環境保護署

Contract No. EP/SP/66/12 Integrated Waste Management Facilities, Phase 1 18th Quarterly EM&A Report



吉寶西格斯-振華聯營公司 KEPPEL SEGHERS - ZHEN HUA JOINT VENTURE

Quarterly EM&A Report No.18 (Period from 1 October to 31 December 2022)

(Clause 3.3, Further Environmental Permit FEP-01/429/2012/A)

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Revision History

Α	First Submission	20 January 2023
Rev.	DESCRIPTION OF MODIFICATION	DATE

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EXECUTIVE SUMMARY

- A1. The Project, Integrated Waste Management Facility (IWMF), is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO) and is currently governed by a Further Environmental Permit (FEP No. FEP-01/429/2012/A) for the construction and operation of the Project.
- A2. In accordance with the Updated Environmental Monitoring and Audit (EM&A) Manual for the Project, EM&A works for marine water quality, noise, waste management and ecology should be carried out by Environmental Team (ET), Acuity Sustainability Consulting Limited (ASCL), during the construction phase of the Project.
- A3. This is the 18th Quarterly EM&A Report, prepared by ASCL, for the Project summarizing and concluding the monitoring results and audit findings of the EM&A programme at and around Shek Kwu Chau (SKC) during the reporting period from 1 October 2022 to 31 December 2022.
- A4. The EM&A works for construction noise, water quality, construction waste, coral, marine mammal and White-Bellied Sea Eagle (WBSE) were conducted during the reporting period in accordance with the Updated EM&A Manual.
- A5. Weekly site inspections of the construction works were carried out by ET to audit the mitigation measures implementation status. Monthly joint site inspections were carried out by ET and IEC.

1. BASIC PROJECT INFORMATION

- 1.1. The Reporting Scope
- 1.1.1 This is the 18^h Quarterly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 October 2022 to 31 December 2022.
- 1.2. Project Organization
- 1.2.2 The Project Organization structure for Construction Phase is presented in **Figure 1.1**.

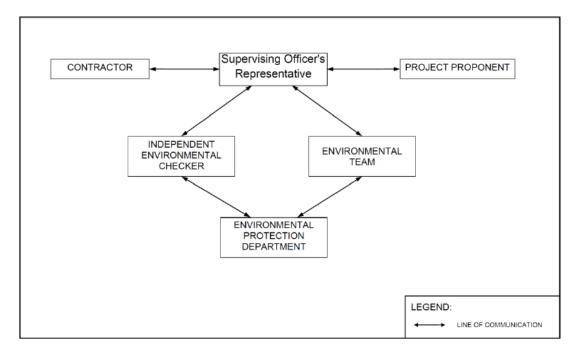


Figure 1.1 Project Organization Chart

1.2.3 Contact details of the key personnel are presented in **Table 1.1** below:

Table 1.1 Contact Details of Key Fersonnei					
Party	Position	Name	Telephone no.		
Environmental Protection Department	Project Proponent	Cheng Tak-Kuen	2594-6111		
Keppel Seghers – Zhen Hua Joint Venture	Project Manager	Kenny Yu	2192-0606		
Acuity Sustainability Consulting Limited	Environmental Team Leader	F.C. Tsang	2698-6833		
ERM-Hong Kong, Limited	Independent Environmental Checker	Mandy To	2271-3000		

Table 1.1 Contact	Details of Key	Personnel
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1.3. Summary of Construction Works

1.3.1 Details of the major construction activities undertaken in this reporting period are shown in **Table 1.2** below. The construction programme is presented in **Appendix A**.

Table 1.2 Summary of the Construction Activities Undertaken during the
Reporting Period

Location of works	Construction activities undertaken	Remarks on progress
Reclamation area	Reclamation works	On-going
	• Installation of Instrumentation	• On-going
	• Site Investigation works for foundation	• On-going
	• Foundation works (including Driven H Pile and Socketed H Pile)	• On-going
	• Pile cap construction	• On-going
	• Structural steel work	• On-going
Seawall portion	Installation of Chinese Pod	On-going
	• Caisson extension works, from +3mPD to +6mPD, at Seawall A and B	• On-going
	• Construction of wave wall along the vertical seawall	On-going

1.3.2 The status for all environmental aspects is presented in **Table 1.3**.

Table 1.3 Summary of Status for Key Environmental Aspects under the UpdatedEM&A Manual

Parameters	Status
Water Quality	
Baseline Monitoring under Updated EM&A Manual and Detailed Plan on DCM	The baseline water quality monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under FEP Condition 3.4
Impact Monitoring	On-going
Regular DCM Monitoring	All DCM was completed on 14 October 2020, regular DCM monitoring for further 4 weeks (i.e from 16 October 2020 to 14 November 2020) was completed according to the approved Detailed Plan on Deep Cement Mixing
Initial Intensive DCM Monitoring	Conducted from 11 February 2019 to 10 March 2019, had not been resumed since there was no DCM related parameter exceeding the AL/LL.
Baseline Water Quality of wet season	Completed over 13 August 2018 to 7 September 2018
Noise Develies Manitaning	The breather main manifesting 1/1 1 / 11
Baseline Monitoring	The baseline noise monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under FEP Condition 3.4
Impact Monitoring	On-going
Waste Management	
Mitigation Measures in Waste Monitoring Plan	On-going
Coral	
Pre-translocation Survey and Coral Mapping	The Coral Translocation Plan was submitted and approved by EPD under EP Condition 2.12
Coral Translocation	Completed on 28 March 2018
Post-Translocation Coral Monitoring	Survey affected by missing of translocated and tagged coral colonies after typhoons in September 2018, completed on 28 March 2019.
Pre-construction Coral Survey and Tagging	Completed on 26 June 2018
Tagged Coral Monitoring	Survey obstructed due to missing of tagged coral colonies after typhoons in September 2018
Coral Survey and Re- tagging	Re-tagging at Indirect Impact Site was conducted on 23 November and Re-tagging at Control Site was conducted on 3 December 2018.
Post Re-tagging Coral Quarterly Monitoring	On-going
Marine Mammal	
Baseline Monitoring	The baseline marine mammal monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under FEP Condition 3.4
Impact Monitoring	On-going
Land-based Theodolite Tracking	30 days of theodolite surveys were started on 21 Feb 2019 and completed in May 2019.

Parameters	Status
Passive Acoustic	30 days of PAM surveys were started on 1 May 2019 and
Monitoring	completed at the end of May 2019.
White-bellied Sea Eagle	
Baseline Monitoring	The baseline WBSE monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under FEP Condition 3.4
Impact Monitoring	On-going, Incubation activity was recorded during the monitoring on 29 December 2022, the frequency of impact monitoring will changed to weekly monitoring starting from January 2023.
Environmental Audit	
Site Inspection covering Measures of Air Quality, Noise Impact, Water Quality, Waste, Ecological Quality, Fisheries, Landscape and Visual	On-going
Mitigation Measures in Marine Mammal Watching Plan (MMWP)	Installation of caisson No.19 was completed on 18 March 2021, which the reclamation area had been totally enclosed by permanent structure. Floating type silt curtain at marine access was removed on 18 March 2021. No enclosed area shall be formed by deployment of silt curtain for the remaining works programme.
Mitigation Measures in Detailed Monitoring Programme on Finless Porpoise (DMPFP)	Installation of caisson No.19 was completed on 18 March 2021, which the reclamation area had been totally enclosed by permanent structure. Floating type silt curtain at marine access was removed on 18 March 2021. No enclosed area shall be formed by deployment of silt curtain for the remaining works programme.
Mitigation Measures in Vessel Travel Details	On-going
Daily Site Audit and Monitoring for Dredging Work	Completed

- 1.3.3 Other than the EM&A works by ET, environmental briefings, trainings and regular environmental management meetings were conducted, in order to enhance environmental awareness and closely monitor the environmental performance of the contractors.
- 1.3.4 The EM&A programme has been implemented in accordance with the recommendations presented in the approved EIA Report and the Updated EM&A Manual. A summary of updated implementation status of the environmental mitigation measures for the construction phase of the Project during the reporting period is provided in **Appendix B**.

2. MARINE WATER QUALITY MONITORING

- 2.1 Water Quality Parameters
- 2.1.1 Measurement of Dissolved Oxygen (DO), Turbidity, Suspended Solids (SS), Salinity and pH have been undertaken at the eleven monitoring stations during general water quality monitoring.
- 2.1.2 DO, temperature, salinity, turbidity and pH were measured in-situ and the SS was assayed in a HOKLAS laboratory.
- 2.1.3 In associate with the water quality parameters, other relevant data were also measured, such as monitoring location/position, time, water depth, sampling depth, tidal stages, weather conditions and any special phenomena or work underway nearby were also recorded.
- 2.1.4 Impact water quality monitoring was conducted 3 days per week in the reporting period. All parameters were monitored during mid-flood and mid-ebb tides at three water depths for water quality monitoring. The interval between two sets of monitoring has not been less than 36 hours.
- 2.1.5 **Table 2.1** summarizes the monitoring parameters, frequency and duration of the impact water quality monitoring.

Parameter, unit	Frequency	No. of Depths
 Water Depth(m) Temperature(°C) Salinity(ppt) pH (pH unit) Dissolved Oxygen (DO)(mg/L and % of saturation) Turbidity(NTU) Suspended Solids (SS), mg/L Current velocity (m/s) Direction (in NESW) 	General water quality monitoring: 3 days per week, at mid-flood and mid-ebb tides	3 water depths: 1m below sea surface, mid-depth and 1m above sea bed.If the water depth is less than 3m, mid-depth sampling only.If water depth is less than 6m, mid-depth may be omitted.

Table 2.1 Water Quality Monitoring Parameters, Frequency and Duration

2.2 Water Quality Monitoring Locations

2.2.1 Impact water quality monitoring was conducted at eleven monitoring locations (i.e. B1-B4, H1, C1A, C2A, F1A, CR1, CR2 and M1) during general water quality monitoring as shown in **Figure 2.1**.

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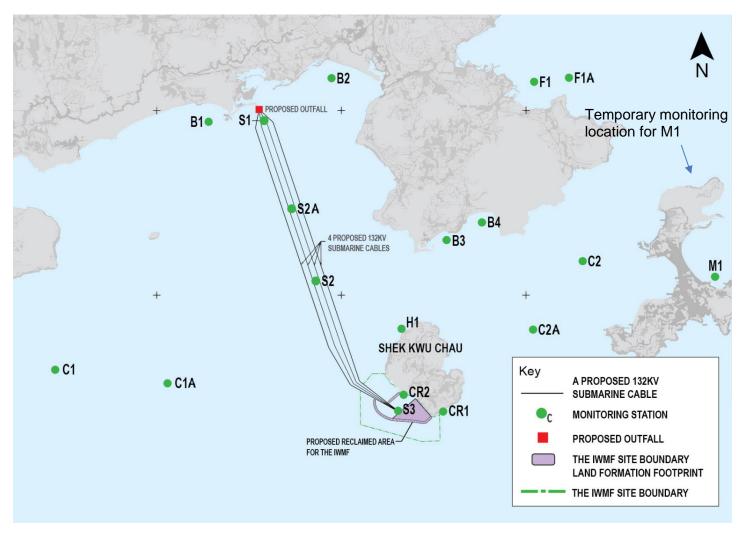


Figure 2.1 Water monitoring locations at Artificial Island near SKC

2.3 Action and Limit Levels

2.3.1 Based on the baseline monitoring data and the derivation criteria presented in the Baseline Monitoring Report, the Action/Limit Levels have been derived and are presented in **Table 2.2** and **Table 2.3** for both dry seasons (October – March) and wet seasons (April – September).

Table 2.2 Derived Action and Limit Levels for Water Quality Monitoring (Dry Season)

Parameters	Action	Limit
Construction Phas	se Impact Monitoring	
DO in mg/L	≤ 7.13	<u>≤</u> 4
SS in mg/L	\geq 8 or 120% of control station's SS	\geq 10 or 130% of control station's SS at
	at the same tide of the same day of	the same tide of the same day of
	measurement, whichever is higher	measurement, whichever is higher
Turbidity in NTU	\geq 5.6 or 120% of control station's	\geq 12.81 or 130% of control station's
	turbidity at the same tide of the same	turbidity at the same tide of the same
	day of measurement, whichever is	day of measurement, whichever is
	higher	higher
Temperature in [°] C	1.8°C above the temperature recorded at representative control station at the same tide of the same day	2°C above the temperature recorded at representative control station at the same tide of the same day

Notes:

i. "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.

ii. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
iii. For turbidity, SS and Salinity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

Parameters	Action	Limit
Construction Phas	se Impact Monitoring	
DO in mg/L	≤ 5.28	≤ 4
SS in mg/L	\geq 12 or 120% of control station's SS	\geq 14 or 130% of control station's SS at
	at the same tide of the same day of	the same tide of the same day of
	measurement, whichever is higher	measurement, whichever is higher
Turbidity in NTU	\geq 4.0 or 120% of control station's	\geq 4.3 or 130% of control station's
	turbidity at the same tide of the same	turbidity at the same tide of the same
	day of measurement, whichever is	day of measurement, whichever is
	higher	higher
Temperature in [°] C	1.8°C above the temperature recorded at representative control station at the same tide of the same day	2°C above the temperature recorded at representative control station at the same tide of the same day

Table 2.3 Derived Action and Limit Levels for Water Quality (Wet Season)

Notes:

i. "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.

ii. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
 iii. For turbidity, SS and Salinity, non-compliance of the water quality limits occurs when monitoring result is higher

iii. For turbidity, SS and Salinity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

- 2.4 Monitoring Results and Observations
- 2.4.1 As confirmed by the Contractor on 14 October 2020, all DCM works was completed on 14 October 2020, the post DCM water quality monitoring was completed for further 4 weeks (i.e. from 16 October 2020 to 14 November 2020) according to the approved Detailed Plan on Deep Cement Mixing. As all DCM work and post DCM water quality monitoring were completed on 14 November 2020, no water quality monitoring was conducted at S1, S2A and S3 after 14 November 2020. Monitoring results of 6 key parameters: Salinity, DO, turbidity, SS, pH and temperature for general water quality monitoring during the reporting period, are summarized in **Table 2.4**, and results trending are presented graphically in **Appendix C.**

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												Paramet	ers									
						Disso	lved Oxy	gen (mg	g/L)													
Lo	ations	S	alinity (pp	pt)	Surf	Surface & Middle			Bottom		рН			Turbidity (NTU)			Suspended Solids (mg/L)			7	Гетр. (°С)
		Oct	Nov	Dec	Oct	Nov	Dec	Oct	Nov	Dec	Oct	Nov	Dec	Oct	Nov	Dec	Oct	Nov	Dec	Oct	Nov	Dec
	Avg.	32.64	32.67	32.45	8.58	8.89	8.94	8.59	8.89	8.95	8.24	8.29	8.29	3.1	3.1	3.7	10.11	7.76	6.94	27.0	24.8	21.3
B1	Min.	31.21	30.96	30.51	7.90	8.30	8.13	7.97	8.33	8.15	8.12	8.16	8.18	2.0	2.3	2.6	2.50	2.50	2.00	25.2	23.2	20.0
	Max.	34.47	33.97	33.90	9.63	9.50	9.70	9.53	9.62	9.65	8.35	8.62	8.42	4.0	3.9	7.4	28.00	21.00	21.00	28.7	25.7	23.6
	Avg.	32.62	32.54	32.45	8.69	8.77	8.85	8.68	8.76	8.82	8.22	8.26	8.27	3.1	3.1	3.4	9.91	8.56	7.90	27.0	24.8	21.3
B2	Min.	31.14	31.08	30.27	7.84	8.07	8.24	7.84	8.08	8.24	8.02	8.10	8.12	2.2	2.3	2.6	2.50	2.50	2.00	25.0	23.4	20.1
	Max.	34.70	34.17	34.26	9.38	9.44	9.48	9.34	9.48	9.49	8.35	8.38	8.43	3.9	5.9	6.0	25.00	21.00	23.00	28.8	25.6	23.2
	Avg.	32.38	32.65	32.19	8.59	8.85	8.64	8.58	8.86	8.64	8.23	8.29	8.28	4.3	4.4	4.7	10.20	9.86	7.88	27.0	24.8	21.3
B3	Min.	31.00	31.41	30.51	8.08	8.23	8.19	8.08	8.21	8.20	8.06	8.16	8.16	3.1	3.3	3.2	2.50	2.50	2.00	25.3	23.4	20.0
	Max.	33.54	34.35	33.31	9.48	9.47	9.57	9.45	9.43	9.61	8.39	8.84	8.38	5.6	5.5	6.5	23.00	26.00	23.00	28.7	25.6	23.3
	Avg.	32.62	32.57	32.41	8.63	8.81	8.69	8.64	8.85	8.71	8.23	8.28	8.30	4.3	4.4	4.7	10.14	10.17	8.80	26.9	24.7	21.3
B4	Min.	31.02	31.05	30.97	7.94	7.87	8.06	7.98	7.94	8.19	8.10	8.08	8.19	3.2	3.2	3.2	2.50	2.50	2.00	25.3	23.2	19.9
	Max.	34.57	34.20	34.23	9.41	9.66	9.52	9.47	9.70	9.54	8.37	8.77	8.42	6.0	5.9	6.2	22.00	20.00	29.00	28.6	25.6	23.6
	Avg.	32.75	32.45	32.48	8.45	8.82	8.57	8.50	8.80	8.58	8.24	8.30	8.28	5.5	5.6	5.9	10.08	9.42	8.07	27.0	24.8	21.3
C1A	Min.	31.42	30.99	30.40	7.83	8.29	8.02	7.85	8.20	8.07	8.10	8.12	8.19	3.8	3.6	3.7	2.50	2.50	2.00	25.3	23.3	20.0
	Max.	34.81	33.64	34.21	9.27	9.54	9.64	9.27	9.58	9.68	8.37	9.38	8.42	7.5	7.6	7.9	22.00	24.00	21.00	28.6	25.5	23.5
	Avg.	32.60	32.43	32.48	8.65	8.77	8.80	8.64	8.77	8.80	8.23	8.31	8.28	5.3	5.6	5.9	10.33	10.06	8.40	27.0	24.8	21.2
C2A	Min.	30.89	30.91	30.26	7.70	8.14	8.08	7.76	8.16	8.02	8.09	8.08	8.11	3.6	3.7	4.1	2.50	2.50	2.00	25.4	23.3	20.0
	Max.	33.98	34.28	33.86	9.56	9.65	9.55	9.60	9.51	9.60	8.39	9.43	8.37	8.0	7.3	8.7	22.00	24.00	22.00	28.6	25.7	23.3
	Avg.	32.66	32.30	32.53	8.64	8.87	8.73	8.65	8.86	8.74	8.23	8.28	8.29	4.4	4.6	4.9	9.96	8.61	8.20	26.9	24.9	21.3
CR1	Min.	30.83	30.96	30.73	7.86	8.13	7.85	7.93	8.19	7.85	8.13	8.11	8.14	2.9	2.3	3.3	2.50	2.50	2.00	25.1	23.5	20.0
	Max.	34.32	33.92	34.06	9.60	9.78	9.74	9.56	9.66	9.69	8.34	8.76	8.40	7.2	6.2	7.7	25.00	20.00	25.00	28.6	25.6	23.2
	Avg.	32.59	32.70	32.37	8.48	8.76	8.78	8.50	8.73	8.81	8.26	8.28	8.28	4.1	4.5	5.0	11.08	9.60	8.51	26.9	24.8	21.2
CR2	Min.	31.17	30.98	30.39	7.88	7.86	8.14	7.88	7.94	8.22	8.14	8.12	8.15	2.7	2.8	3.2	2.50	2.50	2.00	25.1	23.3	19.9
	Max.	34.92	34.42	33.46	9.33	9.63	9.58	9.30	9.59	9.60	8.37	8.48	8.39	6.2	6.1	6.9	25.00	24.00	26.00	28.6	25.7	23.2
	Avg.	32.73	32.58	32.28	8.52	8.80	8.81	8.52	8.83	8.81	8.24	8.28	8.28	4.2	4.3	4.5	10.53	9.38	8.02	27.0	24.9	21.3
F1A	Min.	31.07	31.12	30.06	7.75	8.23	7.96	7.75	8.33	8.02	8.06	8.14	8.20	2.9	2.8	3.0	2.50	2.50	2.00	25.2	23.2	20.0
	Max.	33.85	34.54	33.72	9.44	9.49	9.61	9.38	9.57	9.60	8.37	8.81	8.38	6.6	6.3	6.1	23.00	23.00	22.00	28.7	25.7	23.2
H1	Avg.	32.61	32.66	32.37	8.51	8.92	8.66	8.50	8.92	8.67	8.23	8.32	8.30	4.1	4.4	4.7	9.94	9.16	8.26	27.0	24.8	21.2
111	Min.	30.91	31.07	30.60	7.80	8.20	7.89	7.81	8.29	7.90	8.12	8.12	8.19	2.9	3.1	3.3	2.50	2.50	2.00	25.4	23.2	20.0

Table 2.4 Summary of Regular Impact Water Quality Monitoring Results

Acuity Sustainability Consulting Limited

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			1									Paramet	ers									
					Dissolved Oxygen (mg/L)																	
Loc	Salinity (ppt)		Surface & Middle			Bottom			рН			Turbidity (NTU)		Suspended Solids (mg/L)		Temp. (°C))				
Loc	ations	Oct	Nov	Dec	Oct	Nov	Dec	Oct	Nov	Dec	Oct	Nov	Dec	Oct	Nov	Dec	Oct	Nov	Dec	Oct	Nov	Dec
	Max.	34.04	34.29	33.90	9.25	9.70	9.48	9.24	9.69	9.40	8.36	9.60	8.44	6.2	6.9	7.4	23.00	25.00	32.00	28.8	25.6	23.2
	Avg.	32.63	32.80	32.41	8.62	8.86	8.81	8.65	8.87	8.82	8.25	8.28	8.29	4.2	4.2	4.5	11.08	10.01	8.43	27.0	24.8	21.3
M1	Min.	30.87	31.29	30.29	7.91	8.29	8.14	7.93	8.32	8.15	8.13	8.11	8.19	2.7	2.1	2.8	2.50	2.50	3.00	25.1	23.3	19.9
	Max.	34.63	34.16	33.96	9.41	9.72	9.64	9.40	9.77	9.60	8.36	8.50	8.47	6.7	6.0	7.7	27.00	24.00	23.00	28.7	25.6	23.4

Notes:

i. "Avg", "Min" and "Max" is the average, minimum and maximum respectively of the data from measurements conducted under mid-flood and mid-ebb tides at three water depths, except that of DO where the data for "Surface & Middle" and "Bottom" are calculated separately.

- 2.4.2 All of the monitoring results for temperature, DO and turbidity obtained in the reporting period complied with their corresponding Action and Limit levels. Forty (40) of the general water quality monitoring results of SS had exceeded Action Level during the reporting period, while Fifty (50) exceedances of the Limit Level of SS were also recorded. For the salinity, pH, DO, turbidity, temperature and SS, their trends were fluctuated independent to the site activities and presented in **Appendix C**.
- 2.4.3 No major pollution source which might affect the results was observed during the impact monitoring.
- 2.4.4 During the water quality monitoring for ebb tide on 17 October 2022, the location for monitoring station M1 was temporarily changed to the north of Cheung Chau (as shown on Figure 2.1) due to strong swell brought by typhoon NESAT. During the water quality monitoring for ebb tide and flood tide on 2 and 5 December 2022, the location for monitoring station M1 was temporarily changed to the north of Cheung Chau (as shown on Figure 2.1) due to strong swell brought by monsoon. The coordinate of temporary monitoring location for M1 on 17 October 2022, 2 and 5 December 2022 2022 was E809305, N821294.
- 2.4.5 The impact water monitoring event for flood tide on 17 October 2022 was cancelled due to the adverse weather under typhoon NESAT and the scheduled impact water monitoring event on 2 November 2022 was cancelled due to the adverse weather under typhoon NALGAE.
- 2.4.6 Details of the exceedance are presented in **Section 8**.
- 2.4.7 Implemented mitigation measures minimizing the adverse impacts on water are listed in the implementation schedule given in **Appendix B**.

3. NOISE MONITORING

- 3.1 Noise Monitoring Parameters
- 3.1.1 Impact noise monitoring was conducted weekly in the reporting period between 0700 and 1900 hours on normal weekdays. Additional impact noise monitoring was conducted weekly in the reporting period between 1900 and 0700 hours on all days as well as public holidays and Sundays.
- 3.1.2 Construction noise level measured in terms of the A-weighted equivalent continuous sound pressure level (L_{Aeq}). L_{eq 30min} was used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. L_{eq 5min} was used as the monitoring parameter for the time period between 1900 and 0700 hours as well as public holidays and Sundays. **Table 3.1** summarizes the monitoring parameters, frequency and duration of the impact noise monitoring and additional impact noise monitoring.

 Table 3.1 Noise Monitoring Parameters, Time, Frequency and Duration

Monitoring Station	Time	Duration	Parameters
	Day time: 0700-1900 hrs (during normal weekdays)	Once per week $L_{eq 5min}/L_{eq 30min}$ (average of 6 consecutive $L_{eq 5min}$)	L _{eq} , L ₁₀ & L ₉₀
M1/ N_S1, M2/ N_S2, M3/ N_S3	Evening time: 1900-2300 hrs (including normal weekdays, also public holidays and Sundays)	Once per week L _{eq 5min} (3 sets of L _{eq 5min})	L _{eq} , L ₁₀ & L ₉₀
	Night time: 2300-0700 hrs (including normal weekdays, also public holidays and Sundays)	Once per week $L_{eq 5min}$ (3 sets of $L_{eq 5min}$)	L _{eq} , L ₁₀ & L ₉₀

3.2 Noise Monitoring Locations

3.2.1 Three noise monitoring locations for impact monitoring and additional impact monitoring at the nearby sensitive receivers are shown in **Figure 3.1**

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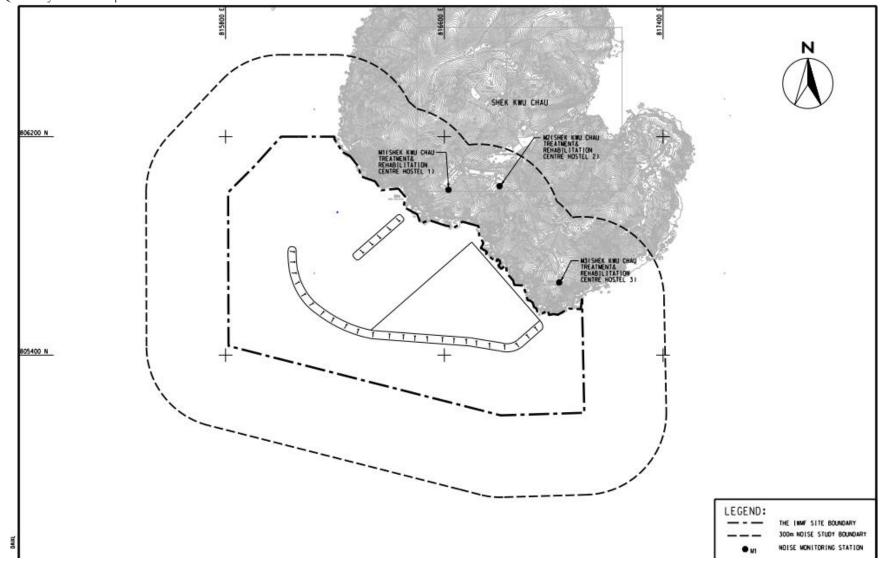


Figure 3.1 Noise monitoring locations at SKC

- 3.2.2 M1, M2 and M3 are Shek Kwu Chau Treatment and Rehabilitation Centre Hostel 1, 2 and 3 respectively of The Society for the Aid and Rehabilitation of Drug Abusers (SARDA) located at southern part of Shek Kwu Chau.
- 3.2.3 Measurements at M1 & M3 were conducted at a point 1m from the exterior of the sensitive receivers building façade and at a position 1.2m above the ground. Measurement setup at M3 has been varying with minor adjustment to minimize the disturbance to the users of Treatment Centre. Measurement at M2 was conducted at a point 1m from building façade of the ceiling of 1st floor level for avoidance of mutual disturbance with users of Treatment Centre. The minor adjustment of monitoring locations, which were in favour to mutual convenience with the users of Treatment Centre, were found with no effect on monitoring result based on on-site observation and experience from the Baseline monitoring of the Project.
- 3.2.4 The noise monitoring stations are summarized in **Table 3.2** below.

Station	NSR ID in EIA Report	Noise Monitoring Location	Type of sensitive receiver(s)	Measurement Type
M1	N_S1	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 1	Residential	Façade
M2	N_S2	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 2	Residential	Façade
M3	N_S3	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 3	Residential	Façade

 Table 3.2 Noise Monitoring Location

- 3.3 Action and Limit Levels
- 3.3.1 The Action/Limit Levels in line with the criteria of Practice Note for Professional Persons (ProPECC PN 2/93) "Noise from Construction Activities Non-statutory Controls" and Technical Memorandum on Environmental Impact Assessment Process issued by HKSAR Environmental Protection Department ["EPD"] under the Environmental Impact Assessment Ordinance, Cap 499, S.16 is presented in **Table 3.3**.

Time Period	Action	Limit (dB(A))		
0700-1900 hrs on normal	When one documented	75 dB(A)		
weekdays	complaint is received			

Notes: If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

- 3.4 Monitoring Results and Observations
- 3.4.1 Impact monitoring for noise impact for daytime was conducted in the reporting period. The impact noise levels at Noise Monitoring Stations at SKC (i.e. M1/ N_S1 to M3/ N_S3) are summarized in **Table 3.5**. Additional impact monitoring during restricted hours was conducted in the reporting period. The additional impact noise levels at Noise Monitoring Stations at SKC (i.e. M1/ N_S1 to M3/ N_S3) are summarized in **Table 3.6** and **Table 3.7** respectively. Trending of the noise monitoring results is presented graphically in **Appendix D**.

- 3.4.2 Major construction activity, major noise source and extreme weather which might affect the results were recorded during the impact monitoring.
- 3.4.3 According to our field observations, the major noise source identified at the noise monitoring station in the reporting quarter are summarised in **Table 3.4**. Sound from the intermittent piling work was the noticeable noise source for monitoring stations M1, M2 and M3. Air conditioning units were also observed at station M3 during the impact monitoring.

Monitoring Station	Major Noise Source
M1	Sound from the intermittent piling work
M2	Sound from the intermittent piling work
M3	Sound from the intermittent piling work, air-conditioners

Table 3.4 Summary of Field Observation

3.4.4 No data from impact monitoring during daytime had exceeded the stipulated limit level at 75 dB(A).

Table 3.5 Summary of Impact Noise Monitoring Results during Daytime (0700 – 1900 hrs)

	Noise in dB(A)												
Location	Ra	nge of L _{eq 30}	min	Ra	nge of L10 30	min	Range of L90 30min						
	Oct	Nov	Dec	Oct	Nov	Dec	Oct	Nov	Dec				
M1	62.4 -	58.3 –	58.6 -	65.9 –	61.4 –	59.8 –	54.9 –	50.8 -	52.6 -				
M1	65.9	64.5	65.5	70.2	69.6	70.2	59.6	57.6	55.5				
MO	57.9 –	57.8 -	52.8 -	59.8 -	61.6 -	54.4 -	53.6 -	51.8 -	50.8 -				
M2	62.0	62.5	57.6	64.9	65.4	59.9	55.8	55.9	52.9				
M2	60.0 -	55.5 –	57.7 –	62.8 -	57.8 -	61.7 –	52.3 -	50.8 -	51.3 –				
M3	60.6	62.3	68.1	64.0	63.2	70.4	55.6	56.9	56.6				

- 3.4.5 Applicable mitigation measures for construction works are fully implemented as shown in **Appendix B**, where double-glazed windows and air conditioning system were also installed and confirmed operable for the NSRs (N_S1, N_S2 & N_S3).
- 3.4.6 During the noise monitoring event, frontline staff of ET have inquired the treatment centre users on any noise disturbance from the construction activities at evening and night time, where no complaint and adverse opinions was received.
- 3.4.7 Data from impact monitoring during evening time and night time were compared with the NCO criteria. Where site inspection and auditing on Contractor's record have shown that the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority for construction works during restricted hours were followed. No inappropriate practice were spotted during evening time and night time construction works, thus the stipulated requirement on noise impact control during night time and evening time was achieved.

	Noise in dB(A)												
Location	Ra	nge of L _{eq 5}	imin	Ra	nge of L ₁₀₅	imin	Range of L _{90 5min}						
	Oct	Nov	Dec	Oct	Nov	Dec	Oct	Nov	Dec				
N/1	44.8 -	42.5 -	41.6 -	45.9 -	44.0 -	43.3 -	43.4 -	40.6 -	39.6 -				
M1	54.9	52.0	47.5	58.2	53.9	54.1	49.4	49.0	45.1				
142	46.2 -	41.6 -	46.6 -	47.0 -	42.9 -	47.8 -	44.9 –	39.4 –	44.6 -				
M2	53.4	59.0	55.3	54.5	65.4	61.4	51.6	53.6	50.1				
M3	42.9 -	42.1 -	42.7 -	44.5 -	42.9 -	43.5 -	41.0 -	40.6 -	41.3 -				
	61.9	58.6	46.5	62.6	60.0	48.8	61.2	51.5	45.6				

Table 3.6 Summary of the Additional Impact Noise Monitoring Results during Evening Time (1900-2300 hrs)

Table 3.7 Summary of Additional Impact Noise Monitoring Results during Night Time
(2300 – 0700 hrs)

	Noise in dB(A)										
Location	Ra	nge of L _{eq} 5	imin	Ra	nge of L105	imin	Range of L90 5min				
	Oct	Nov	Dec	Oct	Nov	Dec	Oct	Nov	Dec		
N/1	42.7 -	43.3 -	39.8 -	44.2 -	44.7 –	41.1 -	39.1 –	38.8 -	38.1 –		
M1	57.3	46.5	44.6	60.3	49.0	45.9	51.7	45.4	43.0		
M2	44.1 -	38.1 –	45.1 -	44.6 -	39.4 -	46.6 -	43.3 -	37.0 -	43.9 -		
IVIZ	55.4	54.8	58.4	57.0	57.4	61.4	51.9	50.4	53.7		
142	41.9 -	40.1 -	40.2 -	42.6 -	40.9 -	40.9 -	38.4 -	36.5 -	39.4 -		
M3	50.9	54.4	49.5	54.6	56.9	50.3	46.5	49.7	47.7		

4. WASTE

- 4.1 The waste generated from this Project includes inert construction and demolition (C&D) materials, and non-inert C&D materials. Non-inert C&D materials are made up of general refuse, vegetative wastes and recyclable wastes such as plastics and paper/cardboard packaging waste. Steel materials generated from the project are also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials.
- 4.2 As advised by the Contractor, for C&D waste, 69,013.3m³ C&D material was generated on site in the reporting months and disposed as public fill. 580.0kg of paper was generated on site and collected by registered recycling collector. 78,100.00kg of metal waste was collected by registered recycling collector. No chemical waste was collected by the licensed chemical waste collector. 598.0m³ of other types of wastes (e.g. general refuse) were generated on site and disposed of at Landfill. 22,589.4m³ of fill rock was imported during the reporting quarter.
- 4.3 Chemical waste generated from land-based construction activities was stored in the chemical waste cabinet for temporary storage.
- 4.4 With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting period are summarised in **Table 4.1**. Details of cumulative waste management data are presented as a waste flow table in **Appendix E**.
- 4.5 The Contractor is advised to sort and store any solid and liquid waste on-site properly prior to disposal.

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		Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
Reporting Month	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Large ken crete Note Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Sand	Imported Fill Public Fill Rock	Metals	Paper / Metals cardboard packaging	rdboard (see Note	Chemica	ıl Waste	Others, e.g. general refuse (see	
													Γ	Note 3)
	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)		(in ,000m ³)		(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000m ³)
Oct 2022	13.3139	0	0	13.3006	0.0133	0	0	11.8665	78.1000	0.5800	0	0	0	0.2340
Nov 2022	26.5583	0	0	26.5583	0	0	0	7.2055	0	0	0	0	0	0.1105
Dec 2022	29.1411	0	0	29.1411	0	0	0	3.5174	0	0	0	0	0	0.2535

Table 4.1 Quantities of Waste Generated from the Project

Notes:

1. Broken concrete for recycling into aggregates.

2. Plastic refer to plastic bottles / containers, plastic sheets / foam from packaging materials.

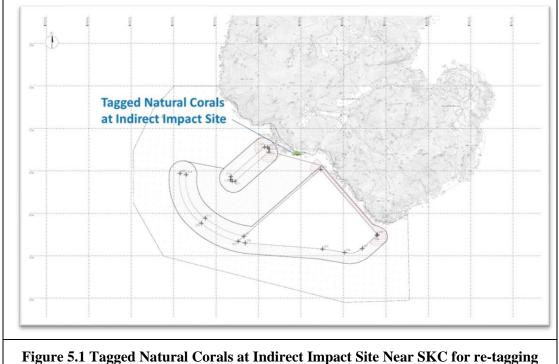
3. Use the conversion factor: 1 full load of dumping truck being equivalent to 6.5 m^3 by volume.

4. Use the conversion factor: rock density = $2 T/m^3$.

5. CORAL

- 5.1 Coral Monitoring Parameters
- 5.1.1 Ten (10) tagged coral colonies at each site of suggested control site and indirect impact site are being monitored weekly for the first month and followed by monthly monitoring for three months. The selected Control Site is located at Yuen Kong Chau of Soko Islands about 7 km away from the project area. After the hitting of super typhoon Mangkhut in mid-September 2018, the coral re-tagging activities at indirect impact site and control site were conducted in November and December 2018 respectively. Tagged coral colonies at the proposed recipient site are being monitored quarterly for one year and the last post-translocation coral monitoring was completed on 28 Mar 2019. The selected recipient site R3 is located the opposite side of the Project area at about 2 km away.
- 5.1.2 Monitoring recorded the following parameters (using the same methodology adopted during the pre-translocation survey); the size, presence, health conditions (percentage of mortality/bleaching) and percentage of sediment of each trans-located coral colony. The general environmental conditions including weather, sea, and tidal conditions of survey sites were monitored.
- 5.1.3 Health status of coral was assessed by the following criteria: Hard coral: Percentage of surface area exhibiting partial mortality and blanched/bleached area of each coral colony and degree of sedimentation.
- 5.2 Coral Monitoring Locations

Location of the ten tagged coral colonies at each of the proposed indirect impact site, control site, the recipient site R3 and REA transect at proposed indirect impact site are shown in **Figure 5.1**, **Figure 5.2** and **Figure 5.3** respectively:



after typhoon Mangkhut



Figure 5.2 Tagged Natural Corals at Control Site Near Yuen Kong Chau for retagging after typhoon Mangkhut



Figure 5.3 Tagged Translocation Corals at Recipient Site R3 near SKC

5.2.1 The GPS coordinates of the tagged coral colonies and retagged coral colonies at both indirect impact site, control site and recipient site R3 were shown in **Table 5.1**, **Table 5.2** and **Table 5.3** respectively.

Coral # note i	GPS	Coordinates
1	N22°09'45.96"	E113°54'57.81"
2R	N22°11'29.12"	E113°59'09.01"
3	N22°09'45.81"	E113°54'57.78"
4	N22°09'45.70"	E113°54'57.95"
5R	N22°11'29.10"	E113°59'09.18"
6	N22°09'45.75"	E113°54'58.02"
7R	N22°11'29.17"	E113°59'08.86"
7	N22°09'45.65"	E113°54'57.94"
8	N22°09'45.53"	E113°54'57.90"
9	N22°09'46.23"	E113°54'54.70"
10R	N22°11'29.18"	E113°59'08.91"

Table 5.1 Tagged Natural Corals during Baseline and Re-tagged Natural Corals afterTyphoon Manghkut at Control Site near Yuen Long Chau

Notes:

i. The re-tagged corals were marked as ##**R**.

Table 5.2 Re-tagged Natural Corals after Typhoon Manghkut at Indirect Impact Site near SKC

Coral # note i	GPS	Coordinates
11R	N22°11'29.14''	E113°59'08.92"
12R	N22°11'29.12"	E113°59'09.01"
13R	N22°11'29.11"	E113°59'09.07"
14R	N22°11'29.13"	E113°59'09.12"
15R	N22°11'29.10"	E113°59'09.18"
16R	N22°11'29.07"	E113°59'09.23"
17R	N22°11'29.17"	E113°59'08.86"
18R	N22°11'29.14"	E113°59'08.94"
19R	N22°11'29.20"	E113°59'08.81"
20R	N22°11'29.18"	E113°59'08.91"

Notes:

i. The re-tagged corals were marked as ##**R**.

Site	GPS Coordinates				
R3	N22°11'43.69"	E113°28.99"			

5.3 Action and Limit Levels

5.3.1 Monitoring result was reviewed and compared against the below Action Level and Limit Level (AL/LL) as set with the below **Table 5.4** and **Table 5.5**.

Parameter	Action Level	Limit Level
	If during Impact Monitoring	If during Impact Monitoring a
	a 15% increase in the	25% increase in the
	percentage of partial	percentage of partial
	mortality on the corals	mortality on the corals occurs
	occurs at more than 20% of	at more than 20% of the
Mortality	the tagged indirect impact	tagged indirect impact site
	site coral colonies that is not	coral colonies that is not
	recorded on the tagged	recorded on the tagged corals
	corals at the control site,	at the control site, then the
	then the Action Level is	Limit Level is exceeded.
	exceeded.	

Table 5.4 Action and Limit Levels for Construction Phase Coral Monitoring

Table 5.5 Action and Limit Levels for Post-Translocation Coral Monitoring

Parameter	Action Level	Limit Level
Mortality	If during Post-Translocation Monitoring a 15% increase in the percentage of partial mortality on the corals occurs at more than 20% of the translocated coral colonies that is not recorded on the original corals in the recipient site, then the Action Level is exceeded.	If during Post-Translocation Monitoring a 25% increase in the percentage of partial mortality on the corals occurs at more than 20% of the translocated coral colonies that is not recorded on the original corals in the recipient site, then the Limit Level is exceeded.

5.4 Monitoring Results and Observations

- 5.4.1 Ten (10) hard coral colonies were monitored at each site of Control and Indirect Impact sites as suggested in the Construction Phase Monitoring Plan. The general health conditions (size, mortality, bleaching and sediment) were recorded and summarized in Table 5.7 and Table 5.8. Photos of each tagged coral colonies were taken during the monitoring activities and shown in Appendix F.
- 5.4.2 The 16th quarterly coral monitoring during construction phase at both Indirect Impact Site and Control Site was conducted on 29 December 2022 and the weather condition was summarized in **Table 5.6**.

Table 5.6 Weather Condition for the 16th Quarterly Coral Monitoring during Construction Phase at both Indirect Impact Site and Control Site

Date	Condition	Average Underwater Visibility
29 December 2022	Northeast wind force 5 to 6Sunny	Less than 10 cm

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Coral #	Species	Size (cm) – Max.	Condition	Mortali	ty (%)	Bleachii	ng (%)	Sediment (%)	
Corar#	Species	Diameter	Condition	Baseline (26 Jun 2018 & 3 Dec 2018)	29 Dec 2022	Baseline (26 Jun 2018 & 3 Dec 2018)	29 Dec 2022	Baseline (26 Jun 2018 & 3 Dec 2018)	29 Dec 2022
1	Goniopora stutchburyi	25	Good	0	0	0	0	0	0
2R	Goniopora stutchburyi	10	Good	0	0	0	0	0	0
3	Psammocora superficialis	18	Good	0	0	0	0	0	0
4	Turbinaria peltata	13	Good	0	0	0	0	0	0
5R	Goniopora stutchburyi	18	Good	0	0	0	0	0	0
6	Cyphastrea serailia	43	Good	0	0	0	0	0	0
7R	<i>Coscinaraea</i> sp.	15	Good	0	0	0	0	0	0
8	Goniopora stutchburyi	21	Good	0	0	0	0	0	0
9	Goniopora stutchburyi	11	Good	0	0	0	0	0	0
10R	Goniopora stutchburyi	20	Good	0	0	0	0	0	0

Table 5.7 Sizes, Condition, Mortality, Bleaching and Sediment of 10 Natural Coral Colonies at Control Site of 16th Quarterly Coral Monitoring (29 December 2022) during 52nd to 54th Monthly Construction Phase Monitoring

Notes:

i. The re-tagged corals were marked as ##R.

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				_					
Coral #	Species	Size (cm) – Max.	Condition	Mortal	ity (%)	Bleach	ing (%)	Sediment (%)	
		Diameter		Baseline (23 Nov 2018)	29 Dec 2022	Baseline (23 Nov 2018)	29 Dec 2022	Baseline (23 Nov 2018)	29 Dec 2022
11R	Cyphastrea serailia	48	Good	0	0	0	0	0	0
12R	Favites chinensis	27	Good	0	0	0	0	0	0
13R	Turbinaria peltata	21	Good	0	0	0	0	0	0
14R	Favites chinensis	8	Good	0	0	0	0	0	0
15R	Goniopora stutchburyi	11	Good	0	0	0	0	0	0
16R	Psammocora superficialis	27	Good	0	0	0	0	0	0
17R	Favites chinensis	15	Good	0	0	0	0	0	0
18R	Psammocora superficialis	39	Good	0	0	0	0	0	0
19R	Psammocora superficialis	42	Good	0	0	0	0	0	0
20R	Psammocora superficialis	29	Good	0	0	0	0	0	0

Table 5.8 Sizes, Condition, Mortality, Bleaching and Sediment of 10 Natural Coral Colonies at Indirect Impact Site of 16th Quarterly Coral Monitoring (29 December 2022) during 52nd to 54th Monthly Construction Phase Monitoring

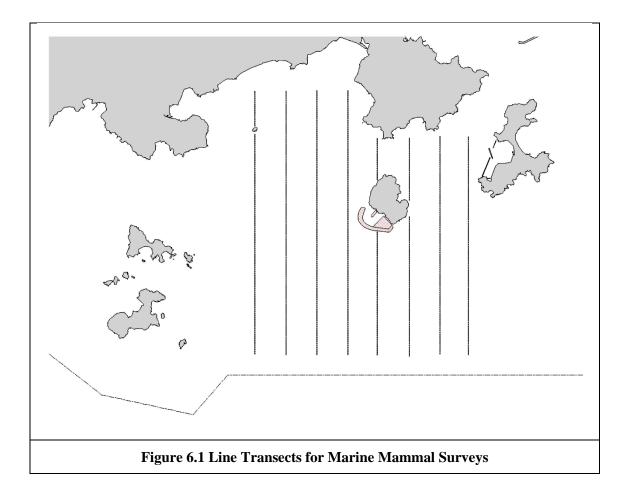
Notes:

i. The re-tagged corals were marked as ##R.

- 5.4.3 The re-tagging activity had been done at both Indirect Impact Site and Control Site in November 2018 and December 2018 respectively. A total of 20 tagged coral colonies (10 at control site and 10 at indirect impact site including the re-tagged coral colonies) were monitored. Similar to the baseline results performed in June, November and December 2018 and the results of the previous quarterly coral monitoring during construction phase, the health condition of all tagged and re-tagged coral colonies at Indirect Impact Site and Control site were good in general. No increased mortality was recorded during the survey in December 2022.
- 5.4.4 No sediment, bleaching or increased mortality in the general condition of coral colonies were observed during the 16th quarterly coral monitoring period. No deterioration of the coral community was observed in the ecological monitoring results when compared with the baseline ecological monitoring results. There is no AL/LL exceedance during the monitoring period.

6. MARINE MAMMAL

- 6.1 Survey Methods
- 6.1.1 Vessel-based Line-transect Survey
- 6.1.1.1 For the vessel-based marine mammal surveys, the monitoring team adopted the standard line-transect method (Buckland et al. 2001) as same as that adopted during the EIA study and pre-construction phase monitoring to allow fair comparison of marine mammal monitoring results.
- 6.1.1.2 Eight transect lines are set at Southeast Lantau survey area, including Shek Kwu Chau, waters between Shek Kwu Chau and the Soko Islands, inshore waters of Lantau Island (e.g. Pui O Wan) as well as southwest corner of Cheung Chau as shown in **Figure 6.1** below:



- 6.1.1.3 In comparison to the baseline monitoring results, results from the analyzed construction phase monitoring data would allow the detection of any changes of their usage of habitat, in response to the scheduled construction works.
- 6.1.2 Passive Acoustic Monitoring (PAM)
- 6.1.2.1 The PAM aims to study the usage of an area by Finless Porpoise by using an array of automated static porpoise detectors (e.g. C-POD) which would be deployed at different locations to detect the unique ultra-high frequency sounds produced by

Finless Porpoise. During the construction period, the PAM survey will be conducted including placement of two passive porpoise detectors outside the Project Area as control site (i.e. within Pui O Wan and to the south of Tai A Chau) and one porpoise detector within the Project Area (i.e. near Shek Kwu Chau) as shown in **Figure 6.2** below.

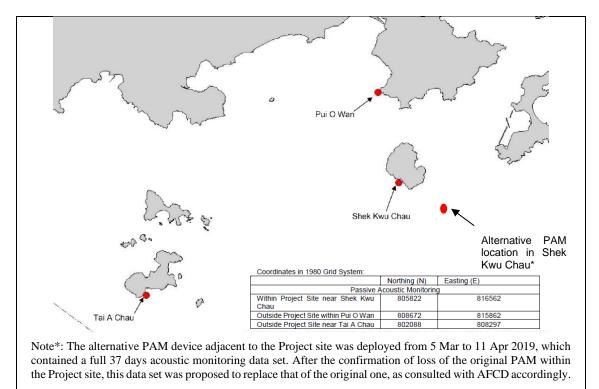


Figure 6.2 Locations of Passive Acoustic Monitoring

6.1.2.2 These three detectors will be deployed on-site to carry out 24-hours monitoring for a period listed as **Table 6.1** below during the construction phase.

Season	Months	Deployment Period
Peak Season	December, January, February,	At least 30 days during the peak
	March, April or May	months of porpoise occurrence
		in South Lantau waters

- 6.1.2.3 The automated static porpoise detectors shall detect the presence and number of finless porpoise and Chinese White Dolphins respectively over the deployment period, with the false signal such as boat sonar and sediment transport noise distinguished and filtered out. The detectors shall be deployed and retrieved by professional dive team on the seabed of the three selected location shown in **Figure 6.2**. During each deployment, the C-POD unit serial numbers as well as the time and date of deployments shall be recorded. Information including the GPS positions and water depth at each of the deployment locations shall also be obtained.
- 6.1.2.4 The diel patterns (i.e. 24-hour activity pattern) of finless porpoise occurrence among the three sites at Shek Kwu Chau, Tai A Chau and Pui O Wan shall be analyzed. Peaks and troughs of finless porpoise occurrence per hour of day would be identified and compared with the results obtained from pre-construction monitoring.

