

Contract No. EP/SP/66/12 Integrated Waste Management Facilities, Phase 1 19th 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.19 (Period from 1 January to 31 March 2023)

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

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Revision History

В	Updated Appendix C&D	18 March 2024
Α	First Submission	21 April 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 19th 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 January 2023 to 31 March 2023.
- 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.
- A6. As confirmed with Contractor and Project Supervising Officer, no marine construction work will be carried out from March to December 2023 tentatively. An updated EM&A arrangement to propose the temporary suspension of water quality and line-transect monitoring from March to December 2023 was submitted to EPD on 21 March 2023. EPD advised no comment on the updated EM&A arrangement on 29 March 2023. The water quality and line-transect monitoring were then temporarily suspended from 30 March 2023 onward. A two-week advance notice will be made by the Contractor prior to resumption of marine construction works. The water quality monitoring and line-transection monitoring will be resumed upon the resumption of marine construction works with updated EM&A schedule within one day after receiving the notification from contractor.

1. BASIC PROJECT INFORMATION

- 1.1. The Reporting Scope
- 1.1.1 This is the 19^h Quarterly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 January 2023 to 31 March 2023.
- 1.2. Project Organization
- 1.2.2 The Project Organization structure for Construction Phase is presented in **Figure 1.1**.

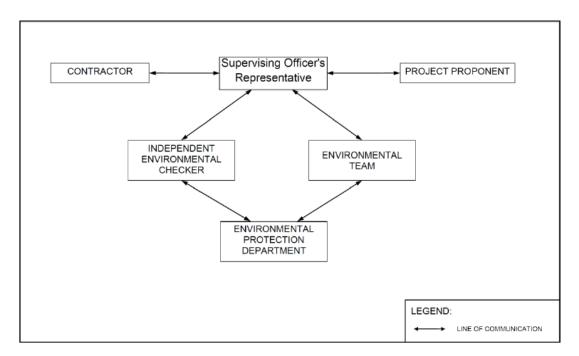


Figure 1.1 Project Organization Chart

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

Party	Position	Name	Telephone no.
Environmental Protection Department	Project Proponent	Cheng Tak-Kuen	2594-6111
Keppel Seghers – Zhen Hua Joint Venture	Project Manager	Peter Chung	2192-0603
Acuity Sustainability Consulting Limited	Environmental Team Leader	F.C. Tsang	2698-6833
ERM-Hong Kong, Limited	Independent Environmental Checker	Mandy To	2271-3000

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Acuity Sustainability Consulting Limited

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	Completed
	• 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	Completed
	• 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 Updated EM&A Manual

Parameters	Status
Water Quality	
Baseline Monitoring under	The baseline water quality monitoring result has been reported
Updated EM&A Manual	in Baseline Monitoring Report and submitted to EPD under
and Detailed Plan on DCM	FEP Condition 3.4
Impact Monitoring	As confirmed with Contractor and Project Supervising Officer,
	no marine construction work will be carried out from March to
	December 2023 tentatively. An updated EM&A arrangement
	to propose the temporary suspension of water quality and line- transect monitoring from March to December 2023 was submitted to EPD on 21 March 2023. EPD advised no comment on the updated EM&A arrangement on 29 March 2023. The water quality and line-transect monitoring were then temporarily suspended from 30 March 2023 onward. A two- week advance notice will be made by the Contractor prior to
	resumption of marine construction works. The water quality monitoring and line-transection monitoring will be resumed upon the resumption of marine construction works. ET will notify the resumption of marine construction works with updated EM&A schedule within one day after receiving the notification from contractor
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	Conducted from 11 February 2019 to 10 March 2019, had not
Monitoring	been resumed since there was no DCM related parameter
	exceeding the AL/LL.
Baseline Water Quality of	Completed over 13 August 2018 to 7 September 2018
wet season Noise	
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	On-going
Waste Monitoring Plan	
Coral	
Pre-translocation Survey	The Coral Translocation Plan was submitted and approved by
and Coral Mapping	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

Parameters	Status
Coral Survey and Re-	Re-tagging at Indirect Impact Site was conducted on 23
tagging	November and Re-tagging at Control Site was conducted on 3
	December 2018.
Post Re-tagging Coral	On-going
Quarterly Monitoring	
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	Temporarily suspended since 30 March 2023, as no marine
	construction works as defined in the approved EIA report
	(AEIAR-163/2012) and the Updated EM&A Manual was
	conducted in this reporting month.
Land-based Theodolite	30 days of theodolite surveys were started on 21 Feb 2019 and
Tracking	completed in May 2019.
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, weekly monitoring was conducted in January and
I and a g	February 2023 for incubation activity, since the incubation
	activity was stopped on 23 February 2023 and no chick was
	observed, the frequency of impact monitoring was changed to
	twice per month in March 2023. However, chick was observed
	during monitoring event on 28 March 2023, the frequency of
	impact monitoring will changed to 7-day consecutive
	monitoring.
Environmental Audit	
Site Inspection covering Measures of Air Quality,	On-going
Noise Impact, Water	
Quality, Waste,	
Ecological Quality,	
Fisheries, Landscape and Visual	
Mitigation Measures in	Installation of caisson No.19 was completed on 18 March
Marine Mammal	2021, which the reclamation area had been totally enclosed by
Watching Plan (MMWP)	permanent structure. Floating type silt curtain at marine
(initial initial initi	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	Installation of caisson No.19 was completed on 18 March
Detailed Monitoring	2021, which the reclamation area had been totally enclosed by
Programme on Finless	permanent structure. Floating type silt curtain at marine
Porpoise (DMPFP)	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	On-going
Vessel Travel Details	

Parameters	Status
Daily Site Audit and	Completed
Monitoring for Dredging	
Work	

- 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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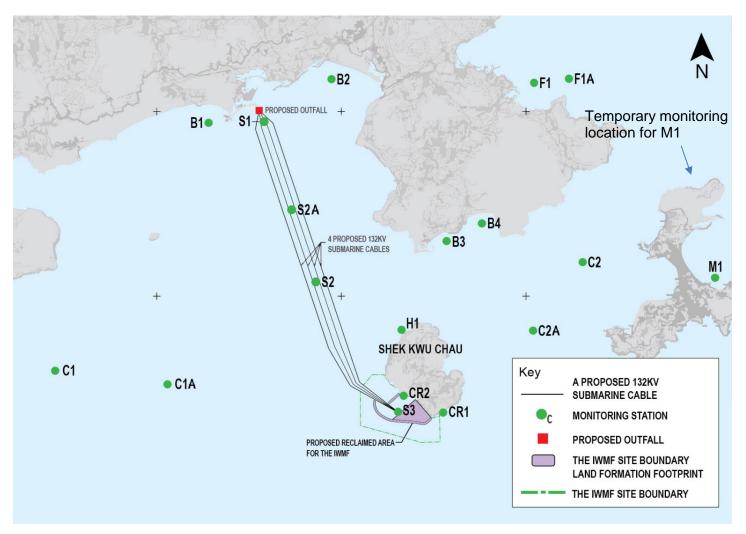


Figure 2.1 Water monitoring locations at Artificial Island near SKC

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	≤ 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 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, no water quality monitoring was conducted at S1, S2A and S3 during the reporting period. As no marine construction work will be carried out from March to December 2023 and EPD advised no comment on temporary suspension of water quality monitoring on 29 March 2023, the water quality was then temporarily suspended from 30 March 2023 onward.
- 2.4.2 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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		Parameters																				
						Disso	lved Oxy	gen (mg	g/L)													
Loc	ations	Salinity (ppt)			Surf	Surface & Middle			Bottom		рН			Turbidity (NTU)		Suspended Solids (mg/L)			Temp. (°C)			
		Jan Feb Mar		Jan Feb Mar Jan Feb M		Mar	Jan	Feb	Mar	Jan	Feb	Mar	Jan	Feb	Mar	Jan	Feb	Mar				
	Avg.	32.47	32.74	32.92	8.76	8.89	9.06	8.75	8.89	9.05	8.25	8.27	8.26	3.7	3.2	3.4	5.21	4.58	3.80	21.1	21.1	21.4
B1	Min.	30.76	31.37	29.16	8.15	8.21	8.40	8.19	8.28	8.37	8.10	8.08	8.04	2.5	2.2	2.0	2.00	2.50	2.50	20.0	20.4	19.1
	Max.	33.69	33.87	34.66	9.54	9.67	9.85	9.57	9.61	9.86	8.37	8.39	8.42	5.4	5.4	5.0	27.00	14.00	9.00	22.0	22.3	22.6
	Avg.	32.26	32.90	32.69	8.59	8.62	8.87	8.58	8.61	8.86	8.26	8.27	8.27	3.6	3.4	3.5	5.45	4.80	3.88	21.0	21.2	21.3
B2	Min.	30.43	30.92	30.11	8.19	7.99	8.21	8.21	8.02	8.27	8.07	8.10	8.05	2.6	2.4	2.2	2.00	2.50	2.50	19.8	20.4	18.8
	Max.	33.85	34.52	34.46	9.53	9.47	9.64	9.57	9.47	9.56	8.36	8.43	8.43	5.4	4.9	5.4	28.00	16.00	11.00	22.3	22.5	22.6
	Avg.	32.38	32.44	32.69	8.84	8.76	9.06	8.85	8.77	9.05	8.27	8.26	8.25	4.5	4.0	4.0	5.16	4.77	3.57	21.0	21.1	21.4
B3	Min.	31.30	30.86	29.88	8.17	8.01	8.32	8.19	7.99	8.29	8.12	8.10	8.08	3.0	3.0	2.5	2.00	2.50	2.50	19.8	20.6	18.9
	Max.	33.75	34.40	34.62	9.53	9.56	9.76	9.60	9.60	9.81	8.39	8.38	8.41	7.2	5.6	6.5	27.00	12.00	11.00	22.1	22.4	22.4
	Avg.	32.16	32.73	32.60	8.80	8.89	9.10	8.79	8.89	9.11	8.27	8.27	8.25	4.5	4.0	3.9	4.72	4.90	3.50	21.0	21.1	21.4
B4	Min.	30.30	31.51	28.59	8.16	8.15	8.26	8.20	8.20	8.13	8.11	8.18	7.99	3.1	2.8	2.3	2.00	2.50	2.50	19.8	20.2	18.9
	Max.	33.46	34.14	34.26	9.57	9.62	9.70	9.57	9.62	9.59	8.39	8.40	8.40	6.4	5.7	5.4	25.00	15.00	9.00	22.3	22.4	22.6
	Avg.	32.56	32.81	32.87	8.90	8.73	8.97	8.89	8.72	8.98	8.28	8.25	8.26	5.7	5.2	5.3	4.99	5.13	3.56	21.0	21.2	21.4
C1A	Min.	30.64	31.49	30.21	8.19	7.98	8.19	8.21	8.09	8.23	8.14	8.15	8.08	3.8	3.5	3.3	2.00	2.50	2.50	19.8	20.3	18.9
	Max.	33.83	34.32	34.62	9.73	9.65	9.83	9.54	9.55	9.71	8.40	8.42	8.42	8.3	6.6	7.0	18.00	19.00	10.00	22.0	22.5	22.6
	Avg.	32.39	32.81	32.80	8.72	8.78	8.92	8.72	8.79	8.93	8.25	8.27	8.25	5.7	5.2	5.3	5.18	5.18	3.23	21.1	21.1	21.4
C2A	Min.	30.35	31.17	28.65	8.18	8.12	8.07	8.18	8.15	8.06	8.06	8.14	8.08	3.5	3.7	3.4	2.00	2.50	2.50	20.1	20.4	18.9
	Max.	33.72	34.42	34.55	9.50	9.64	9.78	9.49	9.62	9.81	8.39	8.39	8.43	9.3	7.5	7.4	14.00	18.00	8.00	22.2	22.5	22.7
	Avg.	32.28	32.60	32.97	8.74	8.88	8.96	8.74	8.89	8.94	8.26	8.28	8.26	4.7	3.9	4.1	5.53	4.69	3.77	21.0	21.1	21.4
CR1	Min.	30.93	30.97	29.00	8.06	8.19	7.94	8.09	8.18	7.94	8.14	8.08	8.03	3.3	2.1	2.6	2.00	2.50	2.50	19.9	20.2	19.0
	Max.	33.70	33.68	34.77	9.59	9.53	9.80	9.50	9.48	9.78	8.37	8.41	8.42	7.2	6.2	5.7	25.00	16.00	10.00	22.2	22.5	22.8
	Avg.	32.42	32.64	32.66	8.70	8.68	9.06	8.70	8.69	9.05	8.27	8.28	8.28	4.7	3.7	4.1	5.57	4.80	3.54	21.0	21.1	21.4
CR2	Min.	30.89	31.14	29.43	8.18	7.89	8.27	8.15	7.92	8.30	8.12	8.15	8.13	3.0	2.4	2.3	2.00	2.50	2.50	19.8	20.3	19.0
	Max.	33.46	34.25	34.60	9.54	9.55	10.10	9.39	9.62	9.85	8.40	8.43	8.42	6.9	5.7	6.2	23.00	18.00	8.00	22.0	22.3	22.6
	Avg.	32.28	32.71	32.69	8.97	8.88	9.15	8.99	8.88	9.16	8.26	8.29	8.26	4.4	3.7	3.7	4.96	5.00	3.48	21.0	21.2	21.4
F1A	Min.	30.49	31.24	29.47	8.26	7.88	8.27	8.27	7.96	8.29	8.10	8.06	8.06	2.9	2.1	2.3	2.00	2.50	2.50	19.7	20.6	18.9
	Max.	33.83	34.43	34.60	9.68	9.71	9.87	9.61	9.59	9.88	8.41	8.44	8.44	7.4	5.4	5.5	29.00	14.00	11.00	22.3	22.4	22.6
H1	Avg.	32.31	32.60	32.80	8.94	8.71	8.82	8.95	8.70	8.83	8.26	8.27	8.25	4.3	3.8	3.7	5.58	5.07	3.31	21.0	21.1	21.4
	Min.	30.70	30.96	28.72	8.24	7.98	8.33	8.25	8.06	8.31	8.07	8.09	8.02	2.7	2.1	2.2	2.00	2.50	2.50	19.8	20.4	18.9

Table 2.4 Summary of Regular Impact Water Quality Monitoring Results

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			Parameters																			
					Dissolved Oxygen (mg/L)																	
Locations		Salinity (ppt)		Surface & Middle		Bottom		рН		Turbidity (NTU)		Suspended Solids (mg/L)		Temp. (°C))						
Loc	ations	Jan	Feb	Mar	Jan	Feb	Mar	Jan	Feb	Mar	Jan	Feb	Mar	Jan	Feb	Mar	Jan	Feb	Mar	Jan	Feb	Mar
	Max.	33.80	33.99	34.30	9.58	9.52	9.79	9.59	9.43	9.68	8.39	8.41	8.43	7.2	5.2	5.6	27.00	14.00	8.00	22.0	22.4	22.5
	Avg.	32.32	32.88	32.86	8.97	8.79	8.88	8.96	8.80	8.88	8.28	8.28	8.27	4.4	4.0	3.6	5.85	5.27	3.40	21.0	21.1	21.4
M1	Min.	30.47	31.64	28.83	8.14	8.09	8.25	8.18	8.09	8.28	8.16	8.16	8.10	2.8	2.9	2.2	2.00	2.50	2.50	19.9	20.5	19.1
	Max.	34.01	34.07	34.55	9.68	9.54	9.48	9.61	9.45	9.47	8.37	8.37	8.43	8.3	5.8	5.6	32.00	14.00	8.00	22.1	22.2	22.5

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.

ii. As no marine construction work will be carried out from March to December 2023 and EPD advised no comment on temporary suspension of water quality monitoring on 29 March 2023, the water quality was then temporarily suspended from 30 March 2023 onward.

- 2.4.3 All of the monitoring results for temperature, DO and turbidity obtained in the reporting period complied with their corresponding Action and Limit levels. Sixteen (16) of the general water quality monitoring results of SS had exceeded Action Level during the reporting period, while Sixteen (16) 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**.
- 2.4.4 No major pollution source which might affect the results was observed during the impact monitoring.
- 2.4.5 Details of the exceedance are presented in **Section 8**.
- 2.4.6 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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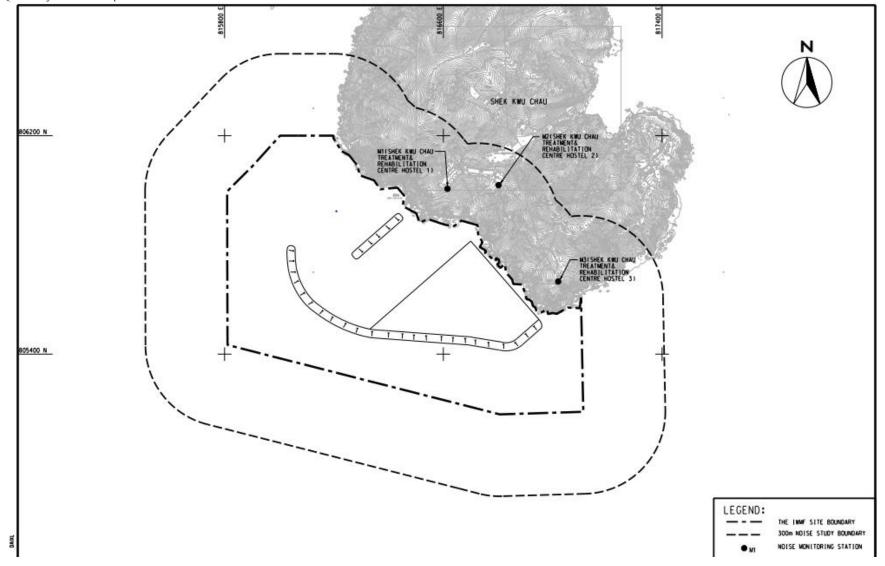


Figure 3.1 Noise monitoring locations at SKC

- 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**.

Table 3.3 Action and Limit Levels for Noise	per Updated EM&A Manual
---------------------------------------------	-------------------------

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

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)

Location		Noise in dB(A)													
	Ra	nge of L _{eq 30}	min	Ra	nge of L10 30	min	Range of L90 30min								
	Jan	Feb	Mar	Jan	Feb	Mar	Jan	Feb	Mar						
M1	48.3 -	59.0 -	58.7 –	50.7 -	61.7 –	60.6 -	45.4 -	54.7 –	55.4 -						
	62.4	64.5	61.9	65.2	67.2	64.2	56.8	58.2	58.6						
140	50.0 -	56.0 -	56.7 –	51.6 -	58.7 –	58.5 –	47.5 –	53.0 -	53.2 -						
M2	58.0	58.6	57.5	61.4	61.5	59.1	53.9	55.1	55.2						
M2	48.7 –	55.5 –	54.6 -	50.6 -	59.0 -	56.6 -	44.9 -	51.3 -	50.4 -						
M3	65.6	58.9	59.2	70.9	63.0	63.6	54.9	53.4	53.0						

- 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.

