8/22	375				
377	Backfill and reinstalment + report to FSD	60 days	Tue 2/8/22	Fri 30/9/22	376				
378	Section G (iv) - 275kV cable trenches and External Works at Area F16	836 days	Sat 1/5/21	Mon 14/8/23					
379	Area Possession & Clearance	60 days	Sat 1/5/21	Tue 29/6/21	8				
380	Subletting / Fabrication / Delivery	210 days	Wed 17/11/21	Tue 14/6/22	379SS+200 days				
381	Temporary Traffic Arrangement approval	60 days	Sat 1/5/21	Tue 29/6/21	379SS				
382	Removal of aboveground services	60 days	Wed 30/6/21	Sat 28/8/21	381				
383	Utilities scanning and expose existing UU	30 days	Sun 29/8/21	Mon 27/9/21	382				
384	Arrange of diversion existing UG utilities	90 days	Tue 28/9/21	Sun 28/12/21	383				
385	Construct new cable trenches	550 days	Mon 27/12/21	Thu 29/6/23	384				
386	Realignment / install new UG utilities	30 days	Fri 23/6/23	Sun 23/7/23	385				
387	Backfill and reinstalment + ready for cable laying by others	45 days	Sat 1/7/23	Mon 14/8/23	386				
388	Section G (v) - Shunt Reactor Compound and External Works at Area F17	912 days	Fri 4/12/20	Sat 3/6/23					
389	Temporary Traffic Arrangement approval	45 days	Fri 4/12/20	Sun 17/1/21	6				
390	Subletting / Fabrication / Delivery	100 days	Fri 25/12/20	Sat 3/4/21	389SS+21 days				
391	BD approval & consent for pipe pile installation	90 days	Fri 4/12/20	Wed 3/3/21	389SS				
392	Area Possession & Clearance	14 days	Thu 4/3/21	Wed 17/3/21	391				
393	Removal of aboveground services	21 days	Thu 18/3/21	Wed 7/4/21	392				
394	Utilities scanning and expose existing UU	15 days	Thu 8/4/21	Thu 22/4/21	393				
395	Arrange of diversion existing UG utilities	45 days	Fri 23/4/21	Sun 6/6/21	394				
396	Install pipe piles	61 days	Sun 23/5/21	Thu 22/7/21	395SS+30 days				
397	BA14 for pipepile and BD consent for ELS	28 days	Fri 23/7/21	Thu 19/8/21	396				
398	Excavation & install earthing	35 days	Fri 20/8/21	Thu 23/9/21	397				
399	Construct Pile Caps and Tie Beams	45 days	Fri 24/9/21	Sun 11/1/21	398				
400	Backfill & Erect scaffold	21 days	Mon 8/11/21	Sun 28/11/21	399				
401	Construction of SRC Walls	75 days	Mon 29/11/21	Fri 11/2/22	400				
402	Wall finish and remove scaffolding	380 days	Sat 12/2/22	Sun 26/2/23	401				
403	Construct new cable trenches	60 days	Thu 9/2/23	Sun 9/4/23	402				
404	Install new UG Utilities. Backfill and reinstalment + ready for cable laying by Others for DAX1	55 days	Thu 7/4/22	Tue 31/5/22	403SS+30 days				
405	Realignment / install new UG utilities (for DAX2, APX1 & APX3)	30 days	Tue 4/4/23	Thu 4/5/23	403				
406	Backfill and reinstalment + ready for cable laying by others (for DAX2, APX1, & APX3)	30 days	Thu 4/5/23	Sat 3/6/23	405				
407	Section G (vi) - 275kV cable trenches and External Works at Area F18	397 days	Sat 1/5/21	Wed 1/6/22					
408	Temporary Traffic Arrangement approval	45 days	Sat 1/5/21	Mon 14/6/21	8				
409	Subletting / Fabrication / Delivery	60 days	Tue 15/6/21	Fri 13/8/21	389SS+21 days,408				
410	Area Possession & Clearance	15 days	Sat 1/5/21	Sat 15/5/21	408SS				
411	Removal of aboveground services	30 days	Sun 16/5/21	Mon 14/6/21	410				
412	Utilities scanning and expose existing UU	45 days	Tue 15/6/21	Thu 29/7/21	411				
413	Arrange of diversion existing UG utilities	60 days	Fri 30/7/21	Mon 27/9/21	412				
414	Construct new cable trenches	172 days	Tue 28/9/21	Fri 18/3/22	413				
415	Realignment / install new UG utilities	45 days	Sat 19/3/22	Mon 2/5/22	414				
416	Backfill and reinstalment + ready for cable laying by others	30 days	Tue 3/5/22	Wed 1/6/22	415				
417	Section G (vii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20A	803 days	Fri 4/12/20	Tue 14/2/23					
418	Area Possession & Clearance	30 days	Fri 4/12/20	Sat 2/1/21	6				
419	Subletting / Fabrication / Delivery	60 days	Fri 25/12/20	Mon 22/2/21	418SS+21 days				
420	Temporary Traffic Arrangement approval	300 days	Fri 4/12/20	Wed 29/9/21	418SS				
421	ELS BD approval & consent	90 days	Fri 18/12/20	Wed 17/3/21	420				
422	Demolition of existing carriageway	30 days	Thu 11/11/21	Fri 10/12/21	421SS-7 days				
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	423				
425	Arrange of diversion existing UG utilities	30 days	Sat 11/12/21	Sun 9/1/22	424				
426	Excavation and construction of new Flood wall	65 days	Mon 10/1/22	Tue 15/3/22	425				
427	Realignment / install new UG utilities	30 days	Wed 16/3/22	Thu 14/4/22	426				
428	Backfill and construct new carriageway	300 days	Fri 15/4/22	Wed 8/2/23	427				
429	Mis. Work for completion	6 days	Thu 9/2/23	Tue 14/2/23	428				
430	Section G (viii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20B	729.5 days	Fri 1/10/21	Sat 30/9/23					
431	Area Possession & Clearance	45 days	Fri 1/10/21	Sun 14/11/21	9				
432	Subletting / Fabrication / Delivery	90 days	Fri 22/10/21	Wed 19/1/22	431SS+21 days				
433	Temporary Traffic Arrangement approval	14 days	Fri 1/10/21	Thu 14/10/21	431SS				
434	ELS BD approval & consent	90 days	Fri 15/10/21	Wed 12/1/22	433				
435	Demolition of existing carriageway	630 days	Fri 1/10/21	Thu 22/6/23	431SS				
436	Removal of aboveground services	21 days	Tue 20/6/23	Tue 11/7/23	435				
437	Utilities scanning and expose existing UU	21 days	Wed 5/7/23	Wed 26/7/23	436				
438	Arrange of diversion existing UG utilities	30 days	Sun 23/7/23	Tue 22/8/23	437				
439	Install Sheetpiles	55 days	Thu 10/2/22	Tue 5/4/22	438				
440	BA14 for sheetpile and BD consent for ELS	28 days	Wed 6/4/22	Tue 3/5/22	439				
441	Excavation and construction of new Flood wall	30 days	Wed 26/7/23	Fri 25/8/23	438				
442	Realignment / install new UG utilities	15 days	Fri 25/8/23	Sat 9/9/23	441				
443	Backfill and construct new carriageway	21 days	Thu 7/9/23	Thu 28/9/23	442				
444	Mis. Work for completion	9 days	Thu 21/9/23	Sat 30/9/23	443FS-7 days				
445	Section G (ix) - Bund wall modification works at South Seafrost Road at Area F21	316 days	Fri 4/12/20	Fri 15/10/21					
446	Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	6				
447	Subletting / Fabrication / Delivery	90 days	Fri 25/12/20	Wed 24/3/21	446SS+21 days				
448	Temporary Traffic Arrangement approval	165 days	Fri 4/12/20	Mon 17/5/21	446SS				
449	ELS BD approval & consent	0 days	Thu 17/12/20	Thu 17/12/20	448				
450	Demolition of existing carriageway	14 days	Tue 18/5/21	Mon 31/5/21	449				
451	Removal of aboveground services	14 days	Tue 1/6/21	Mon 14/6/21	450				
452	Utilities scanning and expose existing UU	21 days	Tue 15/6/21	Mon 5/7/21	451				
453	Arrange of diversion existing UG utilities (include FS pipe under 17/8002)	40 days	Tue 6/7/21	Sat 14/8/21	452				
454	Excavation and expose existing bund wall & demolish	18 days	Wed 28/7/21	Sat 14/8/21	452FS+22 days				
455	Construction new bund wall for road junction	21 days	Sat 4/9/21	Fri 24/9/21	454FS+20 days				
456	Realignment / install new UG utilities (include FS pipe under 17/8002)	60 days	Sun 1/8/21	Wed 29/9/21	452FS+26 days				
457	Backfill and construct new carriageway	16 days	Thu 30/9/21	Fri 15/10/21	456				
458	Mis. Work for completion	5 days	Mon 11/10/21	Fri 15/10/21	457FS-5 days				
459	Section G (x) - DAX Cable Diversion Works (from Part I to Part IV)	955 days	Fri 4/12/20	Sun 16/7/23					
460	Temporary Traffic Arrangement approval	14 days	Fri 4/12/20	Thu 17/12/20	6				
461	Subletting / Fabrication / Delivery	90 days	Fri 25/12/20	Wed 24/3/21	446SS+21 days,460				
462	Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	460SS				
463	Identification of existing cable trench	7 days	Mon 18/1/21	Sun 24/1/21	462				
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	463				
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	464SS				
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
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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	Predecessors	Start	Oct	Nov	Dec
468	Part 4 Re-excavation works incl. joint bay & new oil tank pits	92 days	Sat 1/10/22	Sat 31/12/22					
469	Backfill & Reinstatement Part 1	61 days	Mon 1/11/21	Fri 31/12/21	466SS				
470	Backfill & Reinstatement Part 2	61 days	Sun 1/5/22	Thu 30/6/22	466FS+61 days				
471	Backfill & Reinstatement Part 3	61 days	Wed 17/5/23	Sun 16/7/23	467FS+62 days				
472	Section H - All remaining works shall be completed for reporting completion to BD and ready for OP inspection (PS1.4.4)	736.15 days	Wed 17/11/21	Thu 23/11/23					23 Nov '23
473	Deferred works (MSB & HRSG) Listed in PS 1.4.4	539 days	Wed 17/11/21	Tue 9/5/23					
474	Construction of L12 MSB not between GL 12-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	213SS				
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	80				
476	Provision in associated with hoisting well	21 days	Mon 6/6/22	Sun 26/6/22	475SS+21 days				
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	Deferred works (DAX1 and DAX2) Listed in PS 1.4.4	151 days	Sun 1/1/23	Wed 31/5/23					
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	469SS				
481	Re-excavation of whole DAX2 compartment inside existing joint bay "STJ12".	61 days	Sun 1/1/23	Thu 2/3/23	470				
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	Deferred works (External Work) Listed in PS 1.4.4	357.15 days	Thu 1/12/22	Thu 23/11/23					23 Nov '23
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	185				Final reinstatement of access roads and pavement surrounding and within L12 MSB and L12 HRSG area
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	387FF,406FS+92 days,416				Installation of trench cover and road reinstatement of gas pipe and cable trenches within Area F5, F14, F16, F17 and F18.