6.1.3 Land-based Theodolite Tracking

6.1.3.1 The Land-based Theodolite Tracking study would use the same station as in the AFCD monitoring study(same as the baseline monitoring location), which is situated at the southwest side of Shek Kwu Chau (GPS position: 22°11.47' N and 113°59.33' E) as shown in below Figure 6.3. The station was selected based on its height above sea level (at least 20 metres), close proximity to shore, and relatively unobstructed views of the entire Project Area to the southwest of Shek Kwu Chau. The height of the Shek Kwu Chau Station established by the HKCRP team is 74.6 m high at mean low water, and only a few hundred metres to the IWMF reclamation site, which is ideal for the purpose for the present behavioural and movement monitoring of finless porpoises as well during construction phase considering there as an un-obstructed vantage point at a height above the Project Site.

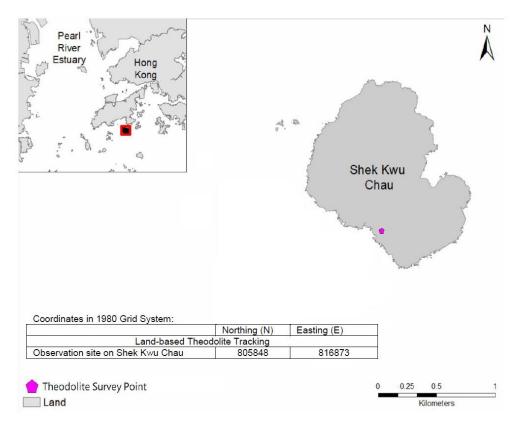


Figure 6.3 Locations of Land-based Theodolite Tracking

6.1.3.2 During the construction phase, Land-based Theodolite Tracking will be carried out for approximately six hours of tracking for each day of field work for a period listed as **Table 6.2** below, preferably at the initial stage of the construction period (i.e. December 2018 to May 2019).

Table 6.2 Land-based Theodolite Tracking Survey Period	d
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Season	Months	Survey Period
Peak Season	December, January, February,	30 days during the peak months
	March, April or May	of porpoise occurrence in South
		Lantau waters

6.1.3.3 The monitoring period for land-based theodolite tracking will be proposed to be overlapped with the PAM. The monitoring team consists of one experienced theodolite operator and at least two field observers for assistance. To conduct

theodolite tracking, the observers will search systematically for Finless Porpoise using the unaided eye and 7 x 50 handheld binoculars on each survey day throughout the study area. When an individual or group of porpoises is located, a theodolite tracking session will be initiated and focal follow methods will be used to track the porpoise(s). Behavioural state data (i.e. resting, milling, travelling, feeding and socializing) shall also be recorded every 5 minutes for the focal individual or group. Positions of porpoises and boats shall be measured using a digital theodolite connected to a laptop computer. This tracking survey will be conducted during the peak season between December 2018 and May 2019 for 30 surveys spanning across 15-16 weeks during the peak season to provide good temporal coverage during the initial stage of the construction period.

- 6.2 Specific Mitigation Measures
- 6.2.1 Monitored exclusion zones
- 6.2.1.1 During the installation/re-installation/relocation process of floating type silt curtains, in order to avoid the accidental entrance and entrapment of marine mammals within the silt curtains, a monitored exclusion zone of 250 m radius from silt curtain should be implemented and monitored by competent Marine Mammal Observers (MMOs). Marine Mammal Exclusion Zone (MMEZ) would also be implemented for precautionary purpose for DCM works.
- 6.2.2 Marine mammal watching plan
- 6.2.2.1 Upon the completion of silt curtain installation/re-installation/relocation, marine mammal watching plan would be implemented to observe the presence of any marine mammal around the localized silt curtain or being trapped by the localized silt curtain.
- 6.3 Results and Observations
- 6.3.1 Vessel-based Line-transect Survey
- 6.3.1.1 Four monthly surveys were conducted during the reporting period. As this covered both the off-peak season (June November) and designated peak season (December May), one survey was conducted in October and November 2022 and two surveys were conducted in December 2022 respectively. A total on effort (transects only) survey length of 159.3 km was completed, 132.7 km at Beaufort Sea State 2 or better (Table 6.3). One (1) on-effort finless porpoise sighting and one (1) one opportunistic finless porpoise sighting were recorded and confirmed by qualified ecologist (Table 6.4, Figure 6.4).

Date	Area*	Beaufort	Effort (km)	Season	Vessel	Effort Type**
28 October 2022	SEL	1	9.8		SEAMAR HK	Р
		2	23.7	AUTUMN		
2022		3	6.4		ПК	
10 November 2022	SEL	1	19.7	AUTUMN	SEAMAR	Р
		2	19.8	AUTUMIN	HK	
5 December 2022	SEL	1	1.1	WINTER	SEAMAR HK	Р
		2	18.5			
		3	11.9			
		4	7.9			
		5	0.3			
8 December 2022	SEL	1	13.6		SEAMAR	Р
		2	26.5	WINTER		
		3	0.1		HK	

* As shown in **Figure. 6.1**

** P (from AFCD) denotes the ON EFFORT survey on the transect line, not the adjoining passages

Table 6.4 Summary of Sightings Recorded during October 2022 to December 2022 ofVessel-based Line-transect Survey Effort

Date	Species	Sighting No.	Time	Group Size	PSD	Behaviour	Lat.	Long.	Area	Effort	Season
10 Nov 2022	Finless Porpoise	130	10:31	1	N/A	Unknow	22.16348	113.9452	SEL	On	Autumn
10 Nov 2022	Finless Porpoise	131	11:13	2	131	Travelling	22.18204	113.9541	SEL	Opp	Autumn

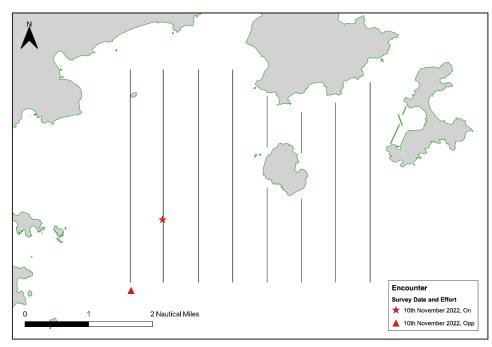


Figure 6.4 Location of sightings recorded during October to December 2022 Vesselbased Line-transect Survey

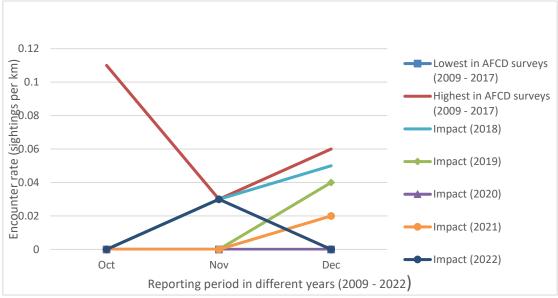


Figure 6.5 Plot of encounter rate during October to December in 2009 – 2022 from different surveys

- 6.3.1.2 A review of the long term AFCD marine mammal monitoring programme, the EIA and the pre-construction baseline monitoring report for this project was conducted. Both the EIA and the pre-construction baseline monitoring were conducted during the peak porpoise months December 2008 to May 2009 and February to April 2018, respectively. The AFCD long term monitoring data and impact monitoring in October and December 2019, 2020, 2021 and 2022 should be compared directly to Impact Survey results of the reporting periods.
- 6.3.1.3 A review of the Beaufort Sea state survey conditions between 2009 and 2017 (only data available from AFCD at time of writing; (AFCD 2018; 2017; 2016; 2015; 2014; 2013; 2012; 2011; 2010)) show that the survey condition in October, November and December 2022 were better than the average of previous AFCD long-term monitoring surveys.
- 6.3.1.4 A review of all the porpoise sightings in the survey area for October to December between 2009 and 2017 show that three (3) of the seven (7) years surveyed in October record no porpoise sightings while there are fluctuations between the number of sightings usually recorded in November and December. Given the similar survey conditions and the encounter rate recorded for porpoise in the project area during the reporting period, the encounter rate for October to December 2022 were between 0.00 sighting km⁻¹ and 0.03sighting km⁻¹ (see Figure 6.5), it is noted that the encounter rates of impact survey in October 2022 as 0 sighting rate was not unusual to other years. The encounter rates noted for the long term marine mammal monitoring programme, prior to construction commencement. The 0 encounter rate of impact survey in December 2022 was within the long term marine mammal monitoring term marine mammal monitoring programme, prior to construction commencement.
- 6.3.1.5 Data and records of the implemented mitigation measures, including construction vessel routing and speed control, marine mammal watching plan and avoidance of noisy work during the peak season, are collected from the Contractor and now under detail review. As surveys continue for this project, data shall be constantly re-evaluated across survey months to discern trends and impacts, if any.

- 6.3.1.6 Photo records of the line-transect survey during the reporting period are presented in **Appendix G**.
- 6.3.2 PAM and Land-based Theodolite Tracking
- 6.3.2.1 30 days of PAM surveys were started at 1 May 2019 and completed until the end of May 2019. Multiple PAM systems were deployed at three sites. The PAM system located at the IWMF was lost, however, an alternative data set has been identified. The PAM systems at the two control sites Tai A Chau and Pui O were recovered on 3 August 2019. A summary of marine mammal detections shows that porpoise were recorded every day of deployment at each site, but at varying frequencies. The detailed theodolite result was presented in 17th Monthly EM&A report (November 2019) while detailed PAM result was presented in 18th Monthly EM&A report (December 2019).
- For the baseline study, the DPM for each site was 11,160 (Shek Kwu Chau), 16,089 6.3.2.2 (Tai A Chau) and 3645 (Pui O Wan), totalling 30,894 DPM across all three sites, compared to DPMs of 4740 (Shek Kwu Chau), 7725 (Tai A Chau) and 23,986 (Pui O Wan), totalling 36,451 DPM, for the impact phase study. As the impact phase study was longer than the baseline study, it is not appropriate to directly compare total counts of DPM, however, the DPM rate (the average number of detections per day) for each site can be more directly compared. During the baseline study, Shek Kwu Chau averaged 338.2 DPM per day compared to 124.8 DPM per day, during the impact phase study. This showed a decrease in the daily average of porpoise detection at Shek Kwu Chau. During the baseline study, Tai A Chau averaged 487.6 DPM per day compared to 179.7 DPM per day, during the impact phase study. This showed a decrease in the daily average of porpoise detection at Tai A Chau. During the baseline study, Pui O Wan averaged 98.5 DPM per day compared to 557.8 DPM per day, during the impact phase study. This showed a significant increase in the daily average of porpoise detections at Pui O Wan (Table 6.6).
- 6.3.2.3 Overall, the PAM study showed that porpoise continue to consistently utilise the Shek Kwu Chau habitat immediately adjacent to the IWMF construction activities, although to a lesser degree than that prior to construction activities. In addition, the Pui O Wan site, which is 2.5 km away from the IWMF construction area, was also consistently utilised during the impact phase PAM study. A continued assessment of fine scale habitat use, particularly through PAM which yields large quantities of data, would allow a more comprehensive assessment of the EIA predictions.

			Baseline data						
Site	Unit ID	Start End Days DPD (Days) Total DPM (Days) DPM (Days) % False Positive DPM Total Positive DPM DPM (Days) % False Positive DPM Total DPM DPM (Days) % False DPM DPM (Days) % False DPM DPM Days Days) DPM Days) DPM DPM Days) DPM Days) Days) Days) Days)	Time Lost %						
Shek Kwu Chau	2891	2018/02/09	2018/03/13	32.11	100	11160	338.2	0.0	1.00
Tai A Chau	2868	2018/02/09	2018/03/13	32.5	100	16089	487.6	1.0	2.00
Pui O Wan	2891	2018/03/13	2018/04/17	34.85	97.3	3645	98.5	2.0	31.87
Total				99.01		30894	312.0		
			Impact Phase						
Site	Unit ID	Start	End	Days	%			Positive	Time Lost %
Shek Kwu Chau	IWMF_BU_20190305_01	2019/03/05	2019/04/11	37.91	100	4740	124.8	0.0	(
Tai A Chau	IWMF_20190411_02	2019/04/11	2019/05/23	41.94	100	7725	179.7	0.0	(
Pui O Wan	IWMF_20190411_01	2019/04/11	2019/05/23	42.02	100	23986	557.8	0.0	(
Total				121.9		36451	299.1		

Table 6.6 Summary Statistic Comparison of Baseline (2018) and Impact Phase (2019) Passive Acoustic Monitoring

- 6.3.2.4 Theodolite surveys were completed in May 2019. In total, 34 days of theodolite tracking were completed between February May 2019, comprising 167 hours and 49 minutes of observation. No Chinese white dolphin was observed and only one finless was recorded. The finless porpoise encounter rate was calculated as 0.006 finless porpoise per hour, in all weather conditions.
- 6.3.2.5 A total of 2620 vessels of ten different types were observed and tracked within or in the proximity of the IWMF construction site. These comprised fishing boats (236), speed boats (29), container boats (155), government boats (22), high speed ferries (53), others (13) and IWMF-Related construction platforms (974), tug boats(240), transportation boats (363), construction boats (531) and approximately 8 buoys were present marking the site boundary. The detailed Land-based Theodolite Tracking Report was presented in 5th Quarterly EM&A report and 17th Monthly EM&A report.
- 6.3.2.6 The baseline theodolite tracking was conducted immediately prior to and during the site preparation activities of the site. The baseline data records a decrease in porpoise sightings as site preparation activities commenced and notes that the decrease was most likely due to the onset of site preparation activities. The impact theodolite tracking conducted for this study records a marked increase in the number of Project related vessels and platforms and, in agreement with baseline conclusions, shows a concomitant decrease in finless porpoise sightings.

7. WHITE-BELLIED SEA EAGLE

7.1 WBSE Monitoring Parameters

- 7.1.1 The objective of the construction phase monitoring should be to verify the utilisation of the area by WBSE, their responses to construction disturbance, as well as the effectiveness of the proposed mitigation measures. Throughout the construction phase, field surveys should be conducted twice per month during their core breeding season (from December to May), and once per month outside their core breeding season (from June to November). The monitoring frequency should be increased to weekly during the incubation period of each year. In order to confirm their foraging ground near the construction site, it is necessary to conduct daily monitoring during the first week of nestling period in each year.
- 7.1.2 Since the location of the WBSE nest was located at the southwest of SKC within the hillside shrubland, it is impossible to observe the eggs during incubation period. Therefore, monitoring with increased frequency during incubation period could not be carried out. Daily monitoring will be carried out once any chick is recorded during the monitoring day.
- 7.2 Results and Observations
- 7.2.1 Three monitoring surveys for monthly construction phase were conducted during the reporting period, all three monitoring surveys were conducted outside their core breeding season (between June to November). Since there is no landing point along the western part of SKC, boat survey was used for the monitoring survey. In order to increase the chance of finding the WBSEs, monitoring survey was carried out either early in the morning or later in the afternoon. The weather conditions of monitoring survey were shown in **Table 7.1**.

Date	Condition	Temperature (°C)
27 October 2022	Northeast force 4 to 5Sunny	30
24 November 2022	East force 4 to 5Sunny	26
15 December 2022	North wind force 5Sunny	21
29 December 2022	Northeast wind force 5 to 6Sunny	19

- 7.2.2 Two adult WBSEs were recorded near Shek Kwu Chau area in the October, November and December 2022. No abnormal behaviors of the adults were recorded during the October, November and December 2022 construction phase monitoring. All marine works during the monitoring period did not show any impact to the WBSE.
- 7.2.3 Incubation activity was recorded during the monitoring on 29 December 2022.
- 7.2.4 The juvenile recorded in 2022 has not been observed since monitoring event in September 2022, it is suggested that the juvenile left the nest at SKC and nesting in other area outside our monitoring boundary.
- 7.2.5 No disturbances from anthropogenic activities on the island were recorded during the monitoring survey. No invasion of other fauna species was recorded as well.



Figure 7.1 Location of WBSE Nest on SKC

- 7.2.6 No invasion of other fauna species was recorded and no sign of using the construction site as a foraging ground was recorded as well.
- 7.2.7 During the reporting period, no abnormal behaviour of the recorded adults and juvenile was shown. All marine works during the forty-ninth to fifty-first months construction period did not show any influence on the WBSE.
- 7.2.8 Photo records of the WBSE taken during the reporting period are presented in **Appendix H**.

8. SUMMARY OF MONITORING EXCEEDANCE, COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

- 8.1 No exceedance of the Action and Limit Levels of the regular construction noise, coral and WBSE monitoring was recorded during the reporting period.
- 8.2 During the general water quality monitoring period for October to December 2022, forty (40) of the general water quality monitoring results of SS had exceeded Action Level during the reporting period, while fifty (50) exceedances of the Limit Level of SS were also recorded. Investigations were carried out immediately for each of the exceedance cases during the reporting period.
- 8.3 No notification of summons and prosecution was received in the reporting period.
- 8.4 Statistics on complaints, notifications of summons and successful prosecutions are summarized in **Appendix I**.

9. EM&A SITE INSPECTION

- 9.1 Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. Site inspections were carried out at the Site Portions 1, 1A, 1B during the reporting period. Portions 1, 1A & 1B were the sites near SKC within the Site boundary.
- 9.2 Joint site inspection with IEC was carried out on a monthly basis.
- 9.3 Minor deficiencies were observed during weekly site inspection. Key observations during the site inspections are summarized below:
 - Prevention actions for oil/chemical spillage were not carried out properly
 - Chemical was not stored properly at designated storage place
 - Chemical waste was not stored in chemical waste cabinet and the cabinet was not locked up
 - Non-road Mobile Machinery (NRMM) label was not displayed properly and faded NRMM label should be replaced
 - Stagnant water inside the drip tray of generator should be cleaned
 - EP, updated CNP and discharge license was not presented at the entrance of the site
 - Mitigation measure for preventing site runoff was not properly implemented
 - Geotextile was not properly deployed along the seawall
- 9.4 The Contractor had rectified all of the observations identified during environmental site inspections in the reporting period.
- 9.5 According to the EIA Study Report, Environmental Permit, contract documents and Updated EM&A Manual, the mitigation measures detailed in the documents, except the silt curtain system, are implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in **Appendix B**.

10. CONCLUSION AND RECOMMENDATIONS

- 10.1 This 18th Quarterly Environmental Monitoring and Audit (EM&A) Report summarizes the EM&A works undertaken during the period from 1 October 2022 to 31 December 2022 in accordance with the Updated EM&A Manual and the requirement under EP-429/2012/A and FEP-01/429/2012/A.
- 10.2 Construction noise, water quality, construction waste, coral, marine mammal and White-Bellied Sea Eagle (WBSE) monitoring were carried out in the reporting period. No project-related exceedance of the Action and Limit Levels was recorded during the reporting period.
- 10.3 Weekly environmental site inspections were conducted during the reporting period. Environmental deficiencies were observed during site inspection and were rectified.
- 10.4 According to the environmental site inspections performed in the reporting period, the Contractor was reminded to pay attention on on-site housekeeping, the proper storage of the chemicals, chemical waste and construction waste, dust control measure for exposed earth surface and stockpile of dusty material and the proper NRMM labelling.
- 10.5 No notification of summons or prosecution was received since commencement of the Contract.
- 10.6 The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Appendix A Master Programme

古 賀 西 格 新 - 紙 華川 KEPPEL SEGILIES - ZHEN HUA70	Activity Name	Original Duration	Remaining	Activity 9	Current Start	Current Finish	Late Start	Late Finish	Total Float M60 Remarks	rated Waste Managemer
			Duration	Complete						Nov 60
	and Construction Works WP6F-M60	3026 3026	1192 1003		22-Nov-17 A		02-Oct-22 11-Nov-22	05-Jan-26 05-Jan-26	-59 -59	
Key Dates		2843	403		22-Nov-17 A		11-Nov-22	03-Sep-25	-33	
Design and Construction		2787	347		22-Nov-17 A		11-Nov-22		0	
01-1000	Contract Award/Date of Acceptance of Tender	0	0	100%	22-Nov-17 A		11-Nov-22			
01-1010	Date of Commencement of the Design and the Works	0	0		15-Dec-17 A		11-Nov-22			
01-1015(3)(M12) 01-1020	Original Substantial Completion of the Works Extended Substantial Completion of The Works	0	0	0%		27-Jul-24* 09-Jul-25*		27-Jul-24 09-Jul-25	0	
Extension of Time Grant		347	347		27-Jul-24	09-Jul-25	27-Jul-24	09-Jul-25	0	
01-1015-1(3)(M12)	Extension of time granted (Claim No.1 to No.72) *Claim No.9 excluded	347	347		27-Jul-24	09-Jul-25	27-Jul-24	09-Jul-25	0	
Operation Phase		56	56		10-Jul-25	03-Sep-25		03-Sep-25	0	
01-1030	Commencement of Operation	0	0	0%	10-Jul-25	02 Son 25*	10-Jul-25	02 5 00 25	0	
01-1230 Planned Completion I	Issue Certificate of Completion of the Works (56 days after Substantial Completion)	887	887	0%		03-Sep-25* 05-Mar-26	30-Sep-23	03-Sep-25 05-Jan-26	-59	
01-1030(5a)	Grid Connection Agreement (GCA)	0	0	0%	· · ·	31-Oct-23*	30-3ep-23	30-Oct-23	0	
01-1040	Incoming Power Energization to IW MF Substation	0	0	0%		23-Jan-25		09-Jul-25	168	
01-1050	Export Power to Grid	0	0	0%	,	31-Oct-24*		31-Oct-24	0	
01-1060	Issuance of FS Certificate	0	0	0%		05-Jan-25		08-Jan-25	3	
01-1070	Completion of Civil Provision for Transmission	0	0	0%		30-Sep-23*		30-Sep-23	0	
01-1080	Commencement of C1.3.4.11 System Commissioning Test	0	0		06-Mar-25	Of Max OF	09-Jan-25	Of Jan OF	-56	
01-1090 01-1100	Completion of C1.3.4.11 System Commission Test Physical Completion of 90 Days Plant Commissioning Test Works	0	0	0%		31-Mar-25 16-Aug-25		31-Jan-25 18-Jun-25	-59 -59	
01-1110(3)(M15)	Planned Substantial Completion of the Works	0	0	0%		06-Sep-25		09-Jul-25	-59	
01-1110-1(5a)	Completion of 180 Days for Installation, T&C of CCTV System and Onshore Power System at Portion 2	0	0	0%		05-Mar-26*		05-Jan-26	-59	
Dates of Site Pocessio		2764	764		15-Dec-17 A	10-Jul-25	11-Nov-22	10-Jul-25	0	
01-1120	Possession of Portion 1	0	0	100%	,	15-Dec-17 A		11-Nov-22		
01-1130	Possession of Portion 1A	0	0	100%		15-Dec-17 A		11-Nov-22		
01-1140	Possession of Portion 1B	0	0	100%		15-Dec-17 A	10.1.1.05	11-Nov-22		
01-1150	Possession of Portion 2	0	0	0%	10-Jul-25	00 100 00*	10-Jul-25	00 lun 00	0	
01-1160 01-1170	Possession of Portion 3 Possession of Portion 4	0	0	0%		06-Jun-23* 06-Jun-23*		06-Jun-23 06-Jun-23	0	
01-1180	Possession of Portion 5	0	0	0%		06-Jun-23*		06-Jun-23	0	
01-1190	Possession of Portion 6	0	0		20-Oct-24*		09-Jan-25		81	
01-1200	Possession of Portion 7	0	0	100%	,	05-Jan-18 A		09-Jul-25		
01-1210	Possession of Portion 7A	0	0	100%	•	07-Dec-18 A		09-Jul-25		
01-1210(5a)	Possession of Portion 8	0	0		29-Apr-20 A		10-Jul-25			
01-1210-1(M55)	Possession of Portion 9	0	0	100%	10-Jun-22 A		10-Jul-25	40.1.05	700	
Contract Preliminar		56	40		14-Jun-22 A		02-Dec-24		733	
Employer's Accommo	dations Establishment of Employer's On Island Temporary Accommodation	56 56	40 40	00 E70/	14-Jun-22 A		02-Dec-24	10-Jan-25 10-Jan-25	733 733	
Licence/Permit App		2120	916	20.37 /	07-Mar-19 A		25-Oct-22	09-Jul-25	37	
License/Permit for Co		2120	916		07-Mar-19 A		23-Dec-22		37	
03-1360(2)	CNP for 24Hrs	2120	916	56.79%	07-Mar-19 A		06-Jan-23	09-Jul-25	37	
03-1370_1(M34)	Landscape and Visual Plan	180	180		30-Nov-22			20-Jun-23	23	30-Nov-22
Fire Services Installat	ions (FSI) Certificatie	0	0		29-Dec-22	29-Dec-22	29-Dec-22	29-Dec-22	0	
Fire Services Installation		0	0			29-Dec-22	29-Dec-22			
03-1555-1(5a)	Approval of General Building Plans and FSI Provision Design Submission	0	0	0%		29-Dec-22	30-Dec-22	29-Dec-22	0	
Air Pollution Control (03-1740(3)	(Specified Processes) License Document preparation for SP License Application (upon consent of relevent DDA designs)	60 60	60 60	0%	30-Dec-22	27-Feb-23		27-Feb-23 27-Feb-23	0	
Boilers and Pressure		302	60 60	0%	29-Mar-22 A		25-Oct-22	27-Feb-23	173	
03-1860(3)	Employment of Registered Examiner	90	30	66.67%	31-May-22		21-Jun-23	20-Jul-23	203	
03-1870(3)	Prepare boiler fabrication inspection plan	60	30		31-May-22		21-Jun-23	20-Jul-23	203	
03-1890(3)	Completion of Boiler off-site fabrication	180	30	83.33%	29-Mar-22 A	29-Dec-22	25-Oct-22	23-Nov-22	-36	
03-1900(3)	Completion of Boiler off-site inspection before delivery	60	60	0%	30-Nov-22	28-Jan-23	25-Oct-22	23-Dec-22	-36	30-Nov-22
General Submission	1S	1108	60		31-May-22	28-Jan-23	01-Nov-22	30-Dec-22	-29	
Contractor's Plans Su		1108	60		31-May-22		01-Nov-22		-29	
BEAM Plus Assessment		1108	60				01-Nov-22			
04-1500-1(1)	Provisional Assessment	1108 1660	60 227	94.58%	05-Sep-18 A		_	30-Dec-22 26-Dec-24	-29 531	
Design Submission General Building Plan		517	30		03-Mar-21 A			26-Jun-23	179	
General Building Plan	Process Building & Wastewater Treatment Plant	135	30 0	100%	03-Mar-21 A 03-Jun-21 A			29-Dec-22	30	I 30-
04-1610(M42)	Turbin Hall Building	135	0		03-Mar-21 A			29-Dec-22	30	30
04-1620(M42)	Compressor & CCCW Building	135	0		03-Mar-21 A			29-Dec-22	30	I 30-
04-1630(M42)	Chimney	135	0	100%	03-Mar-21 A	30-Nov-22	29-Dec-22	29-Dec-22	30	30-
04-1640(M42)	Mechanical Treatment Plant & Water Treatment Plant	135	0	100%	03-Jun-21 A	30-Nov-22	29-Dec-22	29-Dec-22	30	30-

3-Month F	lolling	Programme	(November	2022)
Page 1 of 17				

Remaining Work Actual Work

Critical Milestone

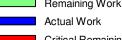
Critical Remaining Work

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ct No. EP/SF Facilities, Pl	2/66/12 hase 1	f	環境保 Environm	護署 ental Protectio	n Department
Dec		Jan	2023	Feb	
61		62		63	
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	08-J	an-23, Esta	ablishme	nt of Employe	er's On Island
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•	Approval of Ge	neral Build	ing Plans	and FSI Pro	vision Desic
·····					
30-Dec-22	;				
	29-Dec-22, Em	plovment	of Registe	ered Examine	er. Employm
	29-Dec-22, Pre				
	Completion of I				
				Jan-23, Comp	
			Prov	visional Asse	essment. 28-
					, 20
v-22, Process Building & v-22, Turbin Hall Buildin	g, Turbin Hall B	Freatment F Building, 30	Plant, Pro -Nov-22	cess Buildin	g & Wastewa
v-22, Compressor & CC				W Building, 3	30-Nov-22
v-22, Chimney, Chimney					
v-22, Mechanical Treatm		ater Treatm	ent Plan	t, Mechanical	Treatment P
	•				

KEPPEL SEGHERS - ZHEN HUAJO			D			1.00	Late Freed	Total Float M60 Remarks	rated Waste Management Facilities, Phase 1
	Activity Name	Original Duration	Remaining Duration	Activity % Currer Complete	Start Current Finish	Late Start	Late Finish	lotal Float M60 Remarks	Z022 Z023 Nov Dec Jan Fe 60 61 62 66
4-1650(M42)	Reception Pavilion	135	0	100% 03-J	In-21 A 30-Nov-22	29-Dec-22	29-Dec-22	30	30-Nov-22, Reception Pavilion, Reception Pavilion, 30-Nov-22
4-1660(M42)	Administration Building and Viewing Gallery	135	0	100% 03-J	In-21 A 30-Nov-22	29-Dec-22	29-Dec-22	30	30-Nov-22, Administration Building and Viewing Gallery, Administration Building
4-1670(M42)	Elevated Drive Way and Associated Structures	135	0		ar-21 A 30-Nov-22		29-Dec-22	30	30-Nov-22, Elevated Drive Way and Associated Structures, Elevated Drive W
4-1680(M42)	IW MF Substation	135	0		ar-21 A 30-Nov-22			30	30-Nov-22, IW MF Substation, IW MF Substation, 30-Nov-22
4-1690(M46)	ACC Equipment Structure	30	30		ov-22 29-Dec-22			0	30-Nov-22 29-Dec-22, ACC Equipment Structure
4-1730 IP Design Package S	Weighbridge	135 1562	22 171		or-22 A 21-Dec-22		26-Jun-23	459	21-Dec-22, Weighbridge, Weighbridge, 21-Dec-22
	Reclamation. Seawall. Breakwater. Berth (2.2)	424	60		av-21 28-Jan-23			263	
05-2970	Onshore crane Facility (2.2.11)	90	3		or-22 A 02-Dec-22		05-Nov-22	-27	Onshore crane Facility (2.2.11), 02-Dec-22, 02-Dec-22, Onshore crane Fac
05-2980	Onshore vessel power supply system (2.2.12)	135	60	80% 31-N	ay-21 28-Jan-23	20-Aug-23	18-Oct-23	263	28-Jan-23, Ons
AIP Incineration Plant B		1517	60	04-D	ec-18 A 28-Jan-23	29-Nov-22	20-Aug-24	570	
	gs and Fire Saftey Strategy (2.3.00)	136	0		II-21 A 30-Nov-22			0	
05-1210	Process Building & Wastewater Treatment Plant (2.3.00.01 & 2.5.00.01)	105	0		ug-21 A 30-Nov-22		29-Nov-22	0	Process Building & Wastewater Treatment Plant (2.3.00.01 & 2.5.00.01), 30-
05-3020 Operation Management	Site Master Layout Plan and Plant Layout (2.1.06)	105	0 45		II-21 A 30-Nov-22		29-IN0V-22 15-Feb-24	0 398	Site Master Layout Plan and Plant Layout (2.1.06), 30-Nov-22, 30-Nov-22, Sit
05-2250	Design of the Air Quality Monitoring Stations (2.9.01)	60	45 45		In-22 A 13-Jan-23			84	13-Jan-23, Design of the Air Qu
05-3840-1(M22)	Automatic Traffic Control System (ATCS) (2.10.06.12)	90	14		eb-22 A 13-Dec-22			429	13-Dec-22, Autom atic Traffic Control System (ATCS) (2.10.06.
()	n (excluding fire services installation design) (2.3.06)	1517	60		ec-18 A 28-Jan-23			570	
)5-1550	Electrical Services and Lighting	150	0	25% 02-J	an-19A 30-Nov-22	29-Dec-22	29-Dec-22	30	30-Nov-22, Electrical Services and Lighting, Electrical Services and Lighting
05-1560	MVAC (6 Packages)	105	60	25% 02-J	an-19A 28-Jan-23	30-May-23	28-Jul-23	181	28-Jan-23, MVA
05-1570	Odour Control	135	60		ec-18 A 28-Jan-23	30-May-23	28-Jul-23	181	28-Jan-23, Odo
5-1580	Plumbing (7 Packages)	210	60	25% 31-J	an-19 A 28-Jan-23	12-Jan-24	11-Mar-24	408	28-Jan-23, Plun
05-1590	Drainage (7 Packages)	135	60		an-19 A 28-Jan-23	12-Jan-24	11-Mar-24	408	
05-1600	ELV (7 Packages)	135	0		eb-19 A 30-Nov-22			30	I 30-Nov-22, ELV (7 Packages), ELV (7 Packages), 30-Nov-22
5-1770	Vehicle & Container Wash System	60	60		ov-22 28-Jan-23	23-Feb-23	23-Apr-23	85	30-Nov-22 28-Jan-23, Vehi 29-Dec-22, Water Cannon System, Water Can
05-1770-1(M20)	Water Cannon System	135	30		ug-19 A 29-Dec-22		20-Aug-24	600	29-Dec-22, Water Cannon System, Water Can
P Fire services installa eception Pavilion (2.3		270 270	30 30		ot-19 A 29-Dec-22		09-May-23 09-May-23	131 131	
15-5460(M22)	Fire Systems (2.3.05.06.01)	270	30		ct-19 A 29-Dec-22		09-May-23	131	29-Dec-22, Fire Systems (2.3.05.06.01), Fire S
05-5470-1(M22)	FS schematics (2.3.05.06.03)	135	30		ct-19 A 29-Dec-22		09-May-23	131	29-Dec-22, FS schematics (2.3.05.06.03), FS
, ,	nt Plant Building (2.4)	181	90		an-21 A 27-Feb-23			378	
	n (excluding fire services installation design) (2.4.06)	181	90	10-J;	an-21 A 27-Feb-23	21-Feb-23	11-Mar-24	378	
05-1700	LV and Emergency Power Distribution Design	135	60	5% 18-J	an-22 A 28-Jan-23	12-Jan-24	11-Mar-24	408	28-Jan-23, LV a
)5-1720	Odour Control	90	90		ov-22 27-Feb-23			83	30-Nov-22
)5-1740	Drainage	90	10		an-21 A 09-Dec-22			121	09-Dec-22, Drainage, Drainage, 09-Dec-22
P Wastewater Treatmen	nt Plant (2.5) In (excluding fire services installation design) (2.5.06)	<u> </u>	60 60		an-19 A 28-Jan-23 an-19 A 28-Jan-23			353 353	
05-1830	LV and Emergency Power Distribution Design (2.5.06.01)	135	60		an-19A 28-Jan-23		16-Jan-24	353	28-Jan-23, LV a
05-1840	MVAC (2.5.06.02)	135	60		an-19A 28-Jan-23	17-Apr-23	15-Jun-23	138	28-Jan-23, MVA
05-1850	Odour Control (2.5.06.03)	105	60	5% 31-D	ec-21 A 28-Jan-23	23-Apr-23	21-Jun-23	144	28-Jan-23, Odo
5-1860	Plumbing (2.5.06.04)	135	60	25% 31-J	an-19A 28-Jan-23	17-Apr-23	15-Jun-23	138	28-Jan-23, Plun
5-1870	Drainage (2.5.06.05)	135	60	25% 31-J	an-19A 28-Jan-23	02-Apr-23	31-May-23	123	28-Jan-23, Drai
5-1880	ELV (2.5.06.06)	135	60	25% 01-F	eb-19 A 28-Jan-23	22-May-23	20-Jul-23	173	28-Jan-23, ELV
Water Treatment Pla		135			or-19 A 28-Jan-23				
	In (excluding fire services installation design) (2.6.06)	135	60		or-19 A 28-Jan-23			108	
15-1960	Electrical Services and Lighting (2.6.06.01)	135	60		or-19 A 28-Jan-23		16-May-23	108	28-Jan-23, Elec
5-2000 Administration Build	Drainage	135	10 60		ar-22 A 09-Dec-22 ct-19 A 28-Jan-23		· · · ·	121 168	09-Dec-22, Drainage, 09-Dec-22
5-2050	Electrical and instrum entation works design (2.7.03)	90			ay-22 28-Jan-23			168	28-Jan-23, Elec
	n (excluding fire services installation design) (2.7.05)	135			ct-19 A 28-Jan-23	-		46	
5-2080	MVAC	135	60	65% 31-C	ct-19 A 28-Jan-23	15-Jan-23	15-Mar-23	46	28-Jan-23, MVA
IWMF Substation (2.		180	30		ot-19 A 29-Dec-22			39	
j-2170	Electrical and instrumentation works design (2.8.03) (14 Packages)	180	30		ct-19 A 29-Dec-22			39	29-Dec-22, Electrical and instrumentation work
Chimney		151	60		ep-21 A 28-Jan-23			368	
uilding services desig 5-5430(5a)	In (excluding fire services installation design) Electrical Services and Lighting	151	60 60		ep-21 A 28-Jan-23 ep-21 A 28-Jan-23		31-Jan-24 31-Jan-24	368 368	
5-5440(5a)	MVAC	90	30		ep-21 A 28-5an-23		17-Mar-23	78	28-Jan-23, Elec 29-Dec-22, MVAC, MVAC, 29-Dec-22
5-5450(5a)	Plumbing	90	60		ep-21 A 28-Jan-23		24-Jan-24	361	28-Jan-23, Plun
5-5460-1(5a)	Drainage	90	60		ep-21 A 28-Jan-23		24-Jan-24	361	28-Jan-23, Drai
5-5470(5a)	ELV	90	60		ep-21 A 28-Jan-23			368	28-Jan-23, ELV,
5-5490(5a)	Building Management System (BMS)	90	60	5% 27-C	ct-21 A 28-Jan-23		13-Sep-23	228	28-Jan-23, Build
	and Associated Structures Foundation	105	60		ec-21 A 28-Jan-23		· · ·	48	
uilding services desig	n (excluding fire services installation design)	105	60		ec-21 A 28-Jan-23			48	
5-7090	Electrical Services and Lighting	105	60		ec-21 A 28-Jan-23			48	28-Jan-23, Elec
P Roads and Utilities (820			ct-20 A 28-Jan-23			278	
	sign on the Artificial Island (2.10.04) Water Tanks (2.10.04.05)	<u>820</u> 60	60 60		ov-22 28-Jan-23			<u>174</u> 9	30-Nov-22 28-Jan-23, Wat
15-2360	··· (2.0. Tallito (2.10.07.00)							174	30-100-22 28-Jan-23, Wat
)5-2360)5-2370-2(M24)	Building Services system for segwater intake (2.10.04.09)	105	60	50/ 01 /					
5-2360 5-2370-2(M24)	Building Services system for seawater intake (2.10.04.09)	105	60	5% 31-C	ct-20 A 28-Jan-23	23-May-23	21-Jui-23	174	

3-Month Rolling	Programme	(November 2022)
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Critical Remaining Work

	Activity Name	Original Duration	Remaining Duration	Activity % Current Start Complete	Current Finish	Late Start	Late Finish	Total Float	t M60 Remarks	Nov
05-2370-3(5a)	Chemical scrubber system for odour control (2.10.04.10)	105	60	5% 31-Oct-21	A 28-Jan-23	23-May-23	21-Jul-23	174	L	60
	cation and other utilities (2.10.06)	590	5		A 04-Dec-22	-	02-Nov-23	333		
05-2380	Power Distribution System concept / schematics (2.10.06.01)	135	1	5% 31-Jan-21	A 30-Nov-22	02-Nov-23	02-Nov-23	337		
05-2430	Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)	105	5	80% 31-May-22	04-Dec-22	04-Dec-22	08-Dec-22	4		
Utility ducts/Pipebridge		455	60		28-Jan-23	23-Jan-23	19-Sep-23	234		
05-2460	Design of Pipe / Utilities Trenches concept (2.10.06.09.01)	105	60	5% 01-May-21		22-Jul-23	19-Sep-23	234		
05-2470 Layout Plan for Pipe B	Sitewide Utilities Trenches Design (2.10.06.09.02)	105	60 30	5% 01-May-21	28-Jan-23 29-Dec-22	23-Jan-23 04-Jul-23	23-Mar-23 20-Aug-23	54 234		
05-6010	Pipebridge B	60	30	50% 31-May-22		22-Jul-23	20-Aug-23 20-Aug-23	234		
05-6020	Pipebridge C	60	30	50% 31-May-22		04-Jul-23	02-Aug-23	216		
AIP Architectural, Finishe	es and Landscaping Works (2.11)	699	61		29-Jan-23	06-Feb-23	15-Feb-24	382	2	
External and internal fin		439	10		A 09-Dec-22	20-Apr-23	20-Jul-23	223		
05-2570	External and internal finishes design for MT Plant Building (2.11.02)	105	10	45% 31-Oct-20 /		11-Jul-23	20-Jul-23	223		
05-2590	External and internal finishes design for the Water Treatment Plant Building (2.11.04)	105	10	25% 30-Sep-21		11-Jul-23	20-Jul-23	223		
05-2600	External and internal finishes design for the Administration Building (2.11.05)	105	10	45% 31-Oct-20 /		20-Apr-23	29-Apr-23	141		
Landscaping Works (2.1 05-2620	Landscape Masterplan & Landscape Design for Water Feature (2.11.07.01)	180 105	30 30	45% 19-Jun-20	29-Dec-22	06-Feb-23 06-Feb-23	07-Mar-23 07-Mar-23	68 68		!
05-2920 3(M34)	Landscape Architectural Design for MT Plant Building and Water Treatment Plant Building (2.11.07.07)	105	30	5% 16-Jun-22		06-Feb-23	07-Mar-23	68		
05-2920 4(M34)	Landscape Architectural Design for Administration Building (2.11.07.08)	105	30	5% 08-May-20		06-Feb-23	07-Mar-23	68		,
Facade Structural Desig		242	61	-	A 29-Jan-23	17-Nov-23	15-Feb-24	382		
05-8040-1(6D)	Reception Pavilion (2.3.14.07.01)	90	60	5% 05-Oct-21 /		18-Dec-23		383		
05-8050-1(6D)	Mechanical Treatment Plant & Desalination Plant Building (2.4.14.01)	90	60	5% 08-Mar-22	A 28-Jan-23	18-Nov-23	16-Jan-24	353	3	
05-8060-1(6D)	Adminstration Building and Viewing Gallery (2.7.12.01)	90	60	5% 07-Dec-21	A 28-Jan-23	18-Nov-23	16-Jan-24	353	8	
05-8080-1(6D)	Elevated Driveway and Associated Structures	91	61	5% 26-Aug-21	A 29-Jan-23	17-Nov-23	16-Jan-24	352	2	
AIP Testing and Commiss		105	60		A 28-Jan-23	25-Jul-23	22-Sep-23	237		
05-2650-1(5)	Factory Acceptance Testing plan (2.12.01.02-07) (8 Packages)	105	60	5% 23-Apr-19		25-Jul-23	22-Sep-23	237		
AIP Transportation Facili 05-2690	ities for the Operation (2.13) Design of vehicles for MSW and Ash and Residues delivery (2.13.0.1)	105 105	37 37	30-Sep-20 65% 30-Sep-20	A 05-Jan-23	02-Jan-23 02-Jan-23	07-Feb-23 07-Feb-23	33 33		
AIP Miscellaneous Works		865	105		A 14-Mar-23		07-Feb-23 07-May-23			
05-2710	Design of process related CCTV and existing onshore crane replacement works at Portion 2 (2.14.01)	105	105	0% 30-Nov-22			23-Mar-23	9		30-Nov-
05-2720	Design of visitors and environmental education facilities (2.14.02)	105	60	5% 31-Oct-20 /			07-May-23	99		
IP Miscellaneous Detail		90	90		27-Feb-23		26-Aug-23			
05-2740	Gatehouses (2.15.03)	90	90	5% 25-May-22	27-Feb-23	29-May-23	26-Aug-23	180		
05-2750	W eighbridge office (2.15.04)	90	30	5% 25-May-22	29-Dec-22	28-May-23	26-Jun-23	179)	
AIP Auxiliary Plant Syste		90			27-Feb-23		23-Apr-23			
05-2770	Vehicle Fuel Filling Station (2.16.02)	90	90	0% 30-Nov-22		24-Jan-23		55		30-Nov-3
AIP O&M Packages 05-8010(6E)	Warehouse (O&M Scope)	258 185	171 73	5% 04-Jul-22 A	10-Eeb-23		08-Jul-24 02-Dec-23	416 295		!
05-8030(6E)	Ash & Residues Container (O&M Scope)	160	69	5% 06-Jun-22		22-Feb-24	30-Apr-24	449		
05-8040(6E)	Bicar Debagging Station (O&M Scope)	105	171	5% 17-Nov-22		20-Jan-24	· ·	416		17-Nov-22 A
DA Design Package S		1660	227		A 14-Jul-23	30-Nov-22	26-Dec-24	531		
DA Processand Layout	t Design (21)	621	122	22-Apr-20/	A 31-Mar-23	11-Jan-23	18-Oct-24	567		
	design for incineration (2.1.13)	348	122	22-Apr-207	A 31-Mar-23	12-Apr-23	18-Oct-24	567	·	
05-5090	Incineration System (2.1.13.01) (2 Packages)	105	76	5% 22-Apr-20			26-Jun-23	133		
05-5100	Heat Recovery Boiler (2.1.13.02) (2 Packages)	105	76	5% 23-Apr-20		· ·	26-Jun-23	133		
05-5140	Overall Plan Water Scheme (2.1.13.07)	105	122	5% 29-Jan-21		19-Jun-24		567		
05-5150	Boiler Feed Water System (21.1.3.03) (2 Pack ages)	105	6	45% 23-Apr-20		-	09-Aug-23	247		
05-3510	edesign for mechanical treatment (2.1.14) Water Treatment Plant and Boiler Water Treatment (Demin Unit) Plant	105 105	64 64	5% 02-Oct-20 /	01-Feb-23		02-Jun-23 02-Jun-23	121 121		
	d Power generation system (2.1.15)	105			A 28-Jan-23					
05-5240	Compressed Air Plants	105	60	25% 30-Sep-21			24-Dec-23	330		
Flue gas treatment proc	ess design for incineration (2.1.16)	105	121		A 30-Mar-23	11-Jan-23	11-May-23	42	2	
05-4660	Flue Gas Treatment System (2 Packages)	105	121	80% 23-Apr-20	A 30-Mar-23	11-Jan-23	11-May-23	42	2	
05-4980	Boiler ash and APC residue handling and solidification (2 Packages)	105	25	80% 30-Sep-20	A 24-Dec-22	17-Apr-23	11-May-23	138	8	
	esign for MSW and Ash and Residues (21.17)	105	47	~	A 15-Jan-23	_				
05-4390	Weighbridge Systems	105	1	5% 25-Aug-21		· ·	25-Sep-23	299		
05-4410	Mechanical Shredder	105	47	5% 25-Sep-21		· · ·	26-May-23	131		
05-3430-2(M37)	Reclamation, Seawall, Breakwater, Berth (2.2) Geotechnical Interpretative Report (2.2.02.02)	816 105	20 10	65% 31-Dec-20	A 19-Dec-22		02-Mar-24 05-Jan-23	439 27		
05-3450	Seawall design (2.2.20)	60	20	65% 20-Jan-19			02-Mar-24	439		
05-3430	Berth design (2.2.20)	60	20	65% 30-Jan-19/			25-Apr-23	127		
DDA Incineration Plant B		1554	227		A 14-Jul-23		29-Apr-24			
	ntation works design (2.3.15)	1478	121		A 30-Mar-23		29-Apr-24	396		
2.3.15.01		105	62	05-Nov-21	A 30-Jan-23	21-Jan-23	23-Mar-23	52	2	
05-3360	11kV/380V Power Transformers Design (23.15.01)	105	62	80% 05-Nov-21		21-Jan-23		52		
E&IC Package 1 (Proce		378	108		A 17-Mar-23		19-Sep-23	186		
05-3370	Electric Heat Tracing (Process Island) (2.3.15.0.2.10)	120	105	5% 17-Feb-22	14-Mar-23	22-Feb-23	06-Jun-23	84	1	
05-3390-10(M55)	Electrical Works - MCC Panels (2.3.15.02.01)	105	16	80% 22-Sep-20			19-Aug-23	247		

3-Month Rolling Program	ne (November 2022)
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Remaining Work Actual Work

Actual Milestone

Critical Milestone

Critical Remaining Work

Milestone

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ct No. EP/SP Facilities, Pl		R	閱Ç保護署 ivironmental Protection Dep	arlment
Dec		Jan	2023 Feb	
61		62	 3 28-Jan-23, Chemical :	corubbo
	L			
			ics (2.10.06.01), Power D Is concept / schematics (
			28-Jan-23, Design of I28-Jan-23, Sitewide U	
	r		ipebridge B, 29-Dec-22 ipebridge C, 29-Dec-22	
09-Dec-22, External	and internal fin	ishes design	for MT Plant Building (2. for the Water Treatment for the Administration Bu	Plant B
	29-Dec-22, Lar	ndscape Arch	terplan & Landscape Des itectural Design for MTP itectural Design for Admi	lant Bui
			 28-Jan-23, Reception 28-Jan-23, Mechanica 28-Jan-23, Adminstra 	l Treatn tion Bui
			 29-Jan-23, Elevated 28-Jan-23, Factory Action 	
	05-Jan-	23, Design of	f vehicles for MSW and A	
	L		28-Jan-23, Design of v	isitors
	29-Dec-22, W e	eighbridge off	ice (2.15.04), Weighbridç	je office
			10-Feb-23, A	
				eb-23, Ir eb-23, H
05-Dec-22, Boiler Feed V	VaterSystem(2.1.13.03)(2	Packages), Boiler Fæd	Water §
			01-Feb-23, Water	Treatm
			28-Jan-23, Compress	ea Air P
24-D	ec-22, Boiler a	sh and APC r	esidue handling and soli	dificatio
ov-22, Weighbridge Syste	ems, Weighbri		, 30-Nov-22 , Mechanical Shredder, M	1echanio
			.2.02.02), Geotechnical Ir eawall design (2.2.20), 1	
			h design (2.2.22), 19-Dec	
			30. 100 22 111/1//00	
			<u> </u>	
15-Dec-22, Ele	ctrical Works	- MCC Panel	ls (2.3.15.02.01), Electric	al Work