				N	oise in dB(A	A)				
Location	Ra	nge of L _{eq 5}	imin	Ra	nge of L ₁₀₅	imin	Range of L _{90 5min}			
	Jan	Feb	Mar	Jan	Feb	Mar	Jan	Feb	Mar	
M1	39.3 –	42.2 -	42.6 -	40.9 -	42.2 -	44.0 -	38.1 –	38.4 -	40.8 -	
	46.5	62.0	51.5	49.1	64.7	53.6	43.1	53.5	49.5	
1/2	45.4 -	45.6 -	49.4 –	46.0 -	47.1 –	50.8 -	43.4 -	44.3 –	47.9 –	
M2	50.7	58.0	53.7	54.9	60.8	54.2	48.5	53.2	52.1	
M2	40.4 -	43.2 -	40.6 -	40.8 -	43.7 –	41.8 -	38.4 -	41.1 -	39.1 –	
M3	50.5	50.0	49.0	53.9	56.0	50.2	43.0	47.7	47.8	

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	inge of Leq 5	min	Ra	nge of L10 5	imin	Range of L _{90 5min}			
	Jan	Feb	Mar	Jan	Feb	Mar	Jan	Feb	Mar	
N/1	36.3 -	35.1 -	39.7 –	37.2 -	35.8 -	40.9 -	35.2 -	34.3 -	37.8 -	
M1	43.1	46.5	51.8	45.6	48.6	54.1	39.8	44.3	50.1	
MO	42.9 -	43.7 -	48.6 -	43.5 -	44.2 -	49.0 -	42.4 -	43.3 -	47.3 –	
M2	51.8	56.3	51.3	53.6	59.4	52.6	49.4	50.4	50.6	
	36.4 -	39.2 -	39.5 –	37.2 -	40.0 -	40.2 -	35.3 -	35.3 -	38.8 -	
M3	49.4	52.0	48.1	57.6	54.0	49.3	45.9	48.1	47.5	

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, 73,502.3m³ C&D material was generated on site in the reporting period and disposed as public fill. 315.0kg of paper was generated on site and collected by registered recycling collector. 11,150.1kg of metal waste was collected by registered recycling collector. 0.7kg of plastics was collected by registered recycling collector. No chemical waste was collected by the licensed chemical waste collector. 370.5m³ of other types of wastes (e.g. general refuse) were generated on site and disposed of at Landfill. 4,156.0m³ 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 Period	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill Sand Public Fill Roc	ll Rock	Metals	Paper / Plastics cardboard packaging (see Note 2)		Chemica	Chemical Waste		
	(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)	3) (in ,000m ³)
Jan 2023	24.6728	0	0	24.6728	0	0	0	1.3545	0	0.3150	0	0	0	0.1365
Feb 2023	26.7206	0	0	26.7206	0	0	0	1.8990	11.1501	0	0.0007	0	0	0.1235
Mar 2023	22.1089	0	0	22.1089	0	0	0	0.9025	0	0	0	0	0	0.1105

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.

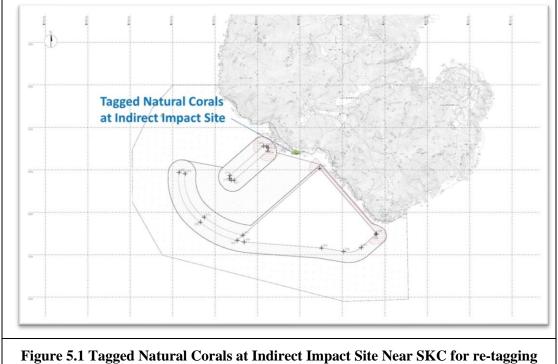
3. Use the conversion factor: 1 full load of dumping truck being equivalent to 6.5 m^3 by volume.

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 17th quarterly coral monitoring during construction phase at both Indirect Impact Site and Control Site was conducted on 28 March 2023 and the weather condition was summarized in **Table 5.6**.

Table 5.6 Weather Condition for the 17th Quarterly Coral Monitoring during Construction Phase at both Indirect Impact Site and Control Site

Date	Condition	Average Underwater Visibility
28 March 2023	 Northeast wind force 3 to 4 Mainly cloudy with one or two rain patches 	Less than 10 cm

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Coral #	Species	Size (cm) – Max.	Condition	Mortali	ty (%)	Bleachii	ng (%)	Sediment (%)		
	Species	Diameter	Condition	Baseline (26 Jun 2018 & 3 Dec 2018)	28 Mar 2023	Baseline (26 Jun 2018 & 3 Dec 2018)	28 Mar 2023	Baseline (26 Jun 2018 & 3 Dec 2018)	28 Mar 2023	
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	Coscinaraea 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 17th Quarterly Coral Monitoring (28 March 2023) during 55th to 57th Monthly Construction Phase Monitoring

Notes:

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

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1 a	Monitoring (28 March 2023) during 55 th to 57 th Monthly Construction Phase Monitoring									
Coral #	Species	Size (cm) – Max. Diameter	Condition	Mortality (%)		Bleach	ing (%)	Sedime	nt (%)	
		Diameter				Bacalina		Basalina		

Table 5.8 Sizes, Condition, Mortality, Bleaching and Sediment of 10 Natural Coral Colonies at Indirect Impact Site of 17th Ouarterly Coral

Coral #	Species	Size (cm) – Max. Diameter	Condition	Mortality (%)		Bleaching (%)		Sediment (%)	
		Diameter		Baseline (23 Nov 2018)	28 Mar 2023	Baseline (23 Nov 2018)	28 Mar 2023	Baseline (23 Nov 2018)	28 Mar 2023
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

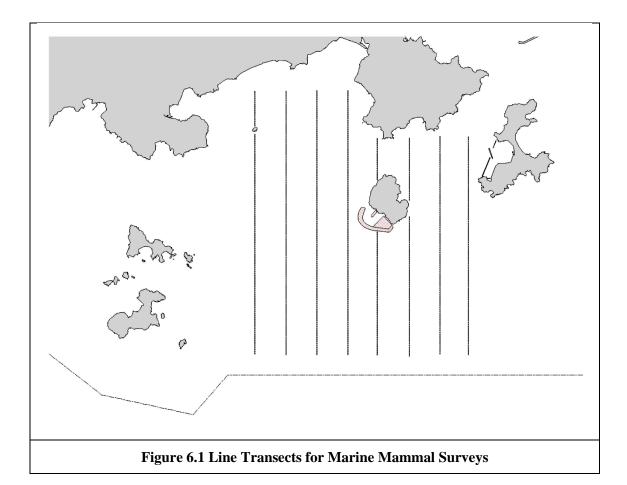
Notes:

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

- 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 March 2023.
- 5.4.4 No sediment, bleaching or increased mortality in the general condition of coral colonies were observed during the 17th 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.

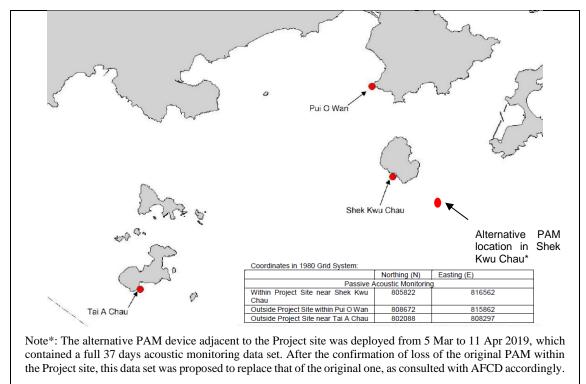


Figure 6.2 Locations of Passive Acoustic Monitoring

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.

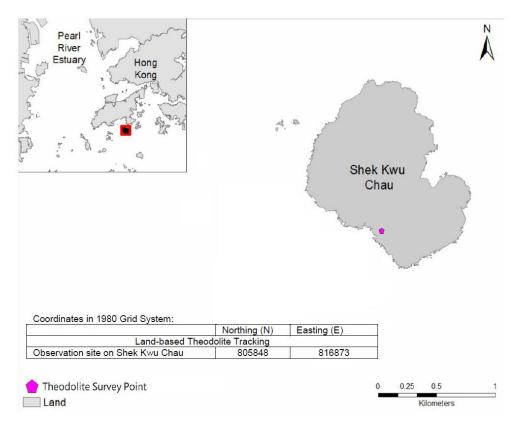


Figure 6.3 Locations of Land-based Theodolite Tracking

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).

Season	Months	Survey Period
Peak Season	December, January, February,	30 days during the peak months
	March, April or May	of porpoise occurrence in South

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

Lantau waters

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 Six monthly surveys were conducted during the reporting period. As this covered the designated peak season (December May), total of six surveys were conducted from January to March 2023. A total on effort (transects only) survey length of 240.7 km was completed, 222.8 km at Beau fort Sea State 2 or better (Table 6.3). Twenty-two (22) on-effort finless porpoise sighting and three (3) 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**	
11 Ionuomy	SEL	1	11.0		SEAMAD	Р	
11 January 2023		2	17.7	WINTER	SEAMAR HK		
2023		3	11.0				
17 January		1	20.8		SEAMAR		
17 January 2023	SEL	2	19.4	WINTER	SEAMAR HK	Р	
2025		3	0.1		ПК		
10 February	SEL	0	2	WINITED	SEAMAR	Р	
2023		1	38	WINTER	HK	Г	
17 5 1	SEL	1	18.8	WINTER	SEAMAR		
17 February		2	20.9			Р	
2023		3	0.8		HK		
	SEL	1	7.9				
17 March		2	26	CDDING	SEAMAR	D	
2023		3	5.2	SPRING	HK	Р	
		4	0.8				
23 March	rch CEI	1	16.7	CDDING	SEAMAR	Р	
2023	SEL	2	23.6	SPRING	HK	ľ	

*

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 January 2023 to March 2023 of	
Vessel-based Line-transect Survey Effort	

Date	Species	Sighting No.	Time	Group Size	PSD	Behaviour	Lat.	Long.	Area	Effort	Season
11 Jan 2023	Finless Porpoise	132	12:48	2	60	Travelling	22.18372	113.9546	SEL	On	WINTER
11 Jan 2023	Finless Porpoise	133	13:03	4	13	Feeding	22.16995	113.9449	SEL	On	WINTER
17 Jan 2023	Finless Porpoise	134	11:59	3	51	Feeding	22.21728	113.9733	SEL	On	WINTER
10 Feb 2023	Finless Porpoise	135	10:53	4	247	Travelling	22.17284	113.9441	SEL	On	WINTER
10 Feb 2023	Finless Porpoise	136	10:59	5	109	Travelling	22.16839	113.9442	SEL	On	WINTER
10 Feb 2023	Finless Porpoise	137	11:43	8	27	Travelling	22.19672	113.9641	SEL	On	WINTER
10 Feb 2023	Finless Porpoise	138	12:21	2	13	Travelling	22.21071	113.9738	SEL	On	WINTER
17 Feb 2023	Finless Porpoise	139	10:29	1	250	Surface Active	22.19913	114.0126	SEL	On	WINTER
17 Feb 2023	Finless Porpoise	140	10:58	1	74	Unknow	22.17979	114.0026	SEL	On	WINTER

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Date	Species	Sighting No.	Time	Group Size	PSD	Behaviour	Lat.	Long.	Area	Effort	Season
17 Feb 2023	Finless Porpoise	141	11:11	2	165	Unknow	22.17046	113.9932	SEL	On	WINTER
17 Feb 2023	Finless Porpoise	142	11:51	2	58	Travelling	22.17926	113.9835	SEL	On	WINTER
17 Feb 2023	Finless Porpoise	143	12:13	2	62	Travelling	22.19617	113.9736	SEL	On	WINTER
17 Feb 2023	Finless Porpoise	144	12:40	1	252	Other	22.19199	113.9643	SEL	On	WINTER
17 Feb 2023	Finless Porpoise	145	12:42	1	166	Other	22.188	113.9641	SEL	On	WINTER
17 Feb 2023	Finless Porpoise	146	12:50	1	5	Unknow	22.16879	113.9641	SEL	On	WINTER
17 Feb 2023	Finless Porpoise	147	12:57	2	103	Feeding	22.17219	113.9541	SEL	On	WINTER
17 Feb 2023	Finless Porpoise	148	13:02	3	0	Unknow	22.18359	113.9542	SEL	On	WINTER
17 Feb 2023	Finless Porpoise	149	13:35	2	69	Unknow	22.18309	113.9443	SEL	On	WINTER
17 Feb 2023	Finless Porpoise	150	13:37	1	0	Unknow	22.17848	113.9443	SEL	On	WINTER
17 Feb 2023	Finless Porpoise	151	13:41	1	94	Unknow	22.16828	113.9451	SEL	On	WINTER
17 Feb 2023	Finless Porpoise	152	13:43	2	N/A	Unknow	22.16583	113.9466	SEL	Opp	WINTER
17 Feb 2023	Finless Porpoise	153	13:50	4	N/A	Multiple Behaviour	22.17307	113.9527	SEL	Opp	WINTER
17 Feb 2023	Finless Porpoise	154	14:14	4	N/A	Travelling	22.19598	113.9748	SEL	Opp	WINTER
17 Mar 2023	Finless Porpoise	155	11:52	2	58	Travelling	22.17284	113.9441	SEL	On	SPRING
23 Mar 2023	Finless Porpoise	156	13:57	3	17	Travelling	22.16839	113.9442	SEL	On	SPRING

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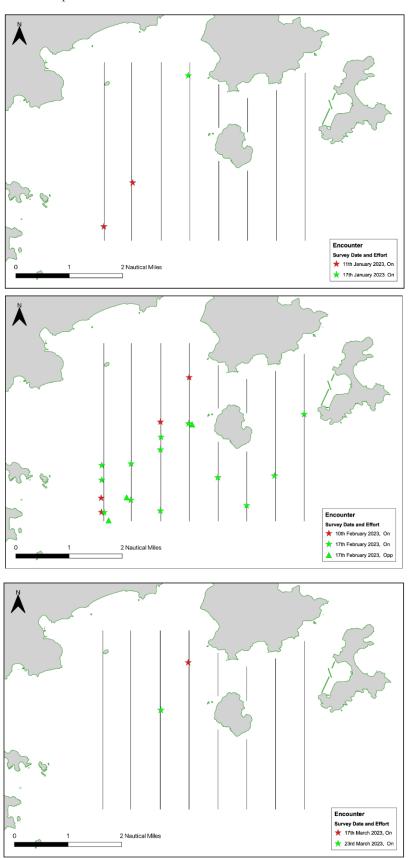


Figure 6.4 Location of sightings recorded during January to March 2023 Vesselbased Line-transect Survey

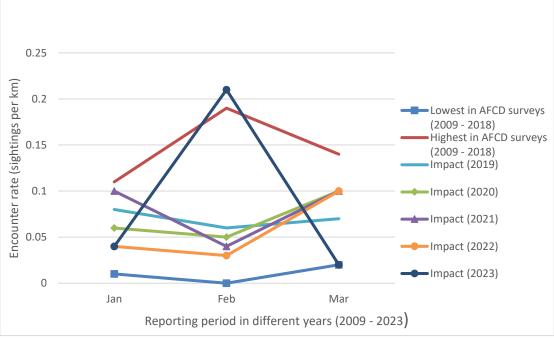


Figure 6.5 Plot of encounter rate during January to March in 2009 – 2023 from different surveys

- 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 January, February and March 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 2018 (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 January, February and March 2023 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 January to March between 2009 and 2018 indicate that there are fluctuations between the number of sightings usually recorded. Given the similar survey conditions and the encounter rate recorded for porpoise in the project area during the reporting period, the encounter rate for January to March 2023 were between 0.02 sighting km⁻¹ and 0.21 sighting km⁻¹. For January 2023, the encounter rate of 0.04 sightings km⁻¹ (1.5 sightings 40 km⁻¹) is more than double that recorded for the EIA but lower than the average rate recorded for AFCD monitoring prior to project commencement. The February 2023 encounter rate of 8.4 sightings per 40km is the highest ever recorded. The March 2023 encounter rate of 1.0 sightings per 40km is below the average recorded for this month by the AFCD Long term monitoring programme.
- 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	DPM /Day	% False Positive DPM	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	DPD % Days	Total DPM	DPM /Day	% False Positive DPM	Time Lost %
Shek Kwu Chau	IWMF_BU_20190305_01	2019/03/05	2019/04/11	37.91	100	4740	124.8	0.0	0
Tai A Chau	IWMF_20190411_02	2019/04/11	2019/05/23	41.94	100	7725	179.7	0.0	0
Pui O Wan	IWMF_20190411_01	2019/04/11	2019/05/23	42.02	100	23986	557.8	0.0	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)
5 January 2023	Northeast wind force 4 to 5Sunny Day	18
12 January 2023	Northeast wind force 4 to 5Sunny Day	21
19 January 2023	North wind force 4 to 5Sunny Day	17
26 January 2023	East wind force 3 to 4Sunny Day	18
02 February 2023	North wind force 4 to 5Sunny Day	21
09 February 2023	North wind force 5Sunny Day	20
16 February 2023	Northeast wind force 4 to 5Sunny Day	19
23 February 2023	Northeast wind force 5 to 6Sunny Day	22
15 March 2023	North wind force 4 to 5Sunny Day	24
28 March 2023	 Northeast wind force 3 to 4 Mainly cloudy with one or two rain patches 	26

 Table 7.1 Weather Conditions during the WBSE Monitoring (Monthly)

- 7.2.2 Two adult WBSEs were recorded near Shek Kwu Chau area in January, February and March 2023. One chick was recorded during the monitoring event on 28 March 2023. No abnormal behaviours of the adults and chick were recorded during January, February and March 2023 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. Weekly monitoring was conducted in January and February 2023. As the incubation was stopped on 23 February 2023 and no chick was recorded, a twice per month construction phase monitoring was continued in March 2023.
- 7.2.4 However, one chick was recorded during the monitoring event on 28 March 2023, a 7day consecutive monitoring was carried out starting from 29 March 2023 to monitor their behaviour of the WBSE and their responses to construction disturbance. The result of 7-day consecutive monitoring will be documented in 58th Monthly EM&A report and 20th Quarterly EM&A report.
- 7.2.5 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.
- 7.2.6 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

- 7.2.7 No invasion of other fauna species was recorded and no sign of using the construction site as a foraging ground was recorded as well.
- 7.2.8 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 January to March 2023, sixteen (16) of the general water quality monitoring results of SS had exceeded Action Level during the reporting period, while sixteen (16) 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;
 - Non-road Mobile Machinery (NRMM) label was not displayed properly and faded NRMM label should be replaced;
 - Insufficient dust suppression measure implemented at main haul road;
 - Wastewater was not treated before discharge; and
 - General waste was not stored inside the enclosed rubbish bin
- 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 19th Quarterly Environmental Monitoring and Audit (EM&A) Report summarizes the EM&A works undertaken during the period from 1 January 2023 to 31 March 2023 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 at main haul road, proper NRMM labelling and proper wastewater handling.
- 10.5 EPD had no comment on the updated EM&A arrangement regarding the temporary suspension of water quality and line-transect monitoring on 29 March 2023. The water quality and line-transect monitoring were then temporarily suspended from 30 March 2023 onward. The water quality monitoring and line-transection monitoring will be resumed upon the resumption of marine construction works.
- 10.6 No notification of summons or prosecution was received since commencement of the Contract.
- 10.7 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