486	Backfilling and road-reinstatement of 275kV cable trenches	60 days	Sun 1/1/23	Thu 23/11/23	485				Backfilling and road-reinstatement of 275kV cable trenches
487	All Remaining work ready for OP inspection	0 days	Sat 1/7/23	Sat 1/7/23					
488	STATUTORY SUBMISSION, INSPECTION & APPROVAL	560 days	Tue 16/11/21	Mon 29/5/23					
489	WSD Statutory Submission, Inspection and Approval WWO Part I to III Submission / Approval	256 days	Tue 16/11/21	Fri 29/7/22					
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	222SS,287SS				
491	WSD: Vetting Form WWO 046 Part I and II Submission	90 days	Wed 17/11/21	Mon 14/2/22	490SS+1 day				
492	WSD: Issued of Form WWO 046 Part III by WSD - FOR ACB Building	0 days	Tue 15/2/22	Tue 15/2/22	491FS+1 day				
493	WSD: Prepare for 1st Amendment for Plumbing Plan	60 days	Tue 15/2/22	Fri 15/4/22	492FS-1 day				
494	WSD: Submit to WSD 1st Amendment for Plumbing Plan	0 days	Fri 15/4/22	Fri 15/4/22	493				
495	WSD: Vetting of Plumbing Plan by WSD	60 days	Sat 16/4/22	Tue 14/6/22	494				
496	WSD: 1st Approval for Plumbing Plan by WSD	0 days	Tue 14/6/22	Tue 14/6/22	495				
497	WSD: Prepare and Submit for Final Amendment for Plumbing Plan	45 days	Wed 15/6/22	Fri 29/7/22	496				
498	WSD: Vetting and Final Approval for Plumbing Plan by WSD	0 days	Fri 29/7/22	Fri 29/7/22	497				
499	WSD Statutory Submission, Inspection and Approval WWO Part IV to V Fire Services Water Submission / Approval	33 days	Fri 29/7/22	Wed 31/8/22					
500	WSD: Form WWO 046 Part IV Submission (FS)	0 days	Fri 3/3/23	Fri 3/3/23	498				
501	WSD: WSD Received Form WWO046 Part IV and arrange for inspection (FS)	7 days	Fri 3/3/23	Thu 9/3/23	500				
502	WSD: WSD Inspection (FS)	7 days	Fri 10/3/23	Thu 16/3/23	501				
503	WSD: WWO 046 Part V Endorsement by WSD (FS)	12 days	Fri 17/3/23	Tue 28/3/23	502				
504	WSD: WSD Processing Water Supply Connection Certificate (FS)	7 days	Wed 29/3/23	Tue 4/4/23	503				
505	WSD: Issue by WSD Water Supply Connection Certificate (FS)	0 days?	Tue 4/4/23	Tue 4/4/23	504FF				
506	WSD Statutory Submission, Inspection and Approval WWO Part IV to V Potable /Flush Water Submission / Approval	60 days	Fri 3/3/23	Mon 1/5/23					
507	WSD: Form WWO 046 Part IV Submission (Fresh/Flush)	0 days	Fri 3/3/23	Fri 3/3/23	498FS+21 days				
508	WSD: WSD Acknowledge Form WWO 046	6 days	Fri 3/3/23	Wed 8/3/23	507				
509	WSD: WSD Inspection with Testing to lead (Fresh/Fluhs)	12 days	Thu 9/3/23	Mon 20/3/23	508				
510	WSD: Cleansing/Disinfecting Water Tanks / Piping System (Fresh/Flush)	6 days	Tue 21/3/23	Sun 26/3/23	509				
511	WSD: Collection of Sample for Testing at Accredited Lab (Fresh/Flush)	12 days	Mon 27/3/23	Fri 7/4/23	510				
512	WSD:Accredited Lab Testing Report of Sample to WSD	12 days	Sat 8/4/23	Wed 19/4/23	511				
513	WSD: Vetting of Test Report by WSD	6 days	Thu 20/4/23	Tue 25/4/23	512				
514	WSD: Issue of WWO 046 Part V (Fresh/Flush)	0 days	Tue 25/4/23	Tue 25/4/23	513				
515	WSD: WSD Processing WW01005 Water Certification (Fresh/Flush)	6 days	Wed 26/4/23	Mon 1/5/23	514				
516	WSD: Issue by WSD WWO 1005 Water Certification (Fresh/Flush)	0 days	Mon 1/5/23	Mon 1/5/23	515				
517	EMSD LIFT Statutory Submission, Inspection and Approval	45 days	Wed 15/2/23	Fri 31/3/23					
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	518				