古 第 五 格 新 - 紙 筆 型 4 REPPELSEGNERS-ZHEN HUAJOINT	Activity Name	Original Duration	Remaining Duration	Activity % Current Start Complete	Current Finish	Late Start	Late Finish	Total Float M60 Remarks	ated Waste Manag
		Duration	Duration	Complete					60
05-3390-11(M55)	Electrical Works - Process Island Uninterruptable Power Supply (UPS) (2.3.15.02.03)	105	16	80% 27-Nov-20 A		04-Sep-23	19-Sep-23		
05-3390-13(M55)	Electrical Works E&I Installation at Yard (2.3.15.02.08)	105	32	25% 07-May-22		08-Dec-22	08-Jan-23	8	
05-3390-6(M55)	Electrical Works Instrumentation (2.3.15.02.06)	105	20 108	80% 15-Oct-21 A 5% 12-Jul-21 A		26-Jan-23 11-Feb-23	14-Feb-23	57	
05-7400-1(M55) E&IC Package 2 (Power Is)	Electrical works CEMS and Process Analysers (2.3.15.02.07)	105 773	52	16-Sep-19 A		02-Dec-22	29-May-23 29-Apr-24	73 465	
05-3390-13(M55)10	Electrical Works Design (2.3.15.03.01 to 04)	105	30	80% 23-Dec-20 A		02-Dec-22 02-Dec-22	31-Dec-22	2	
05-3390-4(M46)	Generator Related Equipment (2.3.15.03.08)	105	52	80% 29-Jun-21 A		30-Jul-23	19-Sep-23	242	
05-3390-7(M55)	Instrumentation works design(2.3.15.03.05 & 2.3.15.03.06)	105	32	80% 10-Feb-21 A	31-Dec-22	21-May-23	21-Jun-23	172	
🛓 Control Works Design S	CADA & PLC Control System (23.15.03.07)	592	45	16-Sep-19 A	13-Jan-23	13-Feb-23	29-Apr-24	472	
05-3390-1(M46)	Hardware Design (2.3.15.03.07.01)	105	24	65% 16-Sep-19 A		06-Apr-24	29-Apr-24	493	
05-3390-2(M46)	Software Design (2.3.15.03.07.02)	105	45	45% 30-Oct-21 A		13-Feb-23	29-Mar-23	75	
05-3390-3(6D)	Functional Description Specification (FDS) of Power Island (2.3.15.03.07.03)	105	31	65% 31-Dec-21 A		27-Feb-23	29-Mar-23	89	
Operation Management S 05-3390-7(M46)	System (2.3.15.04) Software Standard Component	1478 105	121 60	05-Sep-18 A 5% 09-Dec-20 A		22-Dec-22 01-Mar-24	29-Apr-24 29-Apr-24	396 457	
05-7400(6E)	Automatic License Plate and Container Recognition System (ALPCRS)	105	121	45% 05-Sep-18 A			29-Apr-24 21-Apr-23	22	
2.3.15.04.02		105	52	30-Oct-21 A		24-May-23	· ·	175	
05-3390-6(M46)	OMS/SCADA/DCS - System Networks Details (2.3.15.04.02)	105	52	65% 30-Oct-21 A	-	24-May-23		175	
2.3.15.04.03		410	105	15-Dec-21 A	14-Mar-23	14-Jul-23	29-Apr-24	412	
2.3.15.04.03.01		105	0	15-Dec-21 A		14-Jul-23	14-Jul-23	227	
05-3390-8(M46)	OMS/SCADA/DCS - OLM Panel Design for Power Island (2.3.15.04.03.01.02)	105	0	80% 15-Dec-21 A		14-Jul-23	14-Jul-23	227	
2.3.15.04.03.02	ONE/CCADA/DCS_ Date Design for Device laterd and Plant Common (2.3.15.04.03.00)	105	105	02-Aug-22 A		16-Jan-24	29-Apr-24	412	
05-3390-13(M58) 2.3.15.04.03.03	OMS/SCADA/DCS - Panel Design for Power Island and Plant Commom (2.3.15.04.03.02)	105 105	105 35	80% 02-Aug-22 A 19-Apr-22 A		16-Jan-24 26-Mar-24	29-Apr-24 29-Apr-24	412 482	
05-3390-14(M55)	OMS/SCADA/DCS - Server Panel Design (2.3.15.04.03.03)	105	35	80% 19-Apr-22 A		26-Mar-24	29-Apr-24	482	
2.3.15.04.06		105	31	06-Oct-21 A		15-Jul-23	14-Aug-23	227	
05-3390-9(6D)	Process Related 3rd Party System (2.3.15.04.06.01.01)	105	31	80% 09-Dec-21 A	30-Dec-22	15-Jul-23	14-Aug-23	227	
05-3420(M58)	3rd Party System for Power Island & Communication Data Tables for Process Vol 1 and Power Island & Plant C. Vol 1 & 2	105	30	80% 06-Oct-21 A	29-Dec-22	15-Jul-23	13-Aug-23	227	
2.3.15.05		105	121	15-Jul-21 A		26-Feb-23	17-Sep-23	171	
05-3390-15(M55)	Balance of Plant LV Switchgear Design (2.3.15.05.01)	105	119	80% 07-May-22		28-Feb-23	26-Jun-23	90	
05-3390-16(M55)	Package 3 (Balance of Plant) - Weighbridge Electrical & Instrumentation Package & ALPCRS (23.15.05.07)	105	121	45% 04-Jan-22 A		26-Feb-23	26-Jun-23	88	
05-3390-17(M55)	Waste Crane Functional Description (23.15.05.08)	105	47	80% 15-Jul-21 A		02-Aug-23	17-Sep-23	245	
05-3390-3(M55) 05-3390-5(M55)	Electrical and Instrumentation Works Design - Compressed Air Plants (2.3. 15.05.03) Electrical and Instrumentation Works - Ash Crane (23.15.05.05)	105 105	0 32	80% 29-Nov-21 A 80% 30-Aug-21 A		07-Jul-23 16-Aug-23	07-Jul-23 16-Sep-23	220 259	
2.3.15.07		105	105	27-Sep-21 A		16-Jan-24	29-Apr-24	412	
05-3390-20(M55)	SCADA & PLC Control System - Software Design (2.3.15.07.02)	105	105	5% 27-Sep-21 A		16-Jan-24	29-Apr-24	412	
2.3.15.08		105	105	23-May-22	14-Mar-23	16-Jan-24	29-Apr-24	412	
05-3390-21(M55)	Operation Management System (2.3.15.08)	105	105	80% 23-May-22	14-Mar-23	16-Jan-24	29-Apr-24	412	
Mechanical works design ((2.3.16)	1323 1323	227 227	28-Feb-19 A 28-Feb-19 A		09-Dec-22 05-Feb-23	23-Jan-24 25-Sep-23	193 73	
Plant and Equipment 05-3390-4(M55)	Electrical and Instrumentation Works - Waste Crane and Grapple System (2.3.16.01.02)	105	47	70% 07-Jan-20 A		02-Aug-23	17-Sep-23		
05-3580	Weighbridge Systems	105	62	5% 30-Mar-22 A		26-Jul-23	25-Sep-23	238	
05-3610	Incineration System (9 Packages)	105	148	5% 28-Feb-19 A		15-Mar-23	09-Aug-23	105	
05-3620	Heat Recovery Boiler (8 Packages)	105	227	5% 31-Jul-19 A	14-Jul-23	05-Feb-23	19-Sep-23	67	
05-3630	Boiler Feed Water Systems (4 Packages)	105	10	45% 30-Sep-19 A	26-Apr-23	31-Jul-23	09-Aug-23	105	
05-3790	Flue Gas Treatment System (12 Pack ages)	105	227	25% 31-Oct-19 A	14-Jul-23	10-Feb-23	24-Sep-23	72	
05-3800	Boiler ash and APC residue handling and solidification	105	0	70% 09-Jun-20 A	29-Jun-23	09-Aug-23	09-Aug-23	42	
05-3820	Air cooled condenser	105	0	5% 30-Jul-20 A			14-Feb-23		
05-3830	Compressed Air Plants	105	47	5% 31-Oct-20 A		22-Apr-23	07-Jun-23	143	
Process Pipeworks (Incl.	Ductworks) and Valves Process island (furnace-boiler-FGC)	562	227	29-Feb-20 A		09-Dec-22	13-Oct-23	91	
05-3840	Process Island (turnace-boller-FGC) Pipe Rack C1, C2, C3, D1 & D2 (Prefab.3)	105 105	227 147	5% 29-Feb-20 A 5% 28-Feb-21 A		04-Feb-23 20-May-23	18-Sep-23 13-Oct-23	66 171	
05-4350	Compressed Air Plantarea	105	47	45% 31-May-21		20-May-23 22-Apr-23	07-Jun-23	143	
05-4370	Pipebridge B (Between CCCW Area & Turbine Hall)	105	47	5% 28-Feb-21 A		13-Apr-23	29-May-23	134	
05-4380	Pipebridge C (Between Turbine Hall & ACC Equipment Yard)	105	47	5% 28-Feb-21 A		13-Apr-23	29-May-23	134	
05-4950	Turbine Hall	105	47	80% 31-May-21	15-Jan-23	06-May-23	21-Jun-23	157	
05-4960	ACC Equipment Yard	105	47	65% 31-May-21	15-Jan-23	09-Dec-22		9	
05-4970	CCCW Area	105	47	65% 31-May-21	15-Jan-23	13-Apr-23	29-May-23	134	
	support (For eqipment, piping & duct, cable tray etc)	105	166	29-May-21	14-May-23	16-Mar-23	01-Sep-23	110	
05-3540	Pipe Rack C1, C2, C3, D1 & D2 (Prefab.3)	105	166	80% 29-May-21	14-May-23	16-Mar-23	28-Aug-23	106	
05-3560	Pipebridge B (Between CCCW Area & Turbine Hall)	105	47	5% 29-May-21	15-Jan-23	26-Mar-23	11-May-23	116	
05-3570	Pipebridge C (Between Turbine Hall & ACC Equipment Yard)	105	47	5% 10-Jun-21 A		17-Jul-23	01-Sep-23	229	
Equipment and piping in	sulation Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Station (PRDS)	135 105	90 47	31-Dec-21 A 5% 30-Jan-22 A		26-Jul-23 14-Nov-23	23-Jan-24 30-Dec-23	330 349	
05-4550	Air cooled condenser	105	47	5% 31-Dec-21 A		26-Jul-23	10-Sep-23	238	
	Closed Circuit Cooling Water System	105	60	5% 31-Dec-21 A		25-Nov-23	23-Jan-24	330	
05-4560		90	90	30-Nov-22		30-Dec-22		38	
05-4560 05-4570	(excluding fire services installation design) (2.3.18)		90	0% 30-Nov-22		30-Dec-22	_	30	30-Nov
05-4550 05-4560 05-4570 Building services design (05-3690	Electrical Services and Lighting (7 Packages)	90							
05-4560 05-4570 Building services design (05-3690		90 90	90	0% 30-Nov-22	27-Feb-23	30-Dec-22	29-Mar-23	30	30-Nov-
05-4560 05-4570 Building services design (05-3690 05-3740	Electrical Services and Lighting (7 Packages) ELV (7 Packages)							J J	
05-4560 05-4570 Building services design (05-3690 05-3740	Electrical Services and Lighting (7 Packages)				Rema	aining Work		• • • • • •	estone

ct No. EP/SP Facilities, Pl		環境保護署 Environmental Protaction Department
Dec		2023 Jan Feb
61		62 63
	31-Dec-22, E	Process Island Uninterruptable Power Supplementation at Yard (2.3. Installation at Yard (2.3. Prks Instrumentation (2.3.15.02.06), Electrical
		ctrical Works Design (2.3.15.03.01 to 04), El 20-Jan-23, Generator Related Equipm nstrumentation works design(2.3.15.03.05 &2.
23-De		e Design (2.3.15.03.07.01), Hardware Design (13-Jan-23, Software Design (2.3.15.03.07.02 Inctional Description Specification (FDS) of F
		28-Jan-23, Software Standard
		20-Jan-23, OMS/SCADA/DCS - Syste
v-22, OMS/SCADA/DCS	- OLM Panel [Design for Power Island (2.3.15.04.03.01.02),
	🗖 03-Jan-23	, OMS/SCADA/DCS - Server Panel Design (
		ocess Related 3rd Party System (2.3.15.04.0 Party System for Power Island & Communic
] 15-Jan-23, Waste Crane Functional Descri
v-22, Electrical and Instr		orks Design - Compressed Air Plants (2.3.15 Electrical and Instrumentation Works - Ash Cr
		1 15-Jan-23, Electrical and Instrumentation N 30-Jan-23, Weighbridge Sy
		1 15-Jan-23, Compressed Air Plants, Compr
		 15-Jan-23, Compressed Air Plantarea, Co 15-Jan-23, Pipebridge B (Between CCCW 15-Jan-23, Pipebridge C (Between Turbine 15-Jan-23, Turbine Hall, Turbine Hall, 15-Ja 15-Jan-23, ACC Equipment Yard, ACC Equipment Yard, ACC Equipment Yard, ACC Equipment Science Accession
		15-Jan-23, Pipebridge B (Between CCCW 15-Jan-23, Pipebridge C (Between Turbine
		15-Jan-23, Steam Turbine Generator (STG) 15-Jan-23, Aircooled condenser, Aircoole

古 第 西 柊 新 - 紙 華 KEPPELSEGIIERS-2012N HUAR	都 含 余 小 OINT VENTURE 「Activity Name	Orininal	Remaining	Activity % Current Start	Current Finish	Late Start	Late Finish	Total Float M60 Remarks	ed Waste Manag
		Original Duration	Duration	Complete		Luo olari	Lastinion	internet internet	Nov 60
05-3750	Lifts and Escalators	90	90	0% 30-Nov-22	27-Feb-23	07-Jan-23	06-Apr-23	38	30-Nov-22
-	gs and Fire Saftey Strategy (2.3.25)	377	60	31-Jul-21 A		30-Nov-22	08-Jun-23	131	
05-3290	Process Building & Wastewater Treatment Plant Turbine Hall Building	60 105	60 30	0% 13-Jun-22 A 25% 29-Dec-21 A		10-Apr-23 30-Nov-22	08-Jun-23 29-Dec-22	131	
05-3320	Compressor & CCCW Building	105	30	25% 29-Dec-21 A		30-Nov-22	29-Dec-22 29-Dec-22	0	
05-3340	Elevated Drive Way and Associated Structures	105	30	25% 31-Jul-21 A		30-Nov-22	29-Dec-22	0	
05-4290	IW MF Substation (2.8.25)	105	30	5% 31-Jul-21 A	29-Dec-22	10-Feb-23	11-Mar-23	72	
05-4800	IW MF Site Wide Architectural Details	105	30	5% 20-Nov-21 A	29-Dec-22	30-Nov-22	29-Dec-22	0	
	ent Plant Building (2.4)	151	90			07-Jan-23		95	
05-5170 05-5180	Foundation design (2.4.13) Structural design (2.4.14)	60 60	32 60	70% 28-Sep-22 A 0% 29-Sep-22 A		03-Mar-23 04-Apr-23	03-Apr-23 02-Jun-23	93 125	
	gn (excluding fire services installation design) (2.4.18)	90	90	30-Nov-22		07-Jan-23	16-May-23	78	
05-3860	MVAC	90	90		27-Feb-23	16-Feb-23	16-May-23	78	30-Nov-22
05-3910	Lifts and Escalators	90	90	0% 30-Nov-22	27-Feb-23	07-Jan-23	06-Apr-23	38	30-Nov-22
DDA Wastewater Treatm		232	144	31-May-22	-		13-Sep-23	144	
05-3960 Building services desir	Mechanical works design (2.5.16) (5 Packages) gn (excluding fire services installation design) (2.5.18)	232	49 84	5% 31-May-22 24-Jun-22 A		21-Jun-23 22-Jun-23	<u> </u>	203 144	
05-4000	Odour Control	90	84	0% 24-Jun-22 A			13-Sep-23	144	
DDA Water Treatment P	lant Building (2.6)	267	89	11-Apr-22 A	26-Feb-23	17-Feb-23	08-Apr-24	407	
05-4060	Foundation design (2.6.13)	60	32	70% 28-Sep-22 A		03-Mar-23	· ·	93	
05-4070	Structural design (2.6.14)	60	60	0% 29-Sep-22 A		04-Apr-23	02-Jun-23	125	
05-4090	Mechanical works design (2.6.16) gn (excluding fire services installation design) (2.6.18)	90	62 89	5% 02-May-22 29-Jun-22 A		07-Feb-24 17-Feb-23	08-Apr-24 16-May-23	434 79	
05-4120	MVAC	90	89	0% 29-Jun-22 A		17-Feb-23		79	
	entation works design (2.6.15)	238	55	11-Apr-22 A	23-Jan-23		23-May-23	120	
05-4080	Water Treatment Plant (WTP) - Variable Speed Drive (2.6.15.01)	238	55	5% 11-Apr-22 A			23-May-23	120	
DDA Administration Bui 05-4180	Foundation design (2.7.11)	288	105	28-Apr-22 A			03-Jul-23	111	
	gn (excluding fire services installation design) (2.7.15)	105	75 105	45% 28-Apr-22 A 30-Nov-22		20-Apr-23 07-Jan-23	03-Jul-23 16-May-23	141 63	
05-4220	Electrical Services and Lighting	105	105		14-Mar-23	01-5a1-23		63	30-Nov-2
05-4280	Lifts and Escalators	90	90	0% 30-Nov-22	27-Feb-23	07-Jan-23	06-Apr-23	38	30-Nov-22
DDAIWMF Substation (213	90	15-Mar-22 A			28-May-23	90	
05-4340	Fire services installation design (2.8.17)	60	60	0% 30-Nov-22	28-Jan-23		06-Feb-23	9	30-Nov-22
05-4990	gn (excluding fire services installation design) (2.8.18) Electrical Services and Lighting	90 90	60 30	01-May-22 5% 01-May-22		29-Apr-23	28-May-23 28-May-23	120 150	
05-5010	Plumbing	60	60	0% 30-Nov-22	28-Jan-23	09-Dec-22		9	30-Nov-22
05-5020	Drainage	60	60	0% 30-Nov-22	28-Jan-23	09-Dec-22	06-Feb-23	9	30-Nov-22
05-5030-1	Building Management System (BMS)	60	60	0% 30-Nov-22			06-Feb-23	9	30-Nov-22
Electrical and instrume 2.8.15.06	entation works design (2.8.15)	90 90	30 30		27-Feb-23 27-Feb-23	09-Mar-23	07-Apr-23 07-Apr-23	<u>39</u> 39	
05-4320	Electrical and instrumentation works design (2.8.15.06.01 to 40)	90	30	0% 15-Mar-22 A			07-Apr-23	39	
DDA Air Cool Condense	ers Equipment (2.3.06)	60	60	30-Nov-22	28-Jan-23	11-Dec-22	08-Feb-23	11	
	gn (excluding fire services installation design) (2.3.06)	60	60	30-Nov-22	28-Jan-23	11-Dec-22	08-Feb-23	11	
05-5520 DDA Chimney	Plumbing	60 91	60 90	0% 30-Nov-22 14-Mar-22 A		_	08-Feb-23	11 146	30-Nov-22
05-5370	Structural Design	90	90	5% 14-Mar-22 A		25-Apr-23		146	
Building services desig	gn (excluding fire services installation design)	90	60	29-Jun-22 A	28-Jan-23	06-Feb-23	06-Apr-23	68	
05-6050-1(5a)	Lift	90	60	0% 29-Jun-22 A			06-Apr-23	68	
DDA Elevated Drive Wa 05-5380	y and Associated Structures Foundation Structural Design	189 189	189 189	29-Dec-21 A 5% 29-Dec-21 A			18-Sep-23 18-Sep-23	<u>104</u> 104	
DDA Reception Pavilion	-	120	60	08-May-20			03-Nov-23	279	
05-3280	Foundation Design	90	60	5% 09-Apr-21 A		_	03-Nov-23	279	
05-5390	Structural Design	105	60	5% 08-May-20			28-Jun-23	151	
DDA Roads and Utilities		484			28-Apr-23		26-Dec-24	608	
Sewerage design on th 05-4440-1(M55)	e Artificial Island (2.1.0.14) Ship-to-shore Sewage Transfer System for WMF Vessels (Caisson 13)	122 90	60 4	13-Jan-21 A 45% 13-Jan-22 A			26-Dec-24 26-Dec-24	698 754	
05-4440-2(M55)	Ship-to-shore Sewage Transfer System for Passenger Ferry	90	60	45% 13-Jan-21 A			08-Jun-23	131	
Drainage system desig	n on the Artificial Island (2.1 0.15)	105	60	31-Dec-21 A	28-Jan-23	04-Aug-23	02-Oct-23	247	
05-5320	First Flush Drainage System concept	105	60	45% 31-Dec-21 A		-	02-Oct-23	247	
Water supply system d 05-5290	esign on the Artificial Island (2.10.16) Water Tanks	<u>241</u> 90	150 90	04-Apr-22 A 0% 29-Jan-23		_	03-Nov-23 07-May-23	<u>189</u> 9	
05-5300	External FS Systems	90	90	0% 30-Nov-22			08-Mar-23	9	30-Nov-2
05-5300-1(M24)	E&M system for seawater intake (2.10.16.07)	105	75	5% 04-Apr-22 A			03-Nov-23	264	
. ,	ication and other utilities (2.10.18)	217	95			-	12-Sep-23	192	
05-3400 (M21)	Computerised Maintenance Management System (CMMS) (2.10.18.10)	105	30	80% 24-May-22			31-Dec-22	2	
05-3410 (M21)	Information and Document Management System (IDMS) (2.10.18.11)	105	60	45% 10-May-22	28-Jan-23	15-Jul-23	12-Sep-23	227	
05-4590 05-4610	Site Lighting Concept / Schematics Site ELV Network System - Communications System concept / schematics	90 75	90 75	0% 30-Nov-22 0% 30-Nov-22	27-Feb-23 12-Feb-23	07-Feb-23 24-Dec-22	07-May-23 08-Mar-23	69 24	30-Nov-2 30-Nov-2
05-4620	Site ELV Network System - Security Systems concept / schematics	75	75	0% 30-Nov-22	12-Feb-23		08-Mar-23	24	30-Nov-2

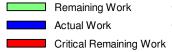
Critical Remaining Work

♦ Milestone

Facilities, P		Jan	2023	Feb
61		62		63
	Turbine Hall B		28-Jan-23, Pro c-22, 29-Dec-22,	ocess Building
	Compressor & Elevated Drive 29-Dec-22, IW IW MF Site W	& CCCW Build e Way and Ass /MF Substation ide Architectur	ing, 29-Dec-22, 2 ociated Structure 1 (2.8.25), IWMF al Details, 29-De	29-Dec-22, Cor es, 29-Dec-22, Substation (2. ec-22, 29-Dec-2
			28-Jan-23, Str	
	21 Dec 22		3, Mechanical wo	
	, 31-Dec-22,		28-Jan-23, Str	
		23	Jan-23, Water T	reatment Plant 12-Feb-23, Fc
1	29-Dec-22, El	ectrical Servic	28-Jan-23, Fir es and Lighting, 28-Jan-23, Plu 28-Jan-23, Dra 28-Jan-23, Bu	Electrical Serv
			28-Jan-23, Plu	Imbing
] 28-Jan-23, Lift	, Lift, 28-Jan-2
			28-Jan-23, Foi 28-Jan-23, Str	undation Desig uctural Design
Dec-22, Ship-to-shore	Sewage Trans	fer System for	IWMF Vessels (28-Jan-23, Sh 28-Jan-23, Fir	ip-to-shore Sev
		29-Jan-23		12-Feb-23, E
	29-Dec-22, Co	omputerised M	aintenance Mana 1 28-Jan-23, Info	gement Syster ormation and D
				12-Feb-23, Si 12-Feb-23, Si

	Activity Name	Original Duration	Remaining Duration	Activity % Complete	Current Start	Current Finish	Late Start	Late Finish	Total Float M60 Remarks	s Nov
										60
05-4630	Site ELV Network System - Navigation aids concept / schematics Microwave transmission of FS direct link	90	90 35		05-Dec-22 22-Aug-22 A			08-Mar-23 01-Feb-23	4 29	05-De
	s and Landscaping Works (2.11)	333			-	14-Mar-23		17-Dec-23	29	
External and internal finis		120	90		10-Aug-22 A		01-Dec-22		233	
05-4670	External and internal finishes design for Incineration Plant Building (2.11.15)	90	90	5%	19-Sep-22 A	27-Feb-23	21-Jul-23	18-Oct-23	233	
05-4690	External and internal finishes design for Turbine Hall Building	90	9	5%	10-Aug-22 A	08-Dec-22	28-Feb-23	08-Mar-23	90	
05-4700	External and internal finishes design for CCCW Building	90	9		10-Aug-22 A		10-Oct-23	18-Oct-23	314	
05-4710	External and internal finishes design for Chimney	90	62		02-Sep-22 A		27-Jul-23	26-Sep-23	239	
05-4740	External and internal finishes design for the Wastewater Treatment Plant (2.11.17)	90	30		19-Sep-22 A		19-Sep-23	18-Oct-23	293	
05-4770	External and internal finishes design for the IW MF Substation (2.11.20)	90 105	9 105		10-Aug-22 A 29-Jun-22 A		01-Dec-22 08-Mar-23		1 98	
Landscaping Works (2.11. 05-4780-1(6C)	Landscape Architectural Design for Turbine Hall Building (2.11.19.04)	105	105		29-Jun-22 A		08-Mar-23	20-Jun-23	98	
05-4780-5(6C)	Landscape Architectural Design for IWMF Substation (2.11.07.10)	105	105		11-Jul-22 A				98	
05-4780-6(6C)	Landscape Architectural Design for Process Building (2.11.07.11)	105	105		10-Aug-22 A			20-Jun-23	98	
Facade Structural Design		244	90		07-Apr-22 A	27-Feb-23	15-Dec-22	17-Dec-23	293	
05-8010(M45)	IWMF Sub-station	90	90	0%	30-Nov-22	27-Feb-23	15-Dec-22	14-Mar-23	15	30-Nov-22
05-8020(6D)	Process Building & Wastewater Treatment Plant (2.6.14.01)	90	60		07-Apr-22 A				323	
DDA Testing and Commiss		260			-	30-May-23		22-Jan-24	237	
05-4810	Factory Acceptance Testing plan (2.12.09.01) Factory Acceptance Testing plan (2.12.09.02-07) (8 Packages)	90	90 122		30-Nov-22			09-Mar-23 22-Jan-24	10 237	30-Nov-22
05-4810-1(5a) 05-4810-2(M55)	Factory Acceptance lesting plan (2.12.09.02-07) (8 Packages) FAT of DCS - Software SIL FAT Plant for Process Island (2.12.09.03.01)	105	122		13-Jun-22 A 19-May-22		23-Sep-23 09-Nov-23	18-Nov-23	344	
()	lies for the Operation (2.13)	341	183			31-May-23		03-Jul-23	33	
05-4850	Design of vehicles for MSW and Ash and Residues delivery (2.13.05)	341	146		25-Jun-22 A	· · ·	08-Feb-23		33	
05-4860	Design of marine vessels for the use of the Employer and visitors (2.13.06)	183	183	0%	30-Nov-22	31-May-23	02-Jan-23	03-Jul-23	33	30-Nov-22
DDA Auxiliary Plant Syster	ms (2.16)	289	196		26-Apr-22 A	13-Jun-23	02-Dec-22	21-Jul-23	38	
05-4940-2(5a)	Hoisting systems (2.16.10)	196	196	0%	30-Nov-22	13-Jun-23	02-Dec-22	15-Jun-23	2	30-Nov-22
05-4940-3(6E)	EOTC System (2.16.11)	90	106	5%	26-Apr-22 A		· ·	21-Jul-23	128	
rocurement of Majo		1000	360		29-Mar-20 A			05-Apr-24	133	
ff-site Fabrication of Ir	ncineration Modules	825	185		26-Nov-20 A		_	10-Jun-23	8	
Material Procurement	Machaniael Environment Material Onlynianian and Amangal	606			28-Feb-21 A	-		22-Apr-23	84	
06-1000-1(1) 06-1000-3(1)	Mechanical Equipment Material Submission and Approval Electrical and Instrumentation Material Submission and Approval	180	0 60		30-Apr-22 A 28-Feb-21 A	29-May-22 A		22-Feb-23 22-Apr-23	84	
Fabrication of Module (TP)	••	703				02-Jun-23			-42	
PFab 1- Line 1		367	84		04-Feb-22 A		02-Oct-22	24-Dec-22	-59	
Mechanical Erection		251	29		04-Feb-22 A	28-Dec-22	02-Oct-22	10-Nov-22	-48	
06-TPU-1-1100	PFab 1-Line 1 Mechanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate)	80	12		04-Feb-22 A		30-Oct-22	10-Nov-22	-31	
06-TPU-1-1110	PFab 1-Line 1 Mechanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator)	80	21		22-Feb-22 A		21-Oct-22	10-Nov-22	-40	
06-TPU-1-1120	PFab 1-Line 1 Mechanical Installation - 3rd Floor(EL26.72m~EL37.72m) (Including Boiler Ash Transport)	80	24		06-May-22		18-Oct-22	10-Nov-22	-43	
06-TPU-1-1130 06-TPU-1-1250	PFab 1-Line 1 Mechanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	80	29		18-Jun-22 A		13-Oct-22	10-Nov-22	-48	
Piping Installation	PFab 1-Line 1 Mechanical Installation - Boiler Lifting & Installation	80	10 15		24-Jun-22 A	14-Dec-22	02-Oct-22 02-Oct-22	11-Oct-22 16-Oct-22	-59 -59	
06-TPU-1-1000	PFab 1-Line 1 - Piping installation	150	15		05-Jul-22 A			16-Oct-22	-59	
E&I Fabrication		180	3			02-Dec-22	02-Oct-22	04-Oct-22	-59	
06-TPU-1-1230	PFab 1-Line 1 - E&I Fabrication	180	3	98.33%	14-Apr-22 A	02-Dec-22	02-Oct-22	04-Oct-22	-59	
E&I Installation		101	40		09-Sep-22 A	08-Jan-23	02-Oct-22	10-Nov-22	-59	
06-TPU-1-1260	PFab 1-Line 1 - E&I Support Installation	45	11		09-Sep-22 A		02-Oct-22	12-Oct-22	-59	
06-TPU-1-1270	PFab 1-Line 1 - E&I Cable Ladder Erection	30	2	93.33%	17-Oct-22 A		18-Oct-22	19-Oct-22	-59	
Electrical 06-TPU-1-1280	PFab 1-Line 1 - Electrical Cable Pulling and Term ination	64 30	38 30	0%	04-Nov-22 A 08-Dec-22		02-Oct-22 10-Oct-22	08-Nov-22 08-Nov-22	-59 -59	
06-TPU-1-1280	PFab 1-Line 1 - Electrical Gable Pulling and Termination PFab 1-Line 1 - Electrical Equipment Installation	26	26		08-Dec-22 05-Dec-22*		07-Oct-22	08-1N0V-22 01-Nov-22	-59	08-05-De
06-TPU-1-1300	PFab 1-Line 1 - Electrical Heat Tracing Installation	26	6		03-Dec-22 04-Nov-22 A		26-Oct-22	31-Oct-22	-59	
06-TPU-1-1340	PFab 1-Line 1 - MCC room installation	25	10		05-Nov-22 A		02-Oct-22	11-Oct-22	-59	Α
Instrument		45	30		25-Nov-22 A		12-Oct-22	10-Nov-22	-59	
06-TPU-1-1310	PFab 1-Line 1 - Instrument Cable Pulling and Termination	30	30	0%	10-Dec-22	08-Jan-23	12-Oct-22	10-Nov-22	-59	
06-TPU-1-1320	PFab 1-Line 1 - Instrument Equipment Installation	26	9		25-Nov-22 A		14-Oct-22	22-Oct-22	-59	lov-22 A, 25-Nov-22 A
06-TPU-1-1330	PFab 1-Line 1 - Instrument Tubing Installation	26	26	0%	12-Dec-22		14-Oct-22	08-Nov-22	-59	
	PFab 1-Line 1 - Insulation	150	40	79.000/	23-May-22		02-Oct-22	10-Nov-22	-59	
06-TPU-1-1020		150	40 30	13.33%	23-May-22 24-Dec-22		02-Oct-22 26-Oct-22	10-Nov-22 24-Nov-22	-59 -59	
Precommissioning 06-TPU-1-1030	PFab 1-Line 1 - Pre-commissioning	30	30	0%	24-Dec-22 24-Dec-22		26-Oct-22 26-Oct-22	24-Nov-22 24-Nov-22	-59	
Load out & Shipping		20	20			11-Feb-23	25-Nov-22		-59	
06-TPU-1-1040	PFab 1-Line 1 - Load out & ready to ship	20	20			11-Feb-23		14-Dec-22	-59	
Delivery		10	10		12-Feb-23	21-Feb-23	15-Dec-22	24-Dec-22	-59	
06-TPU-1-1350	PFab 1-Line 1 - Delivery	10	10	0%	12-Feb-23			24-Dec-22	-59	
PFab 1- Line 2		371	89			26-Feb-23	_	30-Dec-22	-58	
Mechanical Erection	PFab 1-Line 2 - Mechanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate)	242 80	21 11		04-Feb-22 A 04-Feb-22 A			02-Nov-22 02-Nov-22	-48 -38	
06-TPU-2-1120										

3-Month Rolling	Programme	(November 2022)
Page 6 of 17		



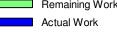
Critical Milestone

ct No. EP/SP Facilities, Pl		P	環境保護 Environment 2023	署 al Protection Departmen
Dec 61		Jan 62	2023	Feb 63
	03-Jan-23	Microwo	o tronomioo	ion of ES direct link
	03-Jan-23	, wicroway		
08-Dec-22, External a 08-Dec-22, External a	· · · · · · · · · · · · · · · · · · ·		n for CCCW	
	·		nternal finisl	nes design for the Wa MF Substation (2.11.2
	}			
			28-Jan	-23, Process Buildin
09-Dec-22, FAT of D0	CS - Software	SIL FAT Pla	ant for Proce	ess Island (2.12.09.03
	·			
			🗖 28-Jan	-23, Electrical and In
				/ EL20.47m) (Includir por(EL20.47m~EL26.
P	Fab 1-Line 1 N	lechanical	Installation	Floor(EL26.72m~EL - 4th Floor(EL37.72m tallation, 09-Dec-22,
PFab 1-Line 1 -	Piping installa	tion, 14-De	ec-22, 14-De	c-22, PFab 1-Line 1
b 1-Line 1 - E&I Fabrica	tion, 02-Dec-2	2, 02-Dec-2	22, PFab 1-l	ine 1 - E&I Fabricati
	·			Dec-22, PFab 1-Line ec-22, 17-Dec-22, PF
	30-Dec-22, Pl PFab 1-Line 1	ab 1-Line - Electrical	1 - Electrica Heat Tracin	lectrical Cable Pullin al Equipment Installat ig Installation, 29-Dec c-22, PFab 1-Line 1
	08-J ine 1 - Instrum	an-23, PFa ent Equipm	b 1-Line 1 - ent Installat	Instrument Cable Pu ion, 20-Dec-22, 20-D
2	·			strument Tubing Insta 08-Jan-23, 08-Jan-23
24-Dec-22		2	2-Jan-23, P	Fab 1-Line 1 - Pre-co
	00			
	23-J	an-23 💻	12-Feb	-23 2 1-Feb-23, PI
				v EL20.47m) (Includi 47m~EL26.72m) (Inc