01-1010Date of Commence01-1015(3)(M12)Original Substantial01-1020Extended SubstantialExtension of Time GrantedExtension of time granted01-1015-1(3)(M12)Extension of time granted01-1030Commencement of01-1030Issue Certificate of thePlanned Completion DatesOrid Connection Ag01-1030(5a)Grid Connection Ag01-1050Export Power to Grid01-1050Issuance of FS Cert01-1060Issuance of FS Cert01-1080Commencement of01-1090Completion of Civil01-1010Physical Completion01-1030Physical Completion01-1030Physical Completion01-1030Physical Completion01-1030Physical Completion01-1030Physical Completion01-1030Planned Substantial	e of Acceptance of Tender ment of the Design and the Works I Completion of the Works al Completion of The Works al Completion of The Works ranted (*Claim No.9 excluded) Operation Completion of the Works (56 days after Substantial Completion) reem ent (GCA) regization to IWMF Substation Id tificate Provision for Transmission C 1.3.4.11 System Commissioning Test 4.11 System Commissioning Test 4.11 System Commissioning Test 4.11 System Commissioning Test 4.11 System Commissioning Test Works al Completion of the Works Days for Installation, T&C of CCTV System and Onshore Power System at Portio ion 1 ion 1 ion 1 ion 1 ion 1 ion 1 ion 3 ion 4 ion 5 ion 6 ion 7	Original Duration 3054 3054 2844 2788 200 0 0 0 348 348 348 0 348 0 348 0 348 0 348 0 348 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 </th <th>1130 1031 404 348 0 0 0 348 348 348 56 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</th> <th>22-Nov-17 A 22-Nov-17 A 22-Nov-17 A 22-Nov-17 A 100% 22-Nov-17 A 100% 15-Dec-17 A 0% 27-Jul-24 0% 27-Jul-24 11-Jul-25 30-Sep-23 0% 30-Sep-23 0% 11-Jul-25 0% 12-Apr-25 0% 100% 100% 15-Dec-17 A</th> <th>V 27-Jul-24* 10-Jul-25* 10-Jul-25 10-Jul-25 04-Sep-25* 04-Sep-25* 02-Apr-26 31-Oct-23* 31-Oct-24* 12-Jan-25 02-Apr-26 31-Oct-24* 12-Jan-25 02-Sep-23* 28-Apr-25 02-Apr-26* 13-Sep-25 04-Oct-25 02-Apr-26* 15-Dec-17 A 15-Dec-17 A 15-Dec-17 A</th> <th>27-Jul-24 10 27-Jul-24 10 11-Jul-25 04 30-Sep-23 06 30-Sep-23 06 11-Jul-25 30 30-Sep-23 06 10-30-25 30 11-Jul-25 30 30-Sep-23 06 11-Jul-25 30 11-Jul-25 30</th> <th>16-Jan-26 0-Jul-25 0-Jul-25 0-Jul-25 0-Jul-25 0-Jul-25 0-Jul-25 14-Sep-25 14-Sep-25 14-Sep-25 16-Jan-26 10-Oct-23 10-Oct-24 11-Oct-24 5-Jan-25 9-Jun-25 9-Jun-25 0-Jul-25 9-Jun-25 0-Jul-25</th> <th>86 86 0 0 0 0 0 0 0 0 0 0 0 0 0</th> <th>Feb 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63</th> <th></th> <th></th> <th></th> <th></th> <th></th>	1130 1031 404 348 0 0 0 348 348 348 56 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22-Nov-17 A 22-Nov-17 A 22-Nov-17 A 22-Nov-17 A 100% 22-Nov-17 A 100% 15-Dec-17 A 0% 27-Jul-24 0% 27-Jul-24 11-Jul-25 30-Sep-23 0% 30-Sep-23 0% 11-Jul-25 0% 12-Apr-25 0% 100% 100% 15-Dec-17 A	V 27-Jul-24* 10-Jul-25* 10-Jul-25 10-Jul-25 04-Sep-25* 04-Sep-25* 02-Apr-26 31-Oct-23* 31-Oct-24* 12-Jan-25 02-Apr-26 31-Oct-24* 12-Jan-25 02-Sep-23* 28-Apr-25 02-Apr-26* 13-Sep-25 04-Oct-25 02-Apr-26* 15-Dec-17 A 15-Dec-17 A 15-Dec-17 A	27-Jul-24 10 27-Jul-24 10 11-Jul-25 04 30-Sep-23 06 30-Sep-23 06 11-Jul-25 30 30-Sep-23 06 10-30-25 30 11-Jul-25 30 30-Sep-23 06 11-Jul-25 30	16-Jan-26 0-Jul-25 0-Jul-25 0-Jul-25 0-Jul-25 0-Jul-25 0-Jul-25 14-Sep-25 14-Sep-25 14-Sep-25 16-Jan-26 10-Oct-23 10-Oct-24 11-Oct-24 5-Jan-25 9-Jun-25 9-Jun-25 0-Jul-25 9-Jun-25 0-Jul-25	86 86 0 0 0 0 0 0 0 0 0 0 0 0 0	Feb 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63 63					
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01-1100 Physical Completio 01-1110(3)(M15) Planned Substantia 01-1110-1(5a) Completion of 180 ID Dates of Site Pocessions Oracle Site Pocessions 01-1120 Possession of Porti 01-1130 Possession of Porti 01-1140 Possession of Porti 01-1150 Possession of Porti 01-1160 Possession of Porti 01-1170 Possession of Porti 01-1180 Possession of Porti 01-1190 Possession of Porti 01-1200 Possession of Porti 01-1210 Possession of Porti 01-1210 Possession of Porti 01-1210 Possession of Porti 01-1210 Possession of Porti 01-1210-1(M55) Possession of Porti Iccence/Permit Applications Iccense/Permit for Construction 03-1080 CNP for Percussive	on of 90 Days Plant Commissioning Test Works Image: Commission of the Works al Completion of the Works Image: Commission of the Works Days for Installation, T&C of CCTV System and Onshore Power System at Portio Image: Commission of the Works ion 1 Image: Commission of the Works Image: Commission of the Works ion 1 Image: Commission of the Works Image: Commission of the Works ion 1 Image: Commission of the Works Image: Commission of the Works ion 1 Image: Commission of the Works Image: Commission of the Works ion 1 Image: Commission of the Works Image: Commission of the Works ion 2 Image: Commission of the Works Image: Commission of the Works ion 3 Image: Commission of the Works Image: Commission of the Works ion 5 Image: Commission of the Works Image: Commission of the Works ion 6 Image: Commission of the Works Image: Commission of the Works ion 7 Image: Commission of the Works Image: Commission of the Works	2765	0 0 765 0 0 0 0 0 0 0 0	0% 0% 15-Dec-17 A 100% 100% 100% 100% 11-Jul-25	13-Sep-25 04-Oct-25 02-Apr-26* 11-Jul-25 15-Dec-17 A 15-Dec-17 A 15-Dec-17 A	23-Dec-22 11 23-dec-22 12 23-dec-22 23 23-dec-22 23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23 23-dec-23-dec-23 23-dec-23 23-dec-23-dec-23 23-dec-23-dec-23-dec-23 23-dec-	9-Jun-25 0-Jul-25 16-Jan-26 1-Jul-25 23-Dec-22	-86 -86 -86						
01-1110(3)(M15) Planned Substantia 01-1110-1(5a) Completion of 180 ID Dates of Site Pocessions Possession of Porti 01-1120 Possession of Porti 01-1130 Possession of Porti 01-1140 Possession of Porti 01-1150 Possession of Porti 01-1160 Possession of Porti 01-1170 Possession of Porti 01-1180 Possession of Porti 01-1180 Possession of Porti 01-11200 Possession of Porti 01-12105 Possession of Porti 01-1210 Possession of Porti 01-1210 Possession of Porti 01-1210-1(M55) Possession of Porti Iccence/Permit Applications Iccense/Permit for Construction 03-1080 CNP for Percussive	al Completion of the Works	2765	0 0 0 0 0	0% 0% 15-Dec-17 A 100% 100% 100% 11-Jul-25	04-Oct-25 02-Apr-26* 11-Jul-25 15-Dec-17 A 15-Dec-17 A 15-Dec-17 A	10 06 23-Dec-22 11 23 23 23 23	0-Jul-25 16-Jan-26 1-Jul-25 23-Dec-22	-86 -86						
01-1110-1(5a) Completion of 180 E Dates of Site Pocessions 01-1120 Possession of Porti 01-1120 Possession of Porti 01-1130 01-1130 Possession of Porti 01-1140 01-1140 Possession of Porti 01-1150 01-1150 Possession of Porti 01-1160 01-1160 Possession of Porti 01-1170 01-1170 Possession of Porti 01-1180 01-1180 Possession of Porti 01-11200 01-11200 Possession of Porti 01-1210 01-1210(5a) Possession of Porti 01-1210-01(M55) 01-1210-1(M55) Possession of Porti 01-1210-01(M55) License/Permit Applications License/Permit for Construction 03-1080 CNP for Percussive	Days for Installation, T&C of CCTV System and Onshore Power System at Portio ion 1 ion 1A ion 1B ion 2 ion 3 ion 4 ion 5 ion 6 ion 7	2765	0 0 0 0 0	0% 15-Dec-17 A 100% 100% 100% 11-Jul-25	02-Apr-26* 11-Jul-25 15-Dec-17 A 15-Dec-17 A 15-Dec-17 A	06 23-Dec-22 11 23 23 23 23 23	16-Jan-26 1-Jul-25 23-Dec-22 23-Dec-22							
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01-1190 Possession of Porti 01-1200 Possession of Porti 01-1210 Possession of Porti 01-1210(5a) Possession of Porti 01-1210-1(M55) Possession of Porti icense/Permit Applications License/Permit for Construction 03-1080 CNP for Percussive	ion 6 ion 7	0	0	0%	06-Jun-23*		6-Jun-23	0						
01-1200 Possession of Porti 01-1210 Possession of Porti 01-1210(5a) Possession of Porti 01-1210-1(M55) Possession of Porti .icence/Permit Applications License/Permit for Construction 03-1080 CNP for Percussive	ion 7	0	-	0%	06-Jun-23*	06	6-Jun-23	0						
01-1210 Possession of Porti 01-1210(5a) Possession of Porti 01-1210-1(M55) Possession of Porti .icence/Permit Applications Image: Construction 03-1080 CNP for Percussive			0	070 20 000 21		16-Jan-25		88						
01-1210(5a) Possession of Porti 01-1210-1(M55) Possession of Porti .icence/Permit Applications Image: Construction Use of the set of th	Ion /A	0	0		05-Jan-18 A		0-Jul-25							
01-1210-1(M55) Possession of Porti Licence/Permit Applications License/Permit for Construction 03-1080 CNP for Percussive		0	0	10070	07-Dec-18 A	11-Jul-25	0-Jul-25							
License/Permit for Construction 03-1080 CNP for Percussive		0	0			11-Jul-25								
License/Permit for Construction 03-1080 CNP for Percussive		1794	330	07-Mar-19 A	23-Jan-24	18-Feb-23 10	0-Jul-25	534						
		1794	180	07-Mar-19 A	26-Aug-23	02-Mar-23 10	0-Jul-25	684			-			
03-1360(2) CNP for 24Hrs	e Piling Works	613	67	89.07% 31-Aug-21 A	05-May-23	26-Apr-24 01	1-Jul-24	423					05-N	May-23, CNP for F
.,		1634	180		-	12-Jan-25 10		684						
03-1370_1(M34) Landscape and Visu	uai Plan	180 30	112 30	37.78% 24-Dec-22 A		02-Mar-23 21 22-May-23 20		2 53						
Day Tank & Fuel Oil Storage (Cat 5)		30	30		28-Apr-23	22-May-23 20		53						
	ans and FSI Provision Design Submission to FSD (Cat 5)	30	30		28-Apr-23	22-May-23 20		53			30-Mar-23		28-Apr-23, G	General Building F
Fire Services Installations (FSI) Certification		0	0			06-Mar-23 06		-23]		
Fire Services Installations Certificate Inspection		0	0		29-Mar-23	06-Mar-23 06		-23						
	I Building Plans and FSI Provision Design Submission	0 358	0 330		29-Mar-23	00 02-Mar-23 31	6-Mar-23	-23 -23			•	Approval of General Bui	Iding Plans and FSI Provi	sion Design Subr
Air Pollution Control (Specified Processes 03-1740(3) Document preparati	ion for SP License Application (upon consent of relevent DDA designs)	60	5	91.67% 06-Jan-23 A		02-Mar-23 06		2			04-Mar-23, Document prepa	ation for SP License Appli	ication (upon consent of re	elevent DDA desi
	ation Submissions and review by EPD	300	300		23-Jan-24	07-Mar-23 31		-23			30-Mar-23			
Boilers and Pressure Vessels License		331	180	29-Mar-22 A	26-Aug-23	18-Feb-23 16	6-Aug-23	-10						
. ,	er fabrication inspection plan for License Application	90	90		28-May-23	18-Feb-23 18		-10		28-Feb-23				
03-1890(3) Completion of Boile		180	30		· ·	16-Mar-23 14		-15						of Boiler off-site
03-1900(3) Completion of Boile 03-1910(3) Completion of on-sir	er off-site inspection before delivery	60 90	60 90		26-Aug-23	15-Mar-23 13 19-May-23 16		-86 -10	3-Feb-23 A					29-May
eneral Submissions		1674	120	,	-	14-Mar-23 14	-	201						23-1114y
Contractor's Plans Submission and Appro	oval	1674	120			14-Mar-23 14		201						
04-1400(1) Operation Plan (OP		240	120			17-Sep-23 14		201						
04-1450(1) Asset Management	,	120	120			14-Mar-23 11		14		28-Feb-23				
04-1500(1) Handback Plan (HP	2)	120	120		27-Jun-23	14-Mar-23 11		14		28-Feb-23				
esign Submissions		1751	168		14-Aug-23	23-Dec-22 27		501						
General Building Plan	Westweeter Technold Direct	637	30		29-Mar-23	04-Mar-23 27		90						
04-1600(M42) Process Building & 04-1610(M42) Turbin Hall Building	Wastewater Treatment Plant	135 135	0			06-Mar-23 06 06-Mar-23 06		7			 28-Feb-23, Process Building & W 28-Feb-23, Turbin Hall Building, T 		······	stewater Treatme
	a	130	U	100% 03-War-21A	20-160-23	00-11/101-23 00	o-ivid1-23	1			- 20-1 80-20, TURDIN HALLBUIRDING, I	, 28-Feb ,	F20	

	Activity Name	Original Duration	Remaining Duration	Activity % Current Start Current Finish Complete	Late Start Late Finish	Total Float M63 Remarks	Feb	Mar
04-1620(M42)	Compressor & CCCW Building	135	0	100% 03-Mar-21 A 28-Feb-23	06-Mar-23 06-Mar-23	7	63	64 28-Feb-23, Compressor
4-1630(M42)	Chimney	135	0	100% 03-Mar-21 A 28-Feb-23	06-Mar-23 06-Mar-23	7		28-Feb-23, Chimney, Ch
4-1640(M42)	Mechanical Treatment Plant & Water Treatment Plant	135	0	100% 03-Jun-21 A 28-Feb-23	06-Mar-23 06-Mar-23	7		28-Feb-23, Mechanical
I-1650(M42)	Reception Pavilion	135	0	100% 03-Jun-21 A 28-Feb-23	06-Mar-23 06-Mar-23	7		28-Feb-23, Reception F
I-1660(M42)	Administration Building and Viewing Gallery	135	0	100% 03-Jun-21 A 28-Feb-23	06-Mar-23 06-Mar-23	7		28-Feb-23, Administrat
-1670(M42)	Elevated Drive Way and Associated Structures	135	0	100% 03-Mar-21 A 28-Feb-23	06-Mar-23 06-Mar-23	7		
4-1680(M42)	IW MF Substation	135	0	100% 03-Mar-21 A 28-Feb-23	06-Mar-23 06-Mar-23	7	00.5 + 00	28-Feb-23, IW MF Sub
4-1690(M46) 4-1730	ACC Equipment Structure Weighbridge	0	0 22	0% 28-Feb-23 28-Feb-23 5% 22-Apr-22 A 21-Mar-23	06-Mar-23 06-Mar-23 06-Jun-23 27-Jun-23	7 98	28-Feb-23	I 28-Feb-23, ACC Equip
4-1730	Seawater Intake Structure	60	30	· · · · · · · · · · · · · · · · · · ·	04-Mar-23 02-Apr-23	4	-Feb-23 A, 23-Feb-23 A	
P Design Package		1652	105		23-Dec-22 13-Oct-24	489		
<u> </u>	Reclamation, Sea wall, Break water, Berth (2.2)	669	60		23-Dec-22 20-Aug-23	114		
05-2960-1(M37)	Mooring Dolphins	90	0				Mooring Dolphi	ns, 13-Feb-23 A
5-2970	Onshore crane Facility (2.2.11)	90	3	5% 11-Apr-22 A 02-Mar-23	28-Jul-23 30-Jul-23	150		02-Mar-23, Onshor
5-2980	Onshore vessel power supply system (2.2.12)	135	60	80% 31-May-21 A 28-Apr-23	22-Jun-23 20-Aug-23	114		
P Incineration Plant I		1577	60			481		
	ngs and Fire Saftey Strategy (2.3.00)	30	30		22-Apr-23 21-May-23	53		
05-1220	ACC Equipment Structure	30	30			53	28-Feb-23	
oundation design (2.		135	0		06-Mar-23 06-Mar-23	7		L 00 Feb 00 Decention
)5-3090 tructural design (2.3.	Reception Pavilion	135	0 60			7 311		28-Feb-23, Reception
05-3090-1(M55)	Sky Deck	135		55.56% 01-Jun-21 A 28-Apr-23		311		
peration Managemen		121	16	· · ·		414		
05-2250	Design of the Air Quality Monitoring Stations (2.9.01)	60	16			0		De
05-3840-1(M22)	Automatic Traffic Control System (ATCS) (2.10.06.12)	90	14	5% 14-Feb-22A 13-Mar-23	19-Apr-24 02-May-24	416		13-M
Building services desi	ign (excluding fire services installation design) (2.3.06)	405	60	04-Dec-18 A 28-Apr-23	06-May-23 21-Aug-24	481		
05-1550	Electrical Services and Lighting	150	30	25% 02-Jan-19A 29-Mar-23	06-May-23 04-Jun-23	67		
05-1560	MVAC (6 Packages)	105	60	· · ·	06-Jun-23 04-Aug-23	98		
05-1570	Odour Control	135	60	· · ·	06-Jun-23 04-Aug-23	98		A
05-1580	Plumbing (7 Packages)	210	60	• •	13-Jan-24 12-Mar-24	319		
05-1590	Drainage (7 Packages)	135	60	· ·	13-Jan-24 12-Mar-24	319		
05-1600 05-1770-1(M20)	ELV (7 Packages) Water Cannon System	135	30 30		06-May-23 04-Jun-23 23-Jul-24 21-Aug-24	67 511		
AIP Fire services instal		270	30	0		53		
Reception Pavilion (2.		270	30		22-Apr-23 21-May-23	53		
05-5460(M22)	Fire Systems (2.3.05.06.01)	270	30			53		
05-5470-1(M22)	FS schematics (2.3.05.06.03)	135	30	80% 31-Oct-19 A 29-Mar-23	22-Apr-23 21-May-23	53		
IP Mechanical Treatm	ent Plant Building (2.4)	212	60	11-Jul-18 A 28-Apr-23	23-Mar-23 12-Mar-24	319		
	ign (excluding fire services installation design) (2.4.06)	212	60		23-Mar-23 12-Mar-24	319		
05-1700	LV and Emergency Power Distribution Design	135	60	· _ ·		319		
05-1720	Odour Control	90	30	80% 11-Jul-18 A 29-Mar-23	23-Mar-23 21-Apr-23	23		
05-1740 IP Wastewater Treatm	Drainage	90	10		13-Jun-23 22-Jun-23 09-Apr-23 12-Mar-24	105 319		09-Mar-23
	ign (excluding fire services installation design) (2.5.06)	1170 1170	60 60		09-Apr-23 12-Mar-24	319		
05-1830	LV and Emergency Power Distribution Design (2.5.06.01)	135	60		13-Jan-24 12-Mar-24	319		
05-1840	MVAC (2.5.06.02)	135	60	• •	24-Apr-23 22-Jun-23	55		
05-1850	Odour Control (2.5.06.03)	105	60		30-Apr-23 28-Jun-23	61		
05-1860	Plumbing (2.5.06.04)	135	60	25% 31-Jan-19A 28-Apr-23	24-Apr-23 22-Jun-23	55		
05-1870	Drainage (2.5.06.05)	135	60	25% 31-Jan-19A 28-Apr-23	09-Apr-23 07-Jun-23	40		
05-1880	ELV (2.5.06.06)	135	60	25% 01-Feb-19A 28-Apr-23	17-Jul-23 14-Sep-23	139		
P Water Treatment PI		135	60			319		
	ign (excluding fire services installation design) (2.6.06)	135	60		13-Jun-23 12-Mar-24	319		
05-1960	Electrical Services and Lighting (2.6.06.01)	135	60	· · ·	13-Jan-24 12-Mar-24	319		
05-2000 P Administration Buil	Drainage	135	10 90		13-Jun-23 22-Jun-23 03-Mar-23 16-Jul-23	105 49		09-Mar-2
5-2050	Electrical and instrumentation works design (2.7.03)	90	90			49		
	ign (excluding fire services installation design) (2.7.05)	135	20			3	201 60-23	
05-2080	MVAC	135	20			3		
P IWMF Substation (2		180	30			5		
5-2170	Electrical and instrumentation works design (2.8.03) (14 Packages)	180	30	45% 31-Oct-19 A 29-Mar-23	05-Mar-23 03-Apr-23	5		
P Chimney		151	60	20-Sep-21 A 28-Apr-23	17-Jul-23 07-Feb-24	285		
uilding services desi	ign (excluding fire services installation design)	151	60	20-Sep-21 A 28-Apr-23	17-Jul-23 07-Feb-24	285		
05-5430(5a)	Electrical Services and Lighting	90	60	· · · · · ·	10-Dec-23 07-Feb-24	285		4
05-5440(5a)	MVAC	90	30		21-Sep-23 20-Oct-23	205		<u> </u>
	Plumbing	90	60	5% 20-Sep-21 A 28-Apr-23	03-Dec-23 31-Jan-24 03-Dec-23 31-Jan-24	278		
05-5450(5a) 05-5460-1(5a)	Drainage	90	60	5% 20-Sep-21 A 28-Apr-23		278		