520	EMSD: EMSD Inspection to Lift Installation	14 days	Sat 4/3/23	Fri 17/3/23	519				
521	EMSD: Processing Lift Certificate (Form LE6)	14 days	Sat 18/3/23	Fri 31/3/23	520				
522	EMSD: Lift Issuance of Form 6 (Lift Certificate)	0 days	Fri 31/3/23	Fri 31/3/23	521				
523	HKE Transformer Final Inspection	120 days	Sat 30/7/22	Sat 26/11/22					
524	TX Room: Invite HKE For Transformer Room Inspection	7 days	Sat 30/7/22	Fri 5/8/22	296FF+100 days				
525	TX Room: Give Access to Transformer Room for HKE Contractor	0 days	Fri 5/8/22	Fri 5/8/22	524				
526	TX Room: Move-IN HKE Transformer Equipments	5 days	Sat 6/8/22	Wed 10/8/22	525				
527	TX Room: Install HKE Transformer, MEP Works & Testing	90 days	Thu 11/8/22	Tue 9/11/22	526				
528	TX Room: HKE Power Energization / Inspection	6 days	Wed 9/11/22	Mon 14/11/22	527				
529	TX Room: Metering Installation	12 days	Tue 15/11/22	Sat 26/11/22	528				
530	TX Room: HKE Power-ON Date	0 days	Sat 26/11/22	Sat 26/11/22	529				
531	DSD Drainage Completion Memo	65 days	Fri 30/6/23	Sat 2/9/23					
532	DSD: CCTV Survey Report on Completed Drainage	30 days	Fri 30/6/23	Sat 29/7/23	352FF+120 days				
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	532				Technical Audit
534	DSD: Completed Drainage System including TMC Inspection/Technical Audit by DSD	14 days	Sun 6/8/23	Sat 19/8/23	533				Technical Audit by DSD
535	DSD: Preparation of Drainage Connection Completion Memo by DSD	14 days	Sun 20/8/23	Sat 2/9/23	534				Completion Memo by DSD
536	DSD: Issue of Drainage Connection Completion Memo by DSD	0 days	Sat 2/9/23	Sat 2/9/23	535				Completion Memo by DSD
537	EPD Submission, Inspection and Approval	60 days	Wed 5/7/23	Sun 3/9/23					
538	EPD: License Application to EPD under APCO (Cap 311) for Generator Sets	0 days	Wed 5/7/23	Wed 5/7/23	336				
539	EPD: Vetting of Application by EPD under APCO (Cap 311) for Generator Sets	60 days	Thu 6/7/23	Sun 3/9/23	538				APCO (Cap 311) for Generator Sets
540	EPD: Approval from EPD under APCO (Cap 311) for Generator Sets Installation	0 days	Sun 3/9/23	Sun 3/9/23	539				Cap 311) for Generator Sets Installation
541	FSD VAC Statutory Submission, Inspection and Approval	150 days	Wed 20/7/22	Fri 16/12/22					
542	Preparation of FSD VAC Drawings and Submission to HEC	60 days	Wed 20/7/22	Sat 17/9/22	347FF+120 days				
543	HEC: Review and Approval	30 days	Sun 18/9/22	Mon 17/10/22	542				
544	Preparation of VAC Drawings and Submission to FSD	30 days	Tue 18/10/22	Wed 16/11/22	543				
545	FSD: Review and Approval	30 days	Thu 17/11/22	Fri 16/12/22	544				
546	FSD Statutory Submission, Inspection and Approval	91 days	Sun 15/1/23	Sat 15/4/23					
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	547				
549	FSD: Completion of FS Integration Test by NSC_BS for FS314/501	0 days	Wed 15/3/23	Wed 15/3/23	548				
550	FSD: Submit Form 213/314 & Form 501 Request for Inspection	0 days	Wed 15/3/23	Wed 15/3/23	549				
551	FSD: FSD Makes Arrangement for Inspection	7 days	Thu 16/3/23	Wed 22/3/23	550				
552	FSD: FSD Inspection	12 days	Thu 23/3/23	Mon 3/4/23	551				
553	FSD: Completion of FS Inspection	0 days	Mon 3/4/23	Mon 3/4/23	552				
554	FSD: FSD Processing FS Certificate Form 172	12 days	Tue 4/4/23	Sat 15/4/23	553				
555	FSD: Issue of Fire Services FS Certificate Form 172	0 days	Sat 15/4/23	Sat 15/4/23	554				
556	PRACTICAL COMPLETION	216 days	Sun 16/4/23	Fri 17/11/23					17 Nov '23