06-TPU-2-1150 PFab 1-Line 2 - Mech 06-TPU-2-1230 PFab 1-Line 2 - E&I F E&I Fabrication PFab 1-Line 2 - E&I F 06-TPU-2-1230 PFab 1-Line 2 - E&I F 06-TPU-2-1260 PFab 1-Line 2 - E&I F 06-TPU-2-1260 PFab 1-Line 2 - E&I F 06-TPU-2-1260 PFab 1-Line 2 - E&I F 06-TPU-2-1280 PFab 1-Line 2 - E 06-TPU-2-1330 PFab 1-Line 2 - E 06-TPU-2-1330 PFab 1-Line 2 - Instruent 06-TPU-2-1310 PFab 1-Line 2 - Instruent 06-TPU-2-1320 PFab 1-Line 2 - Instruent 06-TPU-2-1010 PFab 1-Line 2 - Instruent 06-TPU-2-1020 PFab 1-Line 2 - Instruent 06-TPU-2-1030 PFab 1-Line 2 - Delivent 06-TPU-2-1030 PFab 1-Line 2 - Delivent 06-TPU-2-1030 PFab 1-Line 3 - Tertiant Delivery Ochtrue Fabrication 06-TPU-3-1030 PFab 1-Line 3 - Tertiant Structure Fabrication Ochtrue S - Delivent 06-TPU-3-1030 PFab 1-Line 3 - Mech 06-TPU-3-1030 PFab 1-Line 3 - Mech 06-TPU-3-1030 PFab 1-Line	Support Installation Cable Ladder Erection etrical Cable Pulling and Term ination etrical Equipment Installation etrical Heat Tracing Installation croom installation rument Cable Pulling and Termination rument Cable Pulling and Termination rument Equipment Installation rument Equipment Installation rument Tubing Ins tallation lation commissioning d out & ready to ship very ary Structure Fabrication Floor(EL37.72m ~ EL47.22m) Primary & Secondary Steel Structure Erection Floor(EL47.22m ~ EL54.47m) Prim ary & Secondary Steel Structure Erection Floor(EL47.22m ~ EL54.47m) Prim ary & Secondary Steel Structure Erection ary Structure Fabrication hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 3rd Floor(EL27.72m ~ EL47.22m) (Including Boiler Ash Transport) hanical Installation - 4th Floor(EL37.72m ~ EL47.22m) (Including Air Ducts)	Original Duration 80 80 80 80 80 80 80 80 80 80 80 80 180 180 180 180 40 45 45 40 30 26 27 30 200 10 10 10 200 200	Duration 111 211 11 211 11 111	73.759 98.759 93.899 24.449 15.569 09 09 09 09 09 09 09 09 09 09 09 09 09	i 14-Apr-22 A i 09-Sep-22 A i 09-Sep-22 A i 09-Sep-22 A i 18-Dec-22 A i 11-Dec-22 A i 14-Dec-22 A i 17-Feb-23 A i 17-Feb-23 A i 26-Nov-20 A i 26-Nov-20 A i 26-Nov-20 A i 11-Jul-22 A i 03-Aug-22 A i 14-Jan-22 A	20-Dec-22 30-Nov-22 10-Dec-22 10-Dec-22 10-Dac-22 10-Dac-22 10-Dac-22 11-Jan-23 16-Jan-23 16-Jan-23 08-Jan-23 08-Jan-23 08-Jan-23 08-Jan-23 08-Jan-23 16-Jan-23 08-Jan-23 16-Jan-23 16-Jan-23 16-Jan-23 27-Jan-23 16-Feb-23 19-Dec-22 19-Dec-22 04-Dec-22 04-Dec-22 04-Dec-22 04-Dec-22 04-Dec-22 04-Dec-22 04-Dec-22	16-Oct-22 10-Jan-23 10-Jan-23 10-Oct-22 16-Oct-22 16-Oct-22 22-Oct-22	02-Nov-22 03-Oct-22 13-Oct-22 13-Oct-22 13-Nov-22 19-Nov-22 20-Dec-22 20-Dec-22 30-Dec-22 29-Jan-23 29-Jan-23 29-Jan-23 29-Jan-23	-38 -38 -48 -58 -58 -58 -58 -58 -58 -58 -58 -58 -5			Dec Jan Feb 61 62 63 P Fab 1-Line 2 - Mechanical Installation - 3rd Floor(EL26.72m~EL37 PFab 1-Line 2 - Mechanical Installation - 4th Floor(EL37.71 PFab 1-Line 2 - Mechanical Installation - Boiler Lifting & Installation, 30-Nov-22 PFab 1-Line 2 - Mechanical Installation - Boiler Lifting & Installation, 30-Nov-22 PFab 1-Line 2 - E& Fabrication, 10-Dec-22, 10-Dec-22, PFab 1-Line PFab 1-Line 2 - E& Fabrication, 10-Dec-22, 10-Dec-22, PFab 1-Line PFab 1-Line 2 - E& Fabrication, 10-Dec-22, 10-Dec-22, PFab 1-Line PFab 1-Line 2 - E& Fabrication, 02-Nov-22 PFab 1-Line 2 - E& Fabrication, 10-Dec-22, 10-Dec-22, PFab 1-Line PFab 1-Line 2 - E& Fabrication, 02-Nov-22 18-Dec-22 08-Jan-23, PFab 1-Line 2 - Electrical Heat Tr 11-Dec-22 08-Jan-23, PFab 1-Line 2 - Electrical Heat Tr 11-Dec-22 04-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-22 08-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-22 08-J
06-TPU-2-1150 PFab 1-Line 2 - Mech 06-TPU-2-1230 PFab 1-Line 2 - E&I I 06-TPU-2-1230 PFab 1-Line 2 - E&I I 06-TPU-2-1250 PFab 1-Line 2 - E&I I 06-TPU-2-1260 PFab 1-Line 2 - E&I I 06-TPU-2-1260 PFab 1-Line 2 - E&I I 06-TPU-2-1280 PFab 1-Line 2 - E&I I 06-TPU-2-1280 PFab 1-Line 2 - E 06-TPU-2-1330 PFab 1-Line 2 - Istr 06-TPU-2-1330 PFab 1-Line 2 - Instr 06-TPU-2-1310 PFab 1-Line 2 - Instr 06-TPU-2-1320 PFab 1-Line 2 - Instr 06-TPU-2-1320 PFab 1-Line 2 - Instr 06-TPU-2-1010 PFab 1-Line 2 - Instr 06-TPU-2-1020 PFab 1-Line 2 - Instr 06-TPU-2-1030 PFab 1-Line 2 - Deliv Precommissioning Instrument 06-TPU-2-1340 PFab 1-Line 3 - Tertia Structure Fabrication Instrument 06-TPU-3-1340 PFab 1-Line 3 - Mech 06-TPU-3-1030 PFab 1-Line 3 - Mech 06-TPU-3-1030 PFab 1-Line 3 - Mech 06-TPU-3-1030 PFab 1-Line 3 - Mech	hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts) hanical Installation - Boiler Lifting & Installation Fabrication Support Installation Cable Ladder Erection trical Cable Pulling and Term ination ctrical Cable Pulling and Term ination ctrical Heat Tracing Installation croom installation croom installation rument Cable Pulling and Termination rument Cable Pulling and Termination rument Equipment Installation commissioning d out & ready to ship very ary Structure Fabrication Floor(EL37.72m ~EL47.22m) Primary & Secondary Steel Structure Erection Floor(EL47.22m ~ EL54.47m) Primary & Secondary Steel Structure Erection ary Structure Fabrication hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 2nd Floor(EL20.47m ~ EL47.22m) (Including Deaerator) hanical Installation - 3rd Floor(EL20.72m ~EL47.22m) (Including Boiler As h Transport) hanical Installation - 4th Floor(EL37.72m ~EL47.22m) (Including Air Ducts)	80 80 80 180 180 180 180 180 45 45 45 45 40 30 26 26 26 26 26 26 26 26 26 26 26 26 26 26 27 30 26 27 30 26 27 30 26 27 30 26 26 26 26 26 26 20 20 20 20 20 20 200	21 1 1 1 48 34 38 40 30 26 26 26 25 34 30 26 26 26 48 30 26 26 25 34 30 26 26 26 25 34 30 26 26 25 34 30 26 25 51 20 20 20 20 20 27 5 5 12 20 27 5 5 12 27 44	73.759 98.759 93.899 24.449 15.569 09 09 09 09 09 09 09 09 09 09 09 09 09	a 19-Jun-22 A b 19-Jun-22 A c 23-May-22 d 14-Apr-22 A o 99-Sep-22 A o 99-Sep-22 A o 99-Sep-22 A o 99-Sep-22 A o 98-Dec-22 A o 18-Dec-22 A o 18-Dec-22 A o 19-Dec-22 A o 14-Dec-22 A o 08-Dec-22 A o 26-Nov-20 A o 26-Nov-20 A o 26-Nov-20 A o	20-Dec-22 30-Nov-22 10-Dec-22 10-Dec-22 10-Dac-22 10-Dac-22 10-Dac-22 11-Jan-23 16-Jan-23 16-Jan-23 08-Jan-23 08-Jan-23 08-Jan-23 08-Jan-23 08-Jan-23 16-Jan-23 08-Jan-23 16-Jan-23 16-Jan-23 16-Jan-23 27-Jan-23 16-Feb-23 19-Dec-22 19-Dec-22 04-Dec-22 04-Dec-22 04-Dec-22 04-Dec-22 04-Dec-22 04-Dec-22 04-Dec-22	13-Oct-22 03-Oct-22 03-Oct-22 03-Oct-22 03-Oct-22 03-Oct-22 03-Oct-22 03-Oct-22 03-Oct-22 10-Oct-22 11-Oct-22 11-Oct-22 11-Oct-22 11-Oct-22 11-Oct-22 17-Oct-22 17-Oct-22 03-Oct-22 03-Oct-22 11-Oct-22 03-Oct-22 03-Oct-22 03-Oct-22 11-Oct-22 01-Dec-22 01-Dec-22 11-Oct-22 01-Dec-22 10-Dec-22 10-Jan-23 10-Jan-23 10-Oct-22	02-Nov-22 03-Oct-22 13-Oct-22 13-Oct-22 13-Nov-22 05-Nov-22 14-Nov-22 19-Nov-22 20-Dec-22 20-Dec-22 30-Dec-22 30-Dec-22 29-Jan-23 29-Jan-23 29-Jan-23 20-Oct-22	-48 -58 -58 -58 -58 -58 -58 -58 -58 -58 -5			PFab 1-Line 2 - Mechanical Installation - 4th Floor(EL37.7 PFab 1-Line 2 - Mechanical Installation - Boiler Lifting & Installation, 30-Nov-22 PFab 1-Line 2 - E&I Fabrication, 10-Dec-22, 10-Dec-22, PFab 1-Line PFab 1-Line 2 - E&I Support Installation, 02- PFab 1-Line 2 - E&I Cable Ladder E 18-Dec-22 08-Jan-23, PFab 1-Line 2 - Electrical E 14-Dec-22 08-Jan-23, PFab 1-Line 2 - Electrical Heat Tr 11-Dec-22 04-Jan-23, PFab 1-Line 2 - Instrument 18-Dec-22 08-Jan-23, PFab 1-Line 2 - Instrument 18-Dec-22 08-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-22 108-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-23 108-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-24 108-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-25 108-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-26 108-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-27 108-Jan-23, PFab 1-Line 2 - Instrument 14-De
06-TPU-2-1240 PFab 1-Line 2 - Mech E&I Fabrication PFab 1-Line 2 - E&I I 06-TPU-2-1250 PFab 1-Line 2 - E&I I 06-TPU-2-1260 PFab 1-Line 2 - E&I I 06-TPU-2-1260 PFab 1-Line 2 - E&I I 06-TPU-2-1280 PFab 1-Line 2 - Elect 06-TPU-2-1280 PFab 1-Line 2 - Elect 06-TPU-2-1300 PFab 1-Line 2 - Instrument 06-TPU-2-1310 PFab 1-Line 2 - Instrument 06-TPU-2-1320 PFab 1-Line 2 - Instrument 06-TPU-2-1320 PFab 1-Line 2 - Instrument 06-TPU-2-1320 PFab 1-Line 2 - Instrument 06-TPU-2-1020 PFab 1-Line 2 - Instrument 06-TPU-2-1030 PFab 1-Line 2 - Delivery 06-TPU-2-1030 PFab 1-Line 3 - Tertian Structure Fabrication Oc 06-TPU-3-1100 PFab 1-Line 3 - Mech 06-TPU-3-1100 PFab 1-Line 3 - Mech 06-TPU-3-1100 PFab 1-Line 3 - Mech 06-TPU-3-1120 <	hanical Installation - Boiler Lifting & Installation Fabrication Support Installation Cable Ladder Erection Extrical Cable Pulling and Term ination Extrical Cable Pulling and Term ination Extrical Leat Tracing Installation Croom installation	80 180 180 180 180 180 180 180 45 45 45 40 30 26 26 26 26 26 26 26 26 26 26 26 26 26 26 26 27 30 26 27 30 26 27 30 26 26 26 26 26 26 26 20 20 20 20 20 200 200 200 200 <	1 11 11 48 34 38 40 30 26 26 25 34 30 26 26 48 48 51 51 20 20 10 10 136 20 20 27 5 12 27 5 12 27 44 16	98.75% 93.89% 24.44% 15.56% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	23-May-22 14-Apr-22 A 14-Apr-22 A 99-Sep-22 A 209-Sep-22 A 208-Dec-22 A 208-Dec-22 A 208-Dec-22 A 208-Dec-22 A 208-Dec-22 A 214-Dec-22 A 214-Dec-22 A 22-May-22 A 28-Dac-22 A 26-Nov-20 A 26-Nov-20 A 26-Nov-20 A 26-Nov-20 A 26-Nov-20 A 26-Nov-20 A 28-Dac-22 A 29-Nov-20 A 29-Nov-20 A 29-Nov-20 A 29-Nov-20 A 20-Nov-20 A 20-Nov-20 A </td <td>30-Nov-22 10-Dec-22 10-Dec-22 10-Dec-22 10-Dec-22 16-Jan-23 11-Jan-23 16-Jan-23 08-Jan-23 00-Jan-23 04-Jan-23 04-Jan-23 04-Jan-23 08-Jan-23 08-Jan-23 08-Jan-23 08-Jan-23 16-Jan-23 16-Feb-23 16-Feb-23 16-Feb-23 16-Feb-23 16-Feb-23 19-Dec-22 19-Dec-22 04-Dec-22 04-Dec-22 04-Dec-22 04-Dec-22 04-Dec-22</td> <td>03-Oct-22 03-Oct-22 03-Oct-22 03-Oct-22 03-Oct-22 03-Oct-22 03-Oct-22 03-Oct-22 10-Oct-22 11-Oct-22 03-Oct-22 03-Oct-22 03-Oct-22 11-Oct-22 01-Dec-22 01-Dec-22 21-Oct-22 11-Oct-22 01-Dec-22 11-Oct-22 01-Dec-22 10-Dec-22 10-Jan-23 10-Jan-23 10-Jan-23 16-Oct-22 16-Oct-22 16-Oct-22 16-Oct-22 16-Oct-22</td> <td>03-Oct-22 13-Oct-22 13-Oct-22 13-Oct-22 13-Nov-22 19-Nov-22 20-Dec-22 20-Dec-22 30-Dec-22 30-Dec-22 29-Jan-23 29-Jan-23 29-Jan-23 20-Dec-22 29-Jan-23 29-Jan-23 20-Oct-22</td> <td>-58 -58 -58 -58 -58 -58 -58 -58 -58 -58</td> <td></td> <td></td> <td>PFab 1-Line 2 - Mechanical Installation - Boiler Lifting & Installation, 30-Nov-22 PFab 1-Line 2 - E&I Fabrication, 10-Dec-22, 10-Dec-22, PFab 1-Line PFab 1-Line 2 - E&I Support Installation, 02- PFab 1-Line 2 - E&I Cable Ladder E 18-Dec-22 16-Jan-23, PFab 1-Line 2 - Electrical Heat Tr 11-Dec-22* 02-Jan-23, PFab 1-Line 2 - Electrical Heat Tr 18-Dec-22 04-Jan-23, PFab 1-Line 2 - Electrical Heat Tr 19-Dec-22* 04-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-22 08-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-22</td>	30-Nov-22 10-Dec-22 10-Dec-22 10-Dec-22 10-Dec-22 16-Jan-23 11-Jan-23 16-Jan-23 08-Jan-23 00-Jan-23 04-Jan-23 04-Jan-23 04-Jan-23 08-Jan-23 08-Jan-23 08-Jan-23 08-Jan-23 16-Jan-23 16-Feb-23 16-Feb-23 16-Feb-23 16-Feb-23 16-Feb-23 19-Dec-22 19-Dec-22 04-Dec-22 04-Dec-22 04-Dec-22 04-Dec-22 04-Dec-22	03-Oct-22 03-Oct-22 03-Oct-22 03-Oct-22 03-Oct-22 03-Oct-22 03-Oct-22 03-Oct-22 10-Oct-22 11-Oct-22 03-Oct-22 03-Oct-22 03-Oct-22 11-Oct-22 01-Dec-22 01-Dec-22 21-Oct-22 11-Oct-22 01-Dec-22 11-Oct-22 01-Dec-22 10-Dec-22 10-Jan-23 10-Jan-23 10-Jan-23 16-Oct-22 16-Oct-22 16-Oct-22 16-Oct-22 16-Oct-22	03-Oct-22 13-Oct-22 13-Oct-22 13-Oct-22 13-Nov-22 19-Nov-22 20-Dec-22 20-Dec-22 30-Dec-22 30-Dec-22 29-Jan-23 29-Jan-23 29-Jan-23 20-Dec-22 29-Jan-23 29-Jan-23 20-Oct-22	-58 -58 -58 -58 -58 -58 -58 -58 -58 -58			PFab 1-Line 2 - Mechanical Installation - Boiler Lifting & Installation, 30-Nov-22 PFab 1-Line 2 - E&I Fabrication, 10-Dec-22, 10-Dec-22, PFab 1-Line PFab 1-Line 2 - E&I Support Installation, 02- PFab 1-Line 2 - E&I Cable Ladder E 18-Dec-22 16-Jan-23, PFab 1-Line 2 - Electrical Heat Tr 11-Dec-22* 02-Jan-23, PFab 1-Line 2 - Electrical Heat Tr 18-Dec-22 04-Jan-23, PFab 1-Line 2 - Electrical Heat Tr 19-Dec-22* 04-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-22 08-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-22
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06-TPU-2-1250 PFab 1-Line 2 - E&I 3 06-TPU-2-1260 PFab 1-Line 2 - Elect 06-TPU-2-1270 PFab 1-Line 2 - Elect 06-TPU-2-1280 PFab 1-Line 2 - Elect 06-TPU-2-1280 PFab 1-Line 2 - Elect 06-TPU-2-1300 PFab 1-Line 2 - Instrument 06-TPU-2-1300 PFab 1-Line 2 - Instru 06-TPU-2-1300 PFab 1-Line 2 - Load Delivery 0 06-TPU-2-1300 PFab 1-Line 2 - Deliv PFab 1-Line 3 PFab 1-Line 3 - Tertia Structure Fabrication 0 06-TPU-3-110 PFab 1-Line 3 - Tertia Structure Fabrication 0 06-TPU-3-1100 PFab 1-Line 3 - Mech 06-TPU-3-1100 PFab 1-Line 3 - Mech 06-TPU-3-1120 PFab 1-Line 3 - Mech 06-TPU-3-1120 <td>And a secondary steel Structure Erection Provery Provide Lander Erection Provent Installation Provent Cable Pulling and Termination Provent Installation Provent Installation Provent Cable Pulling and Termination Provent Installation Provent Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) Phanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Boiler Ash Transport) Phanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)</td> <td>45 40 30 26 26 26 26 26 30 26 30 26 30 26 30 26 30 26 30 26 30 26 30 26 30 30 26 30 150 51 51 20 31 20 32 33 34 35 <td>38 40 30 26 25 34 30 26 26 26 48 48 51 51 51 20 20 20 10 10 10 10 51 20 20 20 10 11 51 20 20 20 10 11 6 20 20 10 11 10 12 5 5 12 20 20 10 10 10 20 20 20 20 20 20 20 20 20 20 20 20 20</td><td>15.569 09 09 09 09 09 09 09 09 09 0</td><td>99-Sep-22 A 99-Sep-22 A 924-Oct-22 A 98-Dec-22 18-Dec-22 14-Dec-22 22-May-22 08-Dec-22 28-Jan-23 17-Feb-23 17-Feb-23 26-Nov-20 A 27-Nov-20 A 28-Jan-23 28-Jan-23 28-Jan-23 28-Jan-23 28-Jan-23</td><td>02-Jan-23 11-Jan-23 16-Jan-23 08-Jan-23 02-Jan-23 04-Jan-23 04-Jan-23 04-Jan-23 04-Jan-23 06-Jan-23 08-Jan-23 08-Jan-23 08-Jan-23 08-Jan-23 16-Jan-23 16-Jan-23 16-Jan-23 16-Jan-23 16-Jan-23 16-Jan-23 16-Jan-23 27-Jan-23 16-Feb-23 16-Feb-23 26-Feb-23 26-Feb-23 19-Dec-22 19-Dec-22 04-Dec-22 11-Dec-22</td><td>03-Oct-22 08-Oct-22 21-Oct-22 21-Oct-22 11-Oct-22 11-Oct-22 11-Oct-22 11-Oct-22 11-Oct-22 11-Oct-22 11-Oct-22 17-Oct-22 17-Oct-22 03-Oct-22 03-Oct-22 03-Oct-22 03-Oct-22 01-Dec-22 01-Dec-22 21-Dec-22 16-Oct-22 10-Jan-23 16-Oct-22 21-Oct-22 22-Oct-22</td><td>05-Nov-22 14-Nov-22 19-Nov-22 19-Nov-22 05-Nov-22 07-Nov-22 19-Nov-22 19-Nov-22 19-Nov-22 19-Nov-22 19-Nov-22 19-Nov-22 19-Nov-22 10-Nov-22 10-Nov-22 10-Nov-22 10-Nov-22 10-Nov-22 10-Nov-22 10-Nov-22 20-Dec-22 30-Nov-22 20-Dec-22 30-Dec-22 30-Dec-22 30-Dec-22 30-Dec-22 30-Dec-22 30-Dec-22 30-Dec-22 30-Dec-22 30-Dec-23 29-Jan-23 29-Jan-23 29-Jan-23 20-Oct-22</td><td>58 -58 -58 -58 -58 -58 -58 -58 -58 -58</td><td></td><td></td><td>PFab 1-Line 2 - 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06-TPU-2-1260 PFab 1-Line 2 - E&I (IIII) 06-TPU-2-1270 PFab 1-Line 2 - Elect 06-TPU-2-1280 PFab 1-Line 2 - Elect 06-TPU-2-1280 PFab 1-Line 2 - Elect 06-TPU-2-130 PFab 1-Line 2 - Instru- 06-TPU-2-130 PFab 1-Line 2 - Instru- 06-TPU-2-1310 PFab 1-Line 2 - Instru- 06-TPU-2-1310 PFab 1-Line 2 - Instru- 06-TPU-2-1320 PFab 1-Line 2 - Instru- 06-TPU-2-1010 PFab 1-Line 2 - Instru- 06-TPU-2-1020 PFab 1-Line 2 - Instru- 06-TPU-2-1020 PFab 1-Line 2 - Instru- 06-TPU-2-1030 PFab 1-Line 2 - Deliv Pecommissioning 0 06-TPU-2-1030 PFab 1-Line 2 - Deliv PFab 1-Line 3 Structure Fabrication 06-TPU-2-1340 PFab 1-Line 3 - Tertia Structure Fabrication 0 06-TPU-3-110 PFab 1-Line 3 - Mech 06-TPU-3-1100 PFab 1-Line 3 - Mech 06-TPU-3-1100 PFab 1-Line 3 - Mech 06-TPU-3-1120 PFab 1-Line 3 - Mech 06-TPU-3-1120 PFab 1-Line 3 - Mech	And a secondary steel Structure Erection Provery Provide Lander Erection Provent Installation Provent Cable Pulling and Termination Provent Installation Provent Installation Provent Cable Pulling and Termination Provent Installation Provent Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) Phanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Boiler Ash Transport) Phanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	45 40 30 26 26 25 34 30 25 34 30 26 51 51 20 20 20 200 10 10 10 10 10 110 12 39 90 90 80 80	38 40 30 26 25 34 30 26 26 26 48 48 51 51 51 20 20 20 10 10 10 10 51 20 20 20 10 11 51 20 20 20 10 11 6 20 20 10 11 10 12 5 5 12 20 20 10 10 10 20 20 20 20 20 20 20 20 20 20 20 20 20	15.569 09 09 09 09 09 09 09 09 09 0	9 24-Oct-22 A 08-Dec-22 18-Dec-22 18-Dec-22 14-Dec-22 14-Dec-22* 14-Dec-22* 18-Dec-22* 14-Dec-22 18-Dec-22* 14-Dec-22 18-Dec-22* 14-Dec-22 14-Dec-22 14-Dec-22 14-Dec-22 22-May-22 22-May-22 08-Dec-22 28-Jan-23 17-Feb-23 17-Feb-23 26-Nov-20 A 26-Nov-20 A 26-Nov-20 A 26-Nov-20 A 11-Jul-22 A 03-Aug-22 A 03-Aug-22 A 14-Jan-22 A 14-Jan-22 A	11-Jan-23 16-Jan-23 16-Jan-23 08-Jan-23 04-Jan-23 16-Jan-23 16-Jan-23 08-Jan-23 08-Jan-23 08-Jan-23 08-Jan-23 08-Jan-23 16-Jan-23 16-Jan-23 27-Jan-23 16-Feb-23 26-Feb-23 26-Feb-23 19-Dec-22 19-Dec-22 04-Dec-22 04-Dec-22 04-Dec-22 04-Dec-22	08-Oct-22 11-Oct-22 11-Oct-22 17-Oct-22 11-Oct-22 14-Oct-22 17-Oct-22 17-Oct-22 17-Oct-22 17-Oct-22 17-Oct-22 17-Oct-22 03-Oct-22 03-Oct-22 01-Dec-22 01-Dec-22 11-Oct-22 01-Dec-22 10-Jan-23 10-Jan-23 16-Oct-22 21-Oct-22 22-Oct-22	14-Nov-22 19-Nov-22 19-Nov-22 11-Nov-22 05-Nov-22 19-Nov-22 30-Nov-22 20-Dec-22 30-Dec-22 30-Dec-22 29-Jan-23 29-Jan-23 20-Oct-22	-58 -58 -58 -58 -58 -58 -58 -58 -58 -58			PFab 1-Line 2 - E&I Cable Ladder E 18-Dec-22 16-Jan-23, PFab 1-Line 2 - Electrical E 14-Dec-22 08-Jan-23, PFab 1-Line 2 - Electrical Heat Tr 11-Dec-22* 02-Jan-23, PFab 1-Line 2 - Electrical Heat Tr 11-Dec-22* 04-Jan-23, PFab 1-Line 2 - MCC room inst 18-Dec-22 04-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-22 08-Jan-23, PFab 1-Line 2 - Insulation, 16-Jan-23, PFab 1-Line 2 - Insulation, 16-J
Electrical 06-TPU-2-1270 PFab 1-Line 2 - Elect 06-TPU-2-1280 PFab 1-Line 2 - Elect 06-TPU-2-1330 PFab 1-Line 2 - Elect 06-TPU-2-1330 PFab 1-Line 2 - Instr 06-TPU-2-1330 PFab 1-Line 2 - Instr 06-TPU-2-1310 PFab 1-Line 2 - Instr 06-TPU-2-1310 PFab 1-Line 2 - Instr 06-TPU-2-1010 PFab 1-Line 2 - Instr 06-TPU-2-1010 PFab 1-Line 2 - Instr 06-TPU-2-1020 PFab 1-Line 2 - Instr 06-TPU-2-1030 PFab 1-Line 2 - Deliv 06-TPU-2-1030 PFab 1-Line 2 - Deliv Pecommissioning 0 06-TPU-2-1340 PFab 1-Line 3 - Tertia Structure Fabrication 0 06-TPU-3-110 PFab 1-Line 3 - Mech 06-TPU-3-1080 PFab 1-Line 3 - Mech 06-TPU-3-1100 PFab 1-Line 3 - Mech 06-TPU-3-1100 PFab 1-Line 3 - Mech 06-TPU-3-1120 PFab 1-Line 3 - Mech 06-TPU-3-1120 PFab 1-Line 3 - Mech 06-TPU-3-120 PFab 1-Line 3 - Mech 06-TPU-3-120 PFab 1-Line 3 - Mech	etrical Cable Pulling and Term ination etrical Equipment Installation etrical Heat Tracing Installation C room installation rument Cable Pulling and Termination rument Equipment Installation rument Equipment Installation rument Tubing Installation lation d out & ready to ship very ary Structure Fabrication Floor(EL37.72m~EL47.22m) Primary & Secondary Steel Structure Erection Floor(EL47.22m~EL54.47m) Prim ary & Secondary Steel Structure Erection Floor(EL47.22m~EL54.47m) Prim ary & Secondary Steel Structure Erection ary Structure Fabrication hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 3rd Floor(EL26.72m~EL47.22m) (Including Boiler Ash Transport) hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	40 30 26 26 25 34 30 25 34 30 26 26 26 26 26 150 51 51 20 20 20 20 20 20 20 20 34 200 10 634 200 10 339 90 319 80 80	300 226 225 34 30 226 48 48 51 51 51 20 20 10 10 10 10 10 20 20 20 20 10 10 10 12 20 20 20 20 20 20 10 10 10 10 136 20 20 20 10 10 10 10 10 20 20 20 20 20 20 20 20 20 20 20 20 20	09 09 09 09 09 09 09 09 09 09 09 09 09 0	08-Dec-22 18-Dec-22 14-Dec-22 08-Dec-22* 14-Dec-22 14-Dec-22* 14-Dec-22 14-Dec-22 14-Dec-22 14-Dec-22 24-Dec-22 24-Dec-22 25-May-22 08-Dec-22 28-Jan-23 17-Feb-23 17-Feb-23 26-Nov-20 A 26-Nov-20 A 26-Nov-20 A 30-Aug-22 A 30-Aug-22 A 31-Jul-22 A 31-Jul-22 A 31-Jul-22 A 31-Jul-22 A 31-Jul-22 A	16-Jan-23 16-Jan-23 08-Jan-23 04-Jan-23 04-Jan-23 16-Jan-23 08-Jan-23 08-Jan-23 08-Jan-23 08-Jan-23 16-Jan-23 16-Jan-23 27-Jan-23 16-Feb-23 26-Feb-23 26-Feb-23 19-Dec-22 19-Dec-22 04-Dec-22 04-Dec-22 04-Dec-22	11-Oct-22 21-Oct-22 17-Oct-22 11-Oct-22 14-Oct-22 17-Oct-22 17-Oct-22 17-Oct-22 17-Oct-22 03-Oct-22 11-Oct-22 11-Oct-22 03-Oct-22 11-Oct-22 01-Dec-22 01-Dec-22 21-Dec-22 10-Jan-23 16-Oct-22 16-Oct-22 22-Oct-22	19-Nov-22 19-Nov-22 19-Nov-22 11-Nov-22 05-Nov-22 19-Nov-22 19-Nov-22 19-Nov-22 19-Nov-22 19-Nov-22 19-Nov-22 19-Nov-22 19-Nov-22 19-Nov-22 30-Nov-22 20-Dec-22 30-Dec-22 30-Dec-22 29-Jan-23 29-Jan-23 20-Oct-22	-58 -			18-Dec-22 16-Jan-23, PFab 1-Line 2 - Electrical E 14-Dec-22 08-Jan-23, PFab 1-Line 2 - Electrical Heat Tr Dec-22* 02-Jan-23, PFab 1-Line 2 - Electrical Heat Tr 11-Dec-22* 04-Jan-23, PFab 1-Line 2 - MCC room inst 18-Dec-22 16-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-22 08-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-22 02-Dec-22 27-Jan-23, PFab 1-Line 2 - Instrument 17-Feb-23 17-Feb-23 17-Feb-23
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06-TPU-2-1290 PFab 1-Line 2 - Elect 06-TPU-2-1330 PFab 1-Line 2 - MCC Instrument 06-TPU-2-1300 06-TPU-2-1310 PFab 1-Line 2 - Instru 06-TPU-2-1320 PFab 1-Line 2 - Instru 06-TPU-2-1320 PFab 1-Line 2 - Instru 06-TPU-2-1320 PFab 1-Line 2 - Instru 06-TPU-2-1020 PFab 1-Line 2 - Instru 06-TPU-2-1020 PFab 1-Line 2 - Deliv Precommissioning 06-TPU-2-1030 06-TPU-2-1030 PFab 1-Line 2 - Deliv PFab 1-Line 3 Total 4 Shipping 06-TPU-2-1030 PFab 1-Line 2 - Deliv PFab 1-Line 3 Total 4 Shipping 06-TPU-3-1030 PFab 1-Line 3 - Tertia Structure Fabrication 06-TPU-3-1100 06-TPU-3-1080 PFab 1-Line 3 - Mech 06-TPU-3-1100 PFab 1-Line 3 - Mech 06-TPU-3-1120 PFab 1-Line 3 - Mech 06-TPU-3-1120 PFab 1-Line 3 - Mech 06-TPU-3-1120 PFab 1-Line 3 - Mech 06-TPU-3-120 PFab 1-Line 3 - Mech 06-TPU-3-120 PFab 1-Line 3 - Mech 06-TPU-	trical Heat Tracing Installation Croom installation	26 25 34 30 26 26 26 150 51 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 30 10 634 200 201 39 90 39 90 319 80 80 80	226 225 34 30 26 26 48 48 51 51 20 20 20 20 20 20 20 20 27 5 5 12 27 44	099 099 099 099 099 099 099 099 099 099	08-Dec-22* 11-Dec-22* 14-Dec-22* 14-Dec-22* 14-Dec-22* 14-Dec-22* 24-Dec-22* 22-May-22* 08-Dec-22* 08-Dec-22* 28-Jan-23* 17-Feb-23* 17-Feb-23* 26-Nov-20 A 26-Nov-20 A 26-Nov-20 A 11-Jul-22 A 03-Aug-22 A 14-Jan-22 A 14-Jan-22 A	02-Jan-23 04-Jan-23 16-Jan-23 08-Jan-23 08-Jan-23 16-Jan-23 16-Jan-23 16-Jan-23 27-Jan-23 27-Jan-23 26-Feb-23 26-Feb-23 14-Aper-23 19-Dec-22 04-Dec-22	11-Oct-22 14-Oct-22 14-Oct-22 17-Oct-22 17-Oct-22 03-Oct-22 03-Oct-22 11-Oct-22 11-Oct-22 01-Dec-22 21-Dec-22 21-Dec-22 10-Dec-22 10-Jan-23 10-Jan-23 16-Oct-22 16-Oct-22 22-Oct-22	05-Nov-22 07-Nov-22 19-Nov-22 19-Nov-22 11-Nov-22 19-Nov-22 19-Nov-22 30-Nov-22 30-Nov-22 20-Dec-22 20-Dec-22 30-Dec-22 30-Dec-22 29-Jan-23 29-Jan-23 20-Oct-22	-58 -58 -58 -58 -58 -58 -58 -58 -58 -58			Dec-22* 02-Jan-23, PFab 1-Line 2 - Electrical Heat Tr 11-Dec-22* 04-Jan-23, PFab 1-Line 2 - MCC room instr 18-Dec-22 16-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-22 08-Jan-23, PFab 1-Line 2 - Insulation, 16- 20-Dec-22 27-Jan-23, PFab 1-Line 2 - Insulation, 16- 28-Jan-23 17-Feb-23
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06-TPU-3-1100 PFab 1-Line 3 - Tertia Mechanical Erection PFab 1-Line 3 - Mech 06-TPU-3-1120 PFab 1-Line 3 - Mech 06-TPU-3-1130 PFab 1-Line 3 - Mech 06-TPU-3-1140 PFab 1-Line 3 - Mech 06-TPU-3-1150 PFab 1-Line 3 - Mech 06-TPU-3-1150 PFab 1-Line 3 - Mech 06-TPU-3-1240 PFab 1-Line 3 - Mech 06-TPU-3-1220 PFab 1-Line 3 - Mech 06-TPU-3-1220 PFab 1-Line 3 - Pipin Piping Fabrication 0 06-TPU-3-1220 PFab 1-Line 3 - Pipin Piping Installation 0 06-TPU-3-1230 PFab 1-Line 3 - E&H 06-TPU-3-1230 PFab 1-Line 3 - E&H 06-TPU-3-1230 PFab 1-Line 3 - E&H 06-TPU-3-1250 PFab 1-Line 3 - E&H 06-TPU-3-1260 PFab 1-Line 3 - E&H 06-TPU-3-1270 PFab 1-Line 3 - E <h< td=""> 06-TPU-3-1280 PFab 1-Line 3 - E<h< td=""> 06-TPU-3-1280 PFab 1-Line 3 - E<h< td=""></h<></h<></h<>	ary Structure Erection hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator) hanical Installation - 3rd Floor(EL26.72m~EL37.72m) (Including Boiler Ash Transport) hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	90 319 80 80	27 44 16	70%	6 14-Jan-22 A			02-Nov-22				PFab 1-Line 3 - 4th Floor(EL37.72m~EL47.22m) Primary & Secondary Ste
Mechanical Erection 06-TPU-3-1120 PFab 1-Line 3 - Mech 06-TPU-3-1130 PFab 1-Line 3 - Mech 06-TPU-3-1140 PFab 1-Line 3 - Mech 06-TPU-3-1150 PFab 1-Line 3 - Mech 06-TPU-3-1240 PFab 1-Line 3 - Mech 06-TPU-3-1240 PFab 1-Line 3 - Mech 06-TPU-3-1220 PFab 1-Line 3 - Mech 06-TPU-3-1220 PFab 1-Line 3 - Pipin Piping Installation 0 06-TPU-3-1200 PFab 1-Line 3 - Pipin E&I Installation 0 06-TPU-3-1250 PFab 1-Line 3 - E&I 1 06-TPU-3-1260 PFab 1-Line 3 - E&I 2 06-TPU-3-1260 PFab 1-Line 3 - E&I 2 06-TPU-3-1270 PFab 1-Line 3 - E&I 2 06-TPU-3-1270 PFab 1-Line 3 - E 06-TPU-3-1280 PFab 1-Line 3 - E	hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator) hanical Installation - 3rd Floor(EL26.72m~EL37.72m) (Including Boiler Ash Transport) hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	319 80 80	44 16			20-Dec-22	00 100 00		-39 34			PFab 1-Line 3 - Top Floor(EL47.22m~EL54.47m) Primary & Second
06-TPU-3-1120 PFab 1-Line 3 - Mech 06-TPU-3-1130 PFab 1-Line 3 - Mech 06-TPU-3-1140 PFab 1-Line 3 - Mech 06-TPU-3-1150 PFab 1-Line 3 - Mech 06-TPU-3-1240 PFab 1-Line 3 - Mech 06-TPU-3-1240 PFab 1-Line 3 - Mech 06-TPU-3-1220 PFab 1-Line 3 - Mech 06-TPU-3-1220 PFab 1-Line 3 - Pipin Piping Installation 06-TPU-3-1000 06-TPU-3-1230 PFab 1-Line 3 - Pipin E&I Installation 06-TPU-3-1250 06-TPU-3-1250 PFab 1-Line 3 - E&I 1 E&I Installation 06-TPU-3-1260 06-TPU-3-1260 PFab 1-Line 3 - E&I 1 06-TPU-3-1280 PFab 1-Line 3 - E 06-TPU-3-1270 PFab 1-Line 3 - E 06-TPU-3-1280 PFab 1-Line 3 - E	hanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator) hanical Installation - 3rd Floor(EL26.72m~EL37.72m) (Including Boiler Ash Transport) hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	80 80	16		02 Mar 22 A	12-Jan-23	03-Jan-23 30-Oct-22		-31			26-Dec-22, PFab 1-Line 3 - Tertiary Structure Erection
06-TPU-3-1130 PFab 1-Line 3 - Mech 06-TPU-3-1140 PFab 1-Line 3 - Mech 06-TPU-3-1150 PFab 1-Line 3 - Mech 06-TPU-3-1240 PFab 1-Line 3 - Mech 06-TPU-3-1240 PFab 1-Line 3 - Mech 06-TPU-3-1220 PFab 1-Line 3 - Pipin 06-TPU-3-1220 PFab 1-Line 3 - Pipin 06-TPU-3-1200 PFab 1-Line 3 - Pipin 06-TPU-3-1230 PFab 1-Line 3 - E&I 06-TPU-3-1230 PFab 1-Line 3 - E&I 06-TPU-3-1250 PFab 1-Line 3 - E&I 06-TPU-3-1260 PFab 1-Line 3 - E&I 06-TPU-3-1260 PFab 1-Line 3 - E&I 06-TPU-3-1280 PFab 1-Line 3 - E 06-TPU-3-1280 PFab 1-Line 3 - E 06-TPU-3-1280 PFab 1-Line 3 - E	hanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator) hanical Installation - 3rd Floor(EL26.72m~EL37.72m) (Including Boiler Ash Transport) hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)				6 03-Mar-22 A		27-Nov-22		-3			PFab 1-Line 3 - Mechanical Installation - 1st Floor (Below EL20
06-TPU-3-1150 PFab 1-Line 3 - Mech 06-TPU-3-1240 PFab 1-Line 3 - Mech 06-TPU-3-1220 PFab 1-Line 3 - Pipin 06-TPU-3-1220 PFab 1-Line 3 - Pipin 06-TPU-3-1000 PFab 1-Line 3 - Pipin 06-TPU-3-1230 PFab 1-Line 3 - Pipin 06-TPU-3-1230 PFab 1-Line 3 - E&I 1 06-TPU-3-1230 PFab 1-Line 3 - E&I 1 06-TPU-3-1250 PFab 1-Line 3 - E&I 3 06-TPU-3-1260 PFab 1-Line 3 - E&I 0 06-TPU-3-1270 PFab 1-Line 3 - E&I 0 06-TPU-3-1280 PFab 1-Line 3 - E 06-TPU-3-1280 PFab 1-Line 3 - E	hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	80	35		6 13-May-22		08-Nov-22		-22			PFab 1-Line 3 - Mechanical Installation - 2nd
06-TPU-3-1240 PFab 1-Line 3 - Mech Piping Fabrication Piping Installation 06-TPU-3-1220 PFab 1-Line 3 - Piping Piping Installation Piping Installation 06-TPU-3-1000 PFab 1-Line 3 - Piping E&I Fabrication Piping Installation 06-TPU-3-1230 PFab 1-Line 3 - E&I 1 06-TPU-3-1230 PFab 1-Line 3 - E&I 3 06-TPU-3-1250 PFab 1-Line 3 - E&I 3 06-TPU-3-1260 PFab 1-Line 3 - E&I 0 06-TPU-3-1270 PFab 1-Line 3 - E 06-TPU-3-1280 PFab 1-Line 3 - E 06-TPU-3-1280 PFab 1-Line 3 - E 06-TPU-3-1280 PFab 1-Line 3 - E			24	70%	6 17-Jun-22 A	03-Jan-23	19-Nov-22	12-Dec-22	-22			PFab 1-Line 3 - Mechanical Installation - 3rc
Piping Fabrication 06-TPU-3-1220 PFab 1-Line 3 - Pipin Piping Installation 06-TPU-3-1000 PFab 1-Line 3 - Pipin 06-TPU-3-1000 PFab 1-Line 3 - Pipin E&I fabrication 06-TPU-3-1230 PFab 1-Line 3 - E&I 1 6-TPU-3-1250 06-TPU-3-1250 PFab 1-Line 3 - E&I 3 6-TPU-3-1260 06-TPU-3-1260 PFab 1-Line 3 - E&I 4 6-TPU-3-1260 06-TPU-3-1270 PFab 1-Line 3 - EIect 6-TPU-3-1280 06-TPU-3-1280 PFab 1-Line 3 - Elect 06-TPU-3-1290		40	40	0%	6 04-Dec-22*	12-Jan-23	03-Nov-22	12-Dec-22	-31		04-Dec-	22* 12-Jan-23, PFab 1-Line 3 - Mechar
06-TPU-3-1220 PFab 1-Line 3 - Pipin Piping Installation 06-TPU-3-1000 PFab 1-Line 3 - Pipin 06-TPU-3-1230 PFab 1-Line 3 - E&I I 06-TPU-3-1230 PFab 1-Line 3 - E&I I 06-TPU-3-1250 PFab 1-Line 3 - E&I I 06-TPU-3-1250 PFab 1-Line 3 - E&I I 06-TPU-3-1260 PFab 1-Line 3 - E&I I 06-TPU-3-1270 PFab 1-Line 3 - E 06-TPU-3-1280 PFab 1-Line 3 - E 06-TPU-3-1290 PFab 1-Line 3 - E	hanical Installation - Boiler Lifting & Installation	80	4	95%	6 11-Aug-22 A		30-Oct-22		-45			PFab 1-Line 3 - Mechanical Installation - Boiler Lifting & Insta
Piping Installation 06-TPU-3-1000 PFab 1-Line 3 - Pipin E&I Fabrication 06-TPU-3-1230 06-TPU-3-1230 PFab 1-Line 3 - E&I I E&I Installation 06-TPU-3-1250 06-TPU-3-1260 PFab 1-Line 3 - E&I I 06-TPU-3-1260 PFab 1-Line 3 - E&I I 06-TPU-3-1270 PFab 1-Line 3 - E 06-TPU-3-1280 PFab 1-Line 3 - E 06-TPU-3-1290 PFab 1-Line 3 - E	na Echriquitian	180 180	6	06.679	09-Mar-21 A	05-Dec-22	16-Oct-22 16-Oct-22		-45 -45			PFab 1-Line 3 - Piping Fabrication, 05-Dec-22, 05-Dec-22, PFab 1-Line 3
06-TPU-3-1000 PFab 1-Line 3 - Pipin E&I Fabrication PFab 1-Line 3 - E&I I 06-TPU-3-1230 PFab 1-Line 3 - E&I I E&I Installation PFab 1-Line 3 - E&I I 06-TPU-3-1250 PFab 1-Line 3 - E&I I 06-TPU-3-1260 PFab 1-Line 3 - E&I I 06-TPU-3-1260 PFab 1-Line 3 - E&I I 06-TPU-3-1270 PFab 1-Line 3 - Elect 06-TPU-3-1280 PFab 1-Line 3 - Elect 06-TPU-3-1290 PFab 1-Line 3 - Elect	ng Fabrication	119	6 70	00.07 /		05-Dec-22 07-Feb-23	16-Oct-22		-45			Prab 1-Line 3 - Piping Fabrication, 05-Dec-22, 05-Dec-22, Prab 1-Line 3
06-TPU-3-1230 PFab 1-Line 3 - E&I I E&I Installation 06-TPU-3-1250 PFab 1-Line 3 - E&I I 06-TPU-3-1260 PFab 1-Line 3 - E&I I 06-TPU-3-1260 Electrical 06-TPU-3-1270 PFab 1-Line 3 - Elect 06-TPU-3-1280 PFab 1-Line 3 - Elect 06-TPU-3-1280 06-TPU-3-1290 PFab 1-Line 3 - Elect 06-TPU-3 - Elect	ng Installation	119	70		60 00t 22 A		16-Oct-22		-45			PFab 1-
E&I Installation 06-TPU-3-1250 PFab 1-Line 3 - E&I 3 06-TPU-3-1260 PFab 1-Line 3 - E&I 3 Electrical 06-TPU-3-1270 06-TPU-3-1280 PFab 1-Line 3 - Elect 06-TPU-3-1290 PFab 1-Line 3 - Elect		180	67		14-Apr-22 A	04-Feb-23	04-Nov-22	09-Jan-23	-26			
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Electrical 06-TPU-3-1270 PFab 1-Line 3 - Elect 06-TPU-3-1280 PFab 1-Line 3 - Elect 06-TPU-3-1290 PFab 1-Line 3 - Elect		45	45 45		30-Nov-22*		04-Nov-22 11-Nov-22		-26 -45		30-Nov-22*	26-Dec-22 08-Feb
06-TPU-3-1270 PFab 1-Line 3 - Elect 06-TPU-3-1280 PFab 1-Line 3 - Elect 06-TPU-3-1290 PFab 1-Line 3 - Elect		55	43 55			28-Feb-23	21-Nov-22		-45			
06-TPU-3-1290 PFab 1-Line 3 - Elect	trical Cable Pulling and Termination	30	30		6 30-Jan-23	28-Feb-23	16-Dec-22		-45			30-Jan-23
	trical Equipment Installation	26	26	0%	6 09-Jan-23	03-Feb-23	25-Nov-22	20-Dec-22	-45			09-Jan-23 03-Feb-23, F
	strical Heat Tracing Installation	26	26	0%	6 09-Jan-23	03-Feb-23	25-Nov-22	20-Dec-22	-45			09-Jan-23 03-Feb-23, F
06-TPU-3-1330 PFab 1-Line 3 - MCC	C room installation	25	25		6 05-Jan-23*		21-Nov-22		-45			05-Jan-23* 29-Jan-23, PFab
Instrument	ument Cable Bulling and Termination	51	51			28-Feb-23	25-Nov-22		-45			20 Jan 22
	rument Cable Pulling and Termination rument Equipment Installation	30 26	30 26		6 30-Jan-23 6 09-Jan-23	28-Feb-23 03-Feb-23	16-Dec-22 25-Nov-22	14-Jan-23 20-Dec-22	-45 -45			30-Jan-23 09-Jan-23 03-Feb-23.1
	rument Tubing Installation	26	26		6 09-Jan-23	03-Feb-23	25-Nov-22		-45			09-Jan-23 03-Feb-23, I
Insulation		150	68			28-Feb-23	08-Nov-22		-45			
06-TPU-3-1010 PFab 1-Line 3 - Insul	lation	150	68	54.67%	6 23-May-22	28-Feb-23	08-Nov-22	14-Jan-23	-45			
Precommissioning		60	60			15-Mar-23		29-Jan-23	-45			
06-TPU-3-1020 PFab 1-Line 3 - Pre-0	commissioning	60	60		6 15-Jan-23		_	29-Jan-23	-45			15-Jan-23
Load out & Shipping06-TPU-3-1030PFab 1-Line 3 - Load	d out & ready to ship	20 20	20 20		16-Mar-23 6 16-Mar-23		30-Jan-23 30-Jan-23		-45 -45			
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06-TPU-3-1340 PFab 1-Line 3 - Deliv	very	10	10	0%	6 05-Apr-23			28-Feb-23	-45			
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Structure Fabrication	any Structure Echricotion	200	10			09-Dec-22			58			09-Dec-22, PFab 1-Line 4 - Tertiary Structure Fabrication, PFab 1-Lin
06-TPU-4-1160 PFab 1-Line 4 - Tertia Structure Erection	ary Structure Fabrication	200 113	10 32			09-Dec-22 31-Dec-22			58 36			US-DEC-22, Frau I-Line 4 - lettlary Structure Fabrication, PFab 1-Line
	Floor(EL47.22m~EL54.47m) Prim ary & Secondary Steel Structure Erection	32	32 11			10-Dec-22			-30			PFab 1-Line 4 - Top;Floor(EL47.22m~EL54.47m) Primary & Second
onth Rolling Program							aining Work			ual Milestone		

D Vol. Model Part Model	古 盲 五 格 新 - 板 華 慰 苓 KEPPELSEGNERS-ZHEN HUAJOINT VE	会 考 (NTCRE							Integrated	Waste Manag	ement Facilities, I	Phase 1 Environmental Protection
2000000000000000000000000000000000000		Activity Name	Original Duration	Remaining Duration	Activity % Current Sta Complete	t Current Finish	Late Start	Late Finish	Total Float M60 Remarks			Jan Feb
Numerican Numerican <t< td=""><td>06-TPU-4-1150</td><td>PFab 1-Line 4 - Tertiary Structure Erection</td><td>90</td><td>32</td><td>64.44% 01-Apr-</td><td>22 A 31-Dec-22</td><td>05-Jan-23</td><td>05-Feb-23</td><td>36</td><td></td><td></td><td>31-Dec-22, PFab 1-Line 4 - Tertiary Structure E</td></t<>	06-TPU-4-1150	PFab 1-Line 4 - Tertiary Structure Erection	90	32	64.44% 01-Apr-	22 A 31-Dec-22	05-Jan-23	05-Feb-23	36			31-Dec-22, PFab 1-Line 4 - Tertiary Structure E
BC 1.6 The last is standarding is starting in the Last is marked in th	Mechanical Erection		331	50	09-Jan-	22 A 18-Jan-23	27-Oct-22	15-Dec-22	-34			
	06-TPU-4-1040										PFab 1-Lin	e 4 Mechanical Installation - 1st Floor (Below EL2
				-								PFab 1-Line 4 - Mechanical Installatio
	-			-						30-Nov-2		
$ \begin{array}{ $	06-TPU-4-1240									00 1107 2		PFab 1-Line 4 - Mechanical Installation - B
Production Product	Piping Fabrication			25	09-Mar-	21 A 24-Dec-22	27-Oct-22	20-Nov-22	-34			
minimum<	06-TPU-4-1220	PFab 1-Line 4 - Piping Fabrication	180	25				20-Nov-22	-		PI	Fab 1-Line 4 - Piping Fabrication, 24-Dec-22, 24-De
Difference 0	Piping Installation	DEab 1 Line 4 Diving Installation		-							15 Dec 00*	
100 2 Joint 2 Mail Let Single Mathematican (1990) 100 100 100 100 100 100 100 100 100 1		Prao I-Line 4 - Piping Instanation									15-Dec-22	
All of a constraints All of a	06-TPU-4-1230	PFab 1-Line 4 - E&I Fabrication			· · · ·							PFab 1-Line 4 - E&I Fabrication, 06-Jan
a = Y = 0.000 m = 10.000 Lub & solution m = 0.000 Lub & solut m = 0.000 Lub & solution <td>E&I Installation</td> <td></td> <td>65</td> <td>65</td> <td>22-Dec-</td> <td>22 24-Feb-23</td> <td>18-Nov-22</td> <td>21-Jan-23</td> <td>-34</td> <td></td> <td></td> <td></td>	E&I Installation		65	65	22-Dec-	22 24-Feb-23	18-Nov-22	21-Jan-23	-34			
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a No. 4 Pole Late Stand Adulphings Name B B 0 0.0		PFab 1-Line 4 - E&I Cable Ladder Erection									29-Dec-22	11-
		PFab 1-Line 4 - Electrical Cable Pulling and Termination										26-Jan-23
Photo Photo H V Core register	06-TPU-4-1280											····
	06-TPU-4-1290	PFab 1-Line 4 - Electrical Heat Tracing Installation	26	26	0% 12-Jan-	23 06-Feb-23	09-Dec-22	03-Jan-23	-34			12-Jan-23 06-Feb-2
	06-TPU-4-1330	PFab 1-Line 4 - MCC room installation	25	25	0% 30-Dec-	22* 23-Jan-23	26-Nov-22	20-Dec-22	-34			
	Instrument	DE-b. 4 Line 4. Jackware and Oakle Delline and Transientice										
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0 P10-100 P100-100 P10-100 P10-100 <td>Insulation</td> <td></td>	Insulation											
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Subset	06-TPU-4-1030	PFab 1-Line 4 - Load Out & ready to ship										
refact statistic refact statistic <threfact statistic<="" th=""> <threfact statistic<="" t<="" td=""><td>Delivery</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></threfact></threfact>	Delivery											
Since we	06-TPU-4-1340	PFab 1-Line 4 - Delivery	10	10			26-Feb-23	07-Mar-23	-34			
9 m 3 m 4 m 5 m 3 m 3 m 5 m 5 m 5 m 5 m 5 m 5 m 5	PFab 1- Line 5											
Statuse		PEah 1. Line 5. Tertiany Structure Extrication										28- Jan-23 PEab
0 0 m10 + 100 m100 m100 m100 m100 m100 m								· · · ·			L	
9 or Protection Products - der Products Product	06-TPU-5-1110	PFab 1-Line 5 - 2nd Floor(EL20.47m~EL26.72m) Primary & Secondary Steel Structure Erection									PFab 1-Line 5 -	2nd Floor(EL20.47m~EL26.72m) Primary & Second
0 mTV-5130 PFa Lues 5 with Two/LUX 2mm (Luf 2mm) Trans 4 Bookadar (Set Shucker Exection 0 0 0 15 Jame 2	06-TPU-5-1120	PFab 1-Line 5 - 3rd Floor(EL26.72m~EL37.72m)Primary & Secondary Steel Structure Erection	60	60	0% 13-Dec-	22* 10-Feb-23	24-Oct-22	22-Dec-22	-50		13-Dec-22*	10-F
10 10 10 0	06-TPU-5-1130		60	60	0% 15-Jan-	23 15-Mar-23	26-Nov-22	24-Jan-23				15-Jan-23
Number of Part Line 5 Description (splice) (spl	06-TPU-5-1140											
9 0. 70 U-5040 9 0.70 U-5040 9 0.70 U-5050 9 0.70 U-5050 9 0.70 U-5050 9 7.60 U-50500 9 7.60 U-50500 9 7.60 U-50500 9 7.60 U-5	-	PFab 1-Line 5 - lertiary Structure Erection						· · ·				
9 m P 10 1000 P Fa 1 Line 5 Part 1 Line 5		PFab 1-Line 5 - Mechanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate)										19-Jan-23. PFab 1-Line 5 -
9 0 PP 10 File 5 - Machina Industrial Prove File 72m - FIL2 200 (notwing ArDucs) 00 00 00 Pile 5 - 100 00 00 00 Pile 5 - 100 00	06-TPU-5-1050											
9 m Pris Fuller 5-Mechanical tradition - Biole Uniting & Installation - Biole Uniting & Insta	06-TPU-5-1060	PFab 1-Line 5 - Mechanical Installation - 3rd Floor(EL26.72m~EL37.72m) (Including Boiler Ash Transport)	80	80	0% 12-Jan-	23 01-Apr-23	11-Dec-22	28-Feb-23	-32			12-Jan-23
Particit	06-TPU-5-1070	PFab 1-Line 5 - Mechanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	80	80	0% 30-Jan-	23 19-Apr-23	11-Dec-22	28-Feb-23	-50			30-Jan-23
9 Prati 1-tine 5 - Priority Fabrication 10 28 87.78% 24.Mar 24 21.02-22 40.40-22 45.04-23 45.7 9 Priority 1-tine 5 - Priority fabrication, 24.Dec 2, 24.Dec 2 94.04-22 65.40-22 64.40-23 65.7	06-TPU-5-1240	PFab 1-Line 5 - Mechanical Installation - Boiler Lifting & Installation										15-Jan-23*
Pipe for sublision Pipe fo	Piping Fabrication	PEab 1 Line F. Dining Entrication									DEah	Line 5 Diplog Entrination 21 Dec 22 21 Dec 2
9 Pib 1-Line 5 Pipting Installation 121 0% 10 20 Jan 20 0% Nu 22	-	Prab I-Line 5 - Piping Pabrication									Prac	
EAF Babication 100 91 14-Apr:2A 28-Fab-2a 27-Abar-2a 27 100 100 91 14-Apr:2A 28-Fab-2a 27-Abar-2a 27 100 100 100 91 44-Apr:2A 28-Fab-2a 27-Abar-2a	06-TPU-5-1000	PFab 1-Line 5 - Piping Installation										23
EA Instantation Model	E&I Fabrication		180	91			27-Dec-22	27-Mar-23	27			
06-TPU-5-1280 PFab 1-Line 5 - E&I Support Listalization 45 45 0% 01-Mar -23 14-Apr -23 14-	06-TPU-5-1230	PFab 1-Line 5 - E&I Fabrication	180	91	49.44% 14-Apr-	22 A 28-Feb-23	27-Dec-22	27-Mar-23	27			
06-TPU-5-1200 PFab 1-Line 5 - Edd Cable Ladder Erection 445 45 0% 01-Mar-23 14 Apr-23 03-Jan-23 16-Feb-23 -57 06-TPU-5-1270 PFab 1-Line 5 - Electrical Cable Pulling and Termination 56 58 22-Mar-23 21-Mar-23 22-Mar-23 25-7	E&I Installation			86								
Electrical 58 58 22 Mar 23 18 May 23 24 Jan 23 16 May 24 -57 57 57 57 57 57 57 57 57 57 57												
06-TPU-5-1270 PFab 1-Line 5 - Electrical Gable Pulling and Termination 30 30 0% 19-Apr-23 18-May-23 21-Feb-23 2-57 06-TPU-5-1280 PFab 1-Line 5 - Electrical Equipment Installation 26 26 0% 05-Apr-23 07-Feb-23 2-7-Feb-23 6-57 06-TPU-5-1280 PFab 1-Line 5 - Electrical Heat Tracing Installation 26 26 0% 05-Apr-23 10-Apr-23 17-Feb-23 6-57 06-TPU-5-1300 PFab 1-Line 5 - Instrument Cable Pulling and Termination 26 26 0% 05-Apr-23 18-May-23 17-Feb-23 6-57 06-TPU-5-1300 PFab 1-Line 5 - Instrument Cable Pulling and Termination 26 26 0% 05-Apr-23 18-May-23 27-Feb-23 6-57 06-TPU-5-1300 PFab 1-Line 5 - Instrument Cable Pulling and Termination 26 26 0% 05-Apr-23 18-May-23 17-Feb-23 2-Mar-23 16-Feb-23 6-57 06-TPU-5-1310 PFab 1-Line 5 - Instrument Tabing Installation 26 26 0% 05-Apr-23 30-Apr-23 16-Apr-23 16-Amr-23 16-Feb-23 16-Feb-23 16-Feb-23 16-Feb-23 16-Feb-23												
06-TPU-5-1280 PFab 1-Line 5 - Electrical Heat Tracing Irstallation 26 26 06 05-Apr-23 02-Feb-23 07-Feb-23 0-Feb-23	06-TPU-5-1270	PFab 1-Line 5 - Electrical Cable Pulling and Termination										
06-TPU-5-1290 PFab 1-Line 5 - Bickvical Heat Tracing Installation 26 26 0% 05-Apr-23 30-Apr-23 07-Feb-23 24-Mar-23 5-57 0	06-TPU-5-1280											
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06-TPU-5-1300 PFab 1-Line 5 - Instrument Cable Pulling and Termination 30 30 0% 19-Apr-23 18-May-23 21-Feb-23 22-Mar-23 -57 06-TPU-5-1310 PFab 1-Line 5 - Instrument Equipment Installation 26 26 0% 05-Apr-23 30-Apr-23 07-Feb-23 04-Mar-23 -57 06-TPU-5-1320 PFab 1-Line 5 - Instrument Tubing Installation 26 26 0% 05-Apr-23 07-Feb-23 04-Mar-23 -57 06-TPU-5-1320 PFab 1-Line 5 - Instrument Tubing Installation 26 26 0% 05-Apr-23 07-Feb-23 04-Mar-23 -57 06-TPU-5-1010 PFab 1-Line 5 - Insulation 150 143 04-Jun-22A 18-May-23 17-Cet-22 22-Mar-23 -57 Insulation O 6-TPU-5-1010 PFab 1-Line 5 - Insulation 150 143 04-Jun-22A 18-May-23 31-Oct-22 22-Mar-23 -57 Insulation 150 143 04-Jun-22A 18-May-23 31-Oct-22 22-Mar-23 -57 Insulation Actual Work Actual Work Actual Work	06-TPU-5-1330	PFab 1-Line 5 - MCC room installation										
06-TPU-5-1310 PFab 1-Line 5 - Instrument Equipment Installation 26 26 0% 05-Apr-23 30-Apr-23 07-Feb-23 04-Mar-23 -57 Image: Construment Tubing Installation 100 100 100 04-Mar-23 04-Mar-23 <td>Instrument</td> <td>DEab 1 Line 5 Instrument Cable Dulling and Termination</td> <td></td>	Instrument	DEab 1 Line 5 Instrument Cable Dulling and Termination										
06-TPU-5-1320 PFab 1-Line 5 - Instrument Tubing Installation 26 0% 05-Apr-23 07-Feb-23 04-Mar-23 -57 Insulation 150 143 04-Jun-22A 18-May-23 31-Oct-22 22-Mar-23 -57 06-TPU-5-1010 PFab 1-Line 5 - Insulation 150 143 4.67% 04-Jun-22A 18-May-23 31-Oct-22 22-Mar-23 -57 06-TPU-5-1010 PFab 1-Line 5 - Insulation 150 143 4.67% 04-Jun-22A 18-May-23 31-Oct-22 22-Mar-23 -57 Insulation 150 143 4.67% 04-Jun-22A 18-May-23 31-Oct-22 22-Mar-23 -57 -57 Insulation 150 143 4.67% 04-Jun-22A 18-May-23 31-Oct-22 22-Mar-23 -57 -57 Insulation 150 143 4.67% 04-Jun-22A 18-May-23 1-57 -57 -57 Insulation Insulation Insulation Insulation Insulation -57 -57 -57 -57 Insulation Insulation Insulation Insulation -57 <td></td> <td>•</td> <td></td> <td></td> <td>· · ·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		•			· · ·							
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06-TPU-5-1010 PFab 1-Line 5 - Insulation 150 143 4.67% 04-Jun-22 A 18-May-23 31-Oct-22 22-Mar-23 -57 Ionth Rolling Programme (November 2022) 8 of 17 Remaining Work	Insulation											
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Actual Work												
Actual Work	Ionth Rolling	Programme (November 2022)			🗖	Rem	aining Work	♦	Actual Milestone			
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	e 8 of 17							•				

3-M	ont	h Rolling	Programme	(November	2022)
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01-Nov-22 21-Apr-23 05-Apr-23 21-Apr-23		
05-Apr-23 21-Apr-23 05-Apr-23 21-Apr-23		
02-Dec-22 13-Apr-23		
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	nct No. EP/SF t Facilities, P			保護署 nmental Protection Department
2022	Dec 61		2023 Jan 62	Feb 63
		PFab 1-Line 6 -		Fabrication, PFab 1-Line 6
01-1	I 12-Dec-22, PFab	1-Line 6 - 3rd I	Floor(EL26.72m~ I-Line 6 - 4th Floo 24-Ja	Primary & Secondary Stee EL37.72m)Primary & Seco r(EL37.72m ~ EL47.22m) Pri n-23, PFab 1-Line 6 - Top F -Jan-23, PFab 1-Line 6 - Te
	24-[0 1-Line 6 - Mecha	nical Installation - 1st Floor 3, PFab 1-Line 6 - Mechani al Installation - 3rd Floor(E
11-Dec-22	2*			
		Line 6 - Piping 1-Jan-23	Fabrication, 21-D	ec-22, 21-Dec-22, PFab 1-L
				22-Feb-23* 01-Mar-23
				25-Feb-23*
	11-Dec-22, PFab	29-Dec-22, PF	ab 2-Line 1 - Top	cation, PFab 2-Line 1 - Terti Floor Primary & Secondary ne 1 - Tertiary Structure Erec
F	PFab 2-Line 1 - 2nd Floo	r (EL12.47~ EL ab 2-Line 1 - 3r	23.47m) (Includin d Floor (EL23.47~	lencer ID fan), 04-Dec-22, 0 g Dosing system bicar), 04- EL34.47m) (Including Ash L34.47~ EL44.22m) (Includi
	PFab 2-Line 1 - I			P-Dec-22, PFab 2-Line 1 - Pi PFab 2-Line 1 - Piping Insta
		;		·····
	PFab 2-L	ne1-E&IFab	rication, 19-Dec-2	2, 19-Dec-22, PFab 2-Line 1
6-Dec-22*	-22			PFab 2-Line 1 - E&I Suppo Jan-23, PFab 2-Line 1 - E&I
16-D	1(27-Dec-22 27-Dec-22	-Jan-23	21-Jan-2	08-Feb-23, PFab 2 23, PFab 2-Line 1 - Electrica 23, PFab 2-Line 1 - Electrica 23, PFab 2-Line 1 - Electrica 24, Ine 1 - MCC room installatio
	10 27-Dec-22 27-Dec-22	-Jan-23		08-Feb-23, PFab 2 23, PFab 2-Line 1 - Instrume 23, PFab 2-Line 1 - Instrume
		·····		PFab 2-Line 1 - In