♦ Milestone

	. EP/SP/66/12 lities, Phase 1	最現保護署 Environmental Protaction Department
	Apr 65	May 66
CCCW B	µ µilding, Compressor & CCCW	
ney, 28-Fe	b-23	
	ant & Water Treatment Plant, ption Pavilion, 28-Feb-23	Mechanical Treatment Plant & Water Treatm
Buildinga	nd Viewing Gallery, Administi	ration Building and Viewing Gallery, 28-Feb-2
	ssociated Structures, Elevat	ed Drive W ay and Associated Structures, 28-
t Structur	ė	
	Weighbridge, Weighbridge, 29-Mar-23, Seawater Intake S	
ne Facility	(2.2.11), Onshore crane Faci	lity (2.2.11), 02-Mar-23
		28-Apr-23, Onshore vessel power sup
2	29-Mar-23, ACC EquipmentS	tructure
lion, Rece	ption Pavilion, 28-Feb-23	
		28-Apr-23, Sky Deck, Sky Deck, 28-A
		.9.01), 15-Mar-23, 15-Mar-23, Design of the A CS) (2.10.06.12), Automatic Traffic Control Sy
2	29-Mar-23, Electrical Services	s and Lighting, Electrical Services and Lightir
		28-Apr-23, MVAC (6 Packages), MVA 28-Apr-23, Odour Control, Odour Cont
		 28-Apr-23, Plumbing (7 Packages), P 28-Apr-23, Drainage (7 Packages), Dr
	+	, ELV (7 Packages), 29-Mar-23 tem, Water Cannon System, 29-Mar-23
	29-Mar-23. Fire Systems (2.3.	05.06.01), Fire Systems (2.3.05.06.01), 29-M
	{	3.05.06.03), FS schematics (2.3.05.06.03), 2
		28-Apr-23, LV and Emergency Power
inage, Dra	29-Mar-23, Odour Control, Od inage, 09-Mar-23	our Control, 29-Mar-23
	· · · · · · · · · · · · · · · · · · ·	28-Apr-23, LV and Emergency Power
	· · · · · · · · · · · · · · · · · · ·	28-Apr-23, MVAC (2.5.06.02), MVAC (2.5.06.02), MVAC (2.5.06.03),
		28-Apr-23, Plumbing (2.5.06.04), Plur
		28-Apr-23, Drainage (2.5.06.05), Drain 28-Apr-23, ELV (2.5.06.06), ELV (2.5.0
inage, Dra	inage, 09-Mar-23	28-Apr-23, Electrical Services and Lig
	1 	2
Mar-23, N	IVAC, MVAC, 19-Mar-23	
	29-Mar-23, Electrical and inst	rumentation works design (2.8.03) (14 Packa
		28-Apr-23 Electrical Services and Lic
	29-Mar-23, MVAC, MVAC, 29-	
	1	28-Apr-23, Plumbing, Plumbing, 28-A 28-Apr-23, Drainage, Drainage, 28-Ap

KEPPEL SEGUERS - ZHEN II	Activity Name	Original Duration	Remaining Duration	Activity % Current Start Current Finish Complete	Late Start Late Finish	Total Float M63 Remarks	Feb	ste Management Facilities, Phase 1
05-5470(5a)	ELV	90	60	5% 20-Sep-21 A 28-Apr-23	10-Dec-23 07-Feb-24	285	63	64 65 66 66 28-Apr-23, ELV, 28-Apr-
05-5490(5a)	Building Management System (BMS)	90	60	5% 27-Oct-21 A 28-Apr-23	17-Jul-23 14-Sep-23	139		28-Apr-23, Building Managem
· · · · · · · · · · · · · · · · · · ·	y and Associated Structures Foundation	105	30	31-Dec-21 A 29-Mar-23	15-Sep-23 14-Oct-23	199		
Building services desi 05-7090	ign (excluding fire services installation design) Electrical Services and Lighting	105 105	30 30	31-Dec-21 A 29-Mar-23 5% 31-Dec-21 A 29-Mar-23	15-Sep-23 14-Oct-23 15-Sep-23 14-Oct-23	199 199		29-Mar-23, Electrical Services and Lighting, Electrical Services and
IP Roads and Utilities		910	60	31-Oct-20 A 28-Apr-23	04-Mar-23 18-Jan-24	265		
	design on the Artificial Island (2.10.04)	910	60	31-Oct-20 A 28-Apr-23	10-Mar-23 20-Sep-23	145		
05-2360 05-2370-2(M24)	W ater Tanks (2.10.04.05) Building Services system for seawater intake (2.10.04.09)	60 105	60 60	0% 28-Feb-23 28-Apr-23 5% 31-Oct-20 A 28-Apr-23	10-Mar-23 08-May-23 23-Jul-23 20-Sep-23	10	28-Feb-23	28-Apr-23, Water Tanks (2.10 28-Apr-23, Building Services
05-2370-2(M24)	Chemical scrubber system for odour control (2.10.04.09)	105	60	5% 31-Oct-21 A 28-Apr-23	23-Jul-23 20-Sep-23	145		28-Apr-23, Chemical scrubbe
Design of telecommun	nication and other utilities (2.10.06)	590	6	31-Jan-21 A 05-Mar-23	04-Mar-23 18-Jan-24	319		
05-2380 05-2430	Power Distribution System concept / schematics (2.10.06.01)	135 105	1	5% 31-Jan-21 A 28-Feb-23 80% 31-May-22 A 05-Mar-23	18-Jan-24 18-Jan-24 04-Mar-23 09-Mar-23	324		28-Feb-23, Power Distribution System concept / schematics (2.10.06.01), Power Distribution System
Utility ducts/Pipebridg	Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)	455	60	01-May-21 A 28-Apr-23	18-Aug-23 19-Nov-23	205		05-Mar-23, Site ELV Network System - Navigation aids concept / schematics (2.10.06.06), Site I
05-2460	Design of Pipe / Utilities Trenches concept (2.10.06.09.01)	105	60	5% 01-May-21 A 28-Apr-23	21-Sep-23 19-Nov-23	205		28-Apr-23, Design of Pipe / U
05-2470	Sitewide Utilities Trenches Design (2.10.06.09.02)	105	60	5% 01-May-21 A 28-Apr-23	21-Sep-23 19-Nov-23	205		28-Apr-23, Sitewide Utilities
Layout Plan for Pipe 05-6010	Bridge Network Pipebridge B	60 60	30 30	31-May-22 A 29-Mar-23 50% 31-May-22 A 29-Mar-23	18-Aug-23 16-Sep-23 18-Aug-23 16-Sep-23	171 171		29-Mar-23, Pipebridge B, Pipebridge B, 29-Mar-23
05-6020	Pipebridge C	60	30	50% 31-May-22 A 29-Mar-23	18-Aug-23 16-Sep-23	171		29-Mar-23, Pipebridge C, Pipebridge C, 29-Mar-23
	shes and Landscaping Works (2.11)	668	60	31-Oct-20 A 28-Apr-23	30-Nov-23 13-Oct-24	534		
External and internal f		439	10	31-Oct-20 A 09-Mar-23	30-Nov-23 16-May-24	434		
05-2570 05-2590	External and internal finishes design for MT Plant Building (2.11.02) External and internal finishes design for the Water Treatment Plant Building (2.11.04)	105 105	10 10	45% 31-Oct-20 A 09-Mar-23 25% 30-Sep-21 A 09-Mar-23	30-Nov-23 09-Dec-23 30-Nov-23 09-Dec-23	275 275		09-Mar-23, External and internal finishes design for MT Plant Building (2.11.02), External ar 09-Mar-23, External and internal finishes design for the Water Treatment Plant Building (2.1
05-2600	External and internal finishes design for the Administration Building (2.11.05)	105	10	45% 31-Oct-20 A 09-Mar-23	07-May-24 16-May-24	434		09-Mar-23, External and internal finishes design for the Administration Building (2.1.05), E
Facade Structural Des		242	60	26-Aug-21 A 28-Apr-23	06-Mar-24 13-Oct-24	534		
05-8040-1(6D)	Reception Pavilion (2.3.14.07.01)	90	60	5% 05-Oct-21 A 28-Apr-23	15-Aug-24 13-Oct-24	534		28-Apr-23, Reception Pavilion
05-8050-1(6D) 05-8060-1(6D)	Mechanical Treatment Plant & Desalination Plant Building (2.4.14.01) Adminstration Building and Viewing Gallery (2.7.12.01)	90 90	60 60	5% 08-Mar-22 A 28-Apr-23 5% 07-Dec-21 A 28-Apr-23	27-Apr-24 25-Jun-24 19-Apr-24 17-Jun-24	424		28-Apr-23, Mechanical Treatm 28-Apr-23, Adminstration Bui 28-Apr-23, Adminstration Bui
05-8080-1(6D)	Elevated Driveway and Associated Structures	91	30	5% 26-Aug-21 A 29-Mar-23	06-Mar-24 04-Apr-24	372		29-Mar-23, Elevated Driveway and Associated Structures, Elevated
AIP Testing and Commi		105	60	23-Apr-19 A 28-Apr-23	18-Aug-23 16-Oct-23	171		
05-2650-1(5)	Factory Acceptance Testing plan (2.12.01.02-07) (8 Packages)	105	60	5% 23-Apr-19A 28-Apr-23	18-Aug-23 16-Oct-23	171		28-Apr-23, Factory Acceptance
AIP Transportation Fac 05-2690	Design of vehicles for MSW and Ash and Residues delivery (2.13.01)	105 105	0	30-Sep-20 A 28-Feb-23 100% 30-Sep-20 A 28-Feb-23	08-Apr-23 08-Apr-23 08-Apr-23 08-Apr-23 08-Apr-23 08-Apr-23 08-Apr-23 08-Apr-23	40		28-Feb-23, Design of vehicles for MSW and Ash and Residues delivery (2.13.01), Design of vehicles for
AIP Miscellaneous Worl		105	105	28-Feb-23 12-Jun-23	10-Mar-23 22-Jun-23	40 10		
05-2710	Design of process related CCTV and existing onshore crane replacement works at Portion 2 (2.14.0	105	105	0% 28-Feb-23 12-Jun-23	10-Mar-23 22-Jun-23	10	28-Feb-23	
AIP Miscellaneous Deta		90	90	25-May-22 A 28-May-23	29-May-23 01-Dec-23	187		
05-2740 05-2750	Gatehouses (2.15.03) W eighbridge office (2.15.04)	90 90	90 30	5% 25-May-22 A 28-May-23 5% 25-May-22 A 29-Mar-23	03-Sep-23 01-Dec-23 29-May-23 27-Jun-23	187 90		29-Mar-23, W eighbridge office (2.15.04), W eighbridge office (2.15.
AIP Auxiliary Plant Syst		90	90	28-Feb-23 28-May-23	·	85		
05-2760	Maintenance workshops (2.16.01)	90	90	0% 28-Feb-23 28-May-23	19-Apr-23 17-Jul-23	50	28-Feb-23	
05-2780	Stores systems (2.16.03)	90	90	0% 28-Feb-23 28-May-23	24-May-23 21-Aug-23	85	28-Feb-23	
AIP O&M Packages 05-8010(6E)	Warehouse (O&M Scope)	258 185	<u>81</u> 0	06-Jun-22 A 19-May-23 5% 04-Jul-22 A 28-Feb-23	20-Dec-23 09-Jul-24 20-Dec-23 20-Dec-23	<u>417</u> 296		28-Feb-23, Warehouse (O&M Scope), Warehouse (O&M Scope), 28-Feb-23
05-8030(6E)	Ash & Residues Container (O&M Scope)	160	0	5% 06-Jun-22 A 28-Feb-23	22-May-24 22-May-24	450		28-Feb-23, Ash & Residues Container (O&M Scope), Ash & Residues Container (O&M Scope), 28-Feb
05-8040(6E)	Bicar Debagging Station (O&M Scope)	105	81	5% 17-Nov-22 A 19-May-23	20-Apr-24 09-Jul-24	417		19-I
DA Design Package		1751	168	05-Sep-18 A 14-Aug-23	28-Feb-23 27-Dec-24	501		
DDA Process and Layou	ss design for incineration (2.1.13)	1078 1078	168 168	22-Apr-20 A 14-Aug-23 22-Apr-20 A 14-Aug-23	27-Jun-23 19-Oct-24	432 432		
05-5090	Incineration System (2.1.13.01) (2 Packages)	105	0	5% 22-Apr-20 A 28-Feb-23	27-Jun-23 27-Jun-23	120		28-Feb-23, Incineration System (2.1.13.01) (2 Packages), Incineration System (2.1.13.01) (2 Packages
05-5100	Heat Recovery Boiler (2.1.13.02) (2 Packages)	105	0	5% 23-Apr-20 A 28-Feb-23	27-Jun-23 27-Jun-23	120		28-Feb-23, Heat Recovery Boiler (2.1.13.02) (2 Packages), Heat Recovery Boiler (2.1.13.02) (2 Packages)
05-5120	Leachate Collection and Treatment (2.1.13.05) (2 Packages)	256	168	25% 30-Jun-22 A 14-Aug-23	05-May-24 19-Oct-24	432		
05-5140 05-5150	Overall Plan Water Scheme (2.1.13.07) Boiler Feed Water System (2.1.13.03) (2 Packages)	105 105	32 0	5% 29-Jan-21 A 31-Mar-23 45% 23-Apr-20 A 28-Feb-23	18-Sep-24 19-Oct-24 16-Aug-23 16-Aug-23	568 170		31-Mar-23, Overall Plan Water Schem e (2.1.13.07), Overall Plan 28-Feb-23, Boiler Feed Water System (2.1.13.03) (2 Pack ages), Boiler Feed Water System (2.1.13.03)
	ss design for mechanical treatment (2.1.14)	105	1	02-Oct-20 A 28-Feb-23		72		
05-3510	Water Treatment Plant and Boiler Water Treatment (Demin Unit) Plant	105	1	5% 02-Oct-20 A 28-Feb-23	11-May-23 11-May-23	72		28-Feb-23, Water Treatment Plant and Boiler Water Treatment (Demin Unit) Plant, Water Treatment P
	nd Power generation system (2.1.15)	105	60	30-Sep-21 A 28-Apr-23	02-Nov-23 31-Dec-23	247		
05-5240 Flue gas treatment pro	Compressed Air Plants occess design for incineration (2.1.16)	105 105	60 31	25% 30-Sep-21 A 28-Apr-23 23-Apr-20 A 30-Mar-23	02-Nov-23 31-Dec-23 18-Apr-23 18-May-23	247 49		28-Apr-23, Compressed Air P
05-4660	Flue Gas Treatment System (2 Packages)	105	31	80% 23-Apr-20 A 30-Mar-23	18-Apr-23 18-May-23	49		30-Mar-23, Flue Gas Treatment System (2 Packages), Flue Gas
05-4980	Boiler ash and APC residue handling and solidification (2 Packages)	105	25	80% 30-Sep-20 A 24-Mar-23	24-Apr-23 18-May-23	55		24-Mar 23, Boiler ash and APC residue handling and solidification (2 Pa
	design for MSW and Ash and Residues (21.17)	105	16	25-Aug-21 A 15-Mar-23	03-Aug-23 31-Dec-23	291		1 09 Eab 02 Waishbridge Custome Whishbridge Custome 00 Eat 00
05-4390 05-4410	Weighbridge Systems Mechanical Shredder	105 105	1 16	5% 25-Aug-21 A 28-Feb-23 5% 25-Sep-21 A 15-Mar-23	31-Dec-23 31-Dec-23 03-Aug-23 18-Aug-23	306 156		28-Feb-23, Weighbridge Systems, Weighbridge Systems, 28-Feb-23 15-Mar-23, Mechanical Shredder, Mechanical Shredder, 15-Mar-23
	t, Reclamation, Seawall, Breakwater, Berth (2.2)	816	20	20-Jan-19 A 19-Mar-23		430		
	Geotechnical Interpretative Report (2.2.02.02)	105	10	65% 31-Dec-20 A 09-Mar-23	13-May-24 22-May-24	440		09-Mar-23, Geotechnical Interpretative Report (2.2.02.02), Geotechnical Interpretative Report
05-3430-2(M37)	Seawall design (2.2.20)	60	20	65% 20-Jan-19A 19-Mar-23	14-Mar-24 02-Apr-24	380		19-Mar-23, Seawall design (2.2.20), Seawall design (2.2.20), 19-Mar-23
05-3430-2(M37) 05-3450								