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	555				
559	BD: BD Inspection Date	15 days	Sun 7/5/23	Sun 21/5/23	558				

MASTER PROGRAMME
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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	Predecessors	Quarter	Oct	Nov	Dec
560	BD: Reinspection date with defects and rectification works	60 days	Mon 22/5/23	Thu 20/7/23	559				
561	BD: Obtain Occupation Permit (OP) from BD	1 day	Fri 21/7/23	Fri 21/7/23	560				
562	As-Built Drawings & Handover Documentation	120 days	Mon 1/5/23	Mon 28/8/23					
563	Prepare and Submit As-Built Drawings & Handover Documentation	45 days	Mon 1/5/23	Wed 14/6/23	555FF+60 days				
564	Review and Approval	45 days	Thu 15/6/23	Sat 29/7/23	563				
565	As-Built Drawings & Handover Documentation - Revision by MC	30 days	Sun 30/7/23	Mon 28/8/23	564				
566	Revised As-Built Drawings & Handover Documentation - Final Submission	0 days	Mon 28/8/23	Mon 28/8/23	565				
567	Completion of the Whole Contract Works	119 days	Sat 22/7/23	Fri 17/11/23					17 Nov '23
568	1st Client Inspection for Review and Comments	30 days	Sat 22/7/23	Sun 20/8/23	561				
569	Defects and Rectification works	60 days	Mon 21/8/23	Thu 19/10/23	568				
570	2nd Client Inspection	14 days	Fri 20/10/23	Thu 2/11/23	569				
571	Minor Defects Rectification Works and Final Inspection	15 days	Fri 3/11/23	Fri 17/11/23	570				
572	PRACTICAL COMPLETION	0 days	Fri 17/11/23	Fri 17/11/23	571				



ID	Task Name	Duration	Start	Finish	Predecessors	Oct	4th Quarter	Nov	Dec
1	19-83014 - Civil Works for No. 5 C.W. Intake and Cable Bridge at Lamma Power Station Extension	467 days	Fri 22/7/22	Tue 31/10/23					
2	No. 5 C.W. Intake	467 days	Fri 22/7/22	Tue 31/10/23					
3	Delivery of Precast No. 5 Intake Chamber	3 days	Fri 22/7/22	Sun 24/7/22					
4	Installation of Precast No. 5 Intake Chamber	2 days	Mon 25/7/22	Tue 26/7/22	3				
5	Prepare formation level for reinstall culvert	18 days	Wed 27/7/22	Sat 13/8/22	4				
6	Reinstate of culvert	7 days	Mon 15/8/22	Sun 21/8/22	5				
7	Reinstate of seawall block	28 days	Mon 22/8/22	Sun 18/9/22	6				
8	Backfill at East Side	20 days	Mon 19/9/22	Sat 8/10/22	7				
9	Reinstate of seawall coping	30 days	Thu 3/11/22	Fri 2/12/22	8FS+25 days				
10	Temporary backfill for access at east of Intake Chamber	10 days	Sat 3/12/22	Mon 12/12/22	9				
11	Handover back from erection contractor at Intake Road	1 day	Mon 15/5/23	Mon 15/5/23	10				
12	UU works and reinstatement of Intake Road	92 days	Tue 1/8/23	Tue 31/10/23	11				
13	Steel Parapet along seawall	46 days	Tue 18/4/23	Fri 2/6/23					
14	Delievery of steel parapet (Removed for Chamber installation portion)	1 day	Tue 18/4/23	Tue 18/4/23	13				
15	Installation of steel parapet (Removed for chamber installation portion)	7 days	Mon 29/5/23	Sun 4/6/23	14FS+40 days				
16	Removal of existing steel parapet for replacement	7 days	Mon 5/6/23	Sun 11/6/23	15				
17	Installation of steel parapet (Replacement)	21 days	Wed 11/10/23	Tue 31/10/23	16				
18	Steel Gantry Frame above Bar Screen Chamber	21 days	Tue 25/4/23	Mon 15/5/23					
19	Delivery of steel members	1 day	Sun 15/10/23	Sun 15/10/23	18				
20	Installation of gantry frame	14 days	Wed 18/10/23	Tue 31/10/23	19				
21	Bollard & Fender	245 days	Wed 1/3/23	Tue 31/10/23					
22	Confirmation and order of bollard and fender	1 day	Wed 1/3/23	Wed 1/3/23	21				