	Activity Name	Original Duration	Remaining Duration	Activity % Complete	Current Start	Current Finish	Late Start	Late Finish	Total Float M60 Remarks	Nov	
Precommissioning		60	60		26-Dec-22	23-Feb-23	09-Nov-22	07-Jan-23	-47	60	
06-FGC-1-1190	PFab 2-Line 1 - Pre-commissioning	60	60	0%	26-Dec-22	23-Feb-23	09-Nov-22	07-Jan-23	-47		
Load out & Shipping	DE-h Oliza di Land Old Aura data alta	20	20	00/	24-Feb-23	15-Mar-23	08-Jan-23	27-Jan-23	-47		
06-FGC-1-1200 Delivery	PFab 2-Line 1 - Load Out & ready to ship	20	20 10	0%	24-Feb-23 16-Mar-23	15-Mar-23 25-Mar-23	08-Jan-23 28-Jan-23	27-Jan-23 06-Feb-23	-47 -47		
06-FGC-1-1320	PFab 2-Line 1 - Delivery	10	10	0%	16-Mar-23	25-Mar-23	28-Jan-23	06-Feb-23	-47		
PFab 2 - Line 2		634	116		03-Jun-21 A	25-Mar-23	21-Oct-22	13-Feb-23	-40		
Structure Fabrication	DEsk Oliver O. Teskaw Oliverkar Eskalenter	180	17			16-Dec-22	29-Dec-22		29		
06-FGC-2-1040 Structure Erection	PFab 2-Line 2 - Tertiary Structure Fabrication	180	17 41	90.56%		16-Dec-22 09-Jan-23	29-Dec-22 15-Dec-22	15-Jan-23 25-Jan-23	29 15		
06-FGC-2-1100	PFab 2-Line 2 - Top Floor Primary & Secondary Steel Structure Erection	60	31	48.33%		30-Dec-22	15-Dec-22	15-Jan-23	15		
06-FGC-2-1110	PFab 2-Line 2 - Tertiary Structure Erection	90	15	83.33%	01-Sep-22 /	09-Jan-23	10-Jan-23	25-Jan-23	15		
Mechanical Erection		272	34			02-Jan-23	23-Oct-22	26-Nov-22	-38		
06-FGC-2-1120	PFab 2-Line 2 - 1st Floor (Below EL12.47m) (Including Silencer ID fan)	60	12			11-Dec-22	14-Nov-22	26-Nov-22	-16		
06-FGC-2-1130	PFab 2-Line 2 - 2nd Floor (EL12.47~ EL23.47m) (Including Dosing system bicar) PFab 2-Line 2 - 3rd Floor (EL23.47~ EL34.47m) (Including As h and residue to solid fication)	60	2			11-Dec-22	24-Nov-22 31-Oct-22	26-Nov-22 26-Nov-22	-16		
06-FGC-2-1140 06-FGC-2-1150	PFab 2-Line 2 - 4th Floor (EL23.47~ EL44.22m) (Including As hand residue to so including) PFab 2-Line 2 - 4th Floor (EL34.47~ EL44.22m) (Including Urea to ammonia convertor)	60 50	26 34		03-Jun-22 A	25-Dec-22	23-Oct-22	26-Nov-22 26-Nov-22	-30 -38		
Piping Fabrication		180	35			03-Jan-23	21-Oct-22	25-Nov-22	-40		
06-FGC-2-1210	PFab 2-Line 2 - Piping Fabrication	180	35	80.56%	03-Jun-21 A	03-Jan-23	21-Oct-22	25-Nov-22	-40		
Piping Installation		150	51		-	19-Jan-23	21-Oct-22	11-Dec-22	-40		
06-FGC-2-1000	PFab 2-Line 2 - Piping Installation	150	51	65.98%	12-Aug-22 A		21-Oct-22	11-Dec-22	-40		
E&I Fabrication 06-FGC-2-1220	PFab 2-Line 2 - E&I Fabrication	180 180	68 68	62 22%		05-Feb-23 05-Feb-23	01-Nov-22 01-Nov-22	08-Jan-23 08-Jan-23	-29 -29		
E&I Installation		65	65	02.22 /8	11-Dec-22		01-Nov-22	05-Jan-23	-29		
06-FGC-2-1230	PFab 2-Line 2 - E&I Support Installation	45	45	0%	11-Dec-22*		01-Nov-22	16-Dec-22	-40		1
06-FGC-2-1240	PFab 2-Line 2 - E&I Cable Ladder Erection	45	45	0%	18-Dec-22	31-Jan-23	08-Nov-22	23-Dec-22	-40		
Electrical		53	53		23-Dec-22	13-Feb-23	13-Nov-22	05-Jan-23	-40		
06-FGC-2-1250	PFab 2-Line 2 - Electrical Cable Pulling and Termination	30	30		15-Jan-23	13-Feb-23	06-Dec-22	05-Jan-23	-40		
 06-FGC-2-1260 06-FGC-2-1270 	PFab 2-Line 2 - Electrical Equipment Installation PFab 2-Line 2 - Electrical Heat Tracing Installation	26	26 26		01-Jan-23 01-Jan-23	26-Jan-23 26-Jan-23	22-Nov-22 22-Nov-22	18-Dec-22 18-Dec-22	-40 -40		
06-FGC-2-1310	PFab 2-Line 2 - MCC room installation	25	25		23-Dec-22*	16-Jan-23	13-Nov-22	08-Dec-22	-40		
Instrument		44	44		01-Jan-23	13-Feb-23	22-Nov-22	05-Jan-23	-40		
06-FGC-2-1280	PFab 2-Line 2 - Instrument Cable Pulling and Termination	30	30	0%	15-Jan-23	13-Feb-23	06-Dec-22	05-Jan-23	-40		
06-FGC-2-1290	PFab 2-Line 2 - Instrument Equipment Installation	26	26	0%	01-Jan-23	26-Jan-23	22-Nov-22	18-Dec-22	-40		
06-FGC-2-1300	PFab 2-Line 2 - Instrument Tubing Installation	26	26	0%	01-Jan-23	26-Jan-23	22-Nov-22	18-Dec-22	-40		
Insulation 06-FGC-2-1010	PFab 2-Line 2 - Insulation	76 76	76 76	0%	30-Nov-22 30-Nov-22	13-Feb-23 13-Feb-23	21-Oct-22 21-Oct-22	05-Jan-23 05-Jan-23	-40 -40	20)-Nov-22
Precommissioning		60	60	078	26-Dec-22	23-Feb-23	16-Nov-22	15-Jan-23	-40		
06-FGC-2-1020	PFab 2-Line 2 - Pre-commissioning	60	60	0%	26-Dec-22	23-Feb-23	16-Nov-22	15-Jan-23	-40		
Load out & Shipping		20	20		24-Feb-23	15-Mar-23	15-Jan-23	04-Feb-23	-40		
06-FGC-2-1030	PFab 2-Line 2 - Load Out & ready to ship	20	20	0%	24-Feb-23	15-Mar-23	15-Jan-23	04-Feb-23	-40		
Delivery 06-FGC-2-1320	PFab 2-Line 2 - Delivery	10 10	10 10	0%	16-Mar-23 16-Mar-23	25-Mar-23 25-Mar-23	04-Feb-23	13-Feb-23 13-Feb-23	-40 -40		
PFab 2 - Line 3		612					22-Nov-22		7		
Structure Fabrication		180	6			05-Dec-22		22-Mar-23	107		
06-FGC-3-1110	PFab 2-Line 3 - Tertiary Structure Fabrication	180	6	96.67%		05-Dec-22		22-Mar-23	107		
Structure Erection	DEab 0 Line 0. 4th Elect (El 04.47, El 44.00m) Drimony 9. Consender: Steel Structure Exercises	122	41	CO 070/		09-Jan-23		15-Mar-23	65		
06-FGC-3-1080 06-FGC-3-1090	PFab 2-Line 3 - 4th Floor (EL34.47~ EL44.22m) Primary & Secondary Steel Structure Erection PFab 2-Line 3 - Top Floor Primary & Secondary Steel Structure Erection	29 60	11 31			10-Dec-22 30-Dec-22	03-Feb-23	25-Dec-22 05-Mar-23	15 65		
06-FGC-3-1100	PFab 2-Line 3 - Tertiary Structure Erection	59	16			09-Jan-23	28-Feb-23	15-Mar-23	65		
Mechanical Erection	·	303	43			11-Jan-23	28-Nov-22	29-Jan-23	18		
06-FGC-3-1000	PFab 2-Line 3 - 1st Floor (Below EL12.47m) (Including Silencer ID fan)	60	12			11-Dec-22	18-Jan-23	29-Jan-23	49		
06-FGC-3-1010	PFab 2-Line 3 - 2nd Floor (EL12.47~ EL23.47m) (Including Dosing system bicar)	60	2			01-Dec-22	09-Dec-22		9		
06-FGC-3-1020	PFab 2-Line 3 - 3rd Floor (EL23.47~ EL34.47m) (Including Ash and residue to solid fication)	60	34		01-Sep-22 /		17-Dec-22		9		
06-FGC-3-1030 Piping Fabrication	PFab 2-Line 3 - 4th Floor (EL34.47~ EL44.22m) (Including Urea to ammonia convertor)	50 180	43 55		10-Sep-22	23-Jan-23	28-Nov-22 23-Nov-22	09-Jan-23 16-Jan-23	-2 -7		
06-FGC-3-1210	PFab 2-Line 3 - Piping Fabrication	180	55			23-Jan-23		16-Jan-23	-7		
Piping Installation		77	77			25-Feb-23	04-Dec-22		-7		
06-FGC-3-1150	PFab 2-Line 3 - Piping Installation	77	77	0%	11-Dec-22*	25-Feb-23	04-Dec-22	18-Feb-23	-7		
E&I Fabrication		180	93			02-Mar-23	28-Dec-22		28		
06-FGC-3-1220	PFab 2-Line 3 - E&I Fabrication	180	93 93	48.33%		02-Mar-23	28-Dec-22 28-Dec-22	30-Mar-23 02-Mar-23	28		
06-FGC-3-1230	PFab 2-Line 3 - E&I Support Installation	93 45		0%		10-Mar-23 18-Feb-23		10-Feb-23	-8 -8		
06-FGC-3-1240	PFab 2-Line 3 - E&I Cable Ladder Erection	45	45			25-Feb-23	04-Jan-23	17-Feb-23	-8		
Electrical		93	93			10-Mar-23	08-Jan-23	02-Mar-23	-8		
06-FGC-3-1250	PFab 2-Line 3 - Electrical Cable Pulling and Term ination	30	30			10-Mar-23	01-Feb-23	02-Mar-23	-8		
06-FGC-3-1260	PFab 2-Line 3 - Electrical Equipment Installation	26	26		26-Jan-23	20-Feb-23	18-Jan-23	12-Feb-23	-8		
06-FGC-3-1270	PFab 2-Line 3 - Electrical Heat Tracing Installation	26	26		26-Jan-23	20-Feb-23	18-Jan-23	12-Feb-23	-8		
JO-FGC-3-1310	Prau 2-Line 3 - MUU room Installation	25	25	0%	U8-Dec-22*	UI-Jan-23	us-Jan-23	UI-Feb-23	31		08-
 06-FGC-3-1310 Ionth Rolling 10 of 17 	p PFab 2-Line 3 - MCC room installation g Programme (November 2022)	25	25	0%	08-Dec-22*	Rema	08-Jan-23 aining Work al Work al Remainir	•	31 ♦ Actual M ♦ Critical M		

ct No. EP/SP Facilities, Pl		tenvira	保護署 nmental Protaction Dep	arlment
Dec 61		2023 Jan 62	Feb 63	
26-Dec-22				23
			24-Feb-23	3
16-Dec-22, P		Fertiary Structure	Fabrication, PFab 2-	Line 2 -
			o Floor Primary & Se ine 2 - Tertiary Struct	
PFab 2-Line 2 - 2n	d Floor (EL12.4 b 2-Line 2 - 3rd	47~ EL23.47m) (I Floor (EL23.47~	uding Silencer ID fan Including Dosing sys EL34.47m) (Includi L34.47~ EL44.22m)	tem bic ngAsh
	PFab 2-Li	ne 2 - Piping Fat	prication, 03-Jan-23, (03-Jan-
		PFab 2-Li	ne 2 - Piping Installat	
Dec-22		24-Ja	PFab 2-Line 2 an-23, PFab 2-Line 2 31-Jan-23, PFab 2	- E&I S
01-Jan-23 01-Jan-23 23-Dec-22*	15-Jan-23	26-	13-Fe Jan-23, PFab 2-Line Jan-23, PFab 2-Line Fab 2-Line 2 - MCC r	2 - Eleo
01-Jan-23 01-Jan-23	15-Jan-23		13-Fe Jan-23, PFab 2-Line Jan-23, PFab 2-Line	
			13-Fe	eb-23, P
26-Dec-22			24-Feb-2:	23 3
		cture Fabrication		tiary Str
10-Dec-22, PFab 2-	30-Dec-22, PF	ab 2-Line 3 - Top	44.22m) Primary & S Floor Primary & Se ine 3 - Tertiary Struct	condary
11-Dec-22, PFab 2 ec-22, PFab 2-Line 3 - 2	nd Floor (EL12	.47~ EL23.47m) Jan-23, PFab 2-	.47m) (Including Sile (Including Dosing sy Line 3 - 3rd Floor (El n Floor (EL34.47~ EL	stem bi _23.47~
		PFab	2-Line 3 - Piping Fab	rication
				2
05-Jan-23 1	3* 2-Jan-23			18-Feb-
	20	6-Jan-23	eb-23	20-Fe 20-Fe
	² 0120al1223, f	- au 2-Ling 3 - N	iso room installation	

KEPPEL SEGRERS - ZHEN HUATOINT	Activity Name	Original Duration	Remaining Duration	Activity % Current Start Complete	Current Finish	Late Start	Late Finish	Total Float M60 Remarks	rated Waste Manage
		44	44	26-Jan-23	10-Mar-23	18-Jan-23	02-Mar-23	0	0 Nov
Instrument 06-FGC-3-1280	PFab 2-Line 3 - Instrument Cable Pulling and Termination	30	30	0% 09-Feb-23	10-Mar-23	01-Feb-23	02-Mar-23	-8 -8	
	PFab 2-Line 3 - Instrument Equipment Installation	26	26	0% 26-Jan-23	20-Feb-23	18-Jan-23	12-Feb-23	-8	
06-FGC-3-1300	PFab 2-Line 3 - Instrument Tubing Installation	26	26	0% 26-Jan-23	20-Feb-23	18-Jan-23	12-Feb-23	-8	
Insulation		102	102		11-Mar-23	22-Nov-22	03-Mar-23	-8	
06-FGC-3-1170	PFab 2-Line 3 - Insulation	102	102	0% 30-Nov-22	11-Mar-23	22-Nov-22	03-Mar-23	-8	30-Nov-22
Precommissioning 06-FGC-3-1180	PFab 2-Line 3 - Pre-commissioning	60	60 60	23-Jan-23 0% 23-Jan-23	23-Mar-23 23-Mar-23	15-Jan-23 15-Jan-23	15-Mar-23	-8	
PFab 2 - Line 4		625	107			06-Dec-22	09-Apr-23	24	
Structure Fabrication		180	45		13-Jan-23	24-Feb-23	09-Apr-23	86	
06-FGC-4-1150	PFab 2-Line 4 - Tertiary Structure Fabrication	180	45			24-Feb-23	09-Apr-23	86	
Structure Erection 06-FGC-4-1120	PFab 2-Line 4 - 4th Floor (EL34.47~ EL44.22m) Primary & Secondary Steel Structure Erection	250 60	43 6		11-Jan-23	26-Dec-22 26-Dec-22		70 26	
06-FGC-4-1130	PFab 2-Line 4 - Top Floor Primary & Secondary Steel Structure Erection	60	38			08-Feb-23	17-Mar-23	70	
06-FGC-4-1140	PFab 2-Line 4 - Tertiary Structure Erection	90	27	70% 14-Sep-22		24-Feb-23	22-Mar-23	70	
Mechanical Erection		263	36	· ·	A 04-Jan-23	06-Dec-22	12-Jan-23	8	
06-FGC-4-1040	PFab 2-Line 4 - 1st Floor (Below EL12.47m) (Including Silencer ID fan)	60	7	88.33% 24-Dec-21	A 06-Dec-22	27-Dec-22	02-Jan-23	27	
06-FGC-4-1050	PFab 2-Line 4 - 2nd Floor (EL12.47~ EL23.47m) (Including Dosing system bicar)	60	2	96.67% 04-Feb-22 A	01-Dec-22	22-Dec-22	23-Dec-22	22	
06-FGC-4-1060	PFab 2-Line 4 - 3rd Floor (EL23.47~ EL34.47m) (Including Ash and residue to solid fication)	60	26	56.67% 11-Feb-22 A		18-Dec-22	12-Jan-23	18	
06-FGC-4-1070	PFab 2-Line 4 - 4th Floor (EL34.47~ EL44.22m) (Including Urea to ammonia convertor)	60	36	40% 06-May-22		06-Dec-22	10-Jan-23	6	
Piping Fabrication 06-FGC-4-1210	PFab 2-Line 4 - Piping Fabrication	180 180	71 71		08-Feb-23	06-Dec-22 06-Dec-22	14-Feb-23 14-Feb-23	6	
Piping Installation		57	57		15-Feb-23	27-Dec-22		6	
06-FGC-4-1000	PFab 2-Line 4 - Piping Installation	57	57	0% 21-Dec-22*		27-Dec-22		6	
E&I Fabrication		180	50	14-Apr-22 A	18-Jan-23	28-Dec-22	15-Feb-23	28	
06-FGC-4-1220	PFab 2-Line 4 - E&I Fabrication	180	50	72.22% 14-Apr-22 A	18-Jan-23	28-Dec-22	15-Feb-23	28	
E&I Installation		65	65			28-Dec-22	02-Mar-23	6	
 06-FGC-4-1230 06-FGC-4-1240 	PFab 2-Line 4 - E&I Support Installation	45	45 45	0% 22-Dec-22*	04-Feb-23 11-Feb-23	28-Dec-22 04-Jan-23	10-Feb-23 17-Feb-23	6	
Electrical	PFab 2-Line 4 - E&I Cable Ladder Erection	45	45	0% 29-Dec-22 01-Jan-23	24-Feb-23	04-Jan-23	02-Mar-23	6	
06-FGC-4-1250	PFab 2-Line 4 - Electrical Cable Pulling and Term ination	30	30	0% 26-Jan-23	24-Feb-23	01-Feb-23	02-Mar-23	6	
06-FGC-4-1260	PFab 2-Line 4 - Electrical Equipment Installation	26	26	0% 12-Jan-23	06-Feb-23	18-Jan-23	12-Feb-23	6	
06-FGC-4-1270	PFab 2-Line 4 - Electrical Heat Tracing Installation	26	26	0% 12-Jan-23	06-Feb-23	18-Jan-23	12-Feb-23	6	
06-FGC-4-1310	PFab 2-Line 4 - MCC room installation	25	25	0% 01-Jan-23*	25-Jan-23	07-Jan-23	31-Jan-23	6	
Instrument		44	44	12-Jan-23	24-Feb-23	18-Jan-23	02-Mar-23	6	
06-FGC-4-1280 06-FGC-4-1290	PFab 2-Line 4 - Instrument Cable Pulling and Termination PFab 2-Line 4 - Instrument Equipment Installation	30	30 26	0% 26-Jan-23 0% 12-Jan-23	24-Feb-23	01-Feb-23	02-Mar-23	6	
06-FGC-4-1290	PFab 2-Line 4 - Instrument Equipment Installation	26	26	0% 12-Jan-23	06-Feb-23 06-Feb-23	18-Jan-23 18-Jan-23	12-Feb-23 12-Feb-23	6	
Insulation		150	3			05-Mar-23	07-Mar-23	6	
06-FGC-4-1010	PFab 2-Line 4 - Insulation	150	3		01-Mar-23	05-Mar-23	07-Mar-23	6	
Precommissioning		60	60	16-Jan-23	16-Mar-23	22-Jan-23	22-Mar-23	6	
06-FGC-4-1020	PFab 2-Line 4 - Pre-commissioning	60	60		16-Mar-23	22-Jan-23	22-Mar-23	6	
PFab 2 - Line 5 Structure Fabrication		641 167	136 27		14-Apr-23 26-Dec-22	27-Nov-22	10-Jun-23 11-May-23	136	
06-FGC-5-1110	PFab 2-Line 5 - Tertiary Structure Fabrication	167	27				11-May-23	136	
Structure Erection		245	75	20-Apr-22 A	12-Feb-23	-	21-May-23	98	
06-FGC-5-1070	PFab 2-Line 5 - 3rd Floor(EL23.47~ EL34.47m) Primary & Secondary Steel Structure Erection	60	5	91.67% 20-Apr-22 A	04-Dec-22	13-Dec-22	17-Dec-22	13	
06-FGC-5-1080	PFab 2-Line 5 - 4th Floor (EL34.47~ EL44.22m) Primary & Secondary Steel Structure Erection	60	15			17-Dec-22		17	
06-FGC-5-1090	PFab 2-Line 5 - Top Floor Primary & Secondary Steel Structure Erection	60	60	0% 15-Dec-22		01-Jan-23	01-Mar-23	17	
06-FGC-5-1100	PFab 2-Line 5 - Tertiary Structure Erection	90	18	· · ·		-	21-May-23	136	
Mechanical Erection 06-FGC-5-1000	PFab 2-Line 5 - 1st Floor (Below EL12.47m) (Including Silencer ID fan)	353 60	79 13		16-Feb-23 12-Dec-22	06-Dec-22 06-Dec-22		13 6	
06-FGC-5-1010	PFab 2-Line 5 - 2nd Floor (EL12.47~ EL23.47m) (Including Orience) bitally	60	6			06-Dec-22		6	
06-FGC-5-1020	PFab 2-Line 5 - 3rd Floor (EL23.47~ EL34.47m) (Including As h and residue to solid fication)	60	55			18-Dec-22	10-Feb-23	13	
06-FGC-5-1030	PFab 2-Line 5 - 4th Floor (EL34.47~ EL44.22m) (Including Urea to ammonia convertor)	50	19	62% 07-Oct-22 A	16-Feb-23	11-Feb-23	01-Mar-23	13	
Piping Fabrication		180	85		22-Feb-23	02-Dec-22		2	
06-FGC-5-1170	PFab 2-Line 5 - Piping Fabrication	180	85				24-Feb-23	2	
Piping Installation 06-FGC-5-1190	PFab 2-Line 5 - Piping Installation	105 105	105 105			27-Nov-22 27-Nov-22	11-Mar-23 11-Mar-23	-3 -3	30-Nov-22*
E&I Fabrication		180	134		12-Apr-23	28-Jan-23	10-Jun-23	59	
06-FGC-5-1180	PFab 2-Line 5 - E&I Fabrication	180	134			28-Jan-23	10-Jun-23	59	
E&I Installation		52	52			28-Jan-23	20-Mar-23	-3	
06-FGC-5-1230	PFab 2-Line 5 - E&I Support Installation	45	45			28-Jan-23	13-Mar-23	-3	
06-FGC-5-1240	PFab 2-Line 5 - E&I Cable Ladder Erection	45	45			04-Feb-23		-3	
Electrical 06-FGC-5-1260	PFab 2-Line 5 - Electrical Equipment Installation	36 26	36 26	16-Feb-23 0% 26-Feb-23	23-Mar-23 23-Mar-23	14-Feb-23 23-Feb-23	20-Mar-23 20-Mar-23	-3 -3	
06-FGC-5-1260	PFab 2-Line 5 - Electrical Equipment Installation	26	26	0% 26-Feb-23	23-Mar-23 23-Mar-23	23-Feb-23 23-Feb-23	20-Mar-23	-3	
06-FGC-5-1310	PFab 2-Line 5 - MCC room installation	25	25			14-Feb-23	10-Mar-23	-2	
Instrument		26	26	26-Feb-23		23-Feb-23		-3	
_						aining Work		Actual N	lilestone
A 10 MM 111						anning vvork	· 🗸	V ACTUAL N	VIIICS LUI IC
Month Rollin	g Programme (November 2022)					al Work		 Critical 	

t No. EP/SP Facilities, Pl		C	堤項1 Environ 2023	保護:著 Innential Protaction Department
Dec 61		Jan 62		Feb 63
			09-F	eb-23
		26-Jan-23		20-F
		26-Jan-23		20-F
	÷			
	23.	Jan-23 📕		
		-Jan 25		
	·			
		13-Jan-23	, PFab	2-Line 4 - Tertiary Structure
5-Dec-22, PFab 2-Line				m) Primary & Secondary S
				4 - Top Floor Primary & Se
		11-Jan-23, I	PFab 2-	Line 4 - Tertiary Structure E
	*			(Including Silencer ID fan)
				(Including Dosing system b
25-L				r (EL23.47~ EL34.47m) (In - 4th Floor (EL34.47~ EL44
	U4-Jan	-20, PFaD 2-		- +u1 FIUUI (EL34.4/~ EL44
				08-Feb-23, PFab
				30 . 00 20, 11 ab
1-Dec-22*				15-Feb-23
		18 -J	an-23, F	PFab 2-Line 4 - E&I Fabrica
				<u></u>
22-Dec-22*				04-Feb-23, PFab 2-Li
29-Dec-22 🗖				11-Feb-23, PF
		26-Jan-23		
	· · · · · · · · · · · · · · · · · · ·	20-Jan-23		2
	2-Jan-23 🗖 2-Jan-23 🗖			06-Feb-23, PFab 2- 06-Feb-23, PFab 2-
01-Jan-23*			25-1	an-23, PFab 2-Line 4 - MCC
01-041-20			20-00	
	·	26-Jan-23		2
1	2-Jan-23 🗖			06-Feb-23, PFab 2-
1	2-Jan-23 🔲			06-Feb-23, PFab 2-
	, , ,]
		<u></u>		
	16-Jan-23			
26-	Dec.22 PFal	2-line 5 -	Tortiory	Structure Fabrication, PFa
		52-Line 5 -		
-Dec-22, PFab 2-Line 5	- 3rd Floor(E	L23.47~ EL	.34.47m) Primary & Secondary Ste
14-Dec-22, PFa		th Floor (El	34.47~	EL44.22m) Primary & Sec
:-22				12-Feb-23, P
	05-Jai	n-23, PFab		- Tertiary Structure Erectio
12-Dec-22, PFab	2-Line 5 - 1st	Floor (Belo	w EL12	2.47m) (Including Silencer I
5-Dec-22, PFab 2-Line	5 - 2nd Floor	(EL12.47~ I	EL23.47	m) (Including Dosing syste
			28	3-Jan-23, PFab 2-Line 5 - 3
				16-Feb-2
		<u></u>		
				22-
	; 	31-Jan-	23*	
			07-Feb	-23
				26-Feb-23
				26-Feb-23
	· · · · · · · · · · · · · · · · · · ·			16-Feb-23*

OF-FGC-5-1290 PFab 2-Line 5- Instrument Equipment Installation Cold		Activity Name	Original Duration	Remaining Duration	Activity % Current Start Complete	Current Finish	Late Start	Late Finish	Total Float M60 Remarks	s Nov	2022
Philip DecisionPhilip Decisi							00 5 1 00	00.14			
Image: state intermediateImage: state intermediat											
BIOLOGYProbability </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td>							_				
SelectionImage: SelectionImage: Selection		PFab 2-Line 5 - Insulation	150	135			28-Nov-22		-3		
PhotonPhot					· · · · · · · · · · · · · · · · · · ·						
SubsetProbable<		PEab 2-1 ine 6 - Tertiany Structure Exprination									
BPFADSS<							-				
BBDDD <th< td=""><td></td><td>PFab 2-Line 6 - 3rd Floor(EL23.47~ EL34.47m) Primary & Secondary Steel Structure Erection</td><td></td><td>6</td><td></td><td></td><td></td><td>· · ·</td><td></td><td></td><td></td></th<>		PFab 2-Line 6 - 3rd Floor(EL23.47~ EL34.47m) Primary & Secondary Steel Structure Erection		6				· · ·			
BBBCC <th< td=""><td>06-FGC-6-1140</td><td>PFab 2-Line 6 - 4th Floor (EL34.47~ EL44.22m) Primary & Secondary Steel Structure Erection</td><td>60</td><td>4</td><td>93.33% 20-May-22</td><td>03-Dec-22</td><td>05-Jan-23</td><td>08-Jan-23</td><td>36</td><td></td><td></td></th<>	06-FGC-6-1140	PFab 2-Line 6 - 4th Floor (EL34.47~ EL44.22m) Primary & Secondary Steel Structure Erection	60	4	93.33% 20-May-22	03-Dec-22	05-Jan-23	08-Jan-23	36		
Note 1100Note 1100 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>· ·</td> <td></td> <td></td> <td>04-Dec-22</td>								· ·			04-Dec-22
MPCALS1 MPCALSIMAProbable Submittance Transmittance Tran		PFab 2-Line 6 - Tertiary Structure Erection			· ·			· ·			
Price (Price)Price		PEab 2-Line 6 - 1st Floor (Below FL 12 47m) (Including Silencer ID fan)									
Ph/SC110Ph/S 10 ab - 1 for (Pi (S10) for	-	, ,, <u>,</u> ,									
BBB <th< td=""><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	-										
Photo <th< td=""><td>06-FGC-6-1200</td><td>PFab 2-Line 6 - 4th Floor (EL34.47~ EL44.22m) (Including Urea to ammonia convertor)</td><td>50</td><td>50</td><td>0% 20-Dec-22</td><td>07-Feb-23</td><td>09-Jan-23</td><td>27-Feb-23</td><td>20</td><td></td><td></td></th<>	06-FGC-6-1200	PFab 2-Line 6 - 4th Floor (EL34.47~ EL44.22m) (Including Urea to ammonia convertor)	50	50	0% 20-Dec-22	07-Feb-23	09-Jan-23	27-Feb-23	20		
pipe productionpipe producti				52	· · · · · ·						
BATE ALT ALL ALT ALT ALT ALT ALT ALT ALT ALT	-	PFab 2-Line 6 - Piping Fabrication									
First stateImage: State <td></td> <td>PEak 9 Line 6 Diving Installation</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>09-Dec-</td>		PEak 9 Line 6 Diving Installation									09-Dec-
BBB <th< td=""><td>-</td><td>Prao 2-Line 6 - Piping Instanation</td><td></td><td></td><td></td><td></td><td></td><td>· · ·</td><td></td><td></td><td>09-Dec-</td></th<>	-	Prao 2-Line 6 - Piping Instanation						· · ·			09-Dec-
Bit Proc 1-bit Bit SynchronizationSin StatusSin Status<		PFab 2-Line 6 - E&I Fabrication						-		30-'	-Nov-22*
abs Alumb - Ext Support antibilitiesbit Sbit S<	E&I Installation		65	65	02-Jan-23	07-Mar-23	30-Dec-22	04-Mar-23	-3		
ExampleSolutional of Marce 1Solutional of Marce 1Solu	06-FGC-6-1240	PFab 2-Line 6 - E&I Support Installation	45	45	0% 02-Jan-23	15-Feb-23	30-Dec-22	12-Feb-23	-3		
0 56:00:1000 Pisb 2 Line. Electron Galp Putag and methanism 30 300 70°, 60 fer 20 0.4447.2 0.5402.3 0.5 0 6:500.6 1200 Pisb 2 Line. Electron Galp Putag and methanism 26 0.6 0.5402.6 1200 0.5402.3 1.540.3 0.5 0.540.3 1.540.3 0.5 0:500.6 1200 Pisb 2 Line. Electron Galp Putag and methanism 25 0.6 0.540.6 1200 1.540.3 0.5 0.540.6 1200 0.540.6 1200 0.540.2 0 1.540.3 0.5 0.550.0 1200 0.550.2 0 1.540.2 0 0.550.2 0 0.540.2 0 0.550.2 0 0.550.2 0 0.550.2 0 0.550.2 0 </td <td></td> <td>PFab 2-Line 6 - E&I Cable Ladder Erection</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>		PFab 2-Line 6 - E&I Cable Ladder Erection							-		
orField Line Extender HandlardAllA		DE-h O Line A - Electrical Ochla Delline and Tempinetics									
Physical ProblemsProbabilityProb		•									
Pick Part ProcessingPick Part Part ProcessingPick Part Part Part ProcessingPick Part Part Part Part Part Part Part Part											
0 + 6 + 6 + 2 + 1 + 0 + 2 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1		•									
DF - GO - F100 PFab 2 Line 6 - Instrument Exignment Exig	Instrument		44	44	23-Jan-23	07-Mar-23	20-Jan-23	04-Mar-23	-3		
Best of the structure transmer		•		30	0% 06-Feb-23		03-Feb-23				
Institution 60 - Fig F											
0 PFib 2-Line 6 - Inculation 97-Bit 2-Line 6 - Inculation		PFab 2-Line 6 - Instrument Tubing Installation					_				
Enhance Starting		PEab 2-Line 6 - Insulation									
Material Procurrent (FMR) Field Procurrent (FMR) Gene Procurrent (FMR) GeneProcurrent (FMR) Gene Procurrent (FMR)						·		· ·			
16 85002 (E): Material Procurrent (IMA) 60 10 83.35% 30.449/22 16 90-co2 16 1.000-22 2.140-22 1.140-22 16 85005 (E): Material Procurrent (IM2) 60 13 73.35% 30.449/22 2.160-22 1.140-22 2.140-22 1.140-23 1.140-23 1.140-23 1.140-23 1.140-23 1.140-23 1.140-23 1.140-23 1.140-23 1.140-									-16		
1 6 8000 (6E) Material Procurrent (FM3) Material Pesing (FM2) 21 000000000000000000000000000000000000											
Mathemati Testing Status											
16 4500-10 (6E) Material Testing (FM2) Material Testing (FM3) 16 4000-122 17 3-33% 15 - Jun-23 18 - Jun-23		Material Procurment (FM3)	45	11	75.56% 21-Aug-22	A 23-Dec-22	27-Nov-22	07-Dec-22	-16		
i 6 4500 - 11 (E) Material Testing (FM3) 6 4500 - 12 (E) i 6 4500 - 12 (E) i 6 4500 - 12 (E) i 1 4 Hore 22 i 6 4500 - 12 (E) i 1 4 Hore 2 i 1 4 Hore		Material Testing (FM2)	60	13	78.33% 25-Jun-22	A 21-Feb-23 A 11-Jan-23	18-Dec-22	30-Dec-22	-16		
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3-Month Rolling	Programme	(November 2022)
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Remaining Work Actual Work

Critical Milestone

Critical Remaining Work

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Material Procurment (FM2), 12-Dec-22, 12-Dec-22, Material Procurment (FM3), 23-Dec-22, 23-Dec-22, Material Pro- Material Procurment (FM3), 23-Dec-22, 23-Dec-22, Material Pro- Material Testing (FM2), 11-Jan-23, 11-Jan-23, 24-Dec-22 24-Dec-22, Material Testing (BM2), Material Testing (BM2), 12-Dec-22 25-12-Dec-22, Material Testing (BM2), Material Testing (BM2), 12-Dec-22 30-Jan-23 09-Jan-23 09-Jan-23 22-Feb-23 22-Feb-23 31-Dec-22, Electrical and Instrumentation Material Pro- 30-Dec-22, Turbine Module 1 - Steam Turbine 1 Fabricat 29-Dec-22, Turbine Module 1 - Steam Turbine 1 Fabricat 20-Dec-22, Turbine Module 1 - TBS Tower 1 Fabrication, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower							17-Fe
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07-Feb-23, Fabr 12-Jan-23 22-Feb-23 31-Dec-22, Electrical and Instrumentation Material Proc 30-Dec-22, Turbine Module 1 - Steam Turbine 1 Fabricati 29-Dec-22, Turbine Module 1 - Generator & Equipment Ins Dec-22, Turbine Module 1 - TBS Tower 1 Fabrication, Turbine Module 1 - TBS Tower 1 Fabrication, Turbine Module 1 - TBS Tower 1 Fabrication & Instrumentation & Ins			Materia	l Testing (BM3), 08-	Jan-23, 08	-Jan-23, I
12-Jan-23 22-Feb-23 31-Dec-22, Electrical and Instrumentation Material Proc 30-Dec-22, Turbine Module 1 - Steam Turbine 1 Fabricati 29-Dec-22, Turbine Module 1 - Steam Turbine 1 Fabrication 29-Dec-22, Turbine Module 1 - TBS Tower 1 Fabrication, Turbine Module 1 - TBS Tower 1 Fabrication, Turbine Module 1 - TBS Tower 1 Fabrication (1) - TBS Tower 1 - TBS - 23	09)-Jan-23				07 Eob	22 Eabri
30-Dec-22, Turbine Module 1 - Steam Turbine 1 Fabricat 29-Dec-22, Turbine Module 1 - Generator & Equipment Inc Dec-22, Turbine Module 1 - TBS Tower 1 Fabrication, Turbine Module 1 - TBS Tower 1 Fabrication, Turbine Module 1 - TBS Tower 1 Erection & I 30-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & I 31-Dec-22			3				
\$9-Dec-22, Turbine Module 1 - Generator & Equipment Inc Dec-22, Turbine Module 1 - TBS Tower 1 Fabrication, Turbine Module 1 - TBS T 30-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & I 31-Dec-22 13-Feb-23		3 1-Dec	:-22, Elec	trical and	l Instrumer	itation Mat	erial Proc
30-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & I 31-Dec-22 13-Feb-23	Dec-22 Turbine Mo	29-Dec-2	22, Turbin	e Module	1 - Genera	tor&Equi	pmentlna
						ower 1 Ere	ection & I

REPPEL SEGIERS - 2HEN HUATO	Activity Name	Original Duration	Remaining Duration	Activity % Current Start Complete	Current Finish	Late Start	Late Finish	Total Float M60 Remarks	rated Waste Manage
-									60
_Turbine Module 3 06-4410(6)	Turbine Module 3 - Steam Turbine 3 Fabrication	450 450	120 120			30-Nov-22 30-Nov-22		0	
06-4420(6)	Turbine Module 3 - Generator & Equipment Installation	450	120			30-Nov-22		0	
06-4440(6)	Turbine Module 3 - TBS Tower 3 Fabrication	61	41	32.79% 06-Sep-21 A	09-Jan-23	02-Dec-22	11-Jan-23	2	
06-4440-1(M55)	Turbine Module 3 - TBS Tower 3 Erection & Installation	88	77	12.5% 06-Sep-22 A	27-Mar-23	12-Jan-23	29-Mar-23	2	
Procurement for Air C		480	83			30-Nov-22	23-Aug-23	184	
06-1120 06-1120-1	Off-site Fabrication of ACC-1 Units Off-site Fabrication of ACC-2 Units	178 178	25 68	85.96% 23-Oct-21 A 61.8% 28-Feb-22 A		30-Nov-22 09-Apr-23	24-Dec-22 15-Jun-23	0 130	
06-1120-2	Off-site Fabrication of ACC-3 Units	178	83			09-Apr-23 02-Jun-23	23-Aug-23	184	
06-1130	Factory Acceptance Test (FAT) for ACC-1	56	56		24-Jan-23	30-Nov-22	24-Jan-23	0	30-Nov-22
06-1160	Delivery to Site ACC-1	21	21	0% 25-Jan-23	14-Feb-23	25-Jan-23	14-Feb-23	0	
Procurement for CCC	W Building Equipment	300	43			14-Jun-23	26-Jul-23	196	
06-1410(1)	Material Procurement & Equipment Manufacture	300	43			14-Jun-23	_	196	
-	nanical Treatment Plant Building Plant Equipment	398	245			05-Aug-23	· · ·	248	
06-1150-1(1) 06-1150-2(1)	Mechanical Equipment Material Submission and Approval Pipe Material Submission and Approval	180	28 28			05-Aug-23 19-Sep-23		248 293	
06-1150-3(1)	Electrical and Instrumentation Material Submission and Approval	180	60			10-Aug-23		253	
06-1160-1(1)	Mechanical Equipment Procurement (Incl. FAT)	217	217			02-Sep-23	05-Apr-24	248	
06-1160-2(1)	Pipe Material Procurement (Incl. FAT)	180	172	4.44% 30-Jun-21 A	17-Jun-23	17-Oct-23	05-Apr-24	293	
	ewater Treatment Plant Equipment	105	31			20-Feb-23	22-Mar-23	82	
06-1190-1(1)	Mechanical Equipment Material Submission and Approval	90	31			20-Feb-23	22-Mar-23	82	
06-1190-2(1) 06-1190-3(1)	Pipe Material Submission and Approval Electrical and Instrumentation Material Submission and Approval	90	31			20-Feb-23 20-Feb-23	22-Mar-23 22-Mar-23	82	
()	electrical and instrumentation material Submission and Approval	120	121			20-Feb-23 23-Jan-23	22-Mar-23	54	
06-1240-1(1)	Mechanical Equipment Procurement (Incl. FAT)	60	1	98.33% 01-Jun-22 A		23-Jan-23	23-Jan-23	54	
06-1260-1(M55)	WTP chemical storage tank Material Submission and Approval	120	120	0% 01-Dec-22	30-Mar-23	24-Jan-23	23-May-23	54	01-Dec-22
	ransformers and Associated Equipment	333	180	31-May-22	28-May-23	30-Nov-22	28-May-23	0	
Procurement of Transfor		120	120		· · ·		08-May-23	10	
06-1290(1)	Factory Acceptance Test (FAT) oard/Pannels and Cables	120 240	120 180				08-May-23 28-May-23	10 0	
06-2090(1)	Material Submission and Approval	60	30		29-Dec-22		29-Dec-22	0	
06-2100(1)	Material & Equipment Procurement	240	180	25% 31-May-22	28-May-23	30-Nov-22	28-May-23	0	
Procurement for Cont	irol SCADA Systems	140	105	23-May-22	14-Mar-23	02-Dec-22	16-Mar-23	2	
06-1310	Scada System Procurement, Panel Assembly & Wiring	140	105		14-Mar-23	02-Dec-22		2	
Procurement for Onst 06-1350	Supplier Submission and Approval	360 60	360 60		24-Nov-23 28-Jan-23	03-Nov-22 03-Nov-22	28-Oct-23 01-Jan-23	-27 -27	30-Nov-22
06-1360	Material & Equipment Procurement	300	300		24-Nov-23	02-Jan-23		-27	
	site Fabrication of Pipe Bridges (Incl. Pipings)	325	142			23-Nov-22		39	
06-1400	Material & Equipment Procurement	150	10	93.33% 31-May-22	15-Jan-23	20-May-23	29-May-23	134	
Fabrication of Pipe Rack	k (Prefab.3)	150	78						
Pipe Rack 1 06-5000(6)	Structure Cutting, Painting & Pre-assembly	110	44	28-Oct-21 A 70.91% 28-Oct-21 A		01-Mar-23		91	
06-5010(6) 06-5010(6)	Erection & Fabrication	110 60	32				13-Apr-23	91 91	
Pipe Rack 2		110	78			26-Feb-23			
06-5070(6)	Structure Cutting, Painting & Pre-assembly	110		57.27% 11-Nov-21 A			13-Apr-23	88	
06-5080(6)	Erection & Fabrication	60	31				14-May-23	88	
Pipe Rack 3	Observers Outline Deletion & Des secondale	132	78			26-Feb-23			
06-5140(6) 06-5150(6)	Structure Cutting, Painting & Pre-assembly Erection & Fabrication	110 60	47	57.27% 30-May-21 48.33% 07-Mar-22 A			13-Apr-23 14-May-23	88	
Fabrication of Pipe Brid		180	77			23-Dec-22	,		
Pipe Bridge B Between		180	77					24	
06-5300(6)	Structure Cutting, Painting & Pre-assembly	180	0				23-Dec-22	24	
06-5310(6)	Erection & Fabrication	31	31					24	30-Nov-22
06-5320(6) Fabrication of Pipe Bridge	Piping installation	46 203	46 142			24-Jan-23 23-Nov-22		-7	
Pipe Bridge C between		200	139			23-Nov-22		-7	
06-5400(6)	Structure Cutting, Painting & Pre-assembly	14	78			23-Nov-22	08-Feb-23	-7	
06-5410(6)	Erection & Fabrication	61	61				10-Apr-23	-7	
Pipe Bridge C between 06-5440(6)	Turbine Hall & ACC -2 Structure Cutting, Painting & Pre-assembly	200 14	139 78				10-Apr-23 08-Feb-23	-7 -7	
06-5450(6) 06-5450(6)	Erection & Fabrication	61	61				10-Apr-23	-7	
Pipe Bridge C between		203	142			23-Nov-22		-7	
06-5480(6)	Structure Cutting, Painting & Pre-assembly	14	81				11-Feb-23	-7	
06-5490(6)	Erection & Fabrication	61	61					-7	
	lectrical System for On-site Installation	180	43			22-Sep-23		296	
06-1440	Material & Equipment Procurement	180	43	76.11% 01-Mar-22 A	11-Jan-23	22-Sep-23	03-Nov-23	296	

3-Month Rolling Programme (November 2022)

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Remaining Work Actual Work

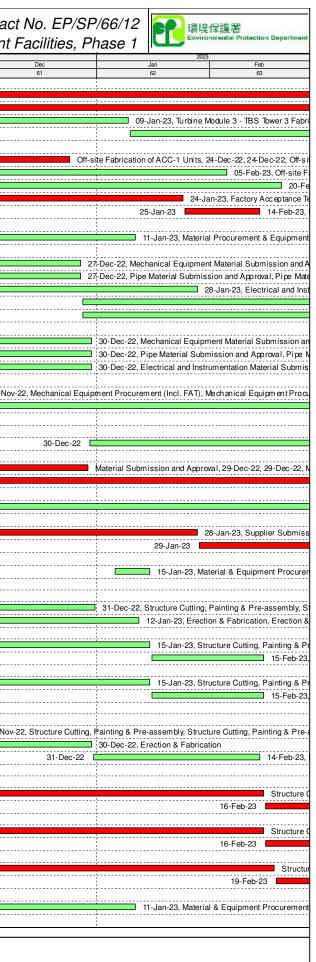
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Actual Milestone