Feb 63	58		3-Nov-23 02-Dec-23	3	19-Mar-23	10.4						
							65% 20	20	30	60	Berth design (2.2.22)	-3470 Be
	27		9-Mar-23 05-Jun-24		14-Jul-23			137		1644		A Incineration Plant Building
	59		6-Mar-23 05-Jun-24		12-Jun-23			105		1630	tation works design (2.3.15)	
	69		6-Aug-23 16-Oct-23	3	30-Apr-23	ov-21 A	05	62)5	105		3.15.01
	69		6-Aug-23 16-Oct-23	3	30-Apr-23	ov-21 A	80% 05	62)5	105	11kV/380V Power Transformers Design (2.3.15.01)	05-3360 11
	69		3-Apr-23 11-May-24		08-May-23			70		378		&IC Package 1 (Process Isla
01-Mar-23, Ele	78		5-Aug-23 26-Aug-23		01-Mar-23			2	_	120	Electric Heat Tracing (Process Island) (2.3.15.0.2.10)	
28-Feb-23, Elec	39		1-May-24 11-May-24 6-Oct-23 16-Oct-23		28-Feb-23 28-Feb-23	•		0	_	105	Electrical Works - MCC Panels (2.3.15.02.01) Electrical Works - Process Island Uninterruptable Power Supply (UPS) (2.3.15.02.03)	. , ,
201 60 20, Elec	66		0-Nov-23 20-Nov-23		28-Feb-23			0	_	105	Electrical Works E&I Installation at Yard (2.3.15.02.08)	. ,
03-Mar-23,	62		7-Nov-23 20-Nov-23		03-Mar-23			4	_	105	Electrical Works Instrumentation (2.3.15.02.06)	. ,
	34		3-Apr-23 11-Jun-23	23	08-May-23	ul-21 A	5% 12	70	05	105	Electrical works CEMS and Process Analysers (2.3.15.02.07)	05-7400-1(M55) El
	34		7-Apr-23 05-Jun-24	3	29-Mar-23	ep-19 A	16	30	73	773	Island) (2.3.15.03)	&IC Package 2 (Power Island
	58		7-Apr-23 26-May-23		29-Mar-23			30	_	105	Electrical Works Design (2.3.15.03.01 to 04)	, ,
28-Feb-23, Gene	31		6-Oct-23 16-Oct-23		28-Feb-23			0	_	105	Generator Related Equipment (2.3.15.03.08)	, ,
l 28-Feb-23, Instr	43 64		0-Jul-23 20-Jul-23 6-May-23 05-Jun-24		28-Feb-23			0	_	105	Instrumentation works design(2.3.15.03.05 & 2.3.15.03.06)	
1 28-Feb-23, Hard	64		5-Jun-24 05-Jun-24		28-Feb-23 28-Feb-23			0		530 105	SCADA & PLC Control System (23.15.03.07) Hardware Design (2.3.15.03.07.01)	.
28-Feb-23, Soft	88		6-May-23 26-May-23		28-Feb-23			0	_	105	Software Design (2.3.15.03.07.02)	
	59		6-Mar-23 05-Jun-24		12-Jun-23			105		1630		peration Management Syste
I 28-Feb-23, OMS	86		1-Sep-23 01-Sep-23		28-Feb-23			0	05	105	OMS/SCADA/DCS - System Networks Details (2.3.15.04.02)	· · · · · · · · · · · · · · · · · · ·
	04		7-Apr-24 05-Jun-24	3	28-Apr-23	ec-20 A	5% 09	60	05	105	Software Standard Component	
16-Mar-23	0		6-Mar-23 14-May-23	23	14-May-23	ar-23	0% 16	60	60	60	Design of the Air Quality Monitoring Stations (2.9.03)	05-4490 De
	15		1-Oct-23 16-Nov-23	3	15-Apr-23	ep-18 A	45% 05	47)5	105	Automatic License Plate and Container Recoginition System (ALPCRS)	05-7400(6E) Au
	59		1-Sep-23 05-Jun-24	3	12-Jun-23	ec-21 A	15	105	10	410		2.3.15.04.03
	86		1-Sep-23 01-Sep-23		28-Feb-23			0	_	105		2.3.15.04.03.01
1 28-Feb-23, OMS	86		1-Sep-23 01-Sep-23		28-Feb-23			0	_	105	OMS/SCADA/DCS - OLM Panel Design for Power Island (2.3.15.04.03.01.02)	. ,
	59 59		2-Feb-24 05-Jun-24		12-Jun-23 12-Jun-23			105	_	105	OMS/SCADA/DCS - Panel Design for Power Island and Plant Commom (2.3.15.04.03.02)	2.3.15.04.03.02
	64		2-Feb-24 05-Jun-24 5-Jun-24 05-Jun-24		28-Feb-23	-		105 0	_	105 105		05-3390-13(M58) OI 2.3.15.04.03.03
28-Feb-23, OMS	64		5-Jun-24 05-Jun-24		28-Feb-23	•		0	_	105	OMS/SCADA/DCS - Server Panel Design (2.3.15.04.03.03)	
	86		1-Sep-23 01-Oct-23		29-Mar-23			30		105		2.3.15.04.06
	86		1-Sep-23 01-Sep-23		28-Feb-23	ec-21 A	80% 09	0	05	105	Process Related 3rd Party System (2.3.15.04.06.01.01)	
	86		2-Sep-23 01-Oct-23		29-Mar-23	ct-21 A	80% 06	30)5	105	3rd Party System for Power Island & Communication Data Tables for Process Vol 1 and Power Islan	
	31		8-May-23 16-Nov-23	3	30-Mar-23	ul-21 A	15	31)5	105		3.15.05
	91		0-May-23 27-Jun-23	3	28-Mar-23	ay-22 A	80% 07	29)5	105	Balance of Plant LV Switchgear Design (2.3.15.05.01)	05-3390-15(M55) Ba
	89		8-May-23 27-Jun-23	3	30-Mar-23	an-22 A	45% 04	31	05	105	Package 3 (Balance of Plant) - Weighbridge Electrical & Instrumentation Package & ALPCRS (2.3.	05-3390-16(M55) Pa
28-Feb-23, Was	09		4-Sep-23 24-Sep-23		28-Feb-23			0		105	Waste Crane Functional Description (23.15.05.08)	
1 28-Feb-23, Elec	10		7-Jun-23 17-Jun-23			ov-21 A		0	_	105	Electrical and Instrumentation Works Design - Compressed Air Plants (2.3. 15.05.03)	. ,
l 28-Feb-23, Elec	62 59		6-Nov-23 16-Nov-23 2-Feb-24 05-Jun-24		28-Feb-23 12-Jun-23	-		0		105	Electrical and Instrumentation Works - Ash Crane (23.15.05.05)	05-3390-5(M55) EI 3.15.07
	59		2-Feb-24 05-Jun-24		12-Jun-23			105		105	SCADA & PLC Control System - Software Design (2.3.15.07.02)	
	59		2-Feb-24 05-Jun-24		12-Jun-23	· .		105	_	105	SOADA & LO OUTIOTSYSTEIT - SOTIWATE Design (23.13.07.02)	3.15.08
	59		2-Feb-24 05-Jun-24		12-Jun-23			105	_	105	Operation Management System (2.3.15.08)	
	14		5-Apr-23 13-Feb-24		14-Jul-23	<u> </u>		137	_	1323		chanical works design (2.3.1
	14		8-May-23 13-Feb-24	3	14-Jul-23	eb-19A	28	137	23	1323		lant and Equipment
28-Feb-23, Elec	09		4-Sep-23 24-Sep-23	3	28-Feb-23	an-20 A	70% 07	0	05	105	Electrical and Instrumentation Works - Waste Crane and Grapple System (2.3.15.05.04)	05-3390-4(M55) EI
	45		1-Oct-23 31-Dec-23	3	30-Apr-23	ar-22 A	5% 30	62)5	105	Weighbridge Systems	05-3580 W
	12		0-Jun-23 16-Aug-23	3	26-Apr-23	eb-19 A	5% 28	58	05	105	Incineration System (9 Packages)	05-3610 In
	14		0-Sep-23 13-Feb-24	3	14-Jul-23	ul-19 A	5% 31	137)5	105	Heat Recovery Boiler (8 Packages)	05-3620 He
	12		7-Aug-23 16-Aug-23		26-Apr-23			10	_	105	Boiler Feed Water Systems (4 Packages)	
	79		8-May-23 01-Oct-23		14-Jul-23			137		105	Flue Gas Treatment System (12 Pack ages)	
	49		6-Aug-23 16-Aug-23		29-Jun-23			0	_	105	Boiler ash and APC residue handling and solidification	
28-Feb-23, Com	71 73		7-Aug-23 17-Aug-23 5-Apr-23 25-Sep-23		28-Feb-23 14-Jul-23			0 137	_	105 562	Compressed Air Plants	05-3830 Co rocess Pipeworks (Incl. Duc
	73		2-May-23 25-Sep-23		14-Jul-23			137	_	105	Process island (furnace-boiler-FGC)	· · ·
	46							57				
I 28-Feb-23, Com	71		9-May-23 09-May-23		28-Feb-23			0	_	105	Compressed Air Plant area	
I 28-Feb-23, Pipe	03		0-Jun-23 10-Jun-23	3	28-Feb-23	eb-21 A	5% 28	0)5	105	Pipebridge B (Between CCCW Area & Turbine Hall)	05-4370 Pi
I 28-Feb-23, Pipe	03		0-Jun-23 10-Jun-23	3	28-Feb-23	eb-21 A	5% 28	0	05	105	Pipebridge C (Between Turbine Hall & ACC Equipment Yard)	05-4380 Pi
I 28-Feb-23, Turb	43		0-Jul-23 20-Jul-23	3	28-Feb-23	ay-21 A	80% 31	0)5	105	Turbine Hall	05-4950 Tu
1 28-Feb-23, ACC	08		5-Jun-23 15-Jun-23	3	28-Feb-23	ay-21 A	65% 31	0)5	105	ACC Equipment Yard	
28-Feb-23, CCC	03		0-Jun-23 10-Jun-23		28-Feb-23			0)5	105	CCCW Area	05-4970 CC
	31		9-Jul-23 22-Sep-23		14-May-23			76	_	105	support (For eqipment, piping & duct, cable tray etc)	
									_			
l 28-Feb-23, Pipe	81		27-Aug-23 27-Aug-23	3	28-Feb-23	ay-21 A	5% 29	0	J5	105	Pipebridge B (Between CCCW Area & Iurbine Hall)	15-3560 Pi
	446 71 03 03 43 08 008 003 31 31 81 Vork	al Wo	5-Apr-23 10-Jun-23 9-May-23 09-May-23 0-Jun-23 10-Jun-23 0-Jun-23 10-Jun-23 5-Jun-23 10-Jun-23 0-Jul-23 10-Jun-23 9-Jul-23 10-Jun-23 9-Jul-23 22-Sep-23 9-Jul-23 27-Aug-23 7-Aug-23 27-Aug-23 Actual	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 2 3 2 3 2	25-Apr-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23	eb-21 A ay-21 A eb-21 A ay-21 A ay-21 A ay-21 A ay-21 A ay-21 A ay-21 A	5% 28 45% 31 5% 28 80% 31 65% 31 65% 31 65% 31 80% 28 80% 32 80% 28	57 0 0 0 0 0 0 0	05 05 05 05 05 05 05 05 05 05 05 05	105 105 105 105 105 105 105 105	Pipe Rack C1, C2, C3, D1 & D2 (Prefab.3) Compressed Air Plant area Pipebridge B (Between CCCW Area & Turbine Hall) Pipebridge C (Between Turbine Hall & ACC Equipment Yard) Turbine Hall ACC Equipment Yard CCCW Area	355-4350 Pi 355-4360 Co 355-4370 Pi 355-4370 Pi 355-4380 Pi 355-4380 Pi 355-4380 Pi 355-4380 Pi 355-4380 Pi 355-4390 Ai 355-43970 Co roccess steel structure support Co 35-3540 Pi 35-3560 Pi

	. EP/SP/66/12 lities, Phase 1
2	2023 Apr May
-Mar-23. B	65 66 Berth design (2.2.22), Berth design (2.2.22), 19-Mar-23
	30-Apr-23, 11kV/380V Power Trans
ks - MCC I ks - Proce ks E&I Ins	Process Island) (2.3.15.02.10), Electric Heat Tracing (Process Island) (2.3 Panels (2.3.15.02.01), Electrical Works - MCC Panels (2.3.15.02.01), 28-F ss Island Uninterruptable Power Supply (UPS) (2.3.15.02.03), Electrical W tallation at Yard (2.3.15.02.08), Electrical Works E&I Installation at Yard (trumentation (2.3.15.02.06), Electrical Works Instrumentation (2.3.15.02.06) 08-May-23, Electrical works
ited Equipr n works de	29-Mar-23, Electrical Works Design (2.3.15.03.01 to 04), Electrical Works ment (2.3.15.03.08), Generator Related Equipment (2.3.15.03.08), 28-Feb-2 sign(2.3.15.03.05 & 2.3.15.03.06), Instrumentation works design(2.3.15.03.0 03.07.01), Hardware Design (2.3.15.03.07.01), 28-Feb-23
	93.07.02), Software Design (2.3.15.03.07.02), 28-Feb-23
DCS - Sys	tem Networks Details (2.3.15.04.02), OMS/SCADA/DCS - System Network
	15-Apr-23, Automatic License Plate and Container Re
DCS - OLN	Panel Design for Power Island (2.3.15.04.03.01.02), OMS/SCADA/DCS -
DCS - Ser	ver Panel Design (2.3.15.04.03.03), OMS/SCADA/DCS - Server Panel Des
	ty System (2.3.15.04.06.01.01), Process Related 3rd Party System (2.3.15. 29-Mar-23, 3rd Party System for Power Island & Communication Data Table
unctional I Instrument	Mar-23, Balance of Plant LV Switchgear Design (2.3.15.05.01), Balance of 30-Mar-23, Package 3 (Balance of Plant) - Weighbridge Electrical & Instr Description (2.3.15.05.08), Waste Crane Functional Description (2.3.15.05. ation Works Design - Compressed Air Plants (2.3.15.06.03), Electrical an ation Works - Ash Crane (2.3.15.05.05), Electrical and Instrumentation Wo
Instrument	ation Works - Waste Crane and Grapple System (2.3.15.05.04), Electrical 30-Apr-23, Weighbridge Systems, 26-Apr-23, Incineration System (9 Packa
	26-Apr-23, Boiler Feed Water Systems (
ir Plants, (Com press ed Air Plants, 28-Feb-23
	25.4 pr 22 Dino Dook 01 02 02 D1 * D
Between C Between Tr urbine Hall nt Yard, AC	25-Apr-23, Pipe Rack C1, C2, C3, D1 & D éa, Compressed Air Plant area, 28-Feb-23 (CCW Area & Turbine Hall), Pipebridge B (Between CCCW Area & Turbine Wrbine Hall & ACC Equipment Yard), Pipebridge C (Between Turbine Hall & 28-Feb-23 (C Equipment Yard, 28-Feb-23 a, 28-Feb-23
Between C	14-May-23, Pipe R CCW Area & Turbine Hall), Pipebridge B (Between CCCW Area & Turbine