23	Fabrication and delivery of bollard & fender	100 days	Thu 2/3/23	Fri 9/6/23	22				
24	Installation of bollard (1 no.)	1 day	Sat 10/6/23	Sat 10/6/23	23				
25	Rebar fixing & Concreting	2 days	Mon 30/10/23	Tue 31/10/23	24				
26	Removal of existing fender	15 days	Sat 10/6/23	Sat 24/6/23	23				
27	Installation of fender	35 days	Wed 27/9/23	Tue 31/10/23	26				
28	In-situ Construction Work for Intake Chamber	438 days	Sat 20/8/22	Tue 31/10/23					
29	Backfilling Work between Pipepile and Intake Chamber External Wall	19 days	Sat 20/8/22	Wed 7/9/22					
33	Backfilling at Discharge Valve Chamber	10 days	Fri 9/9/22	Sun 18/9/22	29				
34	Installation of Concrete Block inside/ on intake chamber/ culvert	25 days	Tue 23/8/22	Fri 16/9/22	33				
35	Removal of Internal Strut/ King Post	28 days	Sat 20/8/22	Fri 16/9/22	34				
36	Dewatering in Chamber Internal Side	3 days	Tue 20/9/22	Thu 22/9/22	30,31,33				
37	Corrosion Protection of Rebar	8 days	Fri 23/9/22	Fri 30/9/22	36				
38	Construction of Intake Chamber External Wall to Level +5.70mPD	189 days	Sun 28/8/22	Sat 4/3/23					
39	Erection of Scaffolding Supporting Bracket	37 days	Sun 28/8/22	Mon 3/10/22					
44	Installation of Scaffolding	51 days	Sat 3/9/22	Sun 23/10/22					
45	Chamber Internal Side	51 days	Sat 3/9/22	Sun 23/10/22					
50	Chamber External Side	51 days	Sat 3/9/22	Sun 23/10/22					
55	Rebar Fixing & Formwork	58 days	Thu 8/9/22	Fri 4/11/22					
59	Concreting	18 days	Thu 29/9/22	Sun 16/10/22					
63	Wall construction at Penstock Chamber	132 days	Mon 24/10/22	Sat 4/3/23					
72	Excavation and installation of CW culvert pipes	45 days	Sat 15/10/22	Mon 28/11/22					
76	On grade slab & plinths construction at west of Intake Chamber	14 days	Tue 29/11/22	Mon 12/12/22	75				
77	Construction of trash pit & RC footings for hoist support	350 days	Wed 16/11/22	Tue 31/10/23					
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				
79	RC works for trash pit & hoist support footings	30 days	Mon 6/2/23	Tue 7/3/23	78,314FF				
80	Construction of sump pit (VO) & eastern portion of flood wall "I"	20 days	Wed 8/3/23	Mon 27/3/23	79				
81	Backfill to ground level at south of Intake Chamber	4 days	Tue 28/3/23	Fri 31/3/23	80				
82	Handover to TDK for installation of hoist	37 days	Sat 1/4/23	Sun 7/5/23	81				
83	On grade slab & plinths construction at south of Intake Chamber	45 days	Sun 17/9/23	Tue 31/10/23	82				
84	North Chamber (L12)	91 days	Fri 23/9/22	Thu 22/12/22					
149	W20 (Seal up L12 Box-out openings at discharge valve chamber)	15 days	Wed 15/3/23	Wed 29/3/23					
150	Handover to Paul Y for Sealing up work	1 day	Wed 15/3/23	Wed 15/3/23	149				
151	Rebar fixing, Formwork, Concreting and Removal of Formwork	14 days	Thu 16/3/23	Wed 29/3/23	150				
152	L12 Penstock Chamber	18 days	Mon 10/4/23	Thu 27/4/23					
153	Handover to Paul Y for additional RC curb	1 day	Mon 10/4/23	Mon 10/4/23	152				
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	156				
158	L12 Bar Screen Chamber	95 days	Fri 24/2/23	Mon 29/5/23					
159	Drilled in anchor bolt at concrete recess of bar screen chamber	7 days	Fri 24/2/23	Thu 2/3/23	158				
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	165				
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 Chamber)	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	168				