Critical Milestone

Critical Remaining Work

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KEPPEL SEGHERS - ZHEN HUAJOR							1	1		rated Waste Manager
	Activity Name	Original Duration	Remaining Duration	Activity Comple	% Current Start te	Current Finish	Late Start	Late Finish	Total Float M60 Remarks	5 Nov 60
IWMF Substation		250	90		31-May-22	29-Mar-23	12-Mar-23	09-Jun-23	72	
06-1810(6)	Material Submission & Equipment Procurement (For IWMF Substation)	250	90	64%		29-Mar-23	12-Mar-23		72	
Procurement for Crana	age Equipment	395	152			A 30-Apr-23	28-Dec-22		111	
Waste Crane 06-1720	Material & Equipment Procurement	180	152 152			A 30-Apr-23 A 30-Apr-23	20-Mar-23 20-Mar-23		110 110	
Ash Crane		180	36		-	A 04-Jan-23		17-Aug-23		
06-1830	Material & Equipment Procurement	180	36		-	A 04-Jan-23	13-Jul-23	17-Aug-23	225	
Shredder 06-1870	Material & Equipment Procurement	85	42 42			10-Apr-23	09-Jul-23 09-Jul-23	19-Aug-23 19-Aug-23	131 131	
EOTC		150	42 100			09-Mar-23	28-Dec-22	-	28	
06-1920	Factory Acceptance Test (FAT)	150	100			A 09-Mar-23	28-Dec-22		28	
06-1940(M54)	EOTC Delivery to Site Batch 1	47	47	0%	6 30-Nov-22		28-Dec-22	12-Feb-23	28	30-Nov-22
	uality Monitoring Station Equipment	218	157			A 05-May-23	02-Dec-22		2	
06-2150(1) 06-2160(1)	Material Submission and Approval Material Procurement	60 150	7 150			A 06-Dec-22 05-May-23		08-Dec-22 07-May-23	2	07-De
.,	pmpressor Equipment	150	0			A 17-Mar-23	09-Dec-22 06-Aug-23	,	143	07-De
06-1890(1)	Factory Acceptance Test (FAT)	16	0			A 17-Mar-23	06-Aug-23		143	
Procurement for Pipes	and Insulation for on site installations	307	124		31-May-22	02-Apr-23	19-Jan-23	22-May-23	50	
06-2250(1)	Material Submission and Approval	60	4		6 31-May-22		19-Jan-23	22-Jan-23	50	
06-2260(1)	Material & Equipment Procurement	120	120	0%	6 04-Dec-22		23-Jan-23	22-May-23	50	04-Dec-2
	ing Finishes Materials (Doors, windows and louvers ie)	300	300	00	30-Nov-22	25-Sep-23	10-Dec-22		71	20 Nov 22
06-8010(6) 06-8030(6)70	ACC Equipment Yard - Material Submission, Procurement, FAT and Delivery IW MF Substation - Material Submission, Procurement, FAT and Delivery	300 200	300 200		6 30-Nov-22 6 09-Dec-22		09-Feb-23 10-Dec-22	05-Dec-23 27-Jun-23	71	30-Nov-22 09-I
	Equipments for BS Works	60	60	0,	29-Jan-23	29-Mar-23	07-Feb-23		9	
06-8300(6E)	Material Submission and Approval	60	60	0%	6 29-Jan-23	29-Mar-23	07-Feb-23	07-Apr-23	9	
Delivery of Cast-in pip	es, Fittings and Anchor Bolts for Structures (if applicable)	36	36		01-Dec-22	06-Jan-23	27-Nov-22	17-Jan-23	11	
04-1805(6F)	Was tewater Treatment Plant (60d)	0	0		6 01-Dec-22		15-Dec-22		14	
04-1815(6F)	Turbine Hall Building (30d) IW MF Substation (90d)	0	0		6 13-Dec-22		27-Nov-22		-16	
04-1880(6F) 04-1890(6F)	ACC Equipment Structure (30d)	0	0		6 06-Jan-23 6 28-Dec-22		17-Jan-23 09-Dec-22		-19	
Maritime Works		381	198	0,	31-May-22			03-Nov-23	141	
Marine Construction		381	198		31-May-22		16-Dec-22	03-Nov-23	141	
Phase I - Construction of	f Perimeter Seawalls	263	180		31-May-22		16-Dec-22	02-Oct-23	127	
Seawall and Berth at DC		60	30			29-Dec-22			277	
Seawall Structural Work	KS	60 60	30 30		31-May-22 31-May-22	29-Dec-22 29-Dec-22	16-Dec-22 16-Dec-22		277 277	
08-1120-2(M55)	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall B No. C1 & C2 (Caisson A2 8		30	50%	6 31-May-22		03-Sep-23		277	
08-1120-3(M55)	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall B No. C8 & C9	60	0	100%	6 31-May-22	30-Nov-22	16-Dec-22	16-Dec-22	17	
08-1120-4(M55)	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall B No. C73 & C73C1	60	30		-	29-Dec-22	03-Sep-23		277	
Seawall at Dredging Are Remain Works	a	160	160 160		_	28-May-23 28-May-23	26-Apr-23 26-Apr-23		127 127	
08-1170	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level (Bay 1 to Bay 8)	160	160	0%		28-May-23		02-Oct-23	127	
Phase II - Reclamation, B	reakwater and Berth Construction	381	198		31-May-22	15-Jun-23	28-Dec-22	03-Nov-23	141	
Reclamation		289	198			A 15-Jun-23	28-Dec-22		28	
Reclamation Works		289 57	198 31			A 15-Jun-23 A 30-Dec-22	28-Dec-22 28-Dec-22	13-Jul-23 16-Feb-23	28 48	
08-3060-1(M57)	Fill up +7.5 to +15mPD at West Edge Area (Area 7B1) (30,500m3 @ 2500m 3/d)	13	31	0%		30-Dec-22	17-Jan-23	16-Feb-23	48	
08-3080(6)	Fill up +7.5 to +15mPD at South Edge Area (Area 5) (96,700m3 @ 2500m 3/d)	39	18	53.85%	6 04-Jun-22	A 17-Dec-22	28-Dec-22	14-Jan-23	28	
Surcharge Period		180	180			15-Jun-23	15-Jan-23	13-Jul-23	28	
08-3120-2(M57) 08-3130(6)	Loading @ +12mPD at West Edge Area (Area 7B1) Loading @ +11&+13mPD at South Edge Area (Area 5)	60 180	60 180			28-Feb-23 15-Jun-23	17-Feb-23	17-Apr-23 13-Jul-23	48 28	
Breakwater		120	90			27-Feb-23		03-Nov-23	249	
Remain Works		120	90			27-Feb-23		03-Nov-23	249	
08-1300	Construction of Caissons Extension from +3mPD to Deck Level	120	90	25%	-	27-Feb-23		03-Nov-23	249	
oundation Works		264	116			25-Mar-23		03-Jul-23	100	
	ing Gallery Bid Foundation	15	3			A 02-Dec-22	01-Jul-23		213	
Administration Piling Wo 09-1055(6)	rks (Driven H-pile) Predrilling for Driven Pile founding determination (15 nr ~60m, @15m/d, 4 Rigs)	15 15	3	80%		A 02-Dec-22 A 02-Dec-22	01-Jul-23 01-Jul-23	03-Jul-23 03-Jul-23	213 213	
	ste Bunker & Tipping Hall Bld Foundation	148	61	007		30-Jan-23		11-Mar-23	41	
Process Building Piling		113				25-Dec-22			14	
Piling Stage 3 (Module 3		113	26			25-Dec-22	13-Dec-22		14	
Process Building (Mod 09-1160	ule 3) WWTP (Subzone 23&24) Driven H Pile Installations (103 nrs ~40m(D), @60m/d 2 Groups)	45 35	16 8			A 15-Dec-22 A 07-Dec-22		01-Jan-23 24-Dec-22	17 17	
09-1160 09-1170	Pile Load Test	35	б R			A 07-Dec-22 15-Dec-22		24-Dec-22 01-Jan-23	17	08-[
	ule 3) Bunker (Subzone 25, 26&27)	113	26	57		25-Dec-22	13-Dec-22	_	14	
09-2210	Driven H Pile Installations (297 nrs ~40m(D), @60m/d 2 Groups)	99	18	81.82%		17-Dec-22	13-Dec-22	31-Dec-22	14	
09-2220	Pile Load Test	8	8	0%	6 18-Dec-22	25-Dec-22	31-Dec-22	08-Jan-23	14	

3-Month	Rolling	Programme	(November	2022)
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Actual Work

Critical Milestone

Critical Remaining Work

ract No. EP/SP ent Facilities, Pl		R !	晨境仍	就選著 rental Protectio	n Department
Dec 61		Jan 62	2023	Feb 63	
01		02		63	
	04-Jan-2	3, Material 8		ment Procure	ment, Materi
		15-Jan-23	3, EOTO	C Delivery to S	ite Batch 1
				·····	
06-Dec-22, Material Sub	mission and A	pproval, Mat	terial S	ubmissionan	d Approval, 0
03-Dec-22, Material Submi	ssion and Appr	oval, Materi	ial Subr	n ission and A	pproval, 03-I
22	· - · - · - · - · - · - · · · · · · · ·				
		29-Jan-23			
		20-0 all-20			
Vastewater Treatment Plant					
Turbine Hall Build					
Δ	IW MF S CC Equipment	Substation (
• •					
-Nov-22, Construction of Sea	29-Dec-22, Cor awall and Wave 29-Dec-22, Cor	e Wall Exter	nsion fr	om +3mPD to	Deck Level
					
	30-Dec-22, Fil				
17-Dec-22, F	ill up +7.5 to +	15mPD at S	south E	dge Area (Are	a 5) (96,700
31-Dec-22					
18-Dec-22					
02-Dec-22, Predrilling for Di	iven Pile found	ling determi	nation	(15 nr ~60m, (⊉15m/d. 4 R
,					
07-Dec-22, Driven H Pi	le Installations	(103 nrs ~4	40m(D)	, @60m/d 2 Gi	oups), Drive
2 15-Dec-22, Pil					
17-Dec-22	riven H Pile In	stallations	297 nr	a∼40m(D) @	60m/d 2 Gro
	ec-22, Pile Loa				

	Activity Name	Original Duration	Duration	Activity % Complete	Current Start	Current Finish	Late Start	Late Finish	Total Float M60 Remarks	Nov 60	202
Piling Stage 1 (Module		9	9		30-Nov-22	08-Dec-22	28-Dec-22		28		L
Process Building (Moc 09-2200	dule 1) Tipping Hall (Subzone 1&2) Pile Load Test	9	9 9	0%	30-Nov-22 30-Nov-22	08-Dec-22 08-Dec-22	28-Dec-22 28-Dec-22		28 28	30-Nov-2	
Piling Stage 2 (Module		8	8				21-Jan-23		53		
	dule 2) Tipping Hall (Subzone 13)	8	8		30-Nov-22		21-Jan-23		53	00 Ni	
09-2250 Process Building Pile Ca	Pile Load Test	8	8 61		30-Nov-22	07-Dec-22 30-Jan-23	21-Jan-23 30-Nov-22	29-Jan-23	53 41	30-Nov-2	22
Pile Cap Stage 1 (Modu		107	46			14-Jan-23	30-Nov-22		6		
Process Building (Mod		40	40	00/		08-Jan-23		20-Jan-23	12	00 Nov 0	
09-1180 09-1190	Excavation to Pile Cap Formation Pile Cut-off & Capping Plate (76 nrs, 4nr/d)	25	25 19		30-Nov-22 09-Dec-22	24-Dec-22 27-Dec-22	12-Dec-22 21-Dec-22	05-Jan-23 08-Jan-23	12	30-Nov-2	22 L
09-1200	Pile Caps Construction (26nrs 8set @ 1/7d)	23	23		17-Dec-22	08-Jan-23	29-Dec-22	20-Jan-23	12		05-De
Process Building (Mod	dule 1) Bunker	107	46		19-Sep-22 A	14-Jan-23	30-Nov-22	14-Jan-23	0		
09-1200-1	Excavation to Pile Cap Formation	25	14			13-Dec-22	30-Nov-22	13-Dec-22	0		
09-2400 09-2410	Pile Cut-off & Capping Plate Pile Caps and Raft Foundation Construction (50m x 36m 4set @100m2/7d)	19	19 32		02-Dec-22 14-Dec-22	20-Dec-22 14-Jan-23	20-Dec-22 14-Dec-22	07-Jan-23 14-Jan-23	18	02-Dec	
Pile Cap Stage 2 (Modu		52	52		08-Dec-22		29-Jan-23	11-Mar-23	42		
Process Building (Mod		35	35		25-Dec-22	28-Jan-23	05-Feb-23	11-Mar-23	42		
09-1210 09-1220	Excavation to Pile Cap Formation Pile Cut-off & Capping Plate (51 nrs, 4nr/d)	25	25 13		25-Dec-22 09-Jan-23	18-Jan-23 21-Jan-23	05-Feb-23 20-Feb-23	01-Mar-23 04-Mar-23	42		
09-1220	Pile Caps Construction (22nrs 8set @ 1/7d)	20	20		09-Jan-23 09-Jan-23	21-Jan-23 28-Jan-23	20-Feb-23 20-Feb-23	11-Mar-23	42		
Process Building (Mod		41	41	2.0	08-Dec-22	18-Jan-23	29-Jan-23	11-Mar-23	53		
09-2380	Pile Cut-off & Capping Plate (207 nrs, 8nr/d)	27	27		08-Dec-22	04-Jan-23	29-Jan-23	25-Feb-23	53	C	08-De
09-2390	Pile Caps and Raft Foundation Construction (50m x 36m 4set @100m2/7d)	36	36		13-Dec-22	18-Jan-23	03-Feb-23	11-Mar-23	53		
Pile Cap Stage 3 (Modu Process Building (Mod		45 45	45 45		16-Dec-22 16-Dec-22	30-Jan-23 30-Jan-23	01-Jan-23 01-Jan-23	12-Feb-23 12-Feb-23	14		
09-1240	Excavation to Pile Raft Foundation Formation	25	25	0%	16-Dec-22	10-Jan-23	01-Jan-23	26-Jan-23	17		
09-2550	Excavation to Pile Cap Formation	25	25		26-Dec-22	20-Jan-23	08-Jan-23	02-Feb-23	14		
09-2560	Pile Cut-off & Capping Plate (22 nrs, 4nr/d)	6	6		17-Jan-23	23-Jan-23	30-Jan-23	05-Feb-23	14		
09-2570 Process Building - Bo	Pile Caps Construction (5nrs 2set @ 1/7d) iler & Flue Gas Treatment Bid Foundation	18	18 111		12-Jan-23 21-Sep-22 /	30-Jan-23	25-Jan-23 24-Nov-22	12-Feb-23	14 -6		
	Building & Flue Gas Foundation	87	61		<u> </u>	29-Jan-23	24-Nov-22		-6		
Process Building Pile C		87	61		21-Sep-22 A		24-Nov-22	23-Jan-23	-6		
Process Building (Moc 09-1460	dule 3) Pile Cap Stage 3 Excavation to Pile Cap Formation	87 45	61 12		21-Sep-22 A	29-Jan-23 11-Dec-22	24-Nov-22 24-Nov-22	23-Jan-23 05-Dec-22	-6 -6		
09-1470	Pile Cut-off & Capping Plate (376 nrs, 10nr/d)	38	8		-	18-Dec-22	05-Dec-22	12-Dec-22	-6		
09-1480	Pile Caps Construction (52 nrs, 4set @1/7d)	87	44		29-Oct-22 A		11-Dec-22	23-Jan-23	-6		_
_RC Base Slab		50	50			20-Mar-23		14-Mar-23	-6		
ACC Equipment Foun	Base Slab Stage 3 (Module 3)	50 88	50 58	0%	30-Jan-23 24-Oct-22 A	20-Mar-23	24-Jan-23 11-Nov-22	14-Mar-23 07-Jan-23	-6 -19		
ACC Equipment Foun ACC Piling Works (Drive		58	28			27-Dec-22		08-Dec-22	-19		
09-1670-11	Driven H Pile Installations at Zone 2 (30 nrs ~55m(D), @60m/d 2 Groups) (Module 1)	28	14	50%	24-Oct-22 A	13-Dec-22	11-Nov-22	24-Nov-22	-19		
09-1670-12(6F)	Driven H Pile Installations at Zone 4 (31 nrs ~55m(D), @60m/d 2 Groups) (Module 1)	28	28			27-Dec-22	11-Nov-22	08-Dec-22	-19	30-Nov-2	22
ACC Pile Cap Construct 09-1690	Ion Excavation to Pile Cap Formation (Module 1)	<u> </u>	44 14			26-Jan-23 27-Dec-22	25-Nov-22 25-Nov-22	07-Jan-23 08-Dec-22	-19 -19		
09-1700	Pile Cut-off & Capping Plate (Module 1)	18	18		19-Dec-22	05-Jan-23	30-Nov-22	17-Dec-22	-19		•••••
09-1710	Pile Caps Construction (Module 1)	30	30	0%	14-Dec-22	12-Jan-23	25-Nov-22	24-Dec-22	-19		
09-1710-1(6)	Tie Beam s Construction (Module 1 @+6.5mPD)	30	30		28-Dec-22			07-Jan-23	-19		
Turbine Hall Bld Four Turbine Hall Piling Work		210	57		31-May-22	25-Jan-23 05-Dec-22	11-Nov-22	10-Feb-23 16-Nov-22	16 -19		
09-1730-1(M55)	Driven H Pile Installations (143 nrs ~55m(D), @60m/d 2 Groups)	68	2			01-Dec-22	11-Nov-22	12-Nov-22	-19		
09-1740	Pile Load Test	8	4	50%	15-Nov-22 A	05-Dec-22	13-Nov-22	16-Nov-22	-19	5-Nov-22 A	
Turbine Hall Pile Caps C		51	51			25-Jan-23	_	10-Feb-23	16		
09-1750 09-1760	Excavation to Pile Cap Formation Pile Cut-off & Capping Plate (219 nrs, @10nr/d)	21	21 21		06-Dec-22 11-Dec-22	26-Dec-22 31-Dec-22	17-Nov-22 26-Nov-22	07-Dec-22 16-Dec-22	-19 -15	06-	Dec
09-1770	Pile Caps and Ground Beam Construction for TBS1 & Electrical Bld to +6.3mPD	30	30		13-Dec-22	11-Jan-23	24-Nov-22	23-Dec-22	-19		'
09-1770-1(M58)	Install anchor bolts for TBS1 @+6.3mPD (Post-drilling)	14	14		12-Jan-23	25-Jan-23	28-Jan-23	10-Feb-23	16		
Compressor & CCCW	BId Foundation	8	4			03-Dec-22		14-Mar-23	101		
CCCW Piling Works (Driv		8	4			03-Dec-22			101	Nov 22 A 26 Nov 22 A	
09-2330 MT Plant & WT Bld Fo	Pile Load Test	8 127	4 97	50%		03-Dec-22 06-Mar-23	11-Mar-23 16-Nov-22		101 -14	Nov-22 A, 26-Nov-22 A	
MT Plant & WT Bld Piling		127	97			06-Mar-23			-14		
MT & WT Plant (Driven		127	97			06-Mar-23	16-Nov-22	20-Feb-23	-14		
09-1860(6) 09-1870-1(M54)	Predrilling for Driven Pile founding determination (56nr ~60m, @15m/d, 8 Rigs)	28	7 90			06-Dec-22		22-Nov-22	-14	07	7 Do
WMF Substation Build	Driven H Pile Installations (120 nrs ~45m(D), @60m/d 1 Group) ding Foundation	136	90 106	U%		06-Mar-23	23-1N0V-22 11-Dec-22	20-Feb-23 26-Mar-23	-14 11		7-De
IWMF Substation Piling		106	76			13-Feb-23		24-Feb-23	11		
09-1970(6)	Predrilling for Driven Pile founding determination (15nr ~60m, @15m/d, 4 Rigs)	15	8	46.67%	17-Oct-22 A	07-Dec-22		18-Dec-22	11		
09-1980	Driven H Pile Installations (120 nrs ~60m(D), @60m/d 2 Groups)	60	60	0%	08-Dec-22	05-Feb-23	19-Dec-22	16-Feb-23	11	C	08-D
Month Rolli e 15 of 17	ng Programme (November 2022)					Actua	aining Work al Work al Remainir	•	◆ Actual N◆ Critical I		

Facilities, Pl			2023	
Dec		Jan	2020	Feb
61		62		63
08-Dec-22, Pile Load	Test			
07 D 00 Dila L				
07-Dec-22, Pile Load 1	est			
24-D	ec-22, Excavati	on to Pile	Cap Forma	tion
	·			e (76 nrs, 4nr/d)
)ec-22	08-J	an-23, Pil	e Caps Cons	struction (26nrs 8set (
Excavation to Pi	e Can Formati	on 13-De	22 13-Der	-22 Excavation to Pi
	2, Pile Cut-off &			
-22	· · · · · · · · · · · · · · · · · · ·		23, Pile Cap	s and Raft Foundation
25-Dec-22				vation to Pile Cap For
	lan-23 💻	2		ile Cut-off & Capping
09	lan-23 💻		28-Jai	n-23, Pile Caps Const
	04-Jan-2	3 Pile Cu	t-off & Cappi	ing Plate (207 nrs, 8n
22	0. Jun 20			Caps and Raft Founda
	}			
ec-22	10-			Pile Raft Foundation
26-Dec-22		20		cavation to Pile Cap F
	17-Jan-23			Pile Cut-off & Capping
	2-Jan-23 💻		30-J	an-23, Pile Caps Con
	ļ			
				2, Excavation to Pile
Pile Cut-off	& Capping Pla	ite (376 nr		8-Dec-22, 18-Dec-22,
			Pile	Caps Construction (52
	·	30-Jan	-23	
				, @60m/d 2 Groups)
27	-Dec-22, Drive	n H Pile I	nstallations	at Zone 4 (31 nrs ~55
-22 27	Dec-22 Even	vation to F	ile Can For	mation (Module 1)
-Dec-22				ping Plate (Module 1)
-22				Construction (Module
28-Dec-22	· · · · · · · · · · · · · · · · · · ·			23, Tie Beam s Constr
	· · · · · · · · · · · · · · · · · · ·			
n H Pile Installations (1	·			01-Dec-22, 01-Dec-2
Pile Load Test, 05-Dec-2	z, 05-Dec-22, F	lie Load	lest	
26-	Dec-22, Excav	ation to Pi	le Can Form	nation
20				Plate (219 nrs, @10n
22	• • • • • • • • • • • • • • • • • • •			nd Ground Beam Cons
	2-Jan-23 🗖	,		3, Install anchor bolts
Dec-22, Pile Load Test,	PileLoadTest,	03-Dec-2	2	
Predrilling for Driven Pi	le founding det	ermination	n (56nr ~60n	n, @15m/d, 8 Rigs). 0
<u> </u>				, g-/,
07-Dec-22, Predrilling	tor Driven Pile	tounding	peterminatio	
	:			05-Feb-23, Driven I

	Activity Name	Original Duration	Remaining Duration	Activity % Current Start Complete	Current Finish	Late Start	Late Finish	Total Float M60 Remarks	Nov
09-1990	Pile Load Test	8	8	0% 06-Feb-23	13-Feb-23	17-Feb-23	24-Feb-23	11	60
IWMF Substation Pile		30			15-Mar-23		26-Mar-23	11	
09-2000	Excavation to Pile Cap Formation nd Associated Structures Foundation	30			15-Mar-23	25-Feb-23 26-Apr-23	26-Mar-23 12-May-23	11 48	
	ing Works (Driven H-pile)	23			25-Mar-23	26-Apr-23		48	
09-2020(M57)	Predrilling for Driven Pile founding determination (30nr ~60m, @15m/d, 4 Rigs)	23				26-Apr-23	12-May-23	48	
Pipe Bridge Foundat	ion	105 105			19-Jan-23		12-Mar-23 12-Mar-23	52 52	
Pipe Bridge B Pipe Bridge B Piling V	Vorks Piling Works (Driven H-pile)	63			A 08-Dec-22		29-Jan-23	52	
09-2450	Driven H Pile Installations (33 nrs ~55m (D), @60m/d 1 Group)	31		96.77% 15-Sep-22 A		21-Jan-23	21-Jan-23	52	
09-2460 Pipe Bridge B Pile Car	Pile Load Test	8	8 42	0% 01-Dec-22	08-Dec-22 19-Jan-23	22-Jan-23 30-Jan-23	29-Jan-23	52 52	01-Dec-22
99-2470	Excavation to Pile Cap Formation	21			29-Dec-22	30-Jan-23	19-Feb-23	52	09-
09-2480	Pile Cut-off & Capping Plate (33 nrs, @ 4nr/d)	21	21	0% 16-Dec-22	05-Jan-23	06-Feb-23	26-Feb-23	52	
09-2490	Pile Caps Construction to +5.0mPD (33nr, 4set @ 1nr/7d)	30		0% 21-Dec-22		11-Feb-23	12-Mar-23	52	
Pipe Bridge C Pipe Bridge C Piling V	Vorks Piling Works (Driven H-pile)	<u>63</u>			08-Dec-22		23-Dec-22 23-Dec-22	15 15	
09-2500	Driven H Pile Installations (20 nrs ~55m (D), @60m/d 1 Group)	19					15-Dec-22	15	
09-2510	Pile Load Test	8		0% 01-Dec-22			23-Dec-22	15	01-Dec-22
leavy Load Access		37			05-Jan-23 05-Jan-23	24-Nov-22	12-Jan-23 12-Jan-23	7	
09-3000(6D)	500mm Sub Base & Road Base	37			29-Dec-22	24-Nov-22 24-Nov-22		-6	30-Nov-22
09-3010(6D)	Compaction, Leveling & Testing	30	30	0% 07-Dec-22		14-Dec-22	12-Jan-23	7	07-De
uperstructural Wo		162		· · · · ·	A 22-Mar-23		25-Apr-23	34	
	Waste Bunker & Tipping Hall Bld Structure	56			18-Mar-23	22-Jan-23	18-Mar-23 18-Mar-23	0	
Waste & Ash Bunker Bl Process Building (Mo	d Structure dule 1) Waste & Ash Bunker Bld Structure	<u> </u>			18-Mar-23 18-Mar-23	22-Jan-23 22-Jan-23	18-Mar-23	0	
10-1090	Beam & Slab to +2.5mPD	14	14		04-Feb-23	22-Jan-23	04-Feb-23	0	
10-1100	Column & Wall to +6.0m PD	21	21	0% 05-Feb-23	25-Feb-23	05-Feb-23	25-Feb-23	0	
10-1110 Tipping Hall Bld Struct	Beam & Slab to +6.0mPD	21	21 21	0% 26-Feb-23	18-Mar-23 20-Feb-23	26-Feb-23 13-Feb-23	18-Mar-23 05-Mar-23	0 14	
	dule 3) WWTP Structure	21			20-Feb-23	13-Feb-23	05-Mar-23	14	
10-3000(6F)	Slab to +2.0mPD	14			13-Feb-23		26-Feb-23	14	
10-3010(6F)	Slab to +3.5mPD Boiler & Flue Gas Treatment Bid Structure	21	21 104	0% 30-Jan-23	20-Feb-23	13-Feb-23	05-Mar-23 25-Apr-23	14 43	
Steel Structure		153			13-Mar-23		25-Apr-23	43	
Boiler Building Steel S		140			28-Feb-23		25-Apr-23	56	
Process Building (Mo 10-1620	bdule 1) Steel Structure Erection Steel Roof Truss Ground Assembly Works	133 60	84 17		A 21-Feb-23 A 16-Dec-22		25-Apr-23 10-Dec-22	-6	
10-1630	Steel Roof Truss Lifting (BM1)	15				04-Dec-22		-5	09-
10-1640	Roof Cladding Installation	60	60	0% 24-Dec-22	21-Feb-23	25-Feb-23	25-Apr-23	63	
Process Building (Mo 10-1650	bdule 2) Steel Structure Erection	89 60			28-Feb-23	11-Dec-22		-6 9	02 Doo 21
10-1660	Erection of Mega Columns (2nos @30d /column /gang x 2) Steel Roof Truss Ground Assembly Works	60		0% 02-Dec-22 0% 17-Dec-22	30-Jan-23 14-Feb-23	11-Dec-22 11-Dec-22		-6	02-Dec-22
10-1670	Steel Roof Truss Lifting (BM2)	14			28-Feb-23		22-Feb-23	-6	
Flue Gas Treatment Bl		64			13-Mar-23		05-Feb-23	-36	
Process Building (Mo 10-1730	bdule 1) Steel Structure Erection Erection of Mega Columns (2nos @30d /column /gang x 2)	64 30	64 30	09-Jan-23 0% 09-Jan-23	13-Mar-23 07-Feb-23		05-Feb-23 22-Jan-23	-36 -16	
10-1740	Steel Roof Truss Ground Assembly Works	30	30	0% 09-Jan-23	07-Feb-23	24-Dec-22		-16	
10-1750	Steel Roof Truss Lifting (FM1)	14	14	0% 28-Feb-23	13-Mar-23	23-Jan-23	05-Feb-23	-36	
ACC Equipment Stru		30			25-Feb-23	08-Jan-23	06-Feb-23	-19	
09-1720 Turbine Hall Bld Stru	Base Slab Construction (Module 1 @+6.5mPD)	30 70		0% 27-Jan-23 12-Jan-23	25-Feb-23 22-Mar-23	08-Jan-23	06-Feb-23 06-Mar-23	-19 -16	
Turbine Hall Electrical I		70			22-Mar-23		06-Mar-23	-16	
10-1910	Slab to +6.0mPD	14			25-Jan-23	27-Dec-22		-16	
10-1920	Column & Wall to +15.0mPD	14			08-Feb-23	10-Jan-23	23-Jan-23	-16	
10-1930	Beam & Slab to +15.0mPD Column & Wall to +19.5mPD	14		0% 09-Feb-23 0% 23-Feb-23	22-Feb-23 08-Mar-23	24-Jan-23 07-Feb-23	06-Feb-23 20-Feb-23	-16	
10-1950	Beam & Slab to +19.5mPD	14			22-Mar-23	21-Feb-23	06-Mar-23	-16	
Turbine Hall TBS1		35			15-Feb-23	06-Jan-23		-6	
10-2300	Slab to +6.0mPD Column & Wall to +15.0mPD & +23.5mPD	14			25-Jan-23 01-Feb-23	06-Jan-23 13-Jan-23	19-Jan-23 26-Jan-23	-6	_
10-2310	Beam & Slab to +28.0mPD	14			15-Feb-23	27-Jan-23	09-Feb-23	-6	
STG Foundation (PC1		31			11-Feb-23	07-Jan-23	06-Feb-23	-5	—
10-1990-1(M58)	STG Foundation construction and install anchor bolts @ +9.5	21		0% 12-Jan-23	01-Feb-23	07-Jan-23	27-Jan-23	-5	
10-1990-2(M58)	STG Foundation construction and install anchor bolts @ +10.77	10	10 154	0% 02-Feb-23 30-Jan-23	11-Feb-23 02-Jul-23	28-Jan-23	06-Feb-23 21-Jun-23	-5 -11	
Process Equipmen	IT INSTALLATION Waste Bunker & Tipping Hall Bld Process Equipment Installation	0			30-Jan-23		12-Feb-23	14	
Flocess Buildings -		v	v						
Ionth Roll	ing Programme (November 2022)				Rema	aining Work	c 🔶	Actual Milesto	ne
e 16 of 17	5 - 5				Actua	al Work	•	 Critical Milesto 	one
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	hase 1 Environmental Protection Department
Dec	2023 Jan Feb
61	62 63
	06-Feb-23 13-Feb-23,
	14-Feb-23
	·
-22, Driven H Pile Inst	
08-Dec-22, Pile Load	lest
	00 Dec 00 Everytien to Bile Can Formation
	29-Dec-22, Excavation to Pile Cap Formation
-22	05-Jan-23, Pile Cut-off & Capping Plate (33 nrs, @
1-Dec-22	19-Jan-23, Pile Caps Construction to
22 Driven H Bile Is+	dilations (20 pro ~55m/D) @60m/d 1 Orace) Driver U.D.
	allations (20 nrs ~55m(D), @60m/d 1 Group), Driven H Pile
08-Dec-22, Pile Load	,iesi
	20 Doc 22 500mm Sub Poor & Poort Poor
	29-Dec-22, 500mm Sub Base & Road Base 05-Jan-23, Compaction, Leveling & Testing
	US-Jan-25, Compaction, Leveling & lesting
	22-Jan-23 04-Feb-23, Beam &
	05-Feb-23
	26-Feb-23
	30-Jan-23 13-Feb-23,
	30-Jan-23 20-F
	· · · · · · · · · · · · · · · · · · ·
Steel Roof Tr	us Ground Assembly Works, 16-Dec-22, 16-Dec-22, Stee
	······································
<u></u>	ec-22, Steel Roof Truss Lifting (BM1)
24-Dec-22	22, Steel Roof Trus s Lifting (BM1)
24-Dec-22	22-22, Steel Roof Trus s Lifting (BM1)
24-Dec-22	21-
	21 30-Jan-23, Erection of Me
	21- 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23
24-Dec-22	21 30-Jan-23, Erection of Me 14-Feb-23
	21- 30-Jan-23, Erection of Me 14-Feb-23
20-22	21- 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 4an-23 07-Feb-23, Erecti
.c-22 09-	21- 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 Jan-23 07-Feb-23, Erection
.c-22 09-	21- 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 Jan-23 07-Feb-23, Erection
.c-22	21- 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 Jan-23 07-Feb-23, Erecti Jan-23 07-Feb-23, Steel
.c-22 09-	21- 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 Jan-23 07-Feb-23, Erecti Jan-23 07-Feb-23, Steel 28-Feb-23
.c-22 09-	21- 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 Jan-23 07-Feb-23, Erecti Jan-23 07-Feb-23, Steel
.c-22 09-	21- 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 Jan-23 07-Feb-23, Erecti Jan-23 07-Feb-23, Steel 28-Feb-23
09- 09-	21 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 07-Feb-23, Erection Jan-23 07-Feb-23, Erection Jan-23 07-Feb-23, Steel 28-Feb-23 27-Jan-23
09- 09-	21 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 07-Feb-23, Erecti Jan-23 07-Feb-23, Steel 28-Feb-23 27-Jan-23 27-Jan-23 25-Jan-23, Slab to +6.0mPD
09- 09-	21 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 07-Feb-23, Erecti Jan-23 07-Feb-23, Erecti 28-Feb-23 27-Jan-23 27-Jan-23 25-Jan-23, Slab to +6.0mPD 26-Jan-23 08-Feb-23, Colu
09- 09-	21 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 07-Feb-23, Erecti Jan-23 07-Feb-23, Erecti 28-Feb-23 27-Jan-23 27-Jan-23 25-Jan-23, Slab to +6.0mPD 26-Jan-23 08-Feb-23, Colu 09-Feb-23 22
09- 09-	21 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 07-Feb-23, Erecti Jan-23 07-Feb-23, Erecti 28-Feb-23 27-Jan-23 27-Jan-23 25-Jan-23, Slab to +6.0mPD 26-Jan-23 08-Feb-23 22-Feb-23 23-Feb-23 23-Feb-23
09- 09-	21 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 Jan-23 07-Feb-23, Erecti 28-Feb-23 27-Jan-23 27-Jan-23 25-Jan-23, Slab to +6.0mPD 26-Jan-23 08-Feb-23 22 23-Feb-23 23-Feb-23 23-Feb-23
09- 09- 09-	21 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 Jan-23 07-Feb-23, Erecti Jan-23 07-Feb-23, Steel 28-Feb-23 27-Jan-23 25-Jan-23 08-Feb-23, Colu 09-Feb-23 23-Feb-23 09-Feb-23
09- 09- 09-	21 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 15-Feb-23, Erecti Jan-23 07-Feb-23, Erecti 28-Feb-23 27-Jan-23 25-Jan-23, Slab to +6.0mPD 26-Jan-23 08-Feb-23 23-Feb-23 09-Fe
09- 09- 09-	21- 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 Jan-23 07-Feb-23, Erecti Jan-23 07-Feb-23, Erecti 28-Feb-23 27-Jan-23 27-Jan-23 25-Jan-23, Slab to +6.0mPD 26-Jan-23 08-Feb-23 09-Feb-23 22-Feb-23 09-Feb-
09- 09- 09-	21- 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 15-Feb-23, Erecti Jan-23 07-Feb-23, Erecti 28-Feb-23 27-Jan-23 25-Jan-23, Slab to +6.0mPD 26-Jan-23 08-Feb-23 23-Feb-23 09-Feb-23 23-Feb-23 09 19-Jan-23 01-Feb-23, Column & V
09-09-	21 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 07-Feb-23, Erecti Jan-23 07-Feb-23, Erecti Jan-23 07-Feb-23, Steel 28-Feb-23 27-Jan-23 25-Jan-23, Slab to +6.0mPD 26-Jan-23 08-Feb-23 23-Feb-23 09 12-Jan-23 09 19-Jan-23 01-Feb-23, Colum & V 02-Feb-23 15-Feb-23 15-Feb-23 05 15-Feb-23
09-09-	21 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 07-Feb-23, Erecti Jan-23 07-Feb-23, Erecti Jan-23 07-Feb-23, Steel 28-Feb-23 27-Jan-23 25-Jan-23, Slab to +6.0mPD 26-Jan-23 08-Feb-23 22 23-Feb-23 08- 12-Jan-23 08-Feb-23 08- 12-Jan-23 08-Feb-23 08- 12-Jan-23 08-Feb-23 08- 12-Jan-23 08-Feb-23 08- 12-Jan-23 08-Feb-23 08- 12-Jan-23 08-Feb-23 08- 12-Jan-23 08-Feb-23 08- 12-Jan-23 08-Feb-23 08- 12-Jan-23 08- 12-Jan-23 08- 12-Jan-23 08- 12-Jan-23 08- 12-Jan-23 09-Feb-23 08- 12-Jan-23 09- 12-Jan-23 09- 12-Jan-23 01-Feb-23, STG Founda
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Keppel Segh	ners 等期增合 3									Integrated	d Waste Manad	Contract No. EP/SP lement Facilities, Pf	/66/12 nase 1	境保護署 ironmental Protection Department
Activity ID	Activity Name	Original	Remaining	Activity % C	Current Start	Current Finish	Late Start	Late Finish	Total Flo	at M60 Remarks		2022	20	.023
		Duration	Duration	Complete							Nov 60	Dec 61	Jan 62	Feb 63
Piping and Instrume	ent Installation and Connection Works	0	0	3	30-Jan-23	30-Jan-23	12-Feb-23	12-Feb-23	1	4				
Process Building (WWTP)	0	0	3	30-Jan-23	30-Jan-23	12-Feb-23	12-Feb-23	1	4				
🔲 12-3120(6F)	Delivery of Embeded Piping above +2 to +10mPd	0	0	0%		30-Jan-23		12-Feb-23	1-	4				Delivery of Embeded Piping
Process Buildings	s - Boiler House & Flue Gas Treatment Bld Process Equipment Installation	132	132	2	21-Feb-23	02-Jul-23	24-Dec-22	21-Jun-23	-1	1				
Process Building (Ir	nstallation TPU Module)	132	132	2	21-Feb-23	02-Jul-23	24-Dec-22	21-Jun-23	-1	1				
TPU Train 1		126	126	2	21-Feb-23	26-Jun-23	24-Dec-22	21-Jun-23	-	5			1	
= 13-1030	Delivery, inspection and Transport Boiler Train to Position by SPMT (TPU Train 1)	6	6	0% 2	21-Feb-23	26-Feb-23	24-Dec-22	29-Dec-22	-5	Э				21-Feb-23 💻
= 13-1050	Remaining Equipment Installation at GL	120	120	0% 2	27-Feb-23	26-Jun-23	22-Feb-23	21-Jun-23	-	5				27-Feb-23 📕
TPU Train 2		126	126	2	27-Feb-23	02-Jul-23	30-Dec-22	21-Jun-23	-1	1			r	
13-1120	Delivery, inspection and Transport Boiler Train to Position by SPMT (TPU Train 2)	6	6	0% 2	27-Feb-23	04-Mar-23	30-Dec-22	04-Jan-23	-5	Э			1	27-Feb-23
13-1140	Remaining Equipment Installation at GL	120	120	0% 0)5-Mar-23	02-Jul-23	22-Feb-23	21-Jun-23	-1	1			1	05-Mar-
Process Building (Ir	nstallation of Flue Gas Module)	13	13	0	06-Apr-23	18-Apr-23	06-Feb-23	18-Feb-23	-5	9				
FGC Train 1		6	6	0	06-Apr-23	11-Apr-23	06-Feb-23	11-Feb-23	-5	Ð			, ,	
13-1570	Delivery, inspection and Transport Flue Gas Train to Position by SPMT (FGC Train 1)	6	6	0% 0	06-Apr-23	11-Apr-23	06-Feb-23	11-Feb-23	-5	Э				
FGC Train 2		6	6	1	13-Apr-23	18-Apr-23	13-Feb-23	18-Feb-23	-5	Ð			((
13-1640	Delivery, inspection and Transport Flue Gas Train to Position by SPMT (FGC Train 2)	6	6	0% 1	13-Apr-23	18-Apr-23	13-Feb-23	18-Feb-23	-5	Э			1	
ACC Equipment In	nstallation	114	114	0)5-Mar-23	26-Jun-23	14-Feb-23	07-Jun-23	-1	9				
ACC Unit 1 Installati	ion	114	114	0	05-Mar-23	26-Jun-23	14-Feb-23	07-Jun-23	-1	9				
13-2000	Site preparation & Installation of ACC Equipment (unit 1)	114	114	0% 0	05-Mar-23*	26-Jun-23	14-Feb-23	07-Jun-23	-1	Э			1	05-Mar-2
Turbine Hall Bld E	Equipment Installation	61	61	1	19-Feb-23	20-Apr-23	13-Feb-23	14-Apr-23	-	6				
Turbine Hall Module	1 Installation	61	61	1	9-Feb-23	20-Apr-23	13-Feb-23	14-Apr-23	-	6				
13-2120	STG and TBS Module 1 Installation	60	60	0% 2	20-Feb-23*	20-Apr-23	14-Feb-23	14-Apr-23	-	6				20-Feb-23*
13-2160(6)	Install Maintenance Girder & Crane at Module 1 @+22.247mPd	30	30	0% 1	19-Feb-23	20-Mar-23	13-Feb-23	14-Mar-23	-	6				19-Feb-23
Landscape, Exte	rnal Road and Drains Works	285	163	2	28-Apr-22 A	11-May-23	27-Feb-23	28-Sep-23	14)				
Drainage Works		60	60	1	I3-Mar-23	11-May-23	27-Feb-23	27-Apr-23	-1-	1			,	
Box Culvert		0	60		3-Mar-23	11-May-23		27-Apr-23						
East Culvert (3.5m	x 2 5m x 118m)	60	60					27-Apr-23	-	·			·	
= 14-2000	Excavation to Formation	60	60			11-May-23	27-Feb-23	_						
Earthing System		180	140			18-Apr-23	12-May-23							
16-1900-2(6)	Installation of Ground Earthing Mesh	180	140			18-Apr-23		28-Sep-23						
(0)	instantion of Ground Earthing Mesh	180	140	22.22%	20-Apr-22 A	18-Apr-23	12-1viay-23	28-Sep-23	16	2			(

3-Month Rolling Programme (November 2022) Page 17 of 17		Remaining WorkActual Work	♦♦	Actual MilestoneCritical Milestone
		Critical Remaining Wor	k	
	♦	♦ Milestone		

Appendix B Summary of Implementation Status of Environmental Mitigation

Appendix B

Table B.1	Implementation Schedule for Air Quality Measures for the IWMF at the artificial island near SKC
	implementation concare for an each of the internet at the attinetar learner of the

				Imple	ementat	tion S	tages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
S3b.8.1	 <u>Air Pollution Control (Construction Dust)</u> <u>Regulation & Good Site Practices</u> Use of regular watering, with complete coverage, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather. Use of frequent watering for particularly dusty construction areas and areas close to ASRs. Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines. Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs. Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. Establishment and use of vehicle wheel and body washing facilities at the exit points of the site. Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading 	Work site / During the construction period	Contractor		✓			Control (Construction	Deficiency of Mitigation Measures but rectified by the Contractor. N/A for dust control measures for transportation outside site boundary.

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				Implementation Stages*		Relevant	Implementation		
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	 points, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods. Imposition of speed controls for vehicles on unpaved site roads. Ten kilometers per hour is the recommended limit. Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs Instigation of an environmental monitoring and auditing program to monitor the construction process in order to enforce controls and modify method of work if dusty conditions arise. 								
S3b.6.3	 Odour Removal by Deodorizers Deodorizers with 95% odour removal efficiency would be installed for the air ventilated from the mechanical treatment plant before discharge to the atmosphere 	Waste reception halls, the waste storage area, the mechanical treatment plant / During design & operation phase	IWMF Operator	~		✓		EIAO-TM	N/A
S3b.8.2	Air Pollution Control and Stack Monitoring	IWMF stack emissions / During	IWMF Operator	✓		~		EIAO-TM, Supporting Document for	N/A

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	Environmental Drotaction	Location /	Implementation	Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	
	 Air pollution control and stack monitoring system will be installed for the IWMF to ensure that the emissions from the IWMF stack will meet the proposed target emission limits. Voluntary Enhancement Measures in Flue Gas Cleaning and Emission Monitoring: Two-stage bag filter system with reagent recirculation; In addition to SCR, provide SNCR for removal of NOx; tighten emission limit for half-hourly and daily NOx to 160 mg/m³ and 80 mg/m₃ respectively; Well-mixed feed waste: to minimize the fluctuation of pollutant loading on the flue gas treatment system; Two more AQMSs would be set up at South Lantau and Shek Kwu Chau respectively; Limit levels will be set under the IWMF DBO contract to require that waste feed shall cease if any of the air pollutant has exceeded 95% of the emission 	design & operation phase	Agent						Remarks
	concentration limit as stipulated in the Special Process license;								

				Imple	Implementation Stages* Relevant		Implementation		
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	Status and Remarks
	 Each incineration chamber shall be fitted with auxiliary burners to ensure complete burn out of the combustion gases. 								
-	 Treated Fly Ash and Air Pollution Control Residues: During testing and commissioning, the Contractor shall sample and test every container of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit. If a test result confirms that any one of the samples does not conform to the limits and the criteria, the Contractor shall be required to sample and test every container of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and test every container of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria for the next six months. During the first six months of operation, if the requirements in (a) could be fully conformed with, the Contractor shall sample and test every shipload of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria for the next six months. 	IWMF stack emissions / During design & operation phase	IWMF Operator					Supporting Document for Application for Variation of Environmental Permit (EP- 429/2012)	N/A

				Imple	ementa	ation S	Stages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	of the Environmental Permit. The								
	Contractor shall take two samples								
	from each shipload for testing and								
	the Contractor shall not dispose of								
	any of that shipload of treated fly ash								
	and air pollution control residues until								
	the test results confirm that the two								
	samples conform to the limits and the								
	criteria. If a test result confirms that								
	any one of the two samples does not								
	conform to the limits and the criteria,								
	the Contractor shall be required to								
	sample and test every shipload of								
	treated fly ash and air pollution								
	control residues for conformance to								
	the Incineration Residue Pollution								
	Control Limits and leachability								
	criteria for the next six months. The								
	Contractor shall make due allowance								
	in the Design and the Operation for								
	the time to sample and test treated fly								
	ash and air pollution control residues								
	before disposal.								
	 Provided that there is no non- 								
	conformance to the Incineration								
	Residue Pollution Control Limits and								
	leachability criteria shown in Table 2								
	of the Environmental Permit								
	throughout a continuous sixmonth								
	period in the Operation Period, the								
	testing frequency shall be reduced to								
	monthly interval. Two samples from								
	one shipload of treated fly ash and air								

				Imple	ement	ation S	Stages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	pollution control residues shall be collected and tested for conformance to the Incineration Residue Pollution Control Limits and leachability criteria. The Contractor shall not dispose of any of the treated fly ash and air pollution control residues in the shipload which the samples are taken until the test results confirm that the samples conform to the limits and the criteria. If the test result confirm that any one of the samples does not conform to the limits and the criteria, the Contractor shall be required to sample and test every shipload of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit for the next six months.								
· <u>E</u>	 During testing and commissioning, the Contractor shall sample and test every container of bottom ash for conformance to the leachability criteria shown in Table 2 of the Environmental Permit. If a test result confirms that any one of the samples does not conform to the criteria, the Contractor shall be required to sample and test every 	IWMF stack emissions / During design & operation phase	IWMF Operator	~		✓		Supporting Document for Application for Variation of Environmental Permit (EP- 429/2012)	N/A

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				Imple	ementa	ation S	tages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	container of bottom ash for								
	conformance to the leachability								
	criteria for the next six months.								
	• During the first six months of								
	operation, if the requirements in (d)								
	could be fully conformed with, the								
	Contractor shall sample and test								
	one shipload of bottom ash each								
	month for conformance to the leachability criteria shown in Table 2								
	of the Environmental Permit. The								
	Contractor shall take two samples								
	from the shipload for testing and the								
	Contractor shall not dispose of any								
	of that shipload of bottom ash until								
	the test results confirm that the two								
	samples conform to the criteria. If a								
	test result confirms that any one of								
	the two samples does not conform								
	to the criteria, the Contractor shall								
	be required to sample and test each								
	shipload of bottom ash for								
	conformance to the leachability								
	criteria for the next six months. The								
	Contractor shall make due								
	allowance in the Design and the								
	Operation for the time to sample and								
	test bottom ash before disposal.								
	 Provided that there is no non- conformance to the leasthability 								
	conformance to the leachability								
	criteria shown in Table 2 of the Environmental Permit throughout a								
	continuous six month period in the								

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Imple	ementa	ation S	stages*	Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	С	0	Dec		
	Operation Period, the Contractor shall be allowed to take two samples from any one shipload of bottom ash once every six months for conformance to the leachability criteria. The Contractor shall not dispose of any of the bottom ash in the shipload which the samples are taken until the test results confirm that the samples conform to the criteria. If the test result confirm that any one of the samples does not conform to the criteria, the Contractor shall be required to sample and test one shipload of bottom ash each month for conformance to the leachability criteria shown in Table 2 of the Environmental Permit for the next six months as stipulated above.								

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

Table B.2 Implementation Schedule for Noise Impact Measures for the IWMF at the artificial island near SKC

	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent		Implementation Stages*				Relevant	
EIA Ref					Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
S4b.8	Good site practices to limit noise emissions a source and use of quiet plant and working methods, whenever practicable.		EPD and contractors	its		~			EIAO-TM	Implemented
S4b.6 & S4b.8	 All the ventilation fans installed in the below will be provided with silencers or acoustics treatment. (i) Stack of the incinerator (ii) Ventilation systems within the IWMF Enclosure and discharge silencer or other acoustic treatment equipment should be installed in the air-cooled chillers Other than provision of silencer or other acoustic treatment equipment for the stack of the incinerator and ventilation system, the detailed design should incorporate the following good practice in order to minimize the nuisance on the neighboring NSRs. (i) The exhaust of the ventilation system and any opening of the building should be located facing away from any NSRs; and (ii) Louver or other acoustic treatment equipment to the any opening of the applied to the 	Within IWMF area / Construction Period	EPD and contractors	its					EIAO-TM	N/A

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	Environmental Protection			Implementation Stages*				Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
-	 <u>Voluntary Enhancement Measure</u> Provision of air-conditioner and double glazed windows to nearby NSR at Shek Kwu Chau (i.e. SARDA) as precautionary measures. 	IWMF site	Design team, contractor, IWMF operator	•	~			Supporting Document for Application for Variation of Environmental Permit (EP- 429/2012)	Implemented

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

Table B.3 Implementation Schedule for Water Quality Measures for the Artificial Island near SKC

	Environmental Brotestian			Impl	ementa	ation Stages*	Relevant	and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	O Dec	Legislation and Guidelines	
S5b.8.1.1			Contractor				Guidelines EIAO-TM; ProPECC PN 1/94; WPCO	Deficiency of Mitigation Measures but rectified by the Contractor

	Environmentel Protection			Imple	ement	ation S	stages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/sand traps should be 5 minutes under maximum flow conditions. The detailed design of the sand/silt traps shall be undertaken by the contractor prior to the commencement of construction.								
	 Water pumped out from foundation piles must be discharged into silt removal facilities. 								
	 Measures should be taken to minimize the ingress of site runoff and drainage into excavations. Drainage water pumped out from excavations should be discharged into storm drains via silt removal facilities. 								
	 During rainstorms, exposed slope/soil surfaces should be covered by a tarpaulin or other means, as far as practicable. Other measures that need to be implemented before, during and after rainstorms are summarized in ProPECC PN 1/94. 								
	 Exposed soil areas should be minimized to reduce potential for increased siltation and contamination of runoff. 								

				Impl	ementa	ation S	tages*	Relevant	and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	
	• Earthwork final surfaces should be well compacted and subsequent permanent work or surface protection should be immediately performed.								
	Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms.								
S5b.8.1.2	General Construction Activities Construction solid waste should be collected, handled and disposed of properly to avoid entering to the nearby watercourses and public drainage system. Rubbish and litter from construction sites should also be collected to prevent spreading of rubbish and litter from the site area.	Work site / During the construction period	Contractor		~			EIAO-TM; ProPECC PN 1/94; WPCO	Implemented
	It is recommended to clean the construction sites on a regular basis.								

				Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
S5b.8.1.3	There is a need to apply to EPD for a discharge license for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge license. All the run-off and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. The beneficial uses of the treated effluent for other on-site activities such as dust suppression and general cleaning etc., can minimize water consumption and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the relevant WPCO license which is under the ambit of regional office of EPD.	During the construction	Contractor		V			EIAO-TM; ProPECC PN 1/94; WPCO	Discharge License was issued on 15/02/2022
S5b.8.1.4	Accidental Spillage Contractor must register as a chemical waste producer if chemical wastes would be produced from construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	Work site / During the construction period	Contractor		~			EIAO-TM; ProPECC PN 1/94; WPCO; WDO	Deficiency of Mitigation Measures but rectified by the Contractor
S5b.8.1.5		During the construction	Contractor		~			EIAO-TM; ProPECC PN 1/94; WPCO; WDO	Implemented

				Impl	ementa	ation St	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	appropriately equipped to control these discharges.								
S5b.8.1.6	Oils and fuels should only be used and stored in designated areas which have pollution prevention facilities. All fuel tanks and storage areas should be sited on sealed areas in order to prevent spillage of fuels and solvents to the nearby watercourses. All waste oils and fuels should be collected in designated tanks prior to disposal.		Contractor		~				Deficiency of Mitigation Measures but rectified by the Contractor
S5b.8.1.7	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows:	construction	Contractor						Deficiency of Mitigation Measures but rectified by the Contractor
	 Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport. Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents. Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area. 								