REPPEL SEGRERS - 2010 NULLION	Activity Name	Original Duration	Remaining Duration	Activity % Complete	Current Start	Current Finish	Late Start Late Finish	Total Flo	Dat M63 Remarks	Integrated Was	Mar
05-3570	Pipebridge C (Between Turbine Hall & ACC Equipment Yard)	105	0	5%	10 Jun 21 A	28-Feb-23	13-Sep-23 13-Sep-23	3 19	200	63	64 I 28-Feb-23, Pipebridge C (E
Equipment and piping insu		135	90	578		28-May-23	23-Jul-23 13-Feb-24				
05-4550	Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Station (PRDS)	105	0	5%	30-Jan-22 A	28-Feb-23	13-Feb-24 13-Feb-24	4 35	51		l 28-Feb-23, Steam Turbine
05-4560	Air cooled condenser	105	0			28-Feb-23	23-Jul-23 23-Jul-23		-		l 28-Feb-23, Air cooled cond
05-4570 DDA Fire services installatio	Closed Circuit Cooling Water System	105 60	60 60		31-Dec-21 A 28-Feb-23	28-May-23 28-Apr-23	02-Dec-23 30-Jan-24 22-Apr-23 20-Jun-23		47 53		
	Fire Systems	60	60		28-Feb-23	28-Apr-23	22-Apr-23 20-Jun-23		53	28-Feb-23	
05-3680	FS schematics	60	60	0%	28-Feb-23	28-Apr-23	22-Apr-23 20-Jun-23	8 5	53	28-Feb-23	
· · · ·	d Fire Saftey Strategy (2.3.25)	667	60			28-Apr-23	09-Mar-23 20-Jun-23		53		
	Process Building & Wastewater Treatment Plant ACC Equipment Structure	60 60	30 30			29-Mar-23	22-May-23 20-Jun-23 22-May-23 20-Jun-23		33 53		
05-3310	Turbine Hall Building	105	33			01-Apr-23	19-May-23 20-Jun-23	_	30		
05-3320	Compressor & CCCW Building	105	30			29-Mar-23	22-May-23 20-Jun-23	_	33		
05-3330	Chimney	60	30			29-Mar-23	22-May-23 20-Jun-23		33		
05-3340 05-3350	Elevated Drive Way and Associated Structures Reception Pavilion	105 60	30 30			29-Mar-23	22-May-23 20-Jun-23 22-May-23 20-Jun-23		33		
05-3520	Site Master Layout Plan and Plant Layout	60	30			29-Mar-23	22-May-23 20-Jun-23		33		
05-4170	Administration Building and Viewing Gallery (2.7.21)	60	30	5%	15-Dec-22 A	29-Mar-23	22-May-23 20-Jun-23		33		
05-4290	IW MF Substation (2.8.25)	105	30			29-Mar-23	09-Mar-23 07-Apr-23		9		
05-4800 05-5160	IWMF Site Wide Architectural Details Mechanical Treatment Plant & Water Treatment Plant (2.4.25)	105 60	30 30			29-Mar-23	22-May-23 20-Jun-23 22-May-23 20-Jun-23		33		
05-6110(M46)	Gate House and miscellaneous	60	60		28-Feb-23	28-Apr-23	22-May-23 20-Jun-23		53	28-Feb-23	
DA Mechanical Treatment P	ant Building (2.4)	271	120		28-Sep-22 A	27-Jun-23	13-Mar-23 20-Jul-23	2	23		
	Foundation design (2.4.13)	60	15			14-Mar-23	21-Mar-23 04-Apr-23		21		14-Mar-2
05-5180	Structural design (2.4.14) Fire services installation design (2.4.17)	60 60	60 60		28-Feb-23 28-Feb-23	28-Apr-23	13-Mar-23 11-May-23		13 53	28-Feb-23 28-Feb-23	
	cluding fire services installation design (2.4.17)	90	90		28-Feb-23 30-Mar-23	28-Apr-23 27-Jun-23	22-Apr-23 20-Jun-23 22-Apr-23 20-Jul-23		23	28-Fe0-23	
05-3870	Odour Control	90	90		30-Mar-23	27-Jun-23	22-Apr-23 20-Jul-23		23		30-N
DA Wastewater Treatment P		333	144			21-Jul-23	27-Mar-23 20-Sep-2		61		
05-3950	Electrical and instrumentation works design (2.5.15)	60	60 0		28-Feb-23	28-Apr-23	27-Mar-23 25-May-23		27	28-Feb-23	L 00 Est 00 Masteriatur
05-3960 05-3970	Mechanical works design (2.5.16) (5 Packages) Fire services installation design (2.5.17) (2 Packages)	232 60	60		28-Feb-23	28-Feb-23 28-Apr-23	25-May-23 25-May-23 22-Apr-23 20-Jun-23		37 53	28-Feb-23	
	cluding fire services installation design) (2.5.18)	90			24-Jun-22 A		29-Jun-23 20-Sep-2	_	51		
05-4000	Odour Control	90	84		24-Jun-22 A		29-Jun-23 20-Sep-2		51		
DA Water Treatment Plant E		362	89			27-May-23	13-Mar-23 19-Dec-2				
05-4060 05-4070	Foundation design (2.6.13) Structural design (2.6.14)	60 60	15 60			14-Mar-23	21-Mar-23 04-Apr-23 13-Mar-23 11-May-23		21		14-Mar-2
	Mechanical works design (2.6.16)	90	0			28-Feb-23	22-Jun-23 22-Jun-23				28-Feb-23, Mechanical wo
05-4100	Fire services installation design (2.6.17)	60	60	0%	28-Feb-23	28-Apr-23	22-Apr-23 20-Jun-23	5 5	53	28-Feb-23	
	cluding fire services installation design) (2.6.18)	90					22-Sep-23 19-Dec-2				
05-4120 Electrical and instrumentation	MVAC	90 238	89 0			27-May-23 28-Feb-23	22-Sep-23 19-Dec-23 20-Jul-23 20-Jul-23	_	13 1		
05-4080	Water Treatment Plant (WTP) - Variable Speed Drive (2.6.15.01)	238	0			28-Feb-23	20-Jul-23 20-Jul-23				I 28-Feb-23, Water Treatme
DA Administration Building	(2.7)	398	125		28-Apr-22 A	02-Jul-23	04-Mar-23 09-Sep-2	3 6	69		
05-4180	Foundation design (2.7.11)	105	0			28-Feb-23	15-Apr-23 15-Apr-23		17	00 E 00	28-Feb-23, Foundation des
05-4190 05-4210	Structural design (2.7.12) Fire services installation design (2.7.14)	105 60	105 60		28-Feb-23 28-Feb-23	12-Jun-23 28-Apr-23	28-May-23 09-Sep-23 22-Apr-23 20-Jun-23	-	39 53	28-Feb-23 28-Feb-23	
	cluding fire services installation design) (2.7.15)	125	125		28-Feb-23	02-Jul-23	04-Mar-23 04-Aug-23		33		
05-4220	Electrical Services and Lighting	75	75	0%	28-Feb-23	13-May-23	04-Mar-23 17-May-2	3	4 Revsied to 75days	28-Feb-23	
05-4230	MVAC	105	105		20-Mar-23	02-Jul-23	23-Mar-23 05-Jul-23		3		20-Mar-23 🗖
05-4250	Plumbing Drainage	105	105 105		28-Feb-23 28-Feb-23	12-Jun-23 12-Jun-23	22-Apr-23 04-Aug-23		53 23	28-Feb-23 28-Feb-23	
05-4260 05-4270	ELV	105	105		28-Feb-23	12-Jun-23	23-Mar-23 05-Jul-23 04-Mar-23 16-Jun-23		4	28-Feb-23	
DAIWMF Substation (2.8)		274	30		16-Oct-21 A	29-Mar-23	28-Feb-23 01-Aug-2		25		
	Fire services installation design (2.8.17)	60	5		17-Jun-22 A	04-Mar-23	28-Feb-23 04-Mar-23	3	0		Fire services installa
	cluding fire services installation design) (2.8.18)	151	30			29-Mar-23	28-Feb-23 01-Aug-23	_	25		
05-4990 05-5000	Electrical Services and Lighting MVAC	90	30 30			29-Mar-23	06-May-23 04-Jun-23 04-Apr-23 03-May-23		57 35		
05-5010	Plumbing	60	5			04-Mar-23	28-Feb-23 04-Mar-23		0		Plumbing, 04-Mar-23
05-5020	Drainage	60	5	0%	10-Nov-22 A	04-Mar-23	28-Feb-23 04-Mar-23	3	0		Drainage, 04-Mar-23
05-5030	ELV	90	30			29-Mar-23	03-Jul-23 01-Aug-23				
05-5030-1 Electrical and instrumentation	Building Management System (BMS)	60 90	5 30			04-Mar-23 29-Mar-23	28-Feb-23 04-Mar-23 04-Apr-23 03-May-23		0 35		Building Managemer
2.8.15.06		90	30			29-Mar-23 29-Mar-23	04-Apr-23 03-May-23		35		
05-4320	Electrical and instrumentation works design (2.8.15.06.01 to 40)	90	30	45%		29-Mar-23	04-Apr-23 03-May-2		35		
DA Chimney		90	90		14-Mar-22 A	28-May-23	08-May-23 05-Aug-2	3 6	69		
Month Rollir ge 5 of 14	g Programme (February 2023)						Act	maining V ual Work ical Rema	•	Actual MilestoneCritical Milestone	

ct No. EP/SP/66/12 Facilities, Phase 1
2023 Apr May
65 66
etween Tyrbine Hall & ACC Equipment Yard), Pipebridge C (Between Turbine Hall a
Generator;(STG) and Pressure Reducing and Desuperheating Station (PRDS), Stea enser, Air cooled condenser, 28-Feb-23
28-Apr-23, Fire Systems
28-Apr-23, FS schematics
29-Mar-23, Process Building & Wastewater Treatment Plant, Process Building & 28-Apr-23, ACC Equipment Structure
01-Apr-23, Turbine Hall Building, Turbine Hall Building, 01-Apr-23 29-Mar-23, Compressor & CCCW Building, Compressor & CCCW Buildin 29-Mar-23, Chimney, Chimney, 29-Mar-23
29-Mar-23, Elevated Drive Way and Associated Structures, Elevated Drive 29-Mar-23, Reception Pavilion, Reception Pavilion, 29-Mar-23
29-Mar-23, Site Master Layout Plan and Plant Layout, Site Master Layout P 29-Mar-23, Administration Building and Viewing Gallery (2.7.21), Adminis
29-Mar-23, IW MF Substation (2.8.25), IW MF Substation (2.8.25), 29-Mar-2 29-Mar-23, IW MF Site Wide Architectural Details, IW MF Site
29-Mar-23, Mechanical Treatment Plant & Water Treatment Plant (2.4.25), 28-Apr-23, Gate House and miscellar
3, Foundation design (2.4.13), Foundation design (2.4.13), 14-Mar-23
28-Apr-23, Structural design (2.4.14) 28-Apr-23, Fire services installation of
ar-23
28-Apr-23, Electrical and instrumenta
ks design (2.5.16) (5 Packages), Mechanical works design (2.5.16) (5 Packages), 2 28-Apr-23, Fire services installation of
3, Foundation design (2.6.13), Foundation design (2.6.13), 14-Mar-23
28-Apr-23, Structural design (2.6.14), ks design (2.6.16), Mechanical works design (2.6.16), 28-Feb-23 28-Apr-23, Fire services installation of
2
t Plant (WTP) - Variable Speed Drive (2.6.15.01), Water Treatment Plant (WTP) - V
gn (2.7.11), Foundation design (2.7.11), 28-Feb-23
28-Apr-23, Fire services installation c
13-May-23, Electric
ion design (2.8.17), 04-Mar-23, 04-Mar-23, Fire services installation design (2.8.17)
29-Mar-23, Electrical Services and Lighting, Electrical Services and Lighti 29-Mar-23, MVAC, MVAC, 29-Mar-23
04-Mar-23, Plumbing 04-Mar-23, Drainage
29-Mar-23, ELV, ELV, 29-Mar-23 System (BMS), 04-Mar-23, 04-Mar-23, Building Management System (BMS)
29-Mar-23, Electrical and instrumentation works design (2.8.15.06.01 to 40
i

	Activity Name	Original Duration	Remaining Duration	Activity % Current Start Complete	Current Finish	Late Start	Late Finish	Total Float M63 Remarks	Feb 63	N
05-5370	Structural Design	90	90	5% 14-Mar-22 A	28-May-23	08-May-23	05-Aug-23	69		
	d Associated Structures Foundation	90			28-May-23	· ·	01-Jul-23	34		
05-5380 05-5540-3(6D)	Structural Design Fire services installation design	90 60	90 60	0% 28-Feb-23 0% 28-Feb-23	28-May-23 28-Apr-23		01-Jul-23 20-Jun-23	34 53	28-Feb-23 28-Feb-23	-
DDA Reception Pavilion		90			28-May-23		15-Aug-23	79		
05-3280	Foundation Design	90	90	0% 28-Feb-23	28-May-23	03-May-23	31-Jul-23	64	28-Feb-23	-
05-5390	Structural Design	60	60	0% 28-Feb-23	28-Apr-23		05-Jul-23	68	28-Feb-23	
05-5540-4(6D)	Fire services installation design excluding fire services installation design)	60 90	60 90	0% 28-Feb-23 28-Feb-23	28-Apr-23 28-May-23		20-Jun-23	53 79	28-Feb-23	-
05-2130-1	Building Management System (BMS)	90		0% 28-Feb-23	28-May-23	_	15-Aug-23	79	28-Feb-23	_
05-7290	Electrical Services and Lighting	90		0% 28-Feb-23	28-May-23		15-Aug-23	79	28-Feb-23	-
DDA CCCW Building		90			28-May-23		20-Jun-23	23		
05-5540-5(6D)	Fire services installation design	60		0% 28-Feb-23	28-Apr-23		20-Jun-23	53	28-Feb-23	
Building services design (05-2130-2	excluding fire services installation design) Building Management System (BMS)	90 60	90 60	28-Feb-23 0% 28-Feb-23	28-May-23 28-Apr-23		04-Jun-23 04-Jun-23	37	28-Feb-23	
05-7340	Electrical Services and Lighting	90	90	0% 28-Feb-23	28-May-23		04-Jun-23	7	28-Feb-23	-
DDA Roadsand Utilities (2.		544	120	13-Jan-21 A	27-Jun-23	05-Mar-23	27-Dec-24	549		
Sewerage design on the A		122	60			17-Jun-23	27-Dec-24	609		
05-4440-1(M55)	Ship-to-shore Sewage Transfer System for WMF Vessels (Caisson 13)	90		45% 13-Jan-22 A			27-Dec-24	665		03-Mar-23, 8
05-4440-2(M55) Drainage system design of	Ship-to-shore Sewage Transfer System for Passenger Ferry n the Artificial Island (2.10.15)	90 105	60 0	45% 13-Jan-21 A 31-Dec-21 A	· ·		15-Aug-23 02-Dec-23	109 278		
05-5320	First Flush Drainage System concept	105			_		02-Dec-23	278		l 28-Feb-23, First
Water supply system desig	n on the Artificial Island (2.10.16)	301	120				03-Jan-24	190		
05-5290	WaterTanks	60	60	0% 29-Apr-23	27-Jun-23	09-May-23	07-Jul-23	10		
05-5300	External FS Systems	60	60	0% 28-Feb-23	28-Apr-23		07-Jul-23	70	28-Feb-23	
05-5300-1(M24)	E&M system for seawater intake (2.10.16.07) ion and other utilities (2.10.18)	105 302	75 90	5% 04-Apr-22 A 10-May-22 A	-		03-Jan-24 31-Oct-23	235 156		
05-3400 (M21)	Computerised Maintenance Management System (CMMS) (2.10.18.10)	105	30	80% 24-May-22 A	-		19-May-23	51		
05-3410 (M21)	Information and Document Management System (IDMS) (2.10.18.11)	105	60	45% 10-May-22 A		·	31-Oct-23	186		-
05-4590	Site Lighting Concept / Schematics	90	90	0% 28-Feb-23	28-May-23	09-Apr-23	07-Jul-23	40	28-Feb-23	
05-4610	Site ELV Network System - Communications System concept / schematics	75	30	5% 16-Aug-22 A		· ·	08-May-23	40		-
05-4620	Site ELV Network System - Security Systems concept / schematics	75	30	5% 14-Jun-22 A		· ·	08-May-23	40		
05-4630 05-4640	Site ELV Network System - Navigation aids concept / schematics Microwave transmission of FS direct link	60 105	60 30	0% 06-Mar-23 70% 22-Aug-22 A	04-May-23		08-May-23 03-Apr-23	5	U6-1	Mar-23
	s and Landscaping Works (2.11)	349			12-Jun-23		15-Jul-24	399		-
External and internal finisl	hes design	251	90	15-Jun-21 A	28-May-23	28-Feb-23	15-Jul-24	414		
05-4670	External and internal finishes design for Incineration Plant Building (2.11.15)	90		5% 19-Sep-22 A	· ·		07-Apr-24	345		[
05-4690 05-4700	External and internal finishes design for Turbine Hall Building External and internal finishes design for CCCW Building	90 90	9	45% 10-Aug-22 A 45% 10-Aug-22 A			02-Nov-23 16-Apr-23	239 39		08-Ma
05-4710	External and internal finishes design for Chimney	90	62	5% 02-Sep-22 A			26-May-24	392		
05-4720	External and internal finishes design for Reception Pavilion	90	60	45% 23-May-22 A			04-Aug-23	68		
05-4760	External and internal finishes design for the Administration Building (2.11.19)	90	60	5% 11-Jul-22 A	08-May-23	17-May-24	15-Jul-24	434		
05-4770	External and internal finishes design for the IWMF Substation (2.11.20)	90	5	75% 10-Aug-22 A			04-Mar-23	0		External a
05-5420	External and internal finishes design for Elevated Driveway	90	60 1 05	45% 15-Jun-21 A 29-Jun-22 A	-		01-Aug-23	95		
Landscaping Works (2.11.2 05-4780	Landscape Masterplan & Landscape Design for Water Feature (2.11.19.01)	121 105	105 105	5% 26-Jan-23 A			21-Jun-23 21-Jun-23	9		
05-4780-1(6C)	Landscape Architectural Design for Turbine Hall Building (2.11.19.04)	105	105	45% 29-Jun-22 A			21-Jun-23	9		-
05-4780-2(6C)	Landscape Architectural Design for Reception Pavilion (2.11.19.07)	105	105	5% 19-Oct-22 A	12-Jun-23	09-Mar-23	21-Jun-23	9		
05-4780-3(6C)	Landscape Architectural Design for MT Plant Building and Water Treatment Plant Building (2.11.07.	105	105	0% 28-Feb-23	12-Jun-23		21-Jun-23	9	28-Feb-23	
05-4780-4(6C)	Landscape Architectural Design for Administration Building (2.11.07.09)	105	105	5% 12-Jan-23 A			21-Jun-23	9		
05-4780-5(6C) 05-4780-6(6C)	Landscape Architectural Design for IWMF Substation (211.07.10) Landscape Architectural Design for Process Building (2.11.07.11)	105 105	105 105	5% 11-Jul-22 A 5% 10-Aug-22 A			21-Jun-23 21-Jun-23	9		
Facade Structural Design		275					14-Feb-24	292		
05-8010(M45)	IW MF Substation	90		0% 11-Jul-22 A		04-Mar-23	28-Mar-23	4		-
05-8020(6D)	Process Building & Wastewater Treatment Plant (2.6.14.01)	90	60	80% 07-Apr-22 A		_	14-Feb-24	292		
DA Testing and Commissi		122			30-May-23		29-Jan-24	244		
05-4810-1(5a) 05-4810-2(M55)	Factory Acceptance Testing plan (2.12.09.02-07) (8 Packages) FAT of DCS - Software SIL FAT Plant for Process Island (2.12.09.03.01)	90 105	32 10	5% 13-Jun-22 A 100% 19-May-22 A			29-Jan-24 01-Sep-23	244 176		09-N
. ,	es for the Operation (2.13)	341			31-May-23		10-Jul-23	40		
05-4850	Design of vehicles for MSW and Ash and Residues delivery (2.13.05)	341	93	0% 25-Jun-22 A			10-Jul-23	40		
)5-4860	Design of marine vessels for the use of the Employer and visitors (2.13.06)	93		0% 28-Feb-23	-		10-Jul-23	40	28-Feb-23	
DA Auxiliary Plant System		90			15-Mar-23		16-Mar-23	1		
05-4940-3(6E)	EOTC System (2.16.11)	90 981	16 369	5% 26-Apr-22 A	15-Mar-23 02-Mar-24		16-Mar-23 02-Jul-24	1		-
ocurement of Major										
f-site Fabrication of In aterial Procurement		981 180	369 60	28-Feb-21 A	02-Mar-24 28-Apr-23		21-Apr-24 16-Sep-23	50 141		
alona i rocarement		160	00	201 60-21 A	20 Apr 20					I
	ng Programme (February 2023)						L Rom	aining Work	Actual Milestone	