170	L12 2nd Bar Screen Chamber and culvert	65 days	Mon 27/3/23	Tue 30/5/23					
171	Drilled in anchor bolt at concrete recess of bar screen chamber	6 days	Mon 27/3/23	Sat 1/4/23	170				
172	Form Access Panel and pump out remaining water inside culvert	4 days	Mon 3/4/23	Thu 6/4/23	171				
173	Observation 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	174				
176	Grouting	6 days	Sun 23/4/23	Fri 28/4/23	175				

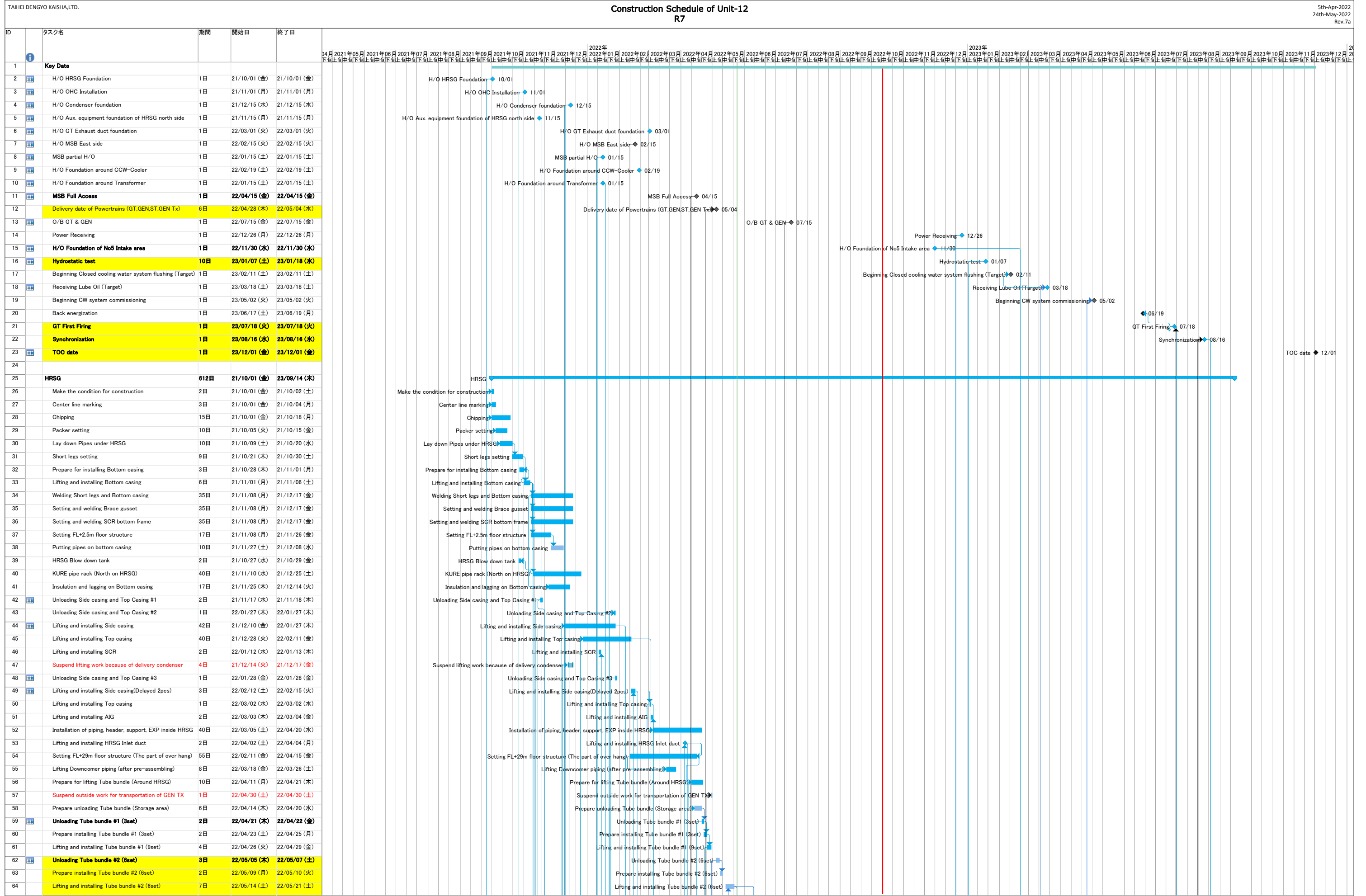
Project: 19-83014 - No. 5 Intake and Cable Br
 Date: 28 May 2023
 Rev. 10 - Programme for No. 5 C.W. Intake

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

ID	Task Name	Duration	Start	Finish	Predecessors	4th Quarter		
						Oct	Nov	Dec
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	Centre Chamber (Spare)	124 days	Tue 25/10/22	Sat 25/2/23				
238	W20 (Seal up spare Box-out openings at discharge valve chamber)	15 days	Sat 15/4/23	Sat 29/4/23				
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	Spare Penstock Chamber	11 days	Wed 31/5/23	Sat 10/6/23				
242	Drilled in rebar	7 days	Wed 31/5/23	Tue 6/6/23	156FS+40 day			
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	Spare Bar Screen Chamber	65 days	Sun 2/4/23	Mon 5/6/23				
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			
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 Int	1 day	Fri 9/6/23	Fri 9/6/23	169,253			
255	Removal of temporary water gate	1 day	Sun 15/10/23	Sun 15/10/23	256			
256	Spare 2nd Bar Screen Chamber and culvert	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	South Chamber (L13)	130 days	Ved 23/11/22	Sat 1/4/23				
320	L13 Penstock Chamber	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			

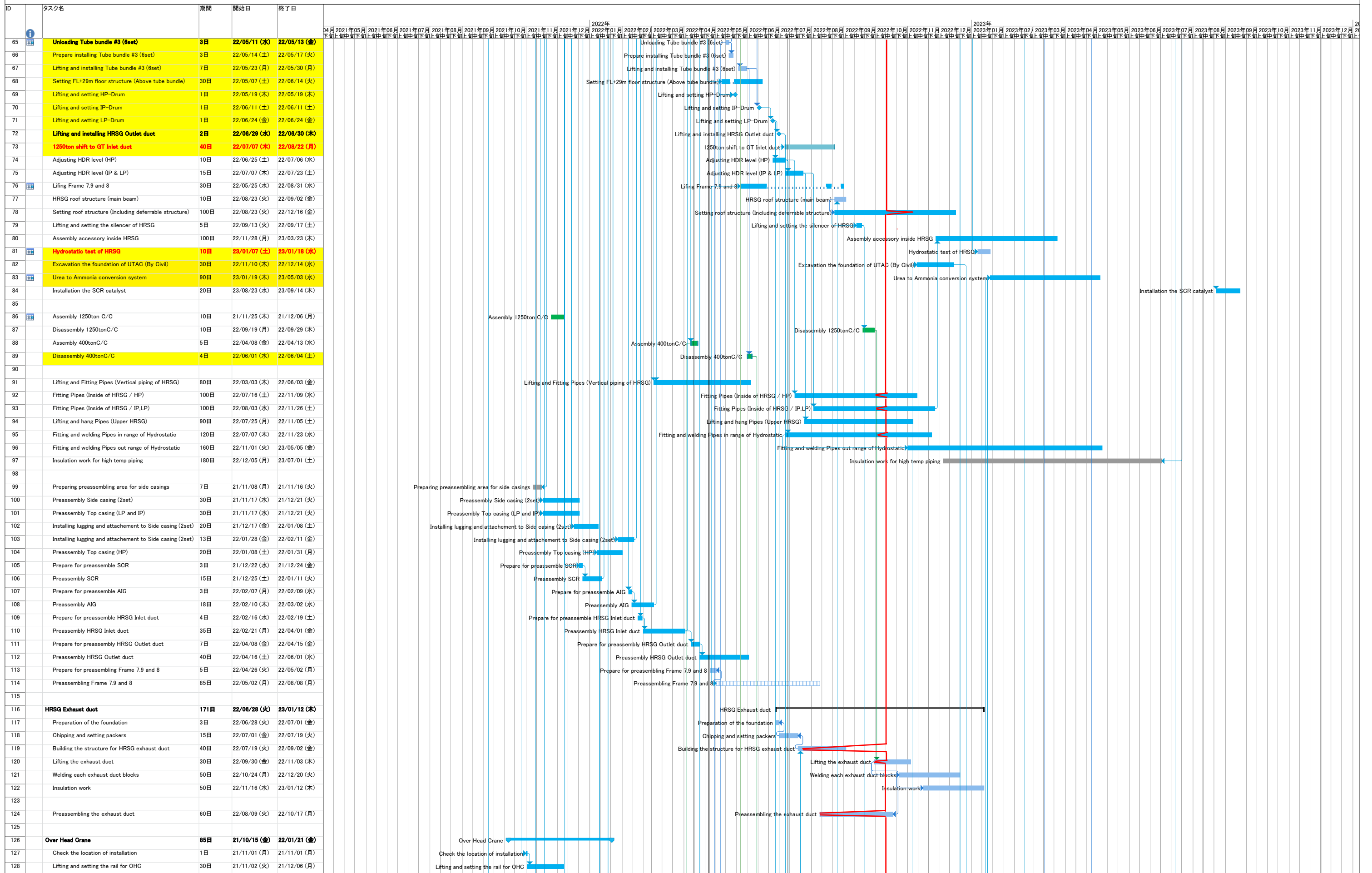
Project: 19-83014 - No. 5 Intake and Cable Br
 Date: 28 May 2023
 Rev. 10 - Programme for No. 5 C.W. Intake

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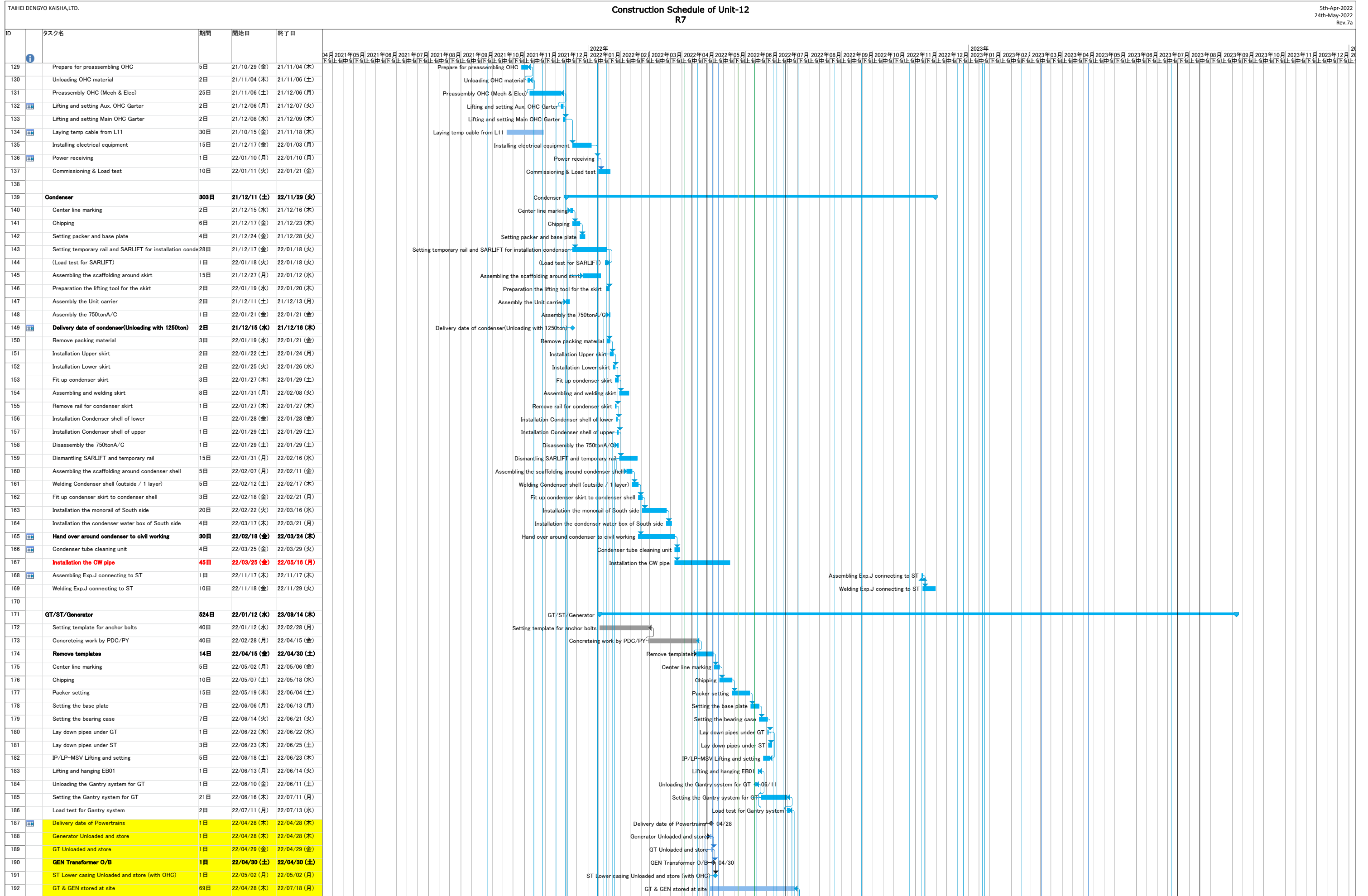
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Construction Schedule of Unit-12
R7



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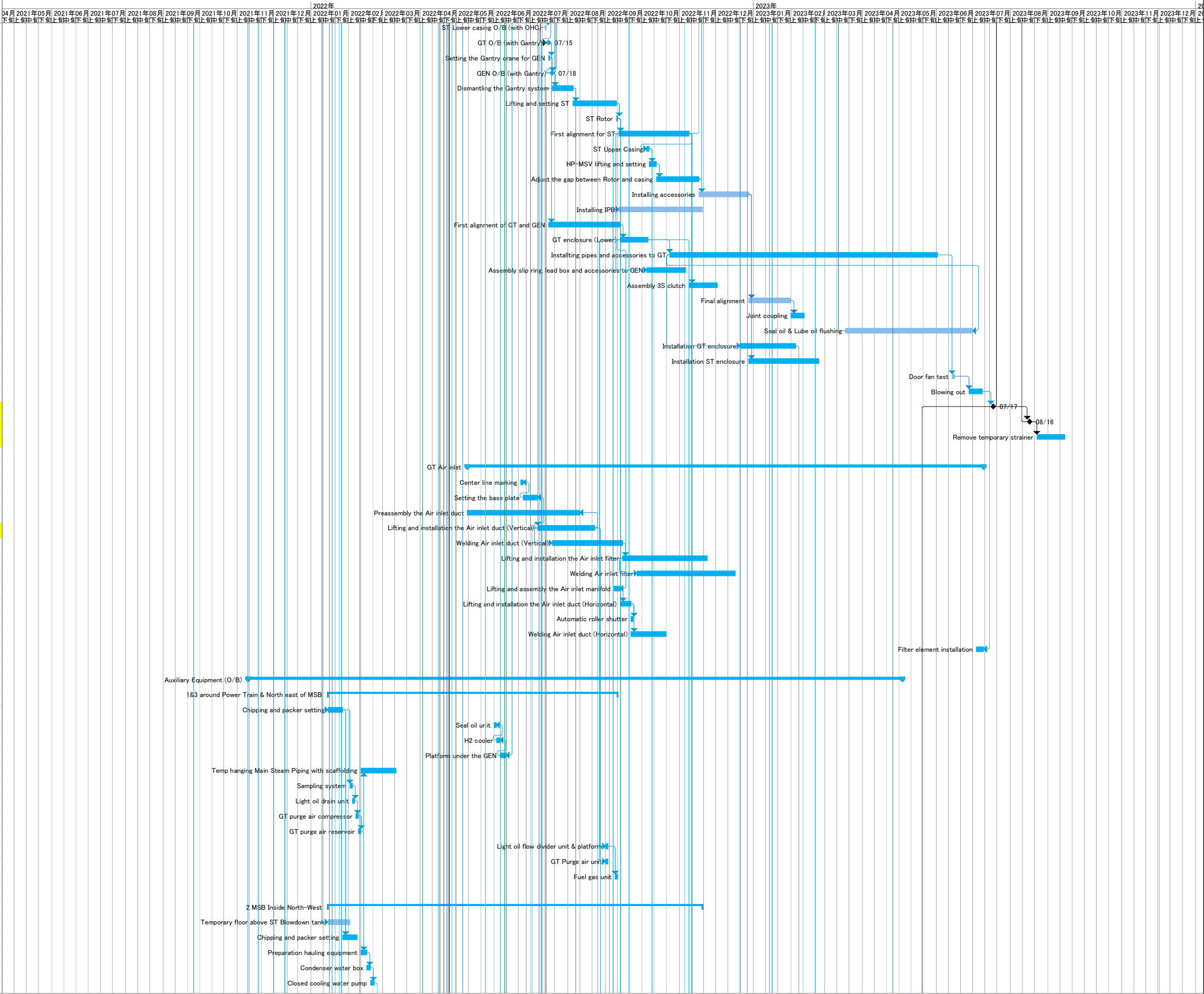
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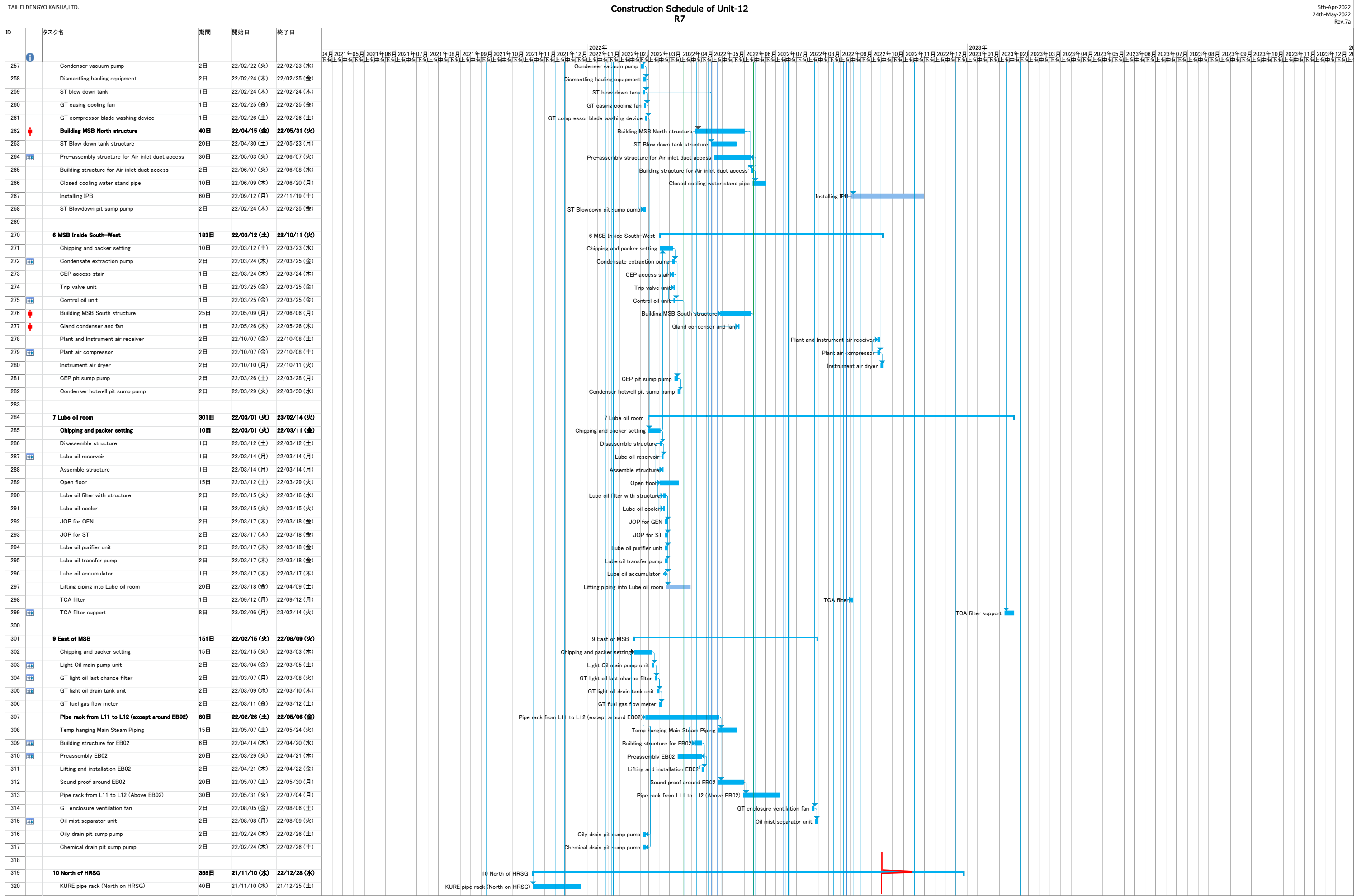
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ID	タスク名	期間	開始日	終了日
193	ST Lower casing O/B (with OHC)	1日	22/07/13 (水)	22/07/13 (水)
194	GT O/B (with Gantry)	1日	22/07/15 (金)	22/07/15 (金)
195	Setting the Gantry crane for GEN	1日	22/07/16 (土)	22/07/16 (土)
196	GEN O/B (with Gantry)	1日	22/07/18 (月)	22/07/18 (月)
197	Dismantling the Gantry system	15日	22/07/19 (火)	22/08/04 (木)
198	Lifting and setting ST	31日	22/08/05 (金)	22/09/09 (金)
199	ST Rotor	1日	22/09/10 (土)	22/09/10 (土)
200	First alignment for ST	50日	22/09/12 (月)	22/11/08 (火)
201	ST Upper Casing	2日	22/10/05 (水)	22/10/06 (木)
202	HP-MSV lifting and setting	5日	22/10/07 (金)	22/10/12 (水)
203	Adjust the gap between Rotor and casing	30日	22/10/13 (木)	22/11/16 (水)
204	Installing accessories	35日	22/11/17 (木)	22/12/27 (火)
205	Installing IPB	60日	22/09/12 (月)	22/11/19 (土)
206	First alignment of GT and GEN	50日	22/07/16 (土)	22/09/12 (月)
207	GT enclosure (Lower)	20日	22/09/13 (火)	22/10/05 (水)
208	Installing pipes and accessories to GT	190日	22/10/24 (月)	23/06/01 (木)
209	Assembly slip ring, lead box and accessories to GEN	28日	22/10/05 (水)	22/11/05 (土)
210	Assembly 3S clutch	20日	22/11/09 (水)	22/12/01 (木)