				Implementation Stages*			tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	and Remarks
S5b.8.1.8	Sewage Effluent Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor would be responsible. For appropriate disposal and maintenance of these facilities.	Work site / During the construction period	Contractor		✓			EIAO-TM; ProPECC PN 1/94; WPCO	Implemented
S5b.8.1.9			Contractor					EIAO-TM; WPCO, Supporting Document for Application for Variation of Environmental Permit (EP- 429/2012) Further Environmental Permit No. FEP- 01/429/2012/A	N/A

			Imple	emen	tation S	tages*	Relevant		
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	of the North Western seawall, away from the identified coral communities and will be shielded by silt curtains systems to control sediment plume dispersion.								
	• The silt curtain system at marine access opening should be closed as soon as the barges passes through the marine access opening in order to minimize the period of curtain opening. Filling should only be carried out behind the silt curtain when the silt curtain is completely closed.								
	• To enhance the effectiveness of the silt curtain at the marine access, the northern breakwater would be built before the commencement of the reclamation to reduce the current velocity towards the marine access opening.								
	• The silt curtain system at marine access opening should be regularly checked and maintained to ensure proper functioning.								
	• Where public fill is proposed for filling below +2.5mPD, the fine content in the public fill will be controlled to 25% which is in line with the CEDD's General Specification;								
	• The filling for reclamation should be carried out behind the seawall. The filling material should only consist of public fill, rock and sand. The filling composition and filling rates at each filling area should follow those delineated in Table 1 of the FEP-01/429/2012/. The filling above high watermark is not restricted;								

				Imple	ementa	ation S	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	Ο	Dec	Legislation and Guidelines	Implementation Status and Remarks
	 No dredging should be carried out within 16m to the nearest non-translocatable coral community; 								
	• Daily site audit including full-time on-site monitoring by the ET is recommended during the dredging for anti-scouring protection layer for checking the compliance with the permitted no. of grab;								
	 Closed grab dredger should be used to minimize the loss of sediment during the raising of the loaded grabs through the water column; 								
	 Frame-type silt curtains should be deployed around the dredging operations; 								
	 Floating-type silt curtains should be used to surround the circular cell during the sheetpiling work; 								
	 The descent speed of grabs should be controlled to minimize the seabed impact speed; 								
	 Barges should be loaded carefully to avoid splashing of material; 								
	 All barges used for the transport of dredged materials should be fitted with tight bottom seals in order to prevent leakage of material during loading and transport; 								
	 All barges should be filled to a level which ensures that material does not spill over during loading and transport to the disposal site and that adequate freeboard is 								

				Imple	ementa	tion S	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	maintained to ensure that the decks are not washed by wave action.								
	• No DCM works should be carried out within 100m to the nearest non-translocatable coral colony / colonies.								
	• Silt curtains should be employed to enclose DCM field trial and any full scale DCM work to minimize the potential impacts on water aspect.								
	• A sand blanket is to be placed on top of the marine deposit using tremie pipes prior to the DCM ground treatment to avoid seabed sediment disturbance.								
S5b.8.2.3	<u>Operational Phase Discharges</u> A pipeline drainage system will serve the development area collecting surface runoff from paved areas, roof, etc. Sustainable drainage principle would be adopted in the drainage system design to minimize peak surface runoff, maximize permeable surface and maximize beneficial use of rainwater.	Within IWMF site / During the operational phase	IWMF Operator	~		~		WPCO	N/A
S5b.8.2.4	Oil interceptors should be provided in the drainage system of any potentially contaminated areas (such as truck parking area and maintenance workshop) and regularly cleaned to prevent the release of oil products into the storm water drainage system in case of accidental spillages. Accidental spillage should be cleaned up as soon as practicable and all waste oils and fuels should be collected and handled in	Within IWMF site / During the operational phase	IWMF Operator	✓ 		V		WPCO; WDO	N/A

				Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	Ο	Dec	Legislation and Guidelines	
	compliance with the Waste Disposal Ordinance.								
S5b.8.2.5	<u>Refuse Entrapment</u> Collection and removal of floating refuse should be performed at regular intervals for keeping the water within the Project site boundary and the neighboring water free from rubbish.	Within the Project site / During the operational phase	IWMF Operator			~		WPCO	N/A
S5b.8.2.6		Transportat ion of Incineration Ash / During the operational phase	IWMF Operator						N/A

* Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

Table B.4 Implementation Schedule for Waste Management Measures for the IWMF at the artificial island near SKC

	Environmental Protection					ation S		Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
6b.5.1.2	 <u>Good Site Practices</u> Adverse environmental impacts in relation to waste management are not expected, provided that good site practices are strictly followed. Recommendations for good site practices during the construction activities would include: Obtain relevant waste disposal permits from appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap. 354) and subsidiary Regulations and the Land (Miscellaneous Provisions) Ordinance (Cap. 28); Provide staff training for proper waste management and chemical handling procedures; Provide sufficient waste disposal points and regular waste collection; Provide appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; and Carry out regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; Separate chemical wastes for special handling and disposed of to licensed facility for treatment; and Employ licensed waste collector to collect waste. 	Work Site/ During Construction Period	Contractor					ETWB TCW	Deficiency of Mitigation Measures but rectified by the Contractor

				Imp	lementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
6b.5.1.3	Waste Reduction Measures Good management and control can prevent the generation of a significant amount of waste. Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include: • Design foundation works that could minimize the amount of excavated material to be generated. • Provide training to workers on the importance of site cleanliness and appropriate	Work Site/ During Design & Construction Period	Contractor		v			Guideines	Implemented. N/A for demolition items
	 procedures, including waste reduction, reuse and recycling; Sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions (i.e. soil, broken concrete, metal etc.); 								
	 Segregate and store different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; 								
	 Encourage the collection of aluminum cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the work force; 								
	 Proper storage and site practices to minimize the potential for damage or contamination of construction materials; and 								

				Im	olement	ation Stag	ges*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent		С	0 [Dec	Legislation and Guidelines	Implementation Status and Remarks
	 Plan and stock construction materials carefully to minimize amount of waste to be generated and to avoid unnecessary generation of waste. 								
6b.5.1.7	Dredged Sediment – Application of Dumping Permit The project proponent should agree in advance with MFC of CEDD on the site allocation. The project proponent or contractor for the dredging works shall then apply for the site allocations of marine sediment disposal based on the prior agreement with MFC/CEDD. The project proponent or contractor should also be responsible for the application of all necessary permits from relevant authorities, including the dumping permit as required under DASO from EPD, for the disposal of dredged sediment prior to the commencement of the dredging works.	Seawall and Reclamation site / Construction Period	EPD and it contractor	s 🗸	✓			DASO ETWB TCW 34/2002	Implemented
6b.5.1.8	Dredged Sediment – Sediment Quality Report The project proponent or contractor will need to satisfy the appropriate authorities that the quality of the marine sediment to be dredged has been identified according to the requirements of ETWB TCW 34/2002. This should be completed well before the dredging works and would include at least the submission of a formal Sediment Quality Report under Tier I of ETWB TCW No. 34/2002 to DEP for approval. Subject to advice from DEP, it is possible that further marine SI in	Seawall and Reclamation site / Construction Period	EPD and it contractor	s 🗸				DASO ETWB TCW 34/2002	Implemented

				Impl	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	accordance with ETWB TCW 34/2002 might be necessary for the application of dumping permit under DASO. In such case, a sediment sampling and testing proposal shall be submitted to and approved by DEP before the additional marine SI works.								
6b.5.1.9	Dredged Sediment – Sediment <u>Transportation</u> The barge transporting the sediments to the designated disposal sites should be equipped with tight fitting seals to prevent leakage and should not be filled to a level that would cause overflow of materials or laden water during loading or transportation. In addition, monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP.	Seawall and Reclamation site / Construction Period	EPD and its contractor		✓			DASO ETWB TCW 34/2002	Implemented
6b.5.1.10		Work Site/ During Design & Construction Period	Contractor	×	*			ETWB TCW No. 19/2005	Implemented

				Impl	ementa	ation S	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	(EMP), should be prepared in accordance with ETWB TCW No.19/2005;								
	 A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be adopted for easy tracking; and 								
	• In order to monitor the disposal of C&D materials at public filling facilities and landfills and to control fly-tipping, a trip- ticket system should be adopted (refer to <i>ETWB TCW No. 31/2004</i>).								
6b.5.1.1 1 – 6b.5.1.12	The Contactor should prepare and implement an EMP in accordance with	During Design & Construction	Contractor	×	×			ETWB TCW No. 19/2005	Implemented

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				Imple	ementa	ation S	stages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	All surplus C&D materials arising from or in connection with construction works should become the property of the Contractor when it is removed unless otherwise stated. The Contractor would be responsible for devising a system to work for on-site sorting of C&D materials and promptly removing all sorted and process materials arising from the construction activities to minimize temporary stockpiling on-site. The system should be included in the EMP identifying the source of generation, estimated quantity, arrangement for on-site sorting, collection, temporary storage areas and frequency of collection by recycling Contractors or frequency of removal off-site.								
6b.5.1.13		Work Site/ During Construction Period	Contractor		*			Waste Disposal (Chemical Waste) (General) Regulation	Implemented.

				Impl	ementa	ation S	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	licensed collector to transport and dispose of the chemical wastes, to either the Chemical Waste Treatment Centre at Tsing Yi, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.								
6b.5.1.14	<u>General Refuse</u> General refuse should be stored in enclosed bins or compaction units separate from C&D materials. A licensed waste collector should be employed by the Contractor to remove general refuse from the site, separately from C&D materials. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.	Work Site/ During Construction Period	Contractor		•				Deficiency of Mitigation Measures but rectified by the Contractor
6b.5.1.1 6 – 6b.5.1.33	 <u>Biogas Generation</u> The Contractor shall review the data and analysis results, and the data from further Site Investigation, if any. Subject to the review findings, the following gas protection measures may be considered if necessary: gas monitoring after reclamation; passive ventilation; gas impermeable membrane; ventilation with "at risk" rooms; protection of utilities or below ground services; 	Reclamation site (if dredging at the reclamation site is not required) / Design & Construction Period	Designer and/or contractor	✓	✓			EPD/TR8/97	N/A

	Environmental Protection			Implemen	tation S	Stages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des C	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
6b.5.2.1	Measures - precautions during construction works; - precautions prior to entry of belowground services <u>Good Site Practices</u> It is recommended that the following good operational practices should be adopted to minimise waste management impacts: Obtain the necessary waste disposal permits from the appropriate authorities, in accordance with the	IWMF Site/During Operation Period	IWMF Operator		✓		Guidelines Waste Disposal N. Ordinance (Cap.354); Waste Disposal (Chemical Waste) (General) Regulation; ETWB TCW No. 1/2004	/A
	 Waste Disposal Ordinance (Cap. 354) and Waste Disposal (Chemical Waste) (General) Regulation; Nomination of an approved person to be responsible for good site practice, arrangements for collection and effective disposal to an appropriate facility of all wastes generated at the site; Use of a waste haulier licensed to collect specific category of waste; A trip-ticket system should be included as one of the contractual requirements and implemented by the Environmental Team to monitor the disposal of solid wastes at landfills, and to control fly tipping. Reference should be made to ETWB TCW No. 31/2004. 							

				Impler	menta	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	 Training of site personnel in proper waste management and chemical waste handling procedures; Separation of chemical wastes for special handling and appropriate treatment at a licensed facility; Routine cleaning and maintenance programme for drainage systems, sumps and oil interceptors; Provision of sufficient waste disposal points and regular collection for disposal; Adoption of appropriate measures to minimize windblown litter and dust during transportation of waste, such as covering trucks or transporting wastes in enclosed containers; and Implementation of a recording system for the amount of wastes generated, and disposed of (including recycled the disposal sites). 								
6b.5.2.2	 Waste Reduction Measures Good management and control can prevent the generation of significant amounts of waste. It is recommended that the following good operational practices should be adopted to ensure waste reduction: Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; 	IWMF Site/ During Operation Period	IWMF Operator			V			Implemented

				Imple	ementa	ation S ^e	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	 Encourage collection of aluminum cans, plastic bottles and packaging material (e.g. carton boxes) and office paper by individual collectors. Separate labelled bins should be provided to help segregate this waste from other general refuse generated by the work force; and Any unused chemicals or those with remaining functional capacity should be reused as far as practicable. 								
6b.5.2.3	Storage, Handling, Treatment, Collection and Disposal of Incineration By-Products The following measures are recommended for the storage, handling and collection of the incineration by- products:	IWMF Site/ During Operation Period	IWMF Operator			~		Incineration Residue Pollution Control Limits	N/A
	 Ash should be stored in storage silos; Ash should be handled and conveyed in closed systems fully segregated from the ambient environment; 								
	 Ash should be wetted with water to control fugitive dust, where necessary; 								
	 All fly ash and APC residues should be treated, e.g. by cement solidification or chemical stabilization, for compliance with the proposed Incineration Residue Pollution Control Limits and leachability criteria prior to disposal; 								

				Impl	ementa	ation S	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	 The ash should be transported in covered trucks or containers to the designated landfill site. The Contractor should provide EPD with 								
	chemical analysis results of the bottom ash, and treated fly ash and APC residues to confirm that the ash/residue can comply with the proposed Incineration Residue Pollution Control Limits before disposal.								
6b.6.3.1	 Fuel Oil Tank Construction and Test The fuel tank to be installed should be of specified durability. Double skin tanks are preferred. Underground fuel storage tank should be placed within a concrete pit. The concrete pit shall be accessible to allow regular tank integrity tests to be carried out at regular intervals. Tank integrity tests should be conducted by an independent qualified surveyor or structural engineer. Any potential problems identified in the test should be rectified as soon as possible. 	Fuel Oil Storage Tank/ During Design, Construction and Operation Periods	IWMF Contractor	×	~	✓			N/A

				Imple	ementa	ation S	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
6b.6.3.1	 Fuel Oil Pipeline Construction and Test Installation of aboveground fuel oil pipelines is preferable; if underground pipelines are unavoidable, concrete lined trenches should be constructed to contain the pipelines. Double skin pipelines are preferred. 	Fuel Oil Pipelines/ During Design, Construction and Operation Periods	IWMF Contractor	~	~	~			N/A
	 Distance between the fuel oil refuelling points and the fuel oil storage tank shall be minimized. 								
	 Integrity tests for the pipelines should be conducted by an independent qualified surveyor or structural engineer at regular intervals. Any potential problems identified in the test should be rectified as soon as possible. 								
6b.6.3.1	 Fuel Oil Leakage Detection Installation of leak detection device at storage tank and pipelines. Installation and use of pressure gauges (e.g. at the two ends of a filling line) in fuel filling, which allows unexpected pressure drop or difference and sign of leakage to be detected. 	Fuel Oil Storage Tank and Pipelines/ During Design, Construction and Operation Periods	IWMF Contractor	×	✓	×			N/A
6b.6.3.1	Fuel Oil Storage Tank Refuelling	Fuel Oil Refuelling Point/	IWMF Operator			•			N/A

	Environmental Protection			Impl	ementa	ation S	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	• Storage tank refuelling (from road tanker) should only be conducted by authorized staff of the oil company using the company's standard procedures.	During Operation Period							
6b.6.3.1	Fuel Oil Spillage Response An Oil Spill Response Plan should be prepared by the operator to document the appropriate response procedures for oil spillage incidents in detail. General procedures to be taken in case of fuel oil spillage are presented below.	IWMF Site/ During Operation Period	IWMF Operator			✓			N/A
	Training								
	 Training on oil spill response actions should be given to relevant staff. The training shall cover the followings: 								
	 Tools & resources to combat oil spillage and fire, e.g. locations of oil spill handling equipment and fire fighting equipment; General methods to deal with oil spillage and fire incidents; Procedures for emergency drills in the event of oil spills and fire; and Regular drills shall be carried out. 								
	Communication								
	-Establish communication channel with the Fire Services Department (FSD) and EPD to report any oil spillage incident								

	Environmental Protection Measures / Mitigation Measures			Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref		Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	so that necessary assistance from relevant department can be quickly sought.								
	Response Procedures								
	-Any fuel oil spillage within the IWMF site should be immediately reported to the Plant Manager with necessary details including location, source, possible cause and extent of the spillage.								
	 Plant Manager should immediately attend to the spillage and initiate any appropriate action to confine and clean up the spillage. The response procedures shall include the following: >Identify and isolate the source of spillage as soon as possible. >Contain the oil spillage and avoid infiltration into soil/ groundwater and discharge to storm water channels. >Remove the oil spillage. 								
	≻Clean up the contaminated area.								
	 If the oil spillage occurs during storage tank refuelling, the refueling operation should immediately be stopped. Recovered contaminated fuel oil and the associated material to remove the spilled oil should be considered as chemical waste. 								

	Environmental Protoction			Impl	ementa	ation S	Stages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	Ο	Dec	Legislation and Guidelines	
	procedures for chemical wastes are discussed in the following paragraphs.								
6b.6.3.2	 <u>Chemicals and Chemical Wastes Handling & Storage</u> Chemicals and chemical wastes should only be stored in suitable containers in purpose-built areas. The storage of chemical wastes should comply with the requirements of the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. The storage areas for chemicals and chemical wastes shall have an impermeable floor or surface. The impermeable floor/ surface shall possess the following properties: Not liable to chemically react with the materials and their containers to be stored. Able to withstand normal loading and physical damage caused by container handling The integrity and condition of the impermeable floor or surface should be inspected at regular intervals to ensure that it is satisfactorily maintained 	Chemicals and Chemical Wastes Storage Area / During Operation Period	IWMF Operator						N/A

				Implei	menta	ation S [.]	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	storage area should be bunded to contain at least 110% of the storage capacity of the largest containers or 20% of the total quantity of the chemicals/chemical wastes stored, whichever is the greater.								
	Storage containers shall be checked at regular intervals for their structural integrity and to ensure that the caps or fill points are tightly closed.								
	Chemical handling shall be conducted by trained workers under supervision.								
6b.6.3.2	<u>Chemicals and Chemical Wastes Spillage</u> <u>Response</u> A Chemicals and/ or Chemical Wastes Spillage Response Plan shall be prepared by the operator to document in detail the appropriate response procedures for chemicals or chemical wastes spillage incidents. General procedures to be undertaken in case of chemicals/ chemical waste spillages are presented below. • Training	IWMF Site/ During Operation Period	IWMF Operator			~			N/A
	 Training on spill response actions should be given to relevant staff. The training shall cover the followings: 								

	Environmental Destaction			Imple	ementa	ation St	ages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	Tools & resources to handle spillage, e.g. locations of spill handling equipment;								
	General methods to deal with spillage; and								
	 Procedures for emergency drills in the event of spills. 								
	Communication								
	 Establish communication channel with FSD and EPD to report the spillage incident so that necessary assistance from relevant department can be quickly sought. 								
	Response Procedures								
	 Any spillage within the IWMF site should be reported to the Plant Manager. 								
	 Plant Manager shall attend to the spillage and initiate any appropriate actions needed to confine and clean up the spillage. The response procedures shall include the followings: 								
	Identify and isolate the source of spillage as soon as possible;								
	Contain the spillage and avoid infiltration into soil/								

				Imple	ementa	ation St	ages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	groundwater and discharge to storm water channels (in case the spillage occurs at locations out of the designated storage areas);								
	Remove the spillage; the removal method/ procedures documented in the Material Safety Data Sheet (MSDS) of the chemicals spilled should be observed;								
	Clean up the contaminated area (in case the spillage occurs at locations out of the designated storage areas); and								
	The waste arising from the cleanup operation should be considered as chemical wastes.								
6b.6.3.3	Preventive Measures for Incineration By- products Handling The recommended measures listed below can minimize the potential contamination to the surrounding environment due to the incineration by-products: • Ash should be stored in storage silos; • Ash should be handled and conveyed in closed systems fully segregated	Storage, Handling & Collection of Incineration Ash at IWMF/ During Operation Period	IWMF Operator			×			N/A

				Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	 from the ambient environment; Ash should be wetted with water to control fugitive dust, where necessary; All fly ash and APC residues should be treated, e.g. by cement solidification or chemical stabilization, for compliance with the proposed Incineration Residue Pollution Control Limits and leachability criteria prior to disposal; The ash should be transported in covered trucks or containers to the 		Agent						
6b.6.3.4 -6b.6.3.6	designated landfill site.Incident RecordAfter any spillage, an incident report should be prepared by the Plant Manager. The incident report should contain details of the incident including the cause of the incident, the material spilled and estimated spillage amount, and also the response actions undertaken. The incident record should be kept carefully and able to be retrieved when necessary.The incident report should provide sufficient details for the evaluation of any environmental impacts due to the spillage and assessment of the effectiveness of measures taken.	IWMF Site/ During Operation Period	IWMF Operator			v		Guidance Manual for Use of Risk-based Remediation Goals for Contaminated Land Management and the Guidance Note for Contaminated Land and Remediation.	N/A

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	Environmental Protection		Implementation Agent	Impl	ement	ation S	stages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing		Des	С	0	Dec	Legislation and Guidelines	
	In case any spillage or accidents results in significant land contamination, EPD should be informed immediately and the IWMF operator should be responsible for the cleanup of the affected area. The responses procedures described in Section 6b.6.3.1 and Section 6b.6.3.2 of EIA report should be followed accordingly together with the land contamination assessment and remediation guidelines stipulated in the <i>Guidance Manual for Use</i> of Risk-based Remediation Goals for Contaminated Land Management and the <i>Guidance Note for Contaminated Land and</i> Remediation.								

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

	Environmental Protection		Implementation Agent	Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing		Des	С	0	Dec	Legislation and Guidelines	
7b.8.2.1	 Measures to avoid direct loss of intertidal habitat The site boundary has been proposed to avoid direct contact with the intertidal natural rocky shore of Shek Kwu Chau. It avoids direct loss of intertidal communities and the existing natural rocky shore habitat, where Reef Egret and White-bellied Sea Eagle have been recorded within and in the vicinity of this habitat. 	IWMF site	Design team	~				EIAO-TM	N/A
7b.8.2.2	 Measures to minimise loss of coastal subtidal habitat Extensive coral colonies were recorded at the coastal hard bottom habitat at Shek Kwu Chau. To avoid and minimise the extensive direct impact on the coral colonies, the proposed reclamation area has been moved further offshore to minimise loss of subtial habitat near shore. 	IWMF site	Design team	×				EIAO-TM	N/A
7b.8.2.3	 Zero Discharge Scheme The design scheme of the Project has avoided discharge of wastewater into the marine environment. A zero discharge scheme would be adopted during the operation of the Project. An on-site wastewater treatment plant would be 	IWMF site	Design team, IWMF operator	×		×		WPCO	N/A

Table B.5 Implementation Schedule for Ecological Quality Measures for the IWMF at the artificial island near SKC

Integrated Waste Management Facilities, Phase 1

	Environmental Protection				Impl	ementa	ation S ^e	tages*	Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Des Agent		Des	С	ο	Dec	Legislation and Guidelines	Implementation Status and Remarks
	provided to treat the wastewater generated from the IWMF (mainly human sewage). The treated effluent would be re-used in the incineration plant and mechanical treatment plant, or for onsite washdown and landscape.									
7b.8.2.4	 Measures to avoid loss of plant species of conservation importance Landing portal construction works would not cause direct lost to the recorded individual of protected plant species, Aquilaria sinensis, at the coastal shrubland habitat at Cheung Sha. As a precautionary measure, the plant should be tagged with eye- catching tape and fenced off prior to works, in order to avoid any damage by workers. 	Cheung Sha landing portal	Design Contractor	team,	✓	~		✓	EIAO-TM	N/A
7b.8.3.1 - 7b.8.3.1 5	 Measures to minimise water quality impact Measures for water quality as recommended in Section 5b of the EIA Report should be implemented. 	Work site	Design contractor, operator	team, IWMF	~	~	~	~	EIAO-TM; ProPECC PN 1/94; WPCO	Implemented
7b.8.3.1 6 - 7b.8.3.3 0	Measures to minimise disturbance on Finless Porpoise Minimisation of Habitat Loss for Finless Porpoise	IWMF site, work site, marine traffic route	Design contractor, operator	team, IWMF	✓	~	√	•	EIAO-TM, Supporting Document for Application for Variation of the Environmental	Implemented for avoidance or construction works that may produce underwater acoustic disturbance, Vessel Travel Route implementation, training of staff; N/A for other

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Imple	ement	ation S	stages*	Relevant	have been set of the Oto to a
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	Implementation Status and Remarks
	 Substantial revision has been made on the layout plan and form of the breakwater, in order to minimise the potential loss of important habitat for Finless Porpoise. The revision has greatly reduced the size of the embayment area, as well as the Project footprint. As a result, the size of habitat loss for Finless Porpoise has reduced from the original ~50 ha, down to ~31 ha. Avoidance of peak season for finless porpoise occurrence To minimise potential acoustic disturbance from construction activities on Finless Porpoise, construction works that may produce underwater acoustic disturbance should be scheduled outside the months with peak Finless Porpoise occurrence (December to May), including: sheet piling works for construction of cofferdam surrounding the reclamation area 		Agent						
	 (Phase 1); sheet piling works for construction of the shorter section of breakwater (Phase 1); 								

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	
	 sheet piling works for construction of the remaining section of breakwater (Phase 3) and bored piling works for berth area (Phase 3) 								
	Such works should be restricted within June to November. This approach would not only avoid the peak season for Finless Porpoise occurrence, the magnitude of impacts arise from acoustic disturbance would also be minimised.								
	• Since the DCM ground treatment and the installation of precast seawalls and breakwaters should generate no underwater acoustic disturbance to Finless Porpoise, no specific mitigation measures are required.								
	Opt for quieter construction methods and plants								
	Considering the sensitivity of marine mammals to underwater acoustic disturbance, instead of the previously proposed conventional breakwater acoust acoustic previously proposed conventional breakwater acoust								
	and reclamation peripheral structure, which requires noisy piling works, the current circular cells structure for								

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	Environmental Protection			Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	 breakwater and reclamation peripheral structure is proposed. A quieter sheet piling method using vibratory hammer or hydraulic impact hammer, should be adopted for the installation of circular cells for cellular cofferdam and northern breakwater during Phase 1, and southern breakwater Phase 3; Non-percussive bore piling method would be adopted for the installation of tubular piles for the berth construction 								
	during Phase 3. <i>Monitored exclusion zones</i> • During the installation/re-								
	installation/relocation process of floating type silt curtains, in order to avoid the accidental entrance and entrapment of marine mammals within								
	the silt curtains, a monitored exclusion zone of 250 m radius from silt curtain should be implemented. The exclusion zone should be closely								
	monitored by an experienced marine mammal observer at least 30 minutes before the start of installation/re-								
	installation/relocation process. If a marine mammal is noted within the exclusion zone, all marine works should stop immediately and remain								

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	exclusion zone is free from marine mammals.								
	• The experienced marine mammal observer should be well trained to detect marine mammals. Binoculars should be used to search the exclusion zone from an elevated platform with unobstructed visibility. The observer should also be independent from the project proponent and has the power to call-off construction activities.								
	 In addition, as marine mammals cannot be effectively monitored within the proposed monitored exclusion zone at night, or during adverse weather conditions (i.e. Beaufort 5 or above, visibility of 300 meters or below), marine works should be avoided under weather conditions with low visibility. 								
	Marine mammal watching plan								
	 Upon the completion of the installation/re- installation/relocation of floating type silt curtain, all marine works would be conducted within a fully enclosed environment within the silt curtain, hence exclusion zone monitoring would no longer 								

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	be required. Subsequently, a marine mammal watching plan should be implemented.								
	The plan should include regular inspection of silt curtains, and visual inspection of the waters surrounded by the curtains. Special attention should be paid to Phase 2 (reclamation) where the floating type still curtain would be opened occasionally for vessel access, leaving a temporary 50 m opening. An action plan should be devised to cope with any unpredicted incidents such as the case when marine mammals are found within the waters surrounded by the silt curtains.								
	Small openings at silt curtains								
	• The openings for vessel access at the silt curtains should be as small as possible to minimise the risk of accidental entrance.								
	Adoption of regular travel route								
	 During construction and operation, captains of all vessels should adopt regular travel route, in order to minimize the chance of vessel collision with 								

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Imple	ement	tation S	stages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	
	marine mammals, which may otherwise result in damage to health or mortality. The regular travel route should avoid areas with high sighting density of Finless Porpoise as much as possible.								
	Vessel speed limit								
	• The frequent vessel traffic in the vicinity of works area may increase the chance of mammal mammals being killed or seriously injured by vessel collision. A speed limit of ten knots should be strictly enforced within areas with high density of Finless Porpoise.								
	 Passive acoustic monitoring and land- based theodolite monitoring surveys should be adopted to verify the predicted impacts and effectiveness of the proposed mitigation measures. 								
	Training of Staff								
	• Staff, including captains of vessels, should be aware of the guidelines for safe vessel operations in the presence of cetaceans during construction and operation phases. Adequate trainings should be provided								

Integrated Waste Management Facilities, Phase 1

	Environmental Protection				Impl	plementation Stages*			Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Timing	Impleme Age		Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
7b.8.3.3 1 - 7b.8.3.3 4	Measures to minimise impact on corals Coral translocation	IWMF site	Design contractor, operator	team, IWMF	~	~	✓ 	~	EIAO-TM	Implemented, tagged coral found missing after hitting by typhoons
	 Coral communities within and in proximity to the proposed dredging sites would be disturbed by the Project due to the dredging operations. In order to minimise direct loss of coral communities, translocation of corals that are attached to movable rocks with diameter less than 50 cm are recommended. In order to avoid disturbance to corals during the spawning period, the spawning season of corals (June to August) should be avoided; and that translocation should be carried out during the winter season (November- March). 									Re-tagging of 10 coral colonies at indirect impact site and control site were conducted in November and December 2018 respectively.
	• The REA survey results suggest that the 198 directly affected coral colonies were attached to movable rocks (less than 50 cm in diameter). It is technically feasible to translocate them to avoid direct loss.									
	 Prior to coral translocation, a more detailed baseline survey, including a coral mapping survey, is recommended to further confirm the 									

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Imple	menta	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	exact number and location of coral colonies within the potentially affected area. A more detailed coral translocation plan, including selection of suitable recipient site, plan for coral translocation, and event / action plan for coral monitoring should be submitted upon approval of this Project, prior to commencement of construction works. Advice from relevant governmental departments (i.e. AFCD) and professionals would be sought after, in order to identify a desirable location for the relocation of coral communities. Post-translocation monitoring on the translocated corals should also be considered.								
	Coral monitoring programme								
	 A coral monitoring programme is recommended to assess any adverse and unacceptable impacts to the coral communities at the coasts of Shek Kwu Chau during construction of the Project. 								
	Phasing of Works								
	 To minimize environmental impacts, the proposed phasing of construction works has been carefully designed to 								

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Impl	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	
	reduce the amount of concurrent works, hence minimize SS elevation and the associated impacts on corals.								
7b.8.3.3 5 - 7b.8.3.4 1	 <u>Specific measures to minimize</u> <u>disturbance on breeding White-bellied</u> <u>Sea Eagle</u> Avoidance of noisy works during the breeding season of White-bellied Sea Eagle To minimize potential noise disturbance from construction activities on WBSE, noisy construction works should be scheduled outside their breeding season (December to May) to minimise potential degradation in breeding ground quality and breeding activities, including: sheet piling works for construction of cofferdam surrounding the reclamation area (Phase 1); sheet piling works for construction of the shorter section of breakwater (Phase 1); sheet piling works for construction of the remaining section of breakwater (Phase 3); and bored piling works for berth area (Phase 3). 		Design Team, Contractor, IWMF operator					EIAO-TM	Implemented

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	Opt for quieter construction methods and plants								
	 To minimise potential construction noise disturbance on WBSE, quieter construction methods and plants should be adopted. The recommended noise mitigation measures in the Noise chapter (Section 4b.8 of the EIA Report) should be implemented to minimise potential noise disturbance to acceptable levels. 								
	Restriction on vessel access near the nest of White-bellied Sea Eagle								
	• During construction and operation, in order to minimize disturbance on the existing WBSE nest, a pre-defined practical route to restrict vessel access near the nest should be adopted to keep vessels and boats as far away from the nest as possible.								
	White-bellied Sea Eagle monitoring programme								
	 A WBSE monitoring programme is recommended to assess any adverse and unacceptable impacts to the breeding activities of WBSE during construction and operation of the 								

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	
	 Project. Monitoring surveys for WBSE would include pre-construction phase (twice per month for duration of three months during their breeding season -between December and May, immediately before the commencement of works), construction phase, and operation phase (two years after the completion of construction works). Surveys should be conducted twice per month during their breeding season (from December to May); and once per month outside breeding season (June to November). More details on monitoring for WBSE are presented in the EM&A Manual. 								
	 Education of staff Staff, including captains of all vessels during construction and operation 								
	phases, should be aware of the ecological importance of WBSE. Awareness should be raised among staff to minimise any intentional or unintentional disturbance to the nest.								
	Minimisation of Glare Disturbance								

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	Environmental Protection			Im	Implementation Stages*		Relevant		
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent) De	s C	Ο	Dec	Legislation and Guidelines	Implementation Status and Remarks
	 To minimise glare disturbance on WBSE, which may cause disorientation of birds by interfering with their magnetic compass, and disruption in behavioural patterns such as reproduction, fat storage and foraging pattern, any un-necessary outdoor lighting should be avoided, and in-ward and down-ward pointing of lights should be adopted. 								
-	 <u>Construction of Seawall/Breakwaters</u> To widen the open channel between the Artificial Island and Shek Kwu Chau. To design the precast concrete seawall with environmental friendly features. 	IWMF site	Design team, contractor, IWN operator		V			Supporting Document for Application for Variation of Environmental Permit (EP- 429/2012)	N/A
7b.8.3.42	 Opt for Quieter Construction Methods and Plants Quieter construction methods and plants should be used to minimise disturbance to the nearby terrestrial habitat and the associated wildlife. 	Work site	Design team contractor, IWN operator		V	~	V	EIAO-TM	Implemented
7b.8.3.43	 Measures to minimize impacts from artificial lighting Unnecessary lighting should be avoided, and shielding of lights should be provided to minimize disturbance from light pollution on fauna groups. 	IWMF site	Design tean contractor, IWN operator		V	•		EIAO-TM	Implemented

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Impl	ementa	ation S	tages*	Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
7b.8.3.4 4 - 7b.8.3.4 5	 Measures to minimize accidental spillage Regular maintenance of vessels, vehicles and equipment that may cause leakage and spillage should only be undertaken within predesignated areas, which are appropriately equipped to control the associated discharges. Oils, fuels and chemicals should be contained in suitable containers, and only be used and stored in designated areas which have pollution prevention facilities. All fuel tanks and storage areas should be sited on sealed areas in order to prevent spillage of fuels and solvents to the nearby watercourses. All waste oils and fuels should be collected in designated tanks prior to disposal. 	Work site	Contractor, IWMF operator		✓			EIAO-TM	Deficiency of Mitigation Measures but rectified by the Contractor.
7b.8.3.46	 Measures to minimise sewage effluent Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. 	Work site	Contractor		~			EIAO-TM	N/A
7b.8.3.47		Work site	Contractor		~		~	EIAO-TM	N/A

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	Environmental Protection			Imple	ementa	ation S	tages*	Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	Potential ecological impacts resulted								
	from potential degradation of water								
	quality due to unmitigated surface								
	runoff could be minimised via the								
	detailed mitigation measures in Section								
	5b.8 of the EIA Report. The following								
	presents some of the mitigation								
	measures:								
	 On-site drainage system with implemented 								
	sedimentation control facilities.								
	- Channels, earth bunds or sand bag								
	barriers should be provided on site								
	to direct storm water to silt removal								
	facilities.								
	- Provision of embankment at								
	boundaries of								
	earthworks for flood protection.								
	 Water pumped out from 								
	foundation piles must be								
	discharged into silt removal								
	facilities.								
	- During rainstorms, exposed slope/soil surfaces should be								
	covered by tarpaulin or other								
	means, as far as practicable.								
	- Exposed soil surface should be								
	minimized to reduce siltation and								
	runoff.								
	- Earthwork final surfaces should be								
	well compacted. Subsequent								
	permanent surface protection								
	should be immediately performed.								

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	Environmental Protection			Impl	ementa	tion S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	- Open stockpiles of construction materials, and construction wastes on- site should be covered with tarpaulin or similar fabric during rainstorms.								
7b.8.3.48	 Measures to minimise impacts from general construction activities To avoid the entering of construction solid waste into the nearby habitats, construction solid waste should be collected, handled and disposed of properly to avoid entering to the nearby habitats. It is recommended to clean the construction sites on a regular basis. 	Work site	Contractor		~			EIAO-TM	Implemented
7b.8.3.49	Pest Control Good waste management practices should be adopted at the IWMF in order to minimise the risk of introduction of pest to the island: - Transportation of wastes in enclosed containers - Waste storage area should be well maintained and cleaned - Waste should only be disposed of at designated areas - Timely removal of the newly arrived waste - Removal of items that are capable of retaining water		IWMF operator			V			N/A

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	Environmental Protection			Impl	ementa	ation Sta	ages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	
	 Rapid clean up of any waste spillages Maintenance of a tidy and clean site environment Regular application of pest control Education of staff the importance of site cleanliness 								
7b.8.3.50	Control of Marine Habitat Quality during Operation Phase	IWMF site	IWMF operator			~		EIAO-TM; WPCO	N/A
	 Depending on the seabed condition of the approach channel for marine vessels during operation phase of the IWMF, maintenance dredging may be required to ensure safe access. In order to avoid degradation in water quality due to elevation in SS and dispersion of sediment plume due to dredging works, it is recommended that any future maintenance dredging works should not be carried out within 100 m from the shore, similar to that of the dredging for anti-scouring protection layer during construction phase. All maintenance dredging works should be carried out with the implementation of silt curtain to control the dispersion of SS. The production rate should comply with the permit dredging rate and number of grab per hour. 								

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	Environmental Protection			Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	
7b.8.4. 1 – 7b.8.4. 3	 Measures <u>Compensation of loss of important habitat of Finless Porpoise</u> Designation of Marine Park The Project Proponent has made a firm commitment to seek to designate a marine park of approximately 700 ha in the waters between Soko Islands and Shek Kwu Chau, in accordance with the statutory process stipulated in the Marine Parks Ordinance, as a compensation measure for the habitat loss arising from the construction of the IWMF at the artificial island near SKC. The Project Proponent shall seek to complete the designation by 2018 to tie in with the operation of the IWMF at the artificial island near SKC. A further study should be carried out to review relevant previous studies and collate available information on the ecological characters of the proposed area for marine park designation; and review available survey data for Finless Porpoise, water quality, fisheries, marine traffic and planned development projects in the vicinity. 	between Shek Kwu Chau and Soko Islands	Project Proponent					Guidelines EIAO-TM	N/A

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	Environmental Protection			Impl	ementa	ation Stage	* Relevant		
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	O De	Legislation and Guidelines	Implementation Status and Remarks	
	marine park designation should be established, and the extent and location of the proposed marine park be determined. The adequacy of enhancement measures should also be reviewed.								
	 In addition, a management plan for the proposed marine park should be proposed, covering information on the responsible departments for operation and management (O&M) of the marine park, as well as the O&M duties of each of the departments involved. Consultation with relevant government departments and stakeholders should be conducted under the study. The study should be submitted to Director of Environmental Protection (DEP) for approval before the commencement of construction works. 								
	• The Project Proponent should provide assistance to AFCD during the process of the marine park designation.								
7b.8.5. 1 – 7b.8.5. 4	Additional Enhancement or Precautionary Measures Deployment of Artificial Reefs • Deployment of artificial reefs (ARs) is	Within the proposed marine park under this study		√		¥	EIAO-TM	N/A	
	an enhancement measure for the								

Integrated Waste Management Facilities, Phase 1

Keppel Seghers – Zhen Hua Joint Venture

	Environmental Protection			Imple	ementa	ation S	tages*	Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	 marine habitats. ARs are proposed to be deployed within the proposed marine park under this Project. The exact location, dimension and type of ARs to be deployed are to be further investigated along with the further study of the proposed marine park under this Project. The proposed ARs would be deployed at the same time as the complete designation of marine park. Release of Fish Fry at Artificial Reefs and Marine Park Release of fish fry at the proposed marine park under this study, should enhance the fish resources in the nearby waters, and subsequently food sources for Finless Porpoise. The proposed ARs 							Guidelines	
	with various micro-habitats would have the potential to provide shelter and nursery ground for the released fish fry.								
	The frequency and quantity of fry to be released should be agreed by AFCD.								

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

					Imple	ementa	ation S	Stages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Impleme Age		Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
8b.8.1.2	 Measure to minimize loss of and disturbance on fisheries resources Alteration to the phasing of works, construction method, and layout plan of the IWMF at the artificial island near SKC has been made. The total fishing ground to be permanently lost due to the project has been significantly reduced from ~50 ha to ~31 ha. By adopting the current circular cells instead of the conventional seawall 	IWMF site	Design contractor	team,	V	V		*	EIAO-TM	N/A
	construction method, SS elevation would be greatly reduced, minimizing adverse impact on the health of fisheries resources.									
8b.8.1.3	Measure to minimize impingement and entrainment	IWMF site	Design contractor, operator	team, IWMF	√	~	~		EIAO-TM	N/A
	• Provision of a screen at the water intake point for desalination plant would be essential to minimize the risk of impingement and entrainment of fisheries resources (including fish, larvae and egg) through the intake point.									

Table B.6 Implementation Schedule for Fisheries Measures for the IWMF at the artificial island near SKC

						Imple	ement	ation S	Stages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures		ation / ming	Implemer Age		Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
8b.8.1.4- 8b.8.1.6	 Measures to control water quality No wastewater effluent, anti-fouling agent, heavy metals and other contaminants would be released during operation phase of the Project. 	Work site	site, IWMF	Design contractor, operator	team, IWMF	~	•	✓	V	EIAO-TM	Implemented
	Mitigation measures recommended in the water quality impact assessment during construction and operation would serve to protect fisheries resources from indirect impacts resulted from the Project										
8b.8.1.7 8b.8.1.8	 <u>Additional Enhancement / Precautionary</u> <u>Measures</u> Artificial Reefs (ARs) are proposed to be deployed within the proposed marine park under this Project as an enhancement measure for the marine habitats. This enhancement feature would bring positive impacts to the previously identified important spawning and nursery ground for fisheries resources. <i>Release of Fish Fry at Artificial Reefs</i> Release of fish fry has been proposed under this Project. The proposed deployment of ARs within the proposed marine park would provide shelter and nursery ground for the released fish fry. The frequency and quantity of fry to be released should be agreed by AFCD. 	betwee Islands Shek Chau	ed park waters en Soko	Project Pro	ponent	 		✓		EIAO-TM	N/A

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

Table B.7	Implementation Schedule for Landscape and Visual Measures for the IWMF at the artificial island near SKC										
				Imple	ementa	ation S	Stages*	Relevant	Implementation		
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks		
S10b.10 MLVC- 01	Grass-hydroseeded bare soil surface and stock pile area	Work site / During construction phase	Contractor		•				N/A		
S10b.10 MLVC-02	 Landscape Design 1) Early planting using fast grow trees and tall shrubs at strategic locations within site as buffer to block view corridors to the site from the VSRs, and to locally screen haul roads, excavation works and site preparation works. 	phases	Contractor	✓ ✓	•				N/A		
	2) Use of tree species of dense tree crown to serve as visual barrier.										
	 Hard and soft landscape treatment (e.g. trees and shrubs) of open areas within development to provide a background for the outdoor containers from open view, shade and shelter, and a green appearance from surrounding viewpoints. 										
	4) Planting strip along the periphery of the project site.										
	5) Selected tree species suitable for the coastal condition.										

Table B.7 Implementation Schedule for Landscape and Visual Measures for the IWMF at the artificial island near SKC

				Implemen	tation S	Stages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des C	0	Dec	Legislation and Guidelines	Status and Remarks
S10b.10 MLVC-03	 <u>Adoption of Natural Features of the Existing</u> <u>Shoreline</u> 1) Use of boulders in different sizes and with the similar textures of the existing rocky shores for the construction of breakwater and artificial shoreline in order to blend into the existing natural shoreline. 	Work site / During construction phase	Contractor	✓				N/A
	2) Use of cellular cofferdam together with the natural boulders to form a curvature shoreline for the reclamation area to echo with the natural shoreline of SKC.							
S10b.10 MLVC-04	 <u>Greening Design (Rooftop & Vertical Greening)</u> 1) Implementation of rooftop and vertical greening (vertical building envelope) along the periphery of each building block to increase the amenity value of the work, moderate temperature extremes and enhance building energy performance. The greening appearance of the building shall enhance its visual harmony with the natural surroundings as well as reduce the apparent visual mass of the structure. 	Work site / During design & construction phases	Contractor	✓ ✓				N/A
	 Sufficient space between concrete enclosure and stack to minimize heat transfer. 							
	3) Introduction of landscape decks at the stack to further enhance the overall natural and green concept unique for this site.							