	. EP/SP/66/12 lities, Phase 1	最時保護署 Environmental Protection Department
	Apr	May
	65	66 2
	· 	
	4	2
		28-Apr-23, Fire services installation d
		28-Apr-23, Structural Design
	ý	28-Apr-23, Fire services installation d
	4	2
	J	2
	<u>.</u>	28-Apr-23, Fire services installation d
		28-Apr-23, Building Management Sys
		2
	; ; ;	
ore Sewag	ge Transfer System for IWMF	Vessels (Caisson 13), Ship-to-shore Sewage
		28-Apr-23, Ship-to-shore Sewage Tra
mage Sys	qeni concept, First Flush Drai	nage System concept, 28-Feb-23
	29-Apr	-23
		28-Apr-23, External FS Systems
		13-May-23, E&M sy
	29-Mar-23, Computerised Mai	ntenance Management System (CMMS) (2.1 28-Apr-23, Information and Document
		20,000 20,000 20,000 20
	29-Mar-23, Site ELV Network	System - Communications System concept /
	29-Mar-23, Site ELV Network	System - Security Systems concept / schem
	29 Mar 22 Microwayo transm	04-May-23, Site ELV Network sission of FS direct link, Microwave transmiss
	- 	28-Apr-23, External and internal finish
		oine Hall Building, External and internal finish CW Building, External and internal finishes de
		30-Apr-23, External and internal fini
		2
		08-May-23, External and i
finishes d	esign for the IWMF Substation	n (2.11.20), 04-Mar-23, 04-Mar-23, External ar
		28-Apr-23, External and internal finish
	1	
	······	
-		
2 4-Ma	r-23, IWMF Substation, IWMF	Substation, 24-Mar-23
		28-Apr-23, Process Building & Waste
	; ;	
of DCS -	Software SIL FAT Plant for P	rocess Island (2.12.09.03.01), FAT of DCS - S
23, EOTO	System (2.16.11), EOTC Sys	tem (2.16.11), 15-Mar-23
	<u>.</u>	

	Activity Name	Original Duration	Remaining Duration	Activity % Complete	Current Start	Current Finish	Late Start La	te Finish	Total Float M63 Remarks	Feb 63	
6-1000-3(1)	Electrical and Instrumentation Material Submission and Approval	180	60	58%	28-Feb-21 A	28-Apr-23	19-Jul-23 1	6-Sep-23	141	63	
brication of Module (TP	U)	859	369			02-Mar-24	04-Dec-22 2		50		
Fab 1- Line 1 E&I Installation (On-site I		463 346	251 189			05-Nov-23	28-Feb-23 0 01-May-23 0		0		
Electrical		183	183			30-Oct-23	01-May-23 3		0		
06-TPU-1-1280	PFab 1-Line 1 - Electrical Cable Pulling and Term ination	180	180	0%	04-May-23	30-Oct-23*	04-May-23 3		0		
06-TPU-1-1290	PFab 1-Line 1 - Electrical Equipment Installation	180	180		01-May-23*	27-Oct-23	01-May-23 2		0		
Instrument 06-TPU-1-1310	PFab 1-Line 1 - Instrument Cable Pulling and Termination	346 180	182 180		25-Nov-22 A 10-May-23	05-Nov-23 05-Nov-23	08-May-23 0		0		
06-TPU-1-1310	PFab 1-Line 1 - Instrument Cable Pulling and remmation	180	101			16-Aug-23	10-May-23 0 08-May-23 1		0		
06-TPU-1-1330	PFab 1-Line 1 - Instrument Tubing Installation	180	180		08-May-23	03-Nov-23	08-May-23 0		0		
nsulation		150	233			18-Oct-23	28-Feb-23 1		0		
06-TPU-1-1020	PFab 1-Line 1 - Insulation	150	233			18-Oct-23*	28-Feb-23 1		0		
Fab 1- Line 2		425 188	232 188		22-May-22 A 25-Mar-23	17-Oct-23 28-Sep-23	14-Dec-22 1 25-Mar-23 2		0		
Electrical		188	188		25-Mar-23	28-Sep-23	25-Mar-23 2	· ·	0		
06-TPU-2-1270	PFab 1-Line 2 - Electrical Cable Pulling and Term ination	180	180	0%	02-Apr-23	28-Sep-23	02-Apr-23 2	8-Sep-23	0		
06-TPU-2-1280	PFab 1-Line 2 - Electrical Equipment Installation	180	180		25-Mar-23	20-Sep-23	25-Mar-23 2		0		
nstrument 06-TPU-2-1300	PEab 1 Line 2 Instrument Cable Dulling and Termination	188	188		25-Mar-23	28-Sep-23	25-Mar-23 2		0		
06-TPU-2-1300 06-TPU-2-1310	PFab 1-Line 2 - Instrument Cable Pulling and Termination PFab 1-Line 2 - Instrument Equipment Installation	180 180	180 180		02-Apr-23 25-Mar-23	28-Sep-23* 20-Sep-23	02-Apr-23 2 25-Mar-23 2		0		
06-TPU-2-1320	PFab 1-Line 2 - Instrument Tubing Installation	180	180		25-Mar-23	20-Sep-23	25-Mar-23 2		0		
sulation		150	232			17-Oct-23	28-Feb-23 1		0		
6-TPU-2-1010	PFab 1-Line 2 - Insulation	150	232			17-Oct-23	28-Feb-23 1		0		
oad out & Shipping	DEat 1 line 0. Load at 8 reacture abia	20 20	9			08-Mar-23 08-Mar-23	14-Dec-22 2		-76 -76		
06-TPU-2-1030 elivery	PFab 1-Line 2 - Load out & ready to ship	20	9		24-Feb-23 A 09-Mar-23	08-Mar-23	14-Dec-22 2 23-Dec-22 2		-76	4-Feb-23 A, 24-Feb-23 A	PFa
6-TPU-2-1340	PFab 1-Line 2 - Delivery	1	1		09-Mar-23	09-Mar-23	23-Dec-22 2		-76) <mark>9-Mar-23 🛽 0</mark> 9
ab 1- Line 3		453	304		14-Jan-22 A	28-Dec-23	04-Dec-22 2	8-Dec-23	0		
tructure Erection		117	27			26-Mar-23	04-Jan-23 3		-55		
06-TPU-3-1090 06-TPU-3-1100	PFab 1-Line 3 - Top Floor(EL47.22m~EL54.47m) Prim ary & Secondary Steel Structure Erection PFab 1-Line 3 - Tertiary Structure Erection	39 90	11 27		-	10-Mar-23 26-Mar-23	13-Jan-23 2 04-Jan-23 3		-46 -55		F
echanical Erection		421	56			24-Apr-23	06-Dec-22 3		-84		
06-TPU-3-1120	PFab 1-Line 3 - Mechanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate)	80	47			15-Apr-23	15-Dec-22 3		-75		-
06-TPU-3-1130	PFab 1-Line 3 - Mechanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator)	80	56	30%	13-May-22 A	24-Apr-23	06-Dec-22 3	0-Jan-23	-84		
6-TPU-3-1140	PFab 1-Line 3 - Mechanical Installation - 3rd Floor(EL26.72m~EL37.72m) (Including Boiler Ash Tra	80	45			24-Apr-23	17-Dec-22 3		-84		
06-TPU-3-1150 iping Installation	PFab 1-Line 3 - Mechanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	56 119	56 58		28-Feb-23*	24-Apr-23 26-Apr-23	06-Dec-22 3		-84	28-Feb-23*	
06-TPU-3-1000	PFab 1-Line 3 - Piping Installation	119	58			26-Apr-23	04-Dec-22 3		-86		
&I Installation		117	58			26-Apr-23	04-Dec-22 3		-86		
16-TPU-3-1250	PFab 1-Line 3 - E&I Support Installation	45	58	0%	02-Dec-22 A	26-Apr-23	04-Dec-22 3	0-Jan-23	-86		
6-TPU-3-1260	PFab 1-Line 3 - E&I Cable Ladder Erection	45	58			26-Apr-23	04-Dec-22 3		-86		
Electrical 06-TPU-3-1290	PFab 1-Line 3 - Electrical Heat Tracing Installation (Installation by Yard)	26 26	26 26		01-Apr-23 01-Apr-23*	26-Apr-23 26-Apr-23	05-Jan-23 3 05-Jan-23 3		-86 -86		
06-TPU-3-1330	PFab 1-Line 3 - MCC room installation (Installation by Yard)	25	25		02-Apr-23*	26-Apr-23	06-Jan-23 3		-86		
sulation		150	304			28-Dec-23	28-Feb-23 2		0		
06-TPU-3-1010	PFab 1-Line 3 - Insulation	150	304			28-Dec-23*	28-Feb-23 2		0		
bad out & Shipping	DEab 1 Jine 2 Load aut 9 ready to a bin	20	20		27-Apr-23	16-May-23	31-Jan-23 1		-86		
06-TPU-3-1030 elivery	PFab 1-Line 3 - Load out & ready to ship	20 10	20 10		27-Apr-23* 17-Mav-23	16-May-23 26-May-23	31-Jan-23 1 20-Feb-23 0		-86 -86		
6-TPU-3-1340	PFab 1-Line 3 - Delivery	10	10		17-May-23	26-May-23	20-Feb-23 0		-86		
ab 1- Line 4		703	304			28-Dec-23	04-Dec-22 2		0		
tructure Erection		90	29			28-Mar-23	09-Jan-23 0		-50		
6-TPU-4-1150	PFab 1-Line 4 - Tertiary Structure Erection	90	29 53		•	28-Mar-23	09-Jan-23 0		-50		
echanical Erection 6-TPU-4-1040	PFab 1-Line 4 - Mechanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate)	424 80	53 53			21-Apr-23 21-Apr-23	04-Dec-22 2 04-Dec-22 2		-86 -86		
6-TPU-4-1050	PFab 1-Line 4 - Mechanical Installation - 2nd Floor (EL20.47m~EL26.72m) (Including Deareator)	80	53			21-Apr-23	04-Dec-22 2		-86		
6-TPU-4-1060	PFab 1-Line 4 - Mechanical Installation - 3rd Floor(EL26.72m~EL37.72m) (Including Boiler Ash Tra	80	53	33.75%	06-May-22 A	21-Apr-23	04-Dec-22 2	5-Jan-23	-86		
6-TPU-4-1070	PFab 1-Line 4 - Mechanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	40	40			21-Apr-23	17-Dec-22 2		-86		13-Mar-23*
6-TPU-4-1240	PFab 1-Line 4 - Mechanical Installation - Boiler Lifting & Installation	108	35 13		05-Jul-22 A	03-Apr-23 12-Mar-23	04-Dec-22 0		-86		
iping Fabrication 6-TPU-4-1220	PFab 1-Line 4 - Piping Fabrication	180 180	13			12-Mar-23 12-Mar-23	04-Dec-22 1 04-Dec-22 1		-86 -86		
iping Installation		62	13			03-May-23	25-Jan-23 0		-86		
06-TPU-4-1000	PFab 1-Line 4 - Piping Installation	62	13			03-May-23	25-Jan-23 0		-86		
&I Installation		52	52		13-Mar-23	03-May-23	17-Dec-22 0		-86		
6-TPU-4-1250	PFab 1-Line 4 - E&I Support Installation	45	45	0%	13-Mar-23*	26-Apr-23	17-Dec-22 3	0-Jan-23	-86		13-Mar-23*

♦ Milestone

Facil	. EP/SP/66/12 lities, Phase 1
2	2023 Apr May 65 66
	28-Apr-23, Electrical and Instrumenta
	04-May-23
	01-May-23*
	10-May-23
	08-May-23
)2-Apr-23	
)2-Apr-23	
Load out &	ready to ship, 08-Mar-23, 08-Mar-23, PFab 1-Line 2 - Load out & ready to :
ab 1-Line 2	- Delivery
	or(EL47.22m~EL54.47m) Prim ary & Secondary Steel Structure Erection, 1
P⊦a	b 1-Line 3 - Tertiary Structure Erection, 26-Mar-23, 26-Mar-23, PFab 1-Line
	PFab 1-Line 3 - Mechanical Installation - 1st Floor (Be PFab 1-Line 3 - Mechanical Installation - 2 PFab 1-Line 3 - Mechanical Installation - 3 24-Apr-23, PFab 1-Line 3 - Mechanical Installation
	PFab 1-Line 3 - Piping Installation, 26-A
	PFab 1-Line 3 - E&I Support Installation, PFab 1-Line 3 - E&I Cable Ladder Erecti
Apr-23* 2-Apr-23*	26-Apr-23, PFab 1-Line 3 - Electrical He 26-Apr-23, PFab 1-Line 3 - MCC room ir
	27-Apr-23* 16-May-23, PFa
	17-May-23 26-
PI	Fab 1-Line 4 - Tertiary Structure Erection, 28-Mar-23, 28-Mar-23, PFab 1-L
	PFab 1-Line 4 - Mechanical Installation - 1st F PFab 1-Line 4 - Mechanical Installation - 2nd F
	PFab 1-Line 4 - Mechanical Installation - 3rd F 21-Apr-23, PFab 1-Line 4 - Mechanical Installat PFab 1-Line 4 - Mechanical Installation - Boiler Lifting & Installation,
e 4 - Pipin	g Fabrication, 12-Mar-23, 12-Mar-23, PFab 1-Line 4 - Piping Fabrication
	PFab 1-Line 4 - Piping Installati
	26-Apr-23, PFab 1-Line 4 - E&I Support

	Activity Name	Original Duration	Remaining Duration	Activity % Current Start Complete	Current Finish	Late Start	Late Finish	Total Float M63 Remarks	Feb	Ma
06-TPU-4-1260	PFab 1-Line 4 - E&I Cable Ladder Erection	45	45	0% 20-Mar-23	03-May-23	24-Dec-22	06-Feb-23	-86	63	64 20-Mar-2
Electrical		26	26	08-Apr-23	03-May-23	12-Jan-23	06-Feb-23	-86		
06-TPU-4-1290	PFab 1-Line 4 - Electrical Heat Tracing Installation (Installation by Yard)	26	26	0% 08-Apr-23*	03-May-23	12-Jan-23	06-Feb-23	-86		
06-TPU-4-1330	PFab 1-Line 4 - MCC room installation (Installation by Yard)	25	25	0% 09-Apr-23*	03-May-23	13-Jan-23	06-Feb-23	-86		
nsulation		150	304	25-May-22 A	28-Dec-23	28-Feb-23	28-Dec-23	0		
06-TPU-4-1010	PFab 1-Line 4 - Insulation	150	304	0% 25-May-22 A	28-Dec-23	28-Feb-23	28-Dec-23	0		
oad out & Shipping		20	20	04-May-23	23-May-23		26-Feb-23	-86		
06-TPU-4-1030	PFab 1-Line 4 - Load Out & ready to ship	20	20	0% 04-May-23*	23-May-23		26-Feb-23	-86		
Delivery		10	10	24-May-23	02-Jun-23		08-Mar-23	-86		
06-TPU-4-1340	PFab 1-Line 4 - Delivery	10	10	0% 24-May-23	02-Jun-23		08-Mar-23	-86		
Fab 1- Line 5		742	369	23-Mar-21 A	_		21-Apr-24	50		
Structure Erection		482	126	14-Jan-22 A			09-Apr-23	-85		
06-TPU-5-1110	PFab 1-Line 5 - 2nd Floor(EL20.47m~EL26.72m) Primary & Secondary Steel Structure Erection	60	10	83.33% 12-Mar-22 A			14-Dec-22	-85		
06-TPU-5-1120	PFab 1-Line 5 - 3rd Floor(EL26.72m~EL37.72m)Primary & Secondary Steel Structure Erection	60	16	73.33% 02-Dec-22 A			20-Dec-22	-85		
06-TPU-5-1130	PFab 1-Line 5 - 4th Floor(EL37.72m~EL47.22m) Primary & Secondary Steel Structure Erection	60	11	81.67% 16-Dec-22 A	· ·		22-Jan-23	-85		
06-TPU-5-1140	PFab 1-Line 5 - Top Floor(EL47.22m~EL54.47m) Primary & Secondary Steel Structure Erection	77	77	0% 18-Apr-23	03-Jul-23		09-Apr-23	-85		
06-TPU-5-1150	PFab 1-Line 5 - Tertiary Structure Erection	90	69	23.33% 14-Jan-22 A			07-Apr-23	-66		
Achanical Erection		483	118	02-Mar-22 A			01-Apr-23	-85		
06-TPU-5-1040	PFab 1-Line 5 - Mechanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate)	80	88	0% 02-Mar-22 A			02-Mar-23	-85		Max 00t
06-TPU-5-1050	PFab 1-Line 5 - Mechanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator)	80	80	0% 08-Mar-23*	26-May-23		02-Mar-23	-85		Mar-23*
06-TPU-5-1060	PFab 1-Line 5 - Mechanical Installation - 3rd Floor(EL26.72m~EL37.72m) (Including Boiler Ash Tra	80	80	0% 07-Apr-23	25-Jun-23		01-Apr-23	-85		
06-TPU-5-1070	PFab 1-Line 5 - Mechanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	80	80	0% 07-Apr-23	25-Jun-23		01-Apr-23	-85	E-t- 20 A	
06-TPU-5-1240	PFab 1-Line 5 - Mechanical Installation - Boiler Lifting & Installation	80	109	0% 12-Feb-23 A			23-Mar-23	-85	I-Feb-23 A	
Piping Fabrication	DEsk 4 Line 5 - Divise Eskelenting	180	1	23-Mar-21 A			05-Dec-22	-85		DE-h 4 Line E
06-TPU-5-1220	PFab 1-Line 5 - Piping Fabrication	180	1	99.44% 23-Mar-21 A			05-Dec-22	-85		PFab 1-Line 5 -
Piping Installation 06-TPU-5-1000	PEch 1 Line E. Dising Installation	121	121 121	03-Mar-23 0% 03-Mar-23	01-Jul-23 01-Jul-23		07-Apr-23	-85 -85	03-Mar-2	
	PFab 1-Line 5 - Piping Installation	121					07-Apr-23		03-1441-2	
&I Installation 06-TPU-5-1250	PFab 1-Line 5 - E&I Support Installation	52 45	52 45	11-May-23 0% 11-May-23*	01-Jul-23 24-Jun-23		07-Apr-23 31-Mar-23	-85 -85		
06-TPU-5-1260	PFab 1-Line 5 - E&I Cable Ladder Erection	43	45	0% 11-May-23	01-Jul-23		07-Apr-23	-85		
		43 26	45 26	0% 18-May-23	01-Jul-23		07-Apr-23	-85		
Electrical 06-TPU-5-1290	PFab 1-Line 5 - Electrical Heat Tracing Installation (Installation by Yard)	26	26	0% 06-Jun-23*	01-Jul-23		07-Apr-23 07-Apr-23	-85		
06-TPU-5-1330	PFab 1-Line 5 - MCC room installation (Installation by Yard)	26 25	20	0% 06-Jun-23*	01-Jul-23		07-Apr-23	-85		
nsulation	Prad 1-Line 5 - MCC room instantion (instantion by fait)	150	369	0% 07-Jun-23			21-Apr-24	-85		
06-TPU-5-1010	PFab 1-Line 5 - Insulation	150	369	0% 04-Jun-22 A		· ·	21-Apr-24 21-Apr-24	50		
	Frab I-Line 5 - Insulation	20	20	0% 04-Jul-22 A	21-Jul-23		27-Apr-23	-85		
oad out & Shipping 06-TPU-5-1030	PFab 1-Line 5 - Load Out & ready to ship	20	20	0% 02-Jul-23*	21-Jul-23		27-Apr-23	-85		
Delivery		10	10	22-Jul-23	31-Jul-23		07-May-23	-85		
06-TPU-5-1340	PFab 1-Line 5 - Delivery	10	10	0% 22-Jul-23	31-Jul-23	· ·	07-May-23	-85		
Fab 1- Line 6		721			04-Feb-24	-	04-Feb-24	0		
tructure Erection		366	62	08-Apr-22 A			14-Apr-23	-16		
06-TPU-6-1110	PFab 1-Line 6 - 2nd Floor(EL20.47m~EL26.72m) Primary & Secondary Steel Structure Erection	60	3	95% 08-Apr-22 A			04-Jan-23	-57		PFab 1-Line 6
06-TPU-6-1120	PFab 1-Line 6 - 3rd Floor(EL26.72m~EL37.72m)Primary & Secondary Steel Structure Erection	45	16				24-Jan-23	-50		
06-TPU-6-1130	PFab 1-Line 6 - 4th Floor(EL37.72m~EL47.22m) Primary & Secondary Steel Structure Erection	30	15	50% 02-Sep-22 A			09-Feb-23	-50		
06-TPU-6-1140	PFab 1-Line 6 - Top Floor(EL47.22m~EL54.47m) Prim ary & Secondary Steel Structure Erection	30	30	0% 01-Apr-23	30-Apr-23		20-Mar-23	-41		
06-TPU-6-1150	PFab 1-Line 6 - Tertiary Structure Erection	144	59	59.03% 15-Apr-22 A			14-Apr-23	-13		
lechanical Erection		419	61	03-Mar-22 A			03-Mar-23	-57		<u></u>
06-TPU-6-1160	PFab 1-Line 6 - Mechanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate)	80	54	32.5% 03-Mar-22 A			24-Feb-23	-57		
06-TPU-6-1170	PFab 1-Line 6 - Mechanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator)	80	54	32.5% 20-May-22 A			24-Feb-23	-57		
06-TPU-6-1180	PFab 1-Line 6 - Mechanical Installation - 3rd Floor(EL26.72m~EL37.72m) (Including Boiler Ash Tre	80	54	32.5% 19-Aug-22 A			24-Feb-23	-57		
06-TPU-6-1190	PFab 1-Line 6 - Mechanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	39	39	0% 15-Mar-23*	22-Apr-23		24-Feb-23	-57		15-Mar-23*
06-TPU-6-1240	PFab 1-Line 6 - Mechanical Installation - Boiler Lifting & Installation	80	2	97.5% 15-Nov-22 A	· ·		03-Mar-23	-57		
iping Fabrication		180	13	23-Mar-21 A			14-Jan-23	-57		
06-TPU-6-1220	PFab 1-Line 6 - Piping Fabrication	180	13	92.78% 23-Mar-21 A	12-Mar-23	02-Jan-23	14-Jan-23	-57		P
iping Installation		87	87	16-Mar-23	10-Jun-23		14-Apr-23	-57		
06-TPU-6-1000	PFab 1-Line 6 - Piping Installation	87	87	0% 16-Mar-23*	10-Jun-23	18-Jan-23	14-Apr-23	-57		16-Mar-23*
&I Installation		52	52	20-Apr-23	10-Jun-23	22-Feb-23	14-Apr-23	-57		
C TDU C 1050	PFab 1-Line 6 - E&I Support Installation	45	45	0% 20-Apr-23*	03-Jun-23	22-Feb-23	07-Apr-23	-57		
J6-1PU-6-1250	PFab 1-Line 6 - E&I Cable Ladder Erection	45	45	0% 27-Apr-23	10-Jun-23	01-Mar-23	14-Apr-23	-57		
		26	26	16-May-23	10-Jun-23	20-Mar-23	14-Apr-23	-57		
06-TPU-6-1260		26	26	0% 16-May-23*	10-Jun-23	20-Mar-23	14-Apr-23	-57		
06-TPU-6-1260 Electrical	PFab 1-Line 6 - Electrical Heat Tracing Installation (Installation by Yard)				10 lum 00	21-Mar-23	14-Apr-23	-57		
06-TPU-6-1260 E lectrical 06-TPU-6-1290	PFab 1-Line 6 - Electrical Heat Tracing Installation (Installation by Yard) PFab 1-Line 6 - MCC room installation (Installation by Yard)	25	25	0% 17-May-23*	10-Jun-23					
06-TPU-6-1260 Electrical 06-TPU-6-1290 06-TPU-6-1330			25 342	0% 17-May-23* 08-Jul-22 A	04-Feb-24		04-Feb-24	0		
36-TPU-6-1250 36-TPU-6-1260 Electrical 06-TPU-6-1290 06-TPU-6-1330 isulation 36-TPU-6-1010		25				28-Feb-23	04-Feb-24 04-Feb-24	0		
06-TPU-6-1260 Electrical 06-TPU-6-1290 06-TPU-6-1330 Isulation	PFab 1-Line 6 - MCC room installation (Installation by Yard)	25 150	342	08-Jul-22 A	04-Feb-24	28-Feb-23 28-Feb-23		-		