211	Final alignment	30日	22/12/28 (水)	23/01/31 (火)
212	Joint coupling	10日	23/02/01 (水)	23/02/11 (土)
213	Seal oil & Lube oil flushing	90日	23/03/18 (土)	23/06/30 (金)
214	Installation GT enclosure	40日	22/12/21 (水)	23/02/04 (土)
215	Installation ST enclosure	50日	22/12/28 (水)	23/02/23 (木)
216	Door fan test	2日	23/06/14 (水)	23/06/15 (木)
217	Blowing out	10日	23/06/28 (水)	23/07/08 (土)
218	First Fire	1日	23/07/17 (月)	23/07/17 (月)
219	Synchronization	1日	23/08/16 (水)	23/08/16 (水)
220	Remove temporary strainer	20日	23/08/23 (水)	23/09/14 (木)
221				
222	GT Air inlet	365日	22/05/10 (火)	23/07/10 (月)
223	Center line marking	2日	22/06/23 (木)	22/06/25 (土)
224	Setting the base plate	10日	22/06/25 (土)	22/07/07 (木)
225	Preassembly the Air inlet duct	80日	22/05/10 (火)	22/08/10 (水)
226	Lifting and installation the Air inlet duct (Vertical)	40日	22/07/07 (木)	22/08/22 (月)
227	Welding Air inlet duct (Vertical)	50日	22/07/19 (水)	22/09/14 (水)
228	Lifting and installation the Air inlet filter	60日	22/09/15 (木)	22/11/23 (水)
229	Welding Air inlet filter	70日	22/09/27 (火)	22/12/16 (金)
230	Lifting and assembly the Air inlet manifold	4日	22/09/08 (木)	22/09/13 (火)
231	Lifting and installation the Air inlet duct (Horizontal)	8日	22/09/13 (火)	22/09/21 (水)
232	Automatic roller shutter	2日	22/09/22 (木)	22/09/23 (金)
233	Welding Air inlet duct (Horizontal)	25日	22/09/22 (木)	22/10/20 (木)
234	Filter element installation	5日	23/07/04 (火)	23/07/10 (月)
235				
236	Auxiliary Equipment (O/B)	463日?	21/11/10 (水)	23/05/03 (水)
237	1&3 around Power Train & North east of MSB	205日	22/01/15 (土)	22/09/10 (土)
238	Chipping and packer setting	10日	22/01/15 (土)	22/01/26 (水)
239	Seal oil unit	2日	22/06/01 (水)	22/06/03 (金)
240	H2 cooler	2日	22/06/03 (金)	22/06/06 (月)
241	Platform under the GEN	5日	22/06/06 (月)	22/06/11 (土)
242	Temp hanging Main Steam Piping with scaffolding	25日	22/02/11 (金)	22/03/11 (金)
243	Sampling system	2日	22/02/02 (水)	22/02/03 (木)
244	Light oil drain unit	2日	22/02/04 (金)	22/02/05 (土)
245	GT purge air compressor	2日	22/02/07 (月)	22/02/08 (火)
246	GT purge air reservoir	2日	22/02/09 (水)	22/02/10 (木)
247	Light oil flow divider unit & platform	2日	22/09/01 (木)	22/09/02 (金)
248	GT Purge air unit	2日	22/09/01 (木)	22/09/02 (金)
249	Fuel gas unit	2日	22/09/09 (金)	22/09/10 (土)
250				
251	2 MSB Inside North-West	265日?	22/01/15 (土)	22/11/19 (土)
252	Temporary floor above ST Blowdown tank	15日	22/01/15 (土)	22/02/01 (火)
253	Chipping and packer setting	10日	22/01/27 (木)	22/02/07 (月)
254	Preparation hauling equipment	4日	22/02/11 (金)	22/02/15 (火)
255	Condenser water box	3日	22/02/16 (水)	22/02/18 (金)
256	Closed cooling water pump	2日	22/02/19 (土)	22/02/21 (月)

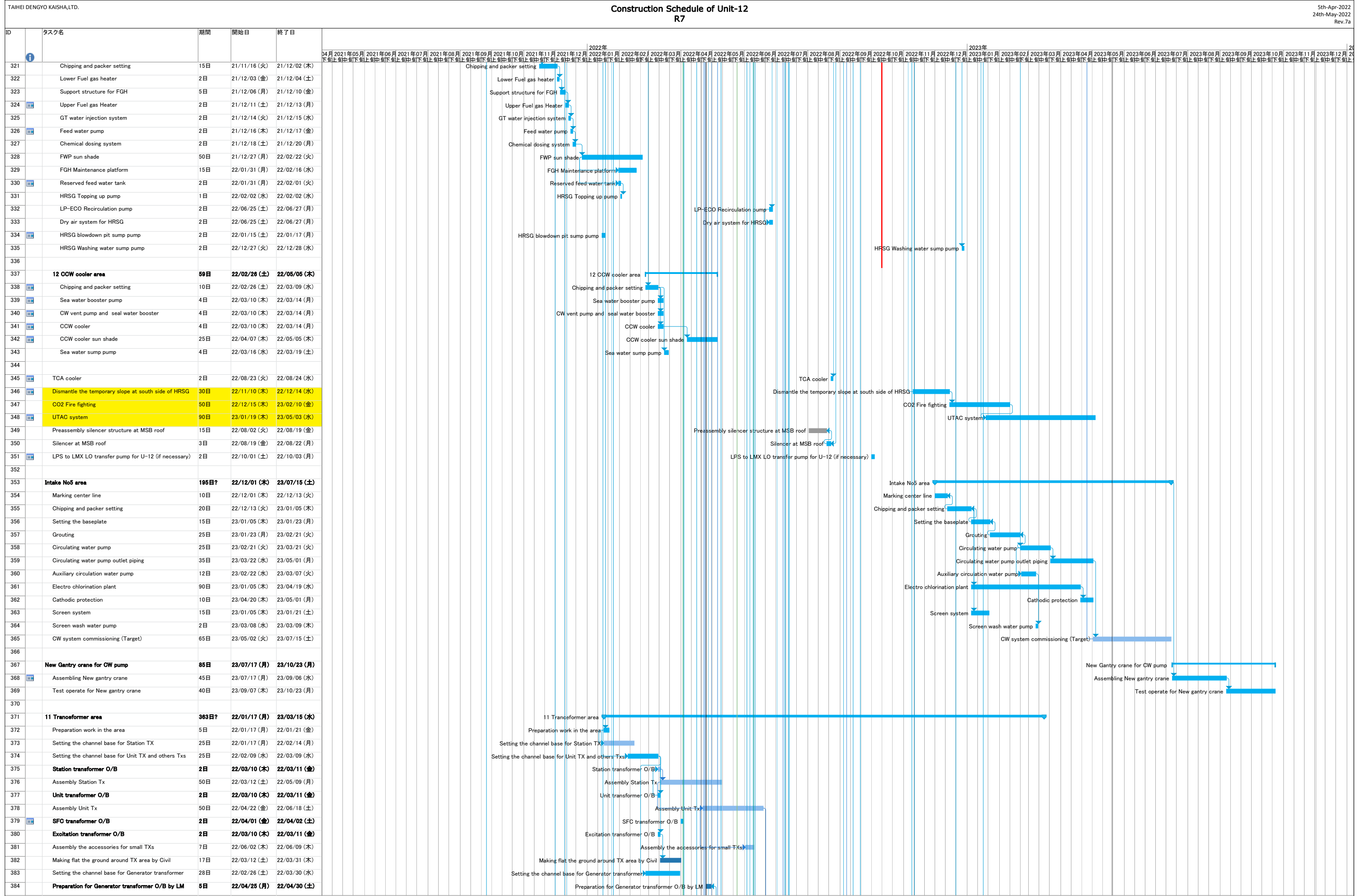


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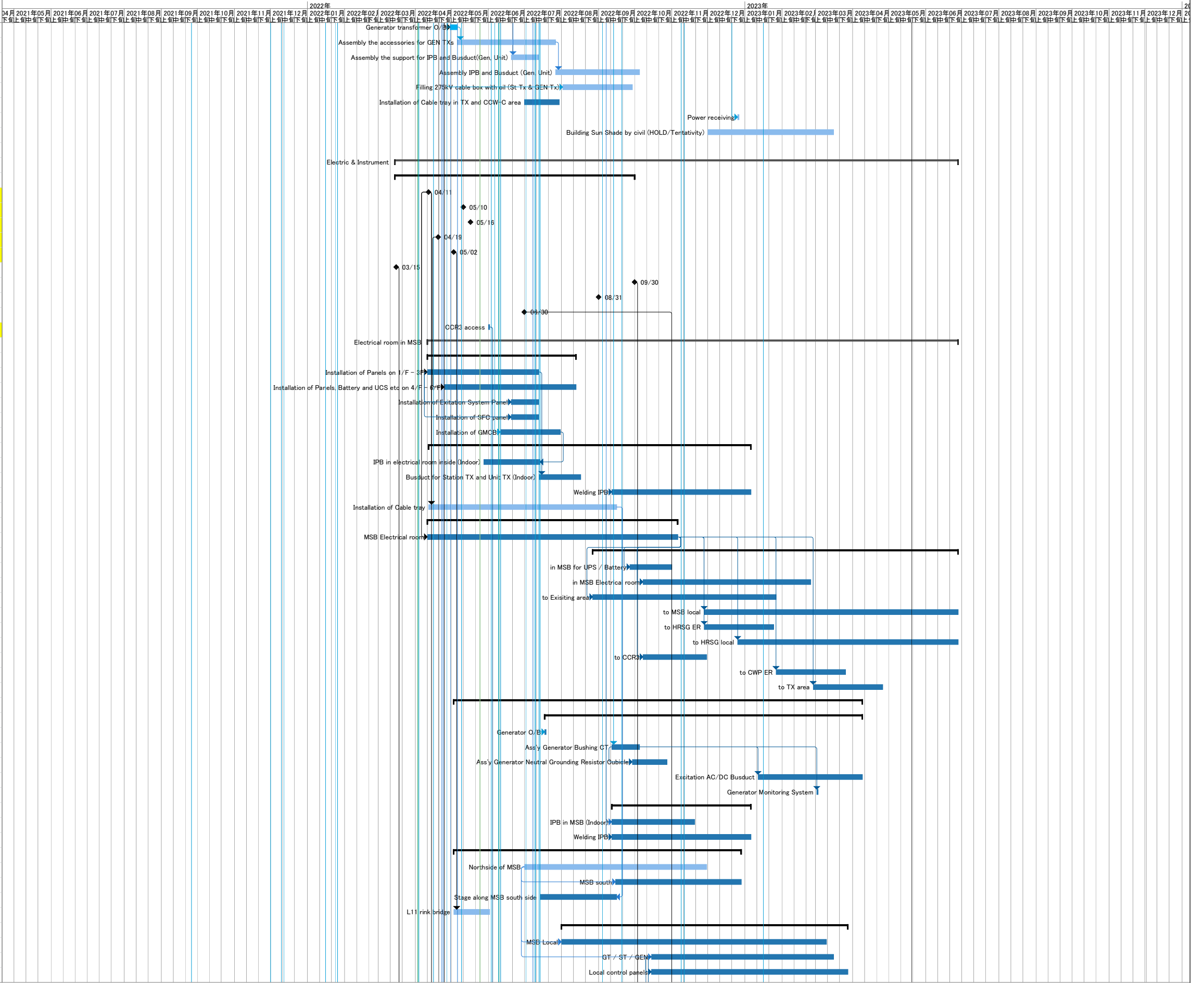


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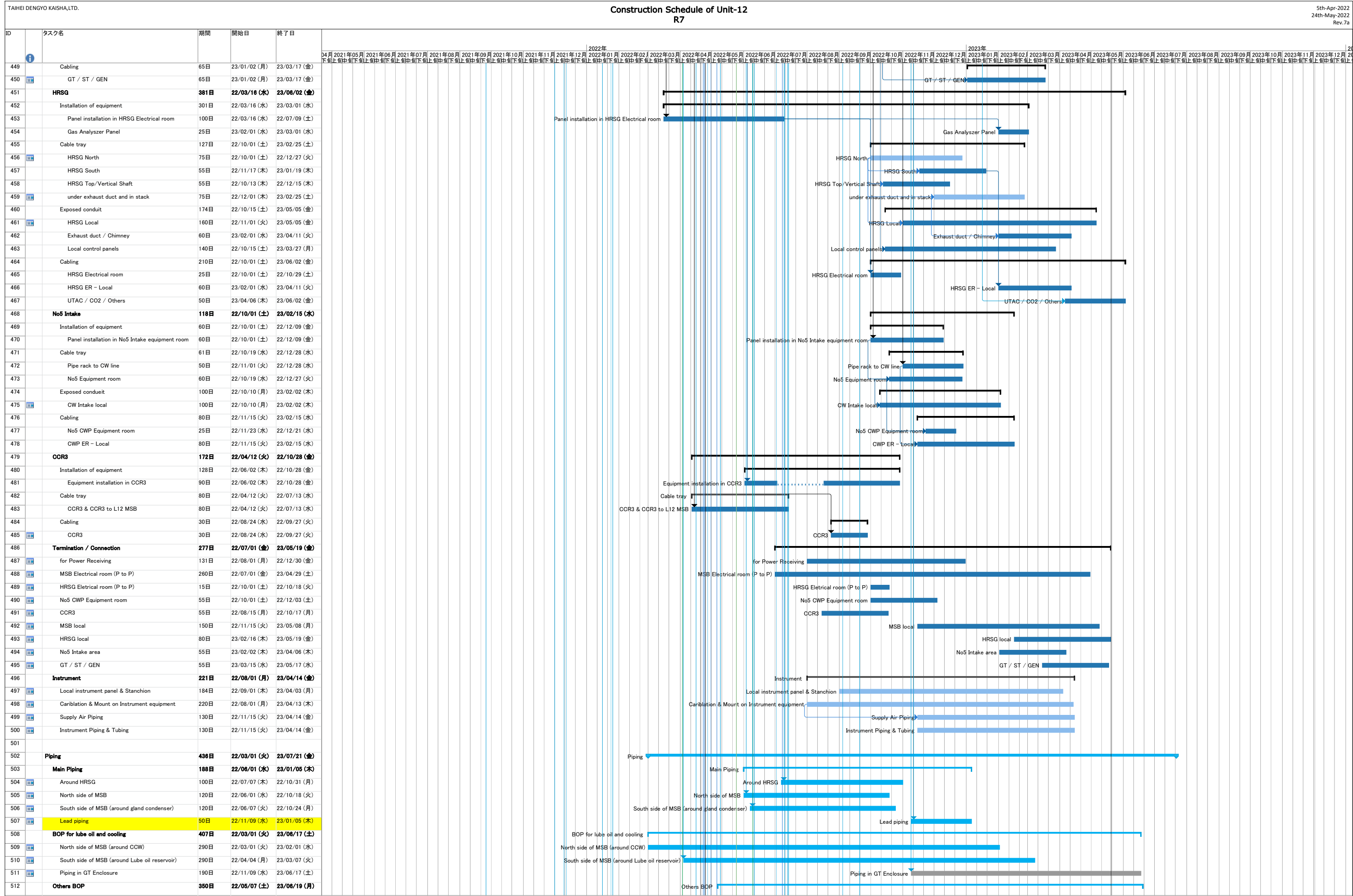
Construction Schedule of Unit-12
R7

ID	タスク名	期間	開始日	終了日
385	Generator transformer O/B	5日	22/04/30 (土)	22/05/05 (木)
386	Assembly the accessories for GEN TXs	70日	22/05/06 (金)	22/07/26 (火)
387	Assembly the support for IPB and Busduct(Gen. Unit)	20日	22/06/20 (月)	22/07/12 (火)
388	Assembly IPB and Busduct (Gen. Unit)	60日	22/07/27 (水)	22/10/04 (火)
389	Filling 275kV cable box with oil (St Tx & GEN Tx)	50日	22/08/02 (火)	22/09/28 (水)
390	Installation of Cable tray in TX and CCW-C area	25日	22/07/01 (金)	22/07/29 (金)