				Imple	menta	ation S	tages*	Relevant	Implementation										
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks										
S10b.10 MVC-01	Visual Mitigation and Aesthetic Design	Structures in IWMF /	Contractor	~	\checkmark				N/A										
MVC-01	 Use of natural materials with recessive color to minimize the bulkiness of the building. 	During design & constructio																	
	 Adoption of innovative aesthetic design to the chimney to minimize or visually mitigate the massing of the chimney so as to reduce its visual impact to the surroundings. 	n phases																	
	 Color of the chimney in a gradual changing manner to match with the color of the sky. 																		
	 Provision of observation deck for public enjoyment at the top of the chimney to diminish the feeling of chimney. 																		
	 5) Provision of sky gardens between the two stacks to allow additional greening for enhancing the aesthetic quality. Maintenance access (elevator and staircase) from the ground floor to the sky gardens will be provided to allow maintenance of the sky gardens. 																		
	 Integration of the visitor's walkway with different material façade design of incinerator plant to enhance the aesthetic quality. 																		
S10b.10 MVC-02	Control of the security floodlight for construction areas at night to avoid excessive glare to the surrounding receiver.	Work site / During construction phase	Contractor		✓				Implemented										

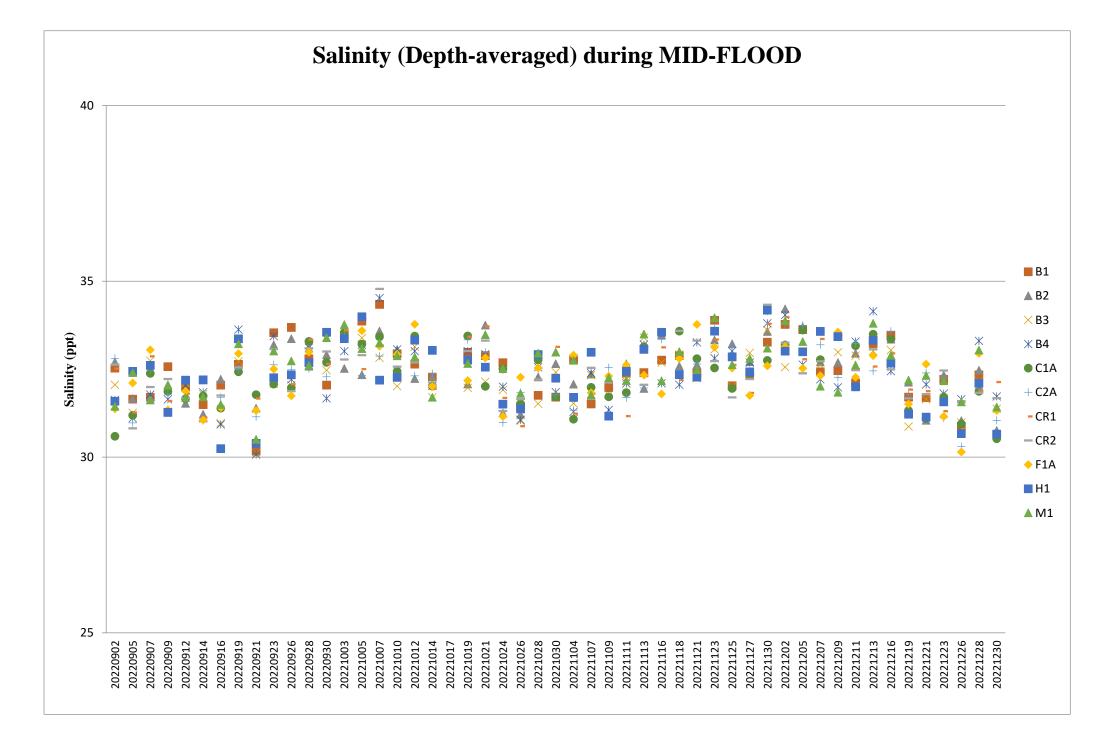
				Implem	nenta	tion S	tages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
S10b.10 MVC-03	Optimization of the construction sequence and construction programme to minimize the duration of impact.	Work site / During design & construction phases	Contractor	~	✓				Implemented
S10b.10 MVC-04	Storage of the backfilling materials for site formation & construction materials / wastes on site at a maximum height of 2m, covered with an impermeable material of visually un- obtrusive material (in earth tone).	Work site / During construction phase	Contractor		~				N/A
S10b.10 MVC-05	Reduction of the number of construction traffic at the site to practical minimum.	Work site / During construction phase	Contractor		✓				Implemented
S10b.10 MLVO-01	Planting Maintenance Provision of proper planting maintenance and replacement of defective plant species on the new planting areas to enhance aesthetic and landscape quality.	Project site / During Operation phase	Contractor			✓			N/A
S10b.10 MVO-01	Environmental Education Centre Development of an Environmental Education Center, in which regular exhibitions and lectures to promote environmental awareness and waste reduction concept would be provided, as a part of the IWMF for the general public to alleviate negative public perceptions of the development.	Project site / During Operation phase	Contractor			~			N/A
S10b.10 MVO-02	<u>Control of Light</u> Control the numbers of lights and their intensity to a level that is good enough to meet the safety requirements at night but not excessive.	Project site / During Operation phase	Contractor			~			N/A

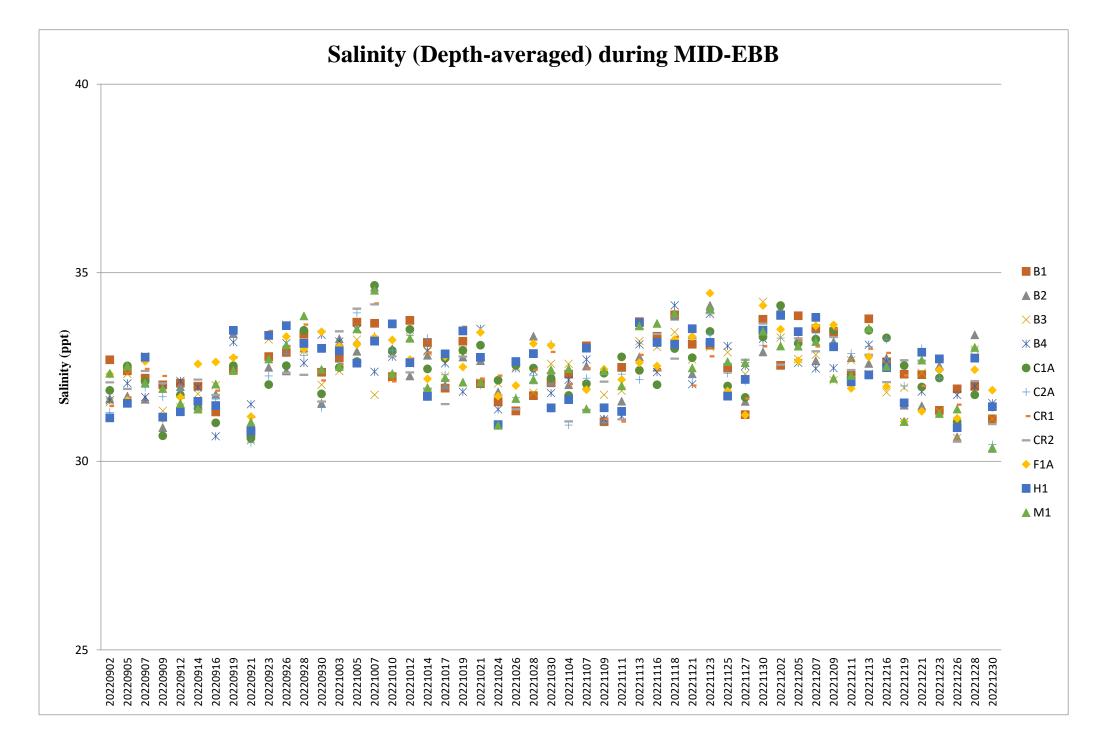
Keppel Seghers – Zhen Hua Joint Venture

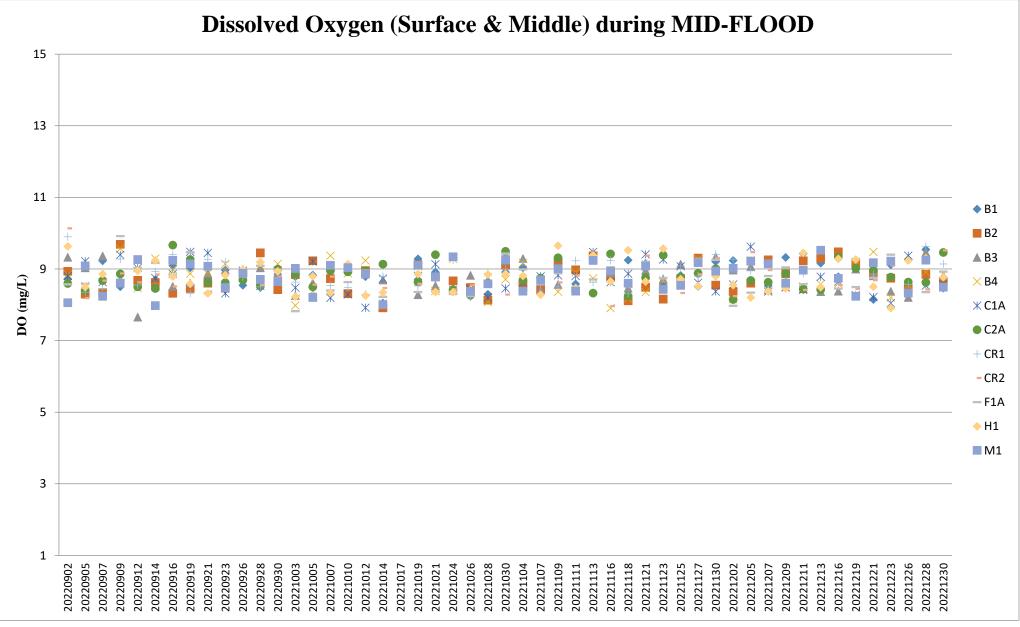
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Imple Des	ementat C	ion S O	tages* Dec	Relevant Legislation and Guidelines	Implementation Status and Remarks
S10b.10 MVO-03	<u>Control of Operation Time</u> Minimization of the frequency of waste transportation to practical minimum (e.g. limit the reception of MSW from 8 am to 8 pm)	Project site / During Operation phase	Contractor			~			N/A

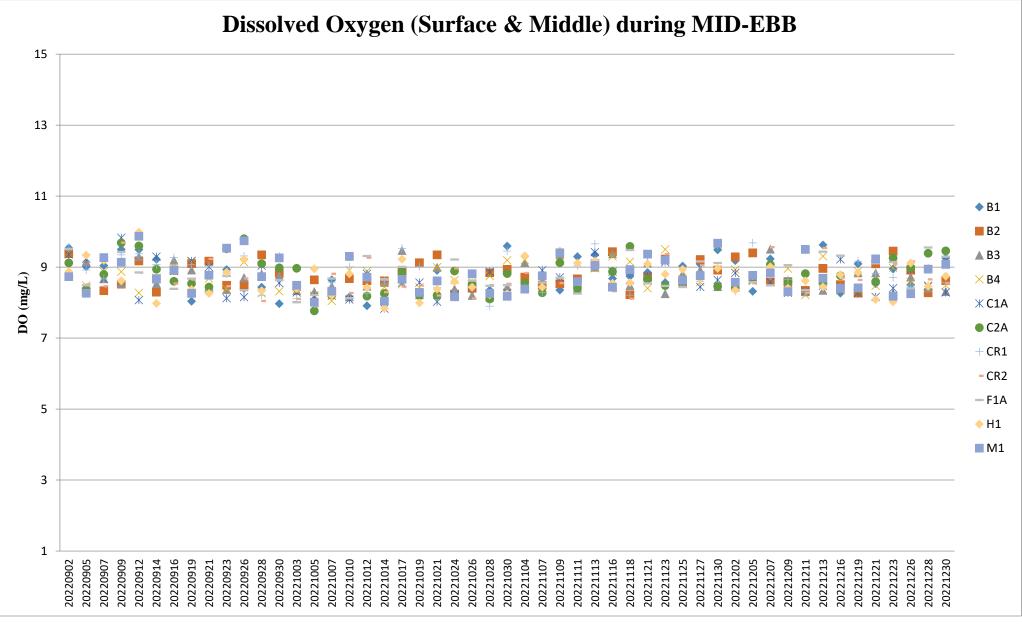
* Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

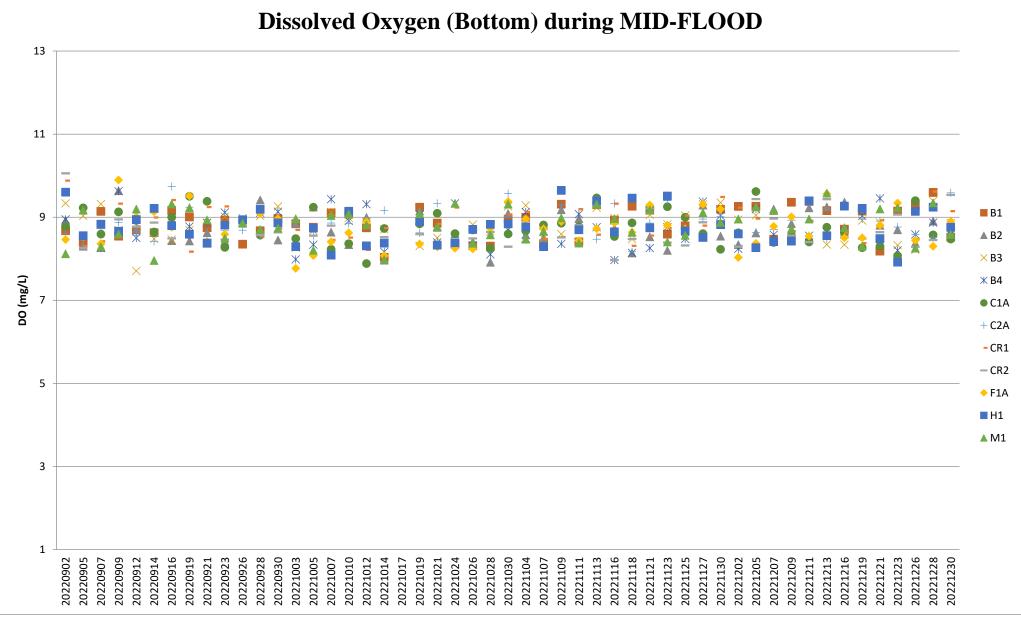
Appendix C Water Quality Monitoring Data Trending



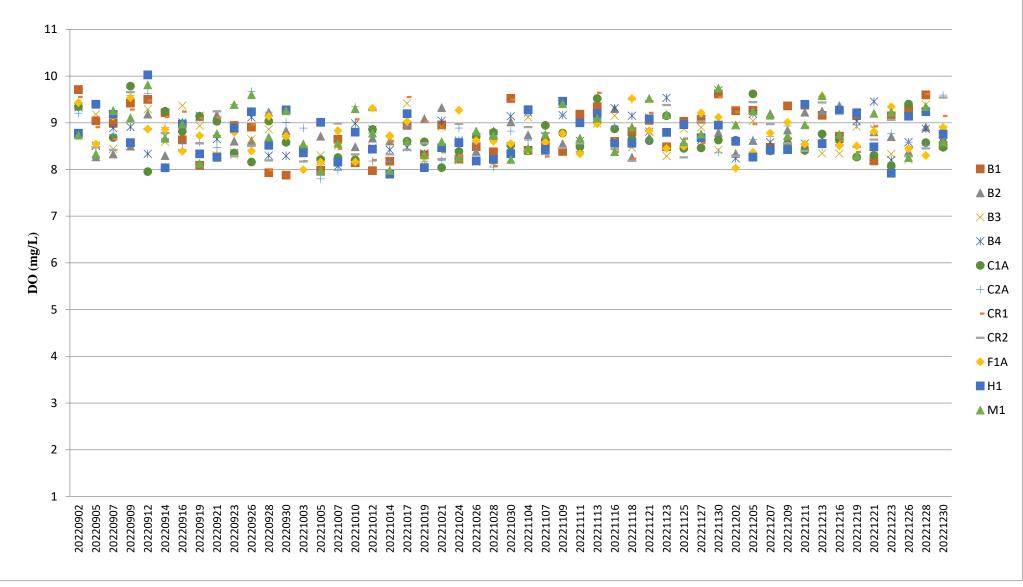




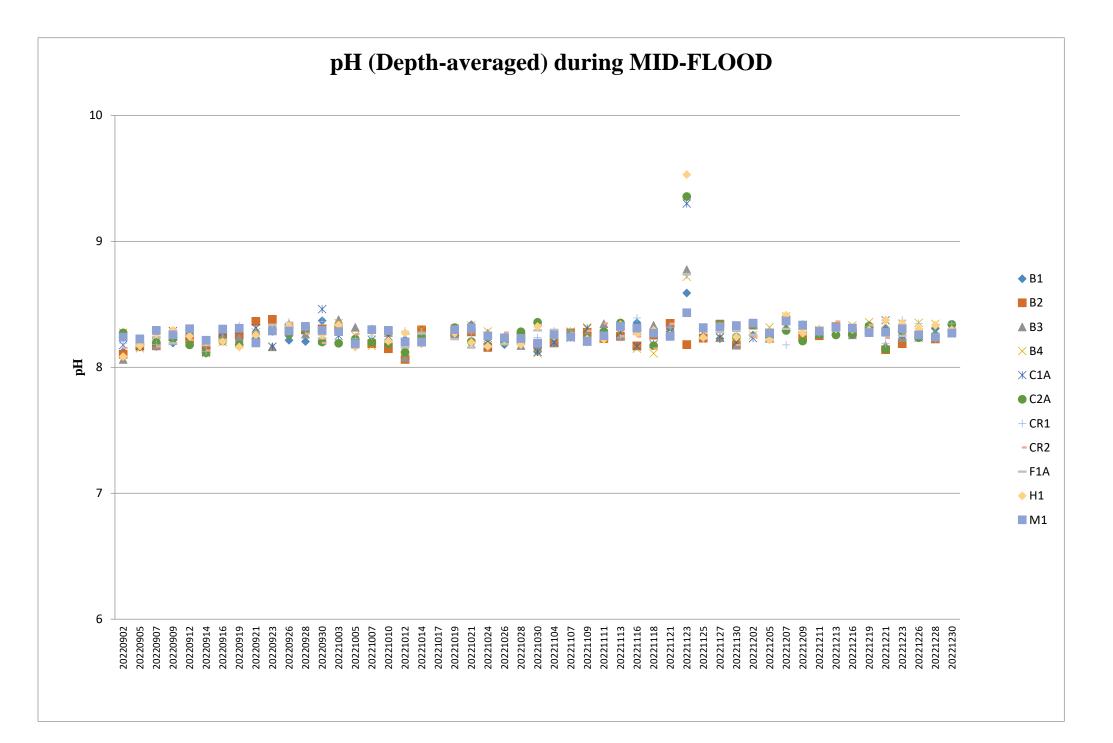


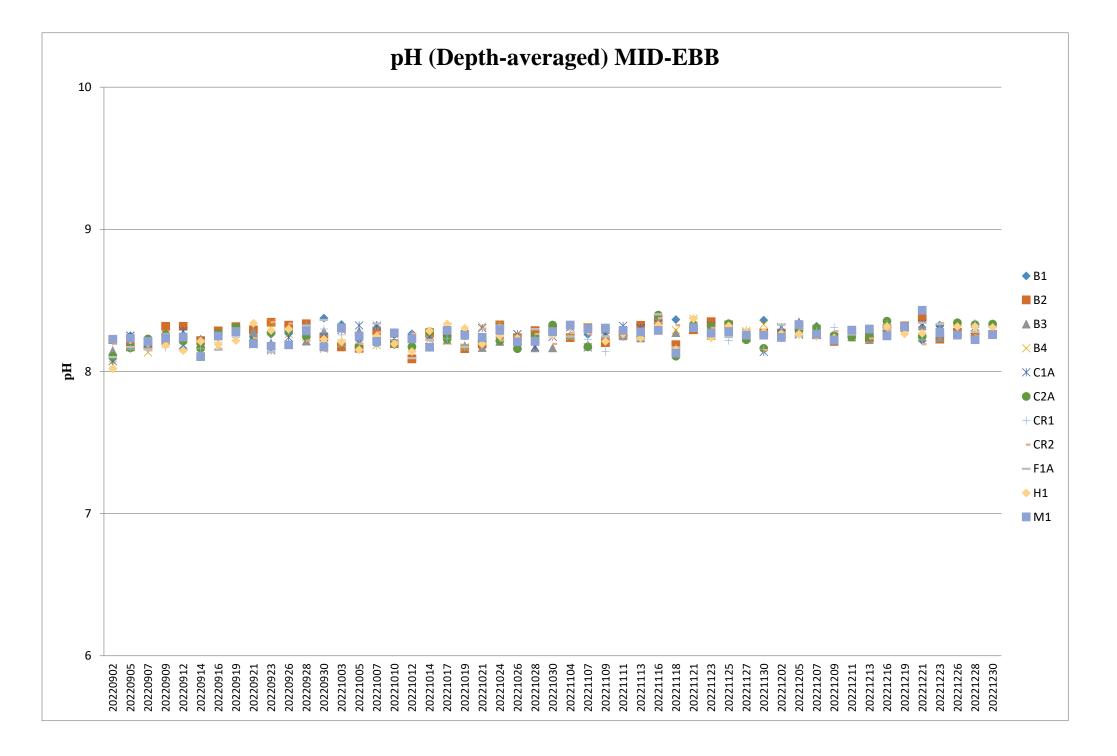


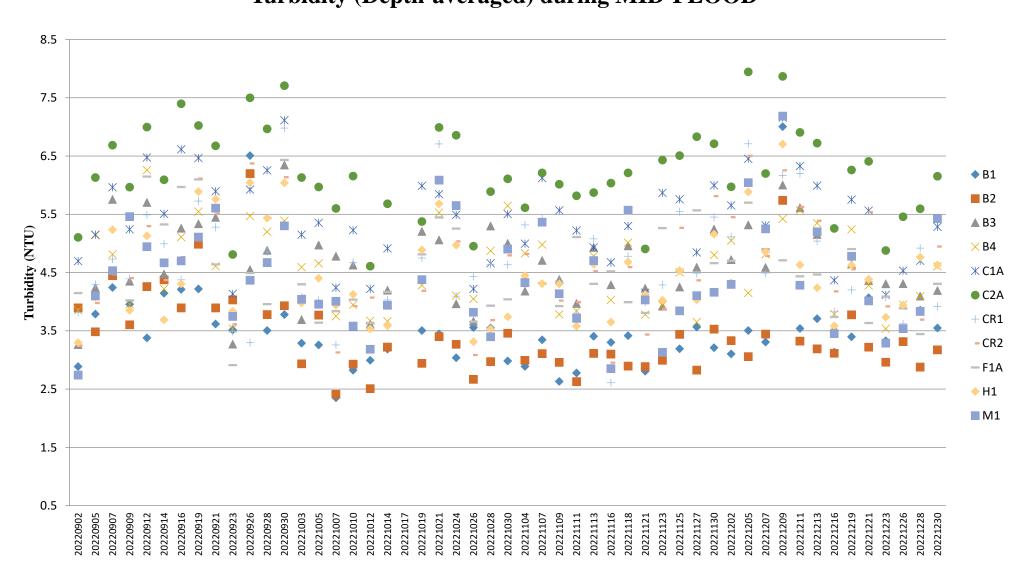
Dissolved Oxygen (Bottom) during MID-EBB



Note:

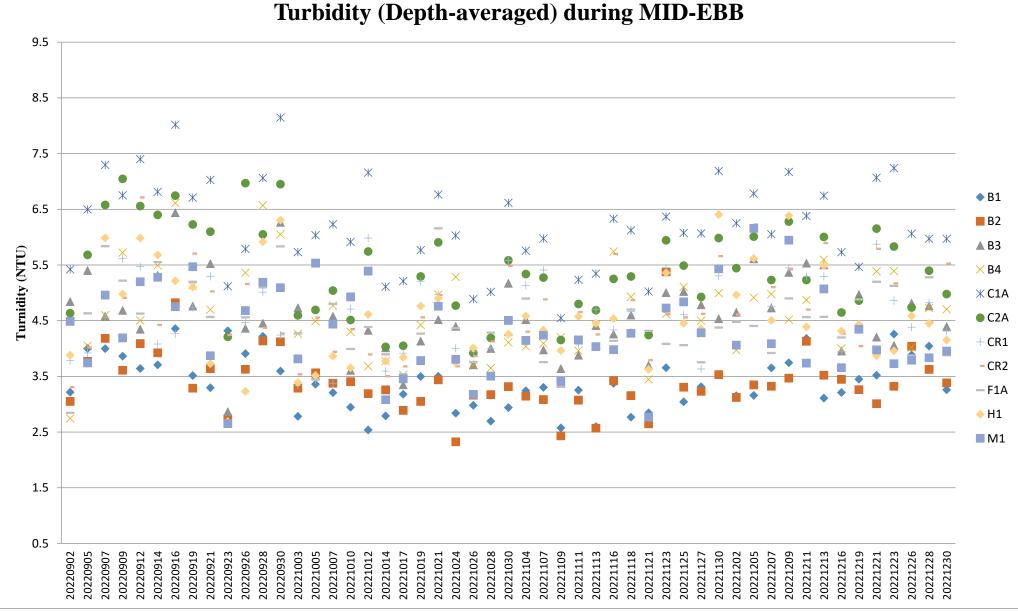


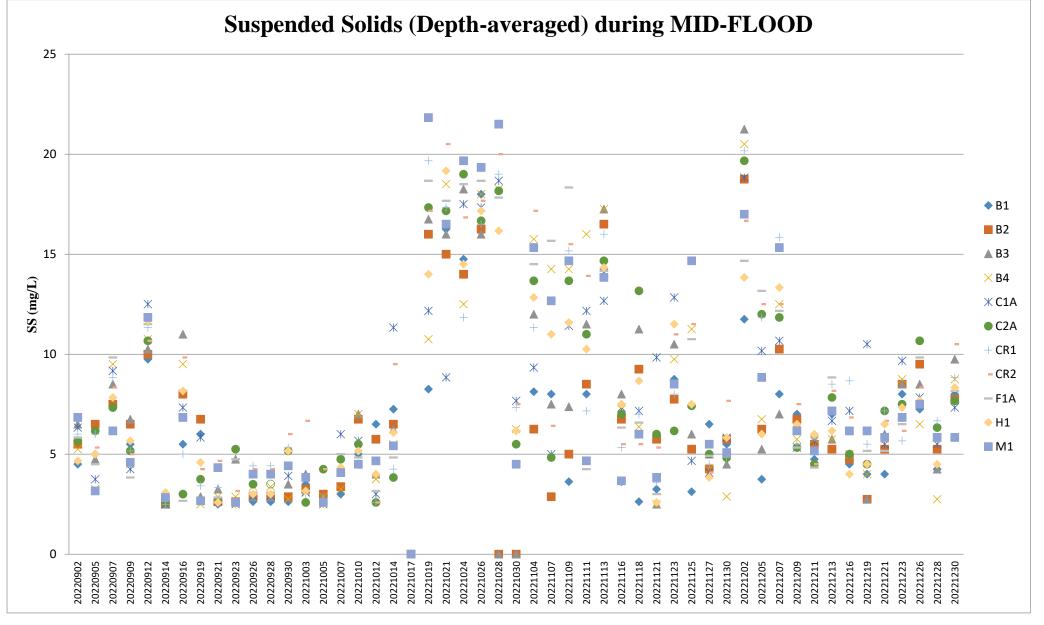


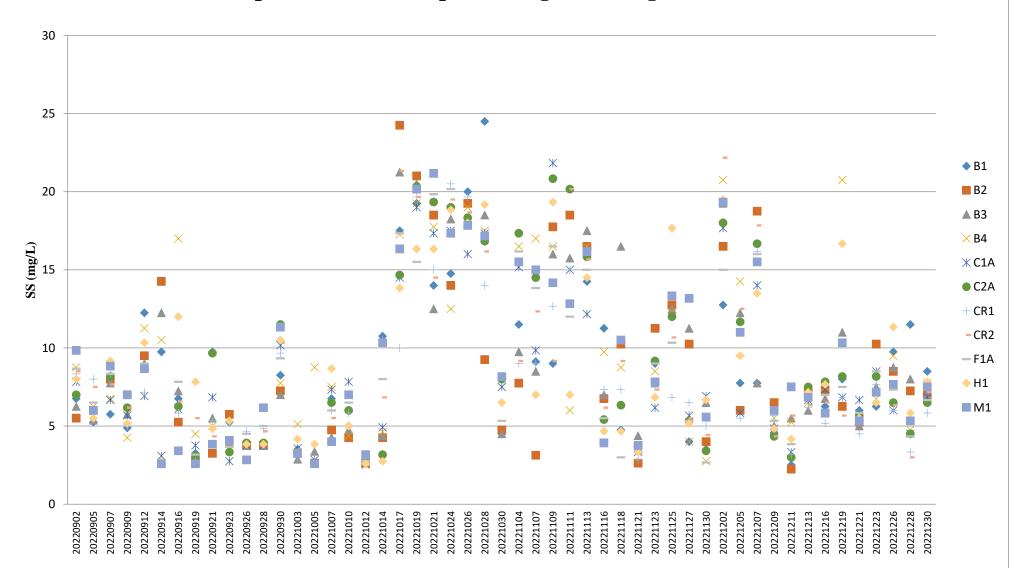


Turbidity (Depth-averaged) during MID-FLOOD

Note:

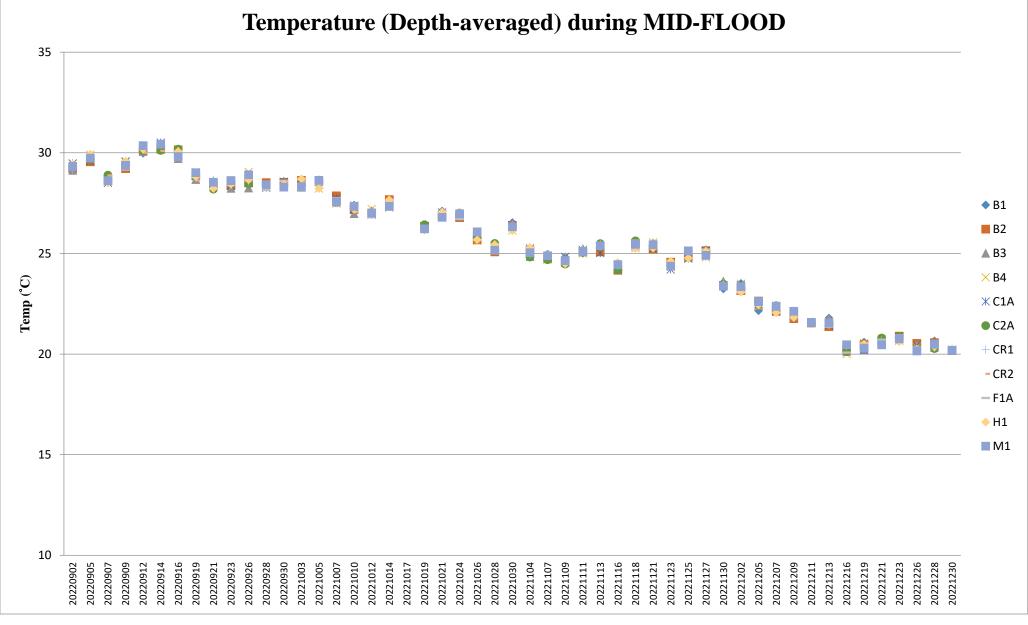






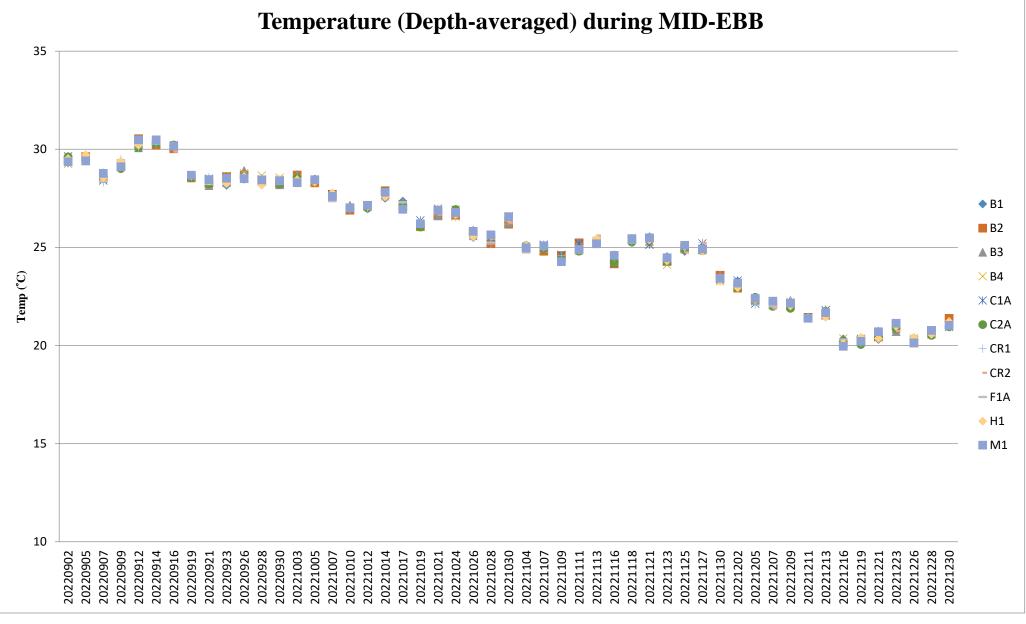
Suspended Solids (Depth-averaged) during MID-EBB

Note:



Note:

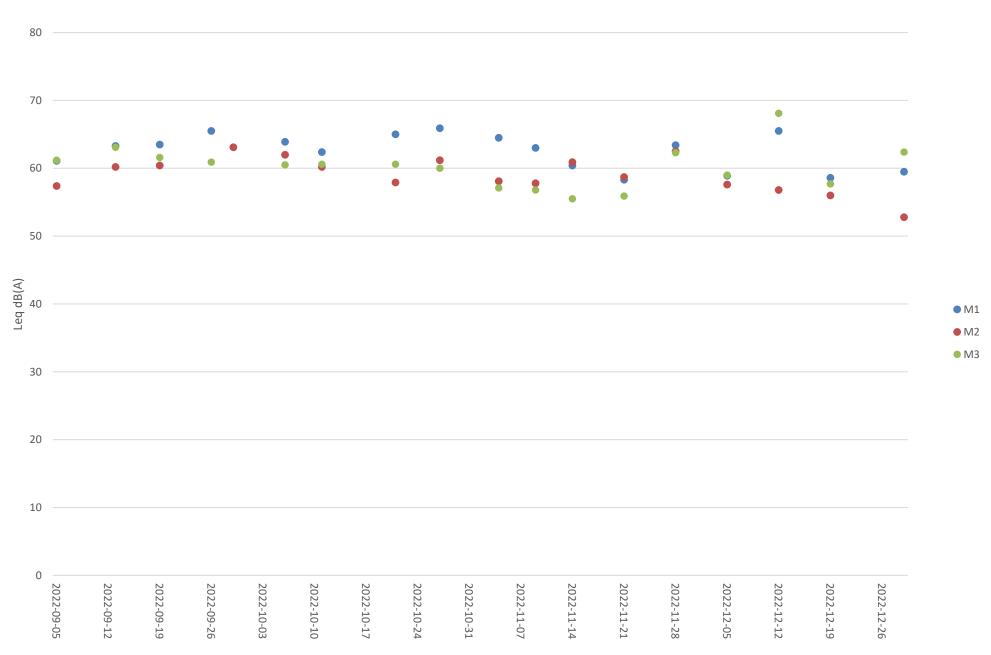
1. The Action and Limit Levels of dissolved oxygen can be referred to Table 2.2 of the quarterly EM&A report.



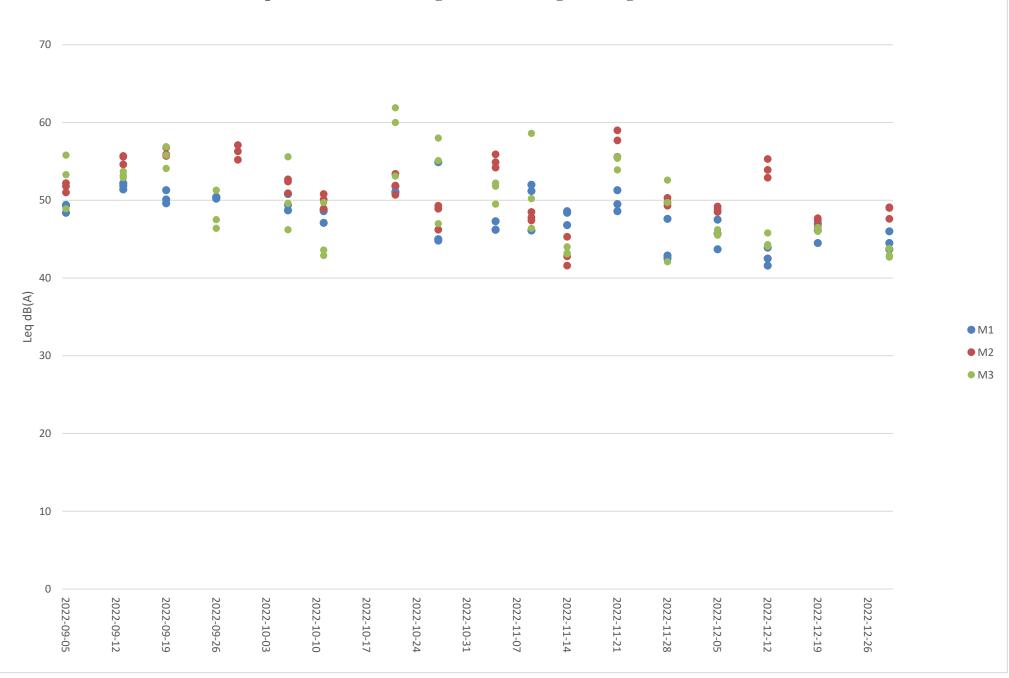
Note:

1. The Action and Limit Levels of dissolved oxygen can be referred to Table 2.2 of the quarterly EM&A report.

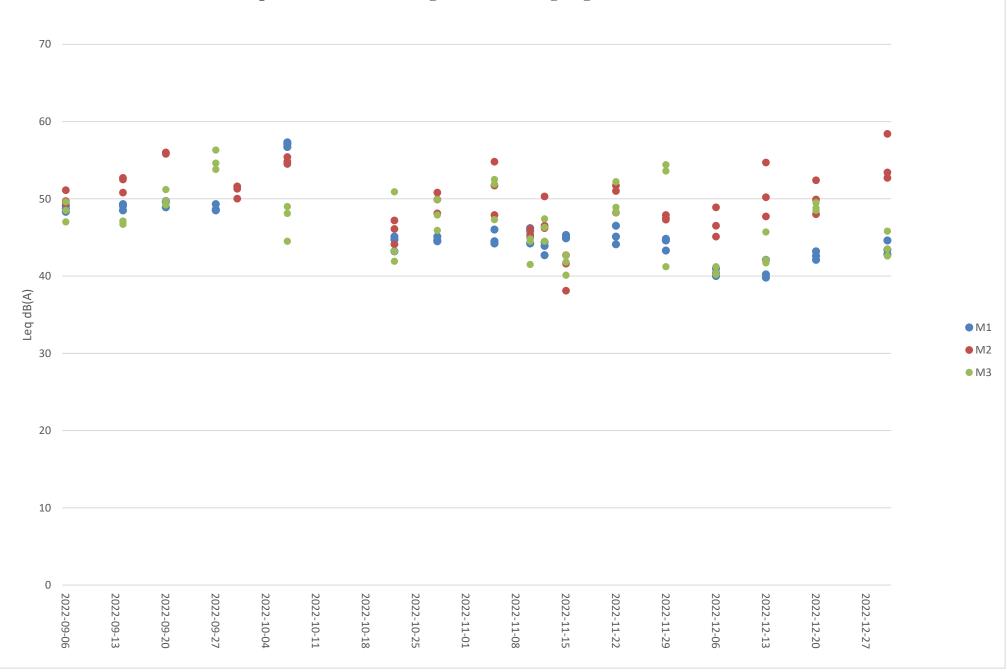
Appendix D Noise Monitoring Data Trending



Impact Noise Monitoring Results during Day Time (0700 - 1900 hours)



Additional Impact Noise Monitoring Results during Evening Time (1900 - 2300 hours)



Additional Impact Noise Monitoring Results during Night Time (2300 - 0700 hours)

Appendix E Waste Flow Table



Monthly Summary Waste Flow Table for _____

<u>2018 (year)</u>

Project : Integrated Waste Management Facilities, Phase 1

Contract No.: EP/SP/66/12

	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly							
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill (see Note 4)	Imported Fill Sand (see Note 4)	Imported Fill Public fill (see Note 4)	Imported Fill Rock (see Note 4)	Metals (see Note 5)	Paper/ cardboard packaging (see Note 5)	Plastics (see Note 2, 5)	Chemica	l Waste	Others, e.g. general refuse (see Note 3)
	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³	(in ,000m ³)	(i	$(n,000m^3)$		(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m ³)
Jan	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0065
Sep	0	0	0	0	0	2.9619	0	0	0	0	0	0	0	0
Oct	0	0	0	0	0	3.0771	0	0	0	0	0	0	0	0.0130
Nov	0	0	0	0	0	6.7871	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	59.0709	0	0	0	0	0	0.2000	0.8700	0
Total	0	0	0	0	0	71.8970	0	0	0	0	0	0.2000	0.8700	0.0195

Notes:

(1) Broken concrete for recycling into aggregates.

(2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.

(3) Use the conversion factor : 1 full load of dumping truck being equivalent to $6.5m^3$ by volume.

(4) Use the conversion factor: sand density = $1.6T/m^3$, public fill density = $1.8T/m^3$ and rock density = $2T/m^3$

(5) Materials recycled.



Monthly Summary Waste Flow Table for



2019

(year)

Project : In	roject : Integrated Waste Management Facilities, Phase 1							Contract No.: EP/SP/66/12						
	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly						
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects	Public Fill (see Note 4)	Imported Fill Sand (see Note 4)	Fill Public fill (see Note 4)	,	Metals (see Note 5)	Paper/ cardboard packaging (see Note 5)	Plastics (see Note 2, 5)	Chemica	l Waste	Others, e.g. general refuse (see Note 3)
	(in ,000m ³)	$(in,000m^3)$	$(in,000m^3)$	(in ,000m ³	(in ,000m ³)	(1	in ,000m ³)	1	(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	$(in,000 m^3)$
Jan	0	0	0	0	0	82.6139	0	0	0	0	0	0	0	0.0065
Feb	0	0	0	0	0	46.7821	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	97.1000	0	0.7552	0	0.2560	0	0	0	0
Apr	0	0	0	0	0	58.0413	0	0	0	0	0	0	0	0
May	0	0	0	0	0	14.5625	0	1.4648	0	0	0	0	0	0.0065
Jun	0	0	0	0	0	0	0	6.8421	0	0	0	0	0	0
Sub-total	0	0	0	0	0	299.0998	0	9.0621	0	0.2560	0	0	0	0.0130
Jul	0	0	0	0	0	0	0	0.4289	0	0	0	0	8.4000	0.0130
Aug	0	0	0	0	0	2.5775	0	10.5600	0	0	0	0	0	0
Sep	0	0	0	0	0	6.1081	0	8.4704	0	0.3530	0	0	0	0.0065
Oct	0	0	0	0	0	9.8875	0	7.1900	0	0	0	0	0	0
Nov	0	0	0	0	0	38.3088	0	19.3105	0	0	0	0	0	0.0195
Dec	0	0	0	0	0	54.3469	0	26.9807	0	0	0	0	0	0.0910
Total	0	0	0	0	0	410.3286	0	82.0026	0	0.6090	0	0	8.4000	0.1430

Broken concrete for recycling into aggregates. Notes: (1)

Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials. (2)

Use the conversion factor : 1 full load of dumping truck being equivalent to $6.5m^3$ by volume. (3)

Use the conversion factor: sand density = $1.6T/m^3$, public fill density = $1.8T/m^3$ and rock density = $2T/m^3$ (4)

(5) Materials recycled.



Monthly Summary Waste Flow Table for _____



2020

(year)

Project : Integrated Waste Management Facilities, Phase 1 Contract No.: EP/SP/66/12 Actual Quantities of Inert C&D Materials Generated Monthly Actual Quantities of C&D Wastes Generated Monthly Imported Imported Imported Hard Rock Paper/ Fill Fill Fill and Large Reused in Disposed as Others, e.g. general Metals cardboard Total Reused in Plastics Month Broken Public Rock Sand Public Fill refuse packaging **Chemical Waste** the other (see Note (see Note 2, Quantity Concrete fill (see Note (see Note (see Note Generated Contract Projects 5) 5) (see Note 4) (see Note 3) (see Note 4) (see Note 4) 5) 1) 4) $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in, 000m^3)$ $(in, 000m^3)$ (in ,000kg) (in ,000kg) (in ,000 kg) (in ,000kg) (in ,000L) $(in, 000 \text{ m}^3)$ 0 0 0 0 0 37.1550 25.0812 0 0 0 0 0 0.0065 Jan 0 27.7910 Feb 0 0 0 0 0 0 18.8300 0 0 0 0 0 0.0065 0 0 0 0 0 22.5669 0 26.1586 0 0 0 0 7.2000 0.0065 Mar 0 0 0 0 0 0 0 0 0 12.7800 0 10.1825 0 0.0195 Apr 0 0 0 0 0 16.1138 0 24.3740 0 0.4220 0 0 0 0.0195 May 0 0 0 0 0 31.5177 0 28.3030 0 0 0 0 0 0.0065 Jun 0 0 Sub-total 0 0 0 0 0 147.9244 132.9293 0 0.4220 0 7.2000 0.0650 0 0 0 0 0 0 34.7856 17.0606 35.1800 0 0 0 0 0.0195 Jul 65.5667 0 0 0 0 0 27.1375 27.9335 0 0 0 0 0 0 Aug 110.1328 43.5435 Sep 0 0 0 0 0 11.9813 0 0 0 0 0 0.0195 0 0 0 0 0 2.8213 131.6600 22.5415 0 0 0 0 0 0.0130 Oct 0 0 0 0 0 Nov 0 0 162.1811 44.6475 0.4090 0 0 0.4000 0.0130 174.9800 57.8380 0 0 0 Dec 0 0 0 0 0 0 0 0 0.0130 0 0 224.6501 661.5812 364.6133 0 0 0 0 0.8310 0 0 7.6000 Total 0.1430

(1) Broken concrete for recycling into aggregates.

(2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.

(3) Use the conversion factor : 1 full load of dumping truck being equivalent to $6.5m^3$ by volume.

(4) Use the conversion factor: sand density = $1.6T/m^3$, public fill density = $1.8T/m^3$ and rock density = $2T/m^3$

(5) Materials recycled.

Notes:



Monthly Summary Waste Flow Table for _____

<u>2021 (year)</u>

Project : Integrated Waste Management Facilities, Phase 1 Contract No.: EP/SP/66/12 Actual Quantities of Inert C&D Materials Generated Monthly Actual Quantities of C&D Wastes Generated Monthly Hard Rock Imported Imported Imported Paper/ and Large Fill Fill Fill Reused in Disposed as Metals Others, e.g. general Total Reused in cardboard Plastics Month Broken Public fill Sand Rock refuse Public Fill packaging Chemical Waste Quantity the other (see Note (see Note 2. Concrete (see Note (see Note (see Note (see Note 5) 5) Generated Contract Projects (see Note 4) (see Note 3) (see Note 4) 4) 4) 5) 1) $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ (in ,000 kg) (in ,000kg) (in ,000kg) (in ,000kg) $(in,000 \text{ m}^3)$ (in .000L) 0 0 0 0 0 0 198.1311 0 0 0 0 0 36.4775 0.0065 Jan 0 0 0 0 0 0 0 0 0 0 0 Feb 143.9511 20.9960 0.6305 0 0 0 0 0 0 103.1833 23.4510 0 0 0 0 0 0.0130 Mar 0 0 0 0 0 0 161.2956 0 Apr 27.2810 0 0 0 0 0.0130 0 0 0 0 0 0 0 0 0 193.3300 0 0 0.0715 May 20.5265 0 0 0 0 0 23.7825 0 0 0 0 141.5728 0 0.2440 0.0455 Jun 0 0 0 0 0 0 941.4639 152.5145 0 0.2440 0 0 0 0.7800 Sub-total 0 0 0 0 0 0 105.1083 30.6065 0 0 0 0 0 0.0195 Jul 0 0 0 0 0 0 0 11.1822 7.5180 0 0 0 0 0.0130 Aug 0 0 0 Sep 0 0 0 0 5.7575 0 0 0 0 0.6000 0.0390 0 0 0 0 0 0 0 0 0 0 0 0 6.8885 0 Oct 0 0 0 0 0 0 0 0 6.2975 0 0.1610 0 0 0.0130 Nov Dec 0 0 0 0 0 0 0 5.9235 0 0 0 0 0 0 0 0 0 Total 0 0 0 1057.7544 215.5060 0 0.4050 0 0 0.6000 0.8645

(1) Broken concrete for recycling into aggregates.

(2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.

(3) Use the conversion factor : 1 full load of dumping truck being equivalent to $6.5m^3$ by volume.

(4) Use the conversion factor: sand density = $1.6T/m^3$, public fill density = $1.8T/m^3$ and rock density = $2T/m^3$.

(5) Materials recycled.

Notes:



Monthly Summary Waste Flow Table for



2022

(year)

Project : In	ect : Integrated Waste Management Facilities, Phase 1							Contract No.: EP/SP/66/12						
	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly							
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects (see Note 4)	Disposed as Public Fill (see Note 4)	Imported Fill Sand (see Note 4)	Imported Fill Public fill (see Note 4)	Imported Fill Rock (see Note 4)	Metals (see Note 5)	Paper/ cardboard packaging (see Note 5)	Plastics (see Note 2, 5)	Chemica	l Waste	Others, e.g. general refuse (see Note 3)
	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³	$(in,000m^3)$		$(in,000m^3)$	T	(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m ³)
Jan	0	0	0	0	0	0	4.9389	2.7070	0	0.1550	0	0	0	0.0715
Feb	0	0	0	0	0	0	3.2478	4.0290	0	0	0	0.4000	0.2250	0
Mar	0	0	0	0	0	0	2.3422	2.7820	0	0	0	0	0	0.0780
Apr	0	0	0	0	0	0	18.2189	5.8100	0	0.3120	0	0	0	0.1495
May	0.0648	0	0	0	0.0648	0	16.7711	17.2320	0	0	0	0	0	0.0975
Jun	0.0037	0	0	0	0.0037	0.2115	1.1128	14.1470	36.3000	0.3890	0	0	1.7250	0.0975
Sub-total	0.0685	0	0	0	0.0685	0.2115	46.6317	46.7070	36.3000	0.8560	0	0.4000	1.9500	0.4940
Jul	25.7183	0	0	25.7183	0	0.1125	0.8333	17.5210	0	0.6400	0.0060	0	0	0.1235
Aug	13.2494	0	0	13.2494	0	0	0	24.5210	76.0300	1.8870	0	0	0	0.1170
Sep	24.9072	0	0	24.8494	0.0578	0	0	16.2815	72.0600	0.3060	0	0	0	0.1885
Oct	13.3139	0	0	13.3006	0.0133	0	0	11.8665	78.1000	0.5800	0	0	0	0.2405
Nov	26.5583	0	0	26.5583	0	0	0	7.2055	0	0	0	0	0	0.1105
Dec	29.1411	0	0	29.1411	0	0	0	3.5174	0	0	0	0	0	0.2535
Total	132.9567	0	0	132.8171	0.1396	0.3240	47.4650	127.6199	262.4900	4.2690	0.0060	0.4000	1.9500	1.5275

(1) Broken concrete for recycling into aggregates.

(2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.

(3) Use the conversion factor : 1 full load of dumping truck being equivalent to $6.5m^3$ by volume.

(4) Use the conversion factor: sand density = $1.6T/m^3$, public fill density = $1.8T/m^3$ and rock density = $2T/m^3$.

(5) Materials recycled.

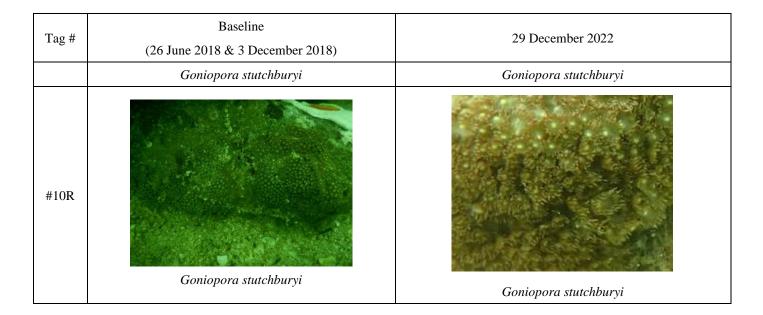
Notes:

Appendix F Photo Records for Coral Monitoring

Baseline Tag # 29 December 2022 (26 June 2018 & 3 December 2018) #1 Goniopora stutchburyi Goniopora stutchburyi #2R Goniopora stutchburyi Goniopora stutchburyi #3 Psammocora superficialis Psammocora superficialis #4 Turbinaria peltata Turbinaria peltata

Photo Plate for Tagged and Re-tagged Corals at Control Site during the 16th Quarterly Coral Monitoring during Construction Phase on 29 December 2022

Tag #	Baseline (26 June 2018 & 3 December 2018)	29 December 2022
#5R	Goniopora stutchburyi	Goniopora stutchburyi
#6	Cyphastrea serailia	Cyphastrea serailia
#7R	<i>Coscinaraea</i> sp.	<i>Coscinaraea</i> sp.
#8	Goniopora stutchburyi	Goniopora stutchburyi
#9	9	



Notes:

i. The re-tagged corals were marked as ##**R**.

Baseline Tag # 29 December 2022 (23 November 2018) #11R Cyphastrea serailia Cyphastrea serailia #12R Favites chinensis Favites chinensis #13R Turbinaria peltata Turbinaria peltata #14R Favites chinensis Favites chinensis

Photo Plate for Re-tagged Corals at Indirect Impact during the 16th Quarterly Coral Monitoring during Construction Phase on 29 December 2022

Tag #	Baseline (23 November 2018)	29 December 2022
#15R	Goniopora stutchburyi	Goniopora stutchburyi
#16R	Psammocora superficialis	Psammocora superficialis
#17R	Favites chinensis	Favites chinensis
#18R	Psammocora superficialis	Psammocora superficialis
#19R	Psammocora superficialis	Psammocora superficialis Psammocora superficialis

Tag #	Baseline (23 November 2018)	29 December 2022				
#20R	Psammocora superficialis	Psammocora superficialis				

Notes:

i. The re-tagged corals were marked as ##**R**.

Appendix G Photo Records for Marine Mammal Monitoring

Photo records of Vessel-based Line-Transect Survey Effort during the reporting period Line-transect survey during October 2022:



Line-transect survey during November 2022: NB_20221110_111756_0004_MED

10/11/2022 10/11/2022

NB_20221110_111757_0009_MED





NB_20221110_111757_0007_MED

Line-transect survey during December 2022:



Appendix H Photo Records for White-bellied Sea Eagle Monitoring

Photo Plate for 52nd Monthly WBSE monitoring



One adult WBSE staying near the nest on 27 October 2022

Photo Plate for 53rd Monthly WBSE monitoring



Photo Plate for 54th Monthly WBSE monitoring



One adult female WBSE staying in nest for incubation on 29 December 2022



One adult male WBSE recorded near the nest area on 29 December 2022

Appendix I Complaint Log

Integrated Waste Management Facilities, Phase 1

Statistical Summary of Environmental Complaints									
Reporting	Environmental Complaint Statistics								
Period	Frequency	Cumulative	Complaint Nature						
1 Oct 2022- 31 Oct 2022	0	1	N/A						
1 Nov 2022- 30 Nov 2022	0	1	N/A						
1 Dec 2022- 31 Dec 2022	0	1	N/A						

Statistical Summary of Environmental Summons **Environmental Summons Statistics** Reporting Period Frequency Cumulative Details 1 Oct 2022-0 0 N/A 31 Oct 2022 1 Nov 2022-0 0 N/A 30 Nov 2022 1 Dec 2022-0 0 N/A 31 Dec 2022

Reporting	Environmental Prosecution Statistics							
Period	Frequency	Cumulative	Details					
1 Oct 2022- 31 Oct 2022	0	0	N/A					
1 Nov 2022- 30 Nov 2022	0	0	N/A					
1 Dec 2022- 31 Dec 2022	0	0	N/A					