391	Power receiving	1日	22/12/26 (月)	22/12/26 (月)
392	Building Sun Shade by civil (HOLD/Tentativity)	90日	22/12/01 (木)	23/03/15 (水)
393				
394	Electric & Instrument	403日	22/03/15 (火)	23/08/27 (火)
395	Handover date	172日	22/03/15 (火)	22/09/30 (金)
396	Electrical room 1/F - 3/F	1日	22/04/11 (月)	22/04/11 (月)
397	Electrical room 4/F	1日	22/05/10 (火)	22/05/10 (火)
398	Electrical room 5/F	1日	22/05/18 (月)	22/05/18 (月)
399	Electrical room 6/F	1日	22/04/19 (火)	22/04/19 (火)
400	Link bridge	1日	22/05/02 (月)	22/05/02 (月)
401	HRSO Electrical room (HOLD/Tentativity)	1日	22/03/15 (火)	22/03/15 (火)
402	No5 Intake equipment room (HOLD/Tentativity)	1日	22/09/30 (金)	22/09/30 (金)
403	Pipe rack around No5 Intake	1日	22/08/31 (水)	22/08/31 (水)
404	Pipe rack from Chimney to No5 Intake	1日	22/06/30 (木)	22/06/30 (木)
405	CCR3 access	1日	22/06/01 (木)	22/06/01 (木)
406	Electrical room in MSB	380日	22/04/11 (月)	23/08/27 (火)
407	Installation of equipment	107日	22/04/11 (月)	22/08/12 (金)
408	Installation of Panels on 1/F - 3F	80日	22/04/11 (月)	22/07/12 (火)
409	Installation of Panels, Battery and UCS etc on 4/F	95日	22/04/25 (月)	22/08/12 (金)
410	Installation of Excitation System Panel	20日	22/06/20 (月)	22/07/12 (火)
411	Installation of SFC panel	20日	22/06/20 (月)	22/07/12 (火)
412	Installation of GMCB	43日	22/06/11 (土)	22/07/30 (土)
413	IPB & Busduct	231日	22/04/12 (火)	23/01/05 (木)
414	IPB in electrical room inside (Indoor)	40日	22/05/28 (土)	22/07/13 (水)
415	Busduct for Station TX and Unit TX (Indoor)	30日	22/07/13 (水)	22/08/16 (火)
416	Welding IPB	100日	22/09/12 (月)	23/01/05 (木)
417	Installation of Cable tray	135日	22/04/12 (火)	22/09/15 (木)
418	Cable tray	180日	22/04/11 (月)	22/11/05 (土)
419	MSB Electrical room	180日	22/04/11 (月)	22/11/05 (土)
420	Cabling	261日	22/08/27 (土)	23/06/27 (火)
421	in MSB for UPS / Battery	30日	22/09/27 (火)	22/10/31 (月)
422	in MSB Electrical room	120日	22/10/08 (土)	23/02/24 (金)
423	to Existing area	131日	22/08/27 (土)	23/01/26 (木)
424	to MSB local	182日	22/11/28 (月)	23/06/27 (火)
425	to HRSO ER	50日	22/11/28 (月)	23/01/24 (火)
426	to HRSO local	158日	22/12/26 (月)	23/06/27 (火)
427	to CCR3	45日	22/10/08 (土)	22/11/29 (火)
428	to CWP ER	50日	23/01/27 (金)	23/03/25 (土)
429	to TX area	50日	23/02/27 (月)	23/04/25 (火)
430	MSB	293日	22/05/03 (火)	23/04/08 (土)
431	Installation of equipment	228日	22/07/18 (月)	23/04/08 (土)
432	Generator O/B	1日	22/07/18 (月)	22/07/18 (月)
433	Ass'y Generator Bushing CT	20日	22/09/12 (月)	22/10/04 (火)
434	Ass'y Generator Neutral Grounding Resistor Cubicle	25日	22/09/29 (木)	22/10/27 (木)
435	Excitation AC/DC Busduct	75日	23/01/12 (木)	23/04/08 (土)
436	Generator Monitoring System	1日	23/03/02 (木)	23/03/02 (木)
437	IPB & Busduct	100日	22/09/12 (月)	23/01/05 (木)
438	IPB in MSB (Indoor)	60日	22/09/12 (月)	22/11/19 (土)
439	Welding IPB	100日	22/09/12 (月)	23/01/05 (木)
440	Cable tray	206日	22/05/03 (火)	22/12/28 (水)
441	Northside of MSB	130日	22/07/01 (金)	22/11/29 (火)
442	MSB south	90日	22/09/15 (木)	22/12/28 (水)
443	Stage along MSB south side	55日	22/07/14 (木)	22/09/15 (木)
444	L11 rink bridge	26日	22/05/03 (火)	22/06/01 (水)
445	Exposed conduit piping	205日	22/08/01 (月)	23/03/27 (月)
446	MSB Local	190日	22/08/01 (月)	23/03/09 (木)
447	GT / ST / GEN	130日	22/10/15 (土)	23/03/15 (水)
448	Local control panels	140日	22/10/15 (土)	23/03/27 (月)



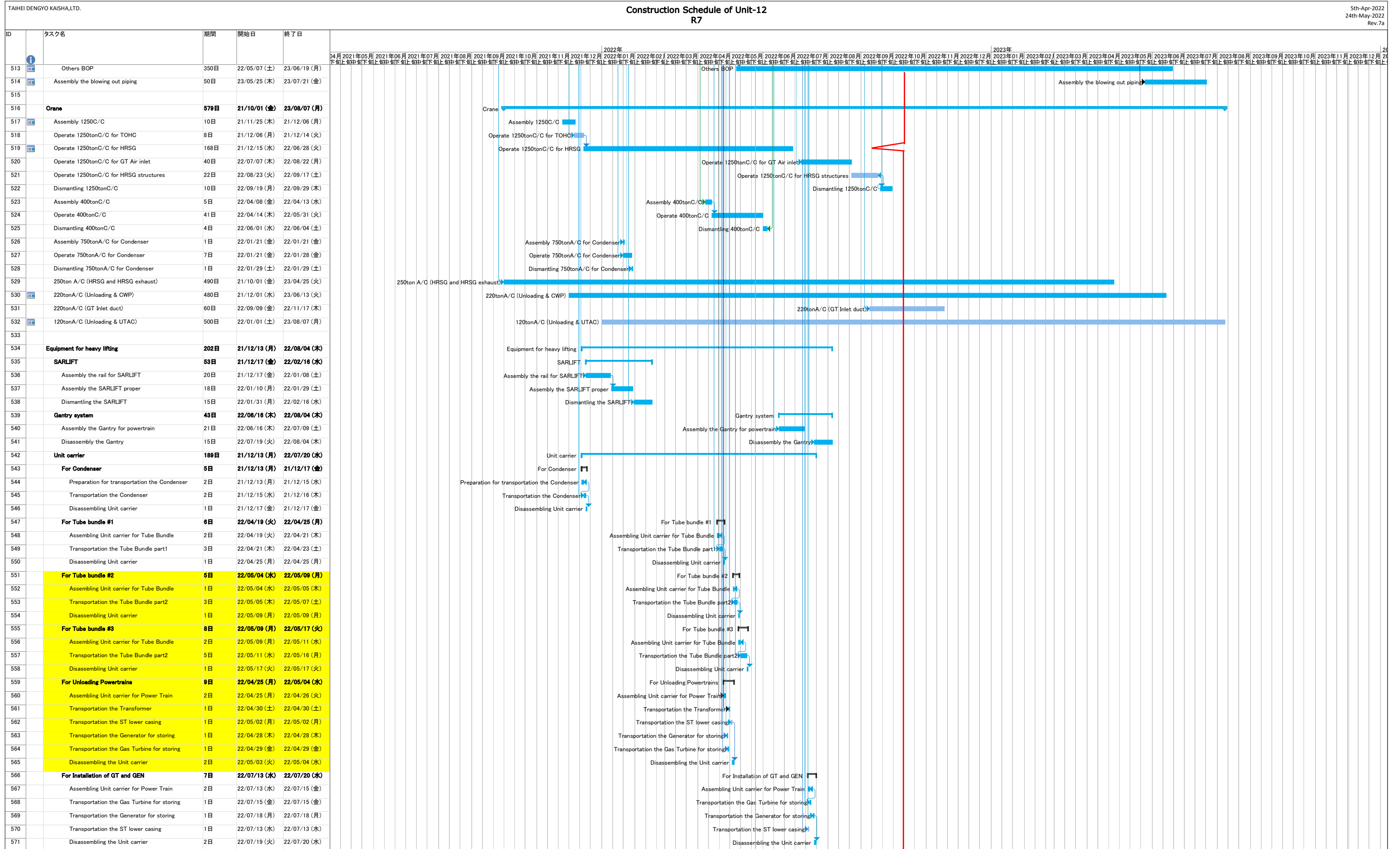
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