♦ Milestone

Critical Remaining Work

	. EP/SP/66/12 lities, Phase 1	環境保護署 Environmental Protection Department
2	023 Apr	May
	65	66 03-May-23, PFab 1-Line 4 - E&I
	pr-23* Apr-23*	03-May-23, PFab 1-Line 4 - Elec 03-May-23, PFab 1-Line 4 - MC0
	04	I-May-23* 23-May
		24-May-23
	d Floor(EL26.72m~EL37.72	nary & Secondary Steel Structure Erection, 05 m)Primary & Secondary Steel Structure Erec 1-Line 5 - 4th Floor(EL37.72m~EL47.22m) Pr
		PFa
		26-
	pr-23 pr-23	
07-A		
prication, 2	28-Feb-23, 28-Feb-23, PFab	1-Line 5 - Piping Fabrication
		11-May-23*
		18-May-23
		06-Jur
		07-Ju
	d Floor(EL26.72m - EL37.72 PFab 1-Line 6 - 4th Floor(E	PFab 1-Line 6 - Tertiary Structure Erect
		PFab 1-Line 6 - Mechanical Installation - 1st PFab 1-Line 6 - Mechanical Installation - 2nd
	{	PFab 1-Line 6 - Mechanical Installation - 3rd
		22-Apr-23, PFab 1-Line 6 - Mechanical Instal
e 6 - Pipin	g Fabrication, 12-Mar-23, 12-	PFab 1-Line 6 - Mechanical Installati Mar-23, PFab 1-Line 6 - Piping Fabrication
	20-Apr-23*	
	27-Apr-2	3
		16-May-23*
		17-May-23*

	Activity Name	Original Duration	Duration	Activity % Complete	Current Start	Current Finish	Late Start	Late Finish	Total Float M63 Remarks	Feb	Mar
Delivery		10	10)	01-Jul-23	10-Jul-23	05-May-23	14-May-23	-57	63	64
06-TPU-6-1340	PFab 1-Line 6 - Delivery	10	10		01-Jul-23	10-Jul-23	05-May-23	•	-57		
abrication of Module (F		812	309		03-Jun-21 A		07-Dec-22		0		<u>19-Mar-23* I</u>
abrication of Mega Ste f-site Fabrication of		60 545	32 149		22-Jan-23 A 30-Oct-21 A	31-Mar-23	02-Jan-23 27-Jan-23	· · · · · · · · · · · · · · · · · · ·	-30	27-Feb-23 A	11-Mar-23, F
abrication of Module (F		545	149		30-Oct-21 A		27-Jan-23		-30		
Turbine Module 1		109	19		06-Jan-23 A		04-Apr-23		35		
06-4040-1(M55)	Turbine Module 1 - TBS Tower 1 Erection & Installation	31	4	87.1%	06-Jan-23 A	03-Mar-23	04-Apr-23	07-Apr-23	35		03-Mar-23, Turbine Mo
06-4080(6)	Turbine Module 1 - Delivery	15	15		04-Mar-23	18-Mar-23	08-Apr-23	· ·	35	04-Mar-23	18-1
Turbine Module 2	Turbing Madela O. Our mater & Environment la della fina	545	149		28-Jan-22 A		27-Jan-23		-32		
06-4220(6) 06-4240(6)	Turbine Module 2 - Generator & Equipment Installation Turbine Module 2 - TBS Tower 2 Fabrication	450 46	15 57		28-Jan-22 A 20-Oct-22 A		25-Apr-23 27-Jan-23	-	-32		14-Mar-2
06-4240-1(M55)	Turbine Module 2 - TBS Tower 2 Erection & Installation	46	46		26-Apr-23	10-Jun-23	25-Mar-23		-32		
06-4280(6)	Turbine Module 2 - Delivery	46	46	6 0%	11-Jun-23	26-Jul-23	10-May-23	24-Jun-23	-32		
Turbine Module 3		515	149		30-Oct-21 A			26-Jun-23	-30		
06-4410(6)	Turbine Module 3 - Steam Turbine 3 Fabrication	450	30		27-Feb-22 A		27-Apr-23	-	58		
06-4420(6) 06-4440(6)	Turbine Module 3 - Generator & Equipment Installation Turbine Module 3 - TBS Tower 3 Fabrication	450	30 57		27-Feb-22 A 30-Oct-21 A		27-Apr-23 13-Feb-23		-15		
06-4440(0) 06-4440-1(M55)	Turbine Module 3 - TBS Tower 3 Erection & Installation	46	46		26-Apr-23	10-Jun-23	11-Apr-23		-15		
06-4480(6)	Turbine Module 3 - Del ivery	31	31		26-Jun-23	26-Jul-23	27-May-23		-30		
ocurement for ACC	Units	502	118	8	28-Feb-22 A	25-Jun-23	06-Apr-23	28-Aug-23	64		
6-1120-1	Off-site Fabrication of ACC-2 Units	178	77	7 56.74%	28-Feb-22 A	15-May-23	06-May-23	21-Jul-23	67		
6-1120-2	Off-site Fabrication of ACC-3 Units	178	118		28-Feb-22 A		03-May-23		64		
6-1130	Factory Acceptance Test (FAT) for ACC-1	60	51		28-Sep-22 A	· ·	06-Apr-23	-	37		
6-1160	Delivery to Site ACC-1 W Building Equipment	21 60	21 56		20-Apr-23	10-May-23	27-May-23 18-Aug-23		37 171		
6-1420(1)	Factory Acceptance Test (FAT)	60	56		23-Feb-23 A		18-Aug-23		171	-Feb-23 A, 23-Feb-23 A	
.,	nanical Treatment Plant Building Plant Equipment	469	185			31-Aug-23	09-Aug-23		162		
6-1150-1(1)	Mechanical Equipment Material Submission and Approval	180	28	84.44%	30-Jun-22 A	27-Mar-23	14-Dec-23	10-Jan-24	289		
6-1150-2(1)	Pipe Material Submission and Approval	180	28		30-Jun-22 A		14-Dec-23		289		
6-1150-3(1)	Electrical and Instrumentation Material Submission and Approval	180	28		30-Jun-22 A		13-Jan-24		319		
6-1160-1(1) 6-1160-2(1)	Mechanical Equipment Procurement (Incl. FAT) Pipe Material Procurement (Incl. FAT)	217	155		30-Jun-22 A 30-Jun-22 A	-	09-Aug-23 23-Sep-23		162 207		1
6-1160-3(1)	Electrical and Instrumentation Material Procurement (Incl. FAT)	180	185		08-Dec-22 A		09-Aug-23		162		
.,	ewater Treatment Plant Equipment	132	120			27-Jun-23	25-May-23		27		
6-1190-1(1)	Mechanical Equipment Material Submission and Approval	90	31	65.56%	23-Jun-22 A	30-Mar-23	25-May-23	24-Jun-23	86		
6-1190-2(1)	Pipe Material Submission and Approval	90	31	65.56%	23-Jun-22 A	30-Mar-23	25-May-23	24-Jun-23	86		
6-1190-3(1)	Electrical and Instrumentation Material Submission and Approval	90	31		29-Jul-22 A	28-May-23	25-May-23		27		
6-1200-1(1)	Mechanical Equipment Procurement (Incl. FAT)	31	31		28-Feb-23	30-Mar-23	25-May-23 25-May-23		86		
6-1200-2(1) 6-1200-3(1)	Pipe Material Procurement (Incl. FAT) Electrical and Instrumentation Material Procurement (Incl. FAT)	0	31 60		28-Feb-23 09-Aug-22 A	30-Mar-23	25-May-23 26-May-23		86 27	28-Feb-23	
	al & Demin Plant Equipment	484	92		-	30-May-23	21-Jun-23		113		
6-1230-1(1)	Mechanical Equipment Material Submission and Approval	90	30		08-Jan-22 A	-	23-Jun-23		115		
6-1230-2(1)	Pipe Material Submission and Approval	90	30	66.67%	08-Jan-20 A	29-Mar-23	23-Jun-23	22-Jul-23	115		
6-1230-3(1)	Electrical and Instrumentation Material Submission and Approval	90	30		16-Apr-20 A		23-Jun-23		115		
5-1240-1(1)	Mechanical Equipment Procurement (Incl. FAT)	60	30		01-Jun-22 A		22-Aug-23		145		
-1260-1(M55) -1260-2(M55)	WTP chemical storage tank Material Submission and Approval	120	62		21-Apr-22 A		21-Jun-23	-	113 113		
, ,	WTP chemical storage tank Procurement (Incl. FAT) ransformers and Associated Equipment	393	120		22-Apr-22 A 31-May-22 A		21-Jul-23 07-Mar-23		81		
rocurement of Transfo		120	120		-	27-Jun-23	20-May-23		81		
06-1290(1)	Factory Acceptance Test (FAT)	120	120) 0%	28-Feb-23	27-Jun-23	20-May-23	· · · · ·	81	28-Feb-23	
rocurement of Switchb	oard/Pannels and Cables	393	120	-	31-May-22 A		07-Mar-23	04-Jul-23	7		
06-2090(1)	Material Submission and Approval	60	30		31-May-22 A		07-Mar-23		7		
06-2100(1)	Material & Equipment Procurement	240	60		31-May-22 A		06-Apr-23		7		30-N
06-2110(1)	Factory Acceptance Test (FAT) Irol SCADA Systems	90 408	90 135		30-Mar-23 23-May-22 A	27-Jun-23	06-Apr-23 20-Apr-23		51		30-1
6-1310	Scada System Procurement, Panel Assembly & Wiring	140	15		23-May-22 A		20-Apr-23	· · ·	51		14-Mar-
6-1330	Factory Acceptance Test (FAT)	120	120		15-Mar-23	12-Jul-23	05-May-23		51		15-Mar-23
ocurement for Onsl	nore Crane at Berth	60	2	2	04-Dec-22 A	01-Mar-23	28-Jul-23	29-Jul-23	150		
6-1350	Supplier Submission and Approval	60	2	96.67%	04-Dec-22 A		28-Jul-23		150		01-Mar-23, Supplier Sul
	site Fabrication of Pipe Bridges (Incl. Pipings)	258	107			14-Jun-23	25-Feb-23		87		
<mark>abrication of Pipe Racl</mark> Pipe Rack 2	k (Pretab.3)	194	31			30-Mar-23	08-Aug-23		163		
06-5090(6)	Piping installation	61	2			01-Mar-23 01-Mar-23	08-Aug-23 08-Aug-23		161 161		01-Mar-23, Piping instal
Pipe Rack 3	·	168	31			30-Mar-23	-	09-Sep-23	163		·····
06-5150(6)	Erection & Fabrication	60				04-Mar-23	10-Aug-23		163		04-Mar-23, Erection
	ling Programme (February 2023)	60		<u>, 51.07 /6</u>	- 57 IVIGI-22 M	. <u>0- 19101-20</u>		Rema	ining Work I Work al Remaining Work	 Actual Milestone Critical Milestone 	

	2023
	227-May-2313-Jun
ricatior	of Steel Structure (FM2) & Delivery
	BS Tower 1 Erection & Installation, Turbine Module 1 - TBS Tower 1 Erect rbine Module 1 - Delivery
Turbine	Module 2 - Generator & Equipment Installation, Turbine Module 2 - Gene Turbine Module 2 - TBS Tower 2 Fabrica
	26-Apr-23
	29-Mar-23, Turbine Module 3 - Steam Turbine 3 Fabrication, Turbine Mod 29-Mar-23, Turbine Module 3 - Generator & Equipment Installation, Turbin
	Turbine Module 3 - TBS Tower 3 Fabrica 26-Apr-23
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	15-May-23, Off
	19-Apr-23, Factory Acceptance Test (FAT) for A
	20-Apr-23 10-May-23, Delivery t 24-Apr-23, Factory Acceptance Test (FAT
27	Mar-23, Mechanical Equipment Material Submission and Approval, Mec
27	Mar-23, Pipe Material Submission and Approval, Pipe Material Submission Mar-23, Pipe Material Submission and Approval, Pipe Material Submission Mar-23, Electrical and Instrumentation Material Submission and Approv
	30-Mar-23, Mechanical Equipment Material Submission and Approval, 1 30-Mar-23, Pipe Material Submission and Approval, Pipe Material Subm
	30-Mar-23, Mechanical Equipment Procurement (Incl. FAT) 30-Mar-23, Pipe Material Procurement (Incl. FAT)
	29-Mar-23, Mechanical Equipment Material Submission and Approval, M 29-Mar-23, Pipe Material Submission and Approval, Pipe Material Subm 29-Mar-23, Electrical and Instrumentation Material Submission and App 28-Apr-23, Mechanical Equipment I 30-Apr-23, WTP chemical storag
	29-Mar-23, Material Submission and Approval, Material Submission and
23 🗖	· ·
Scada	şystem Procurement, Panel Assembly & Wiring, Scada System Procur
sion a	nd Approval, Supplier Submission and Approval, 01-Mar-23
on, Pipi	ng installation, 01-Mar-23

06-5310(6)Erection & Fa06-5320(6)Piping installaPipe bridge B1 & B2 on the Roof of Turbio06-5360(6D)Structure Cutto06-5370(6D)Erection & Fa06-5380(6D)Piping installaabrication of Pipe Bridge CPipe Bridge C between Turbine Hall & ACC06-5380(6D)Structure Cutto06-5400(6)Structure Cutto06-5400(6)Erection & Fa06-5420(6)Piping installaPipe Bridge C between Turbine Hall & ACC06-5420(6)Piping installaPipe Bridge C between Turbine Hall & ACC06-5450(6)Erection & Fa06-5460(6)Piping installaPipe Bridge C between Turbine Hall & ACC06-5460(6)Piping installaPipe Bridge C between Turbine Hall & ACC06-5460(6)Piping installaPipe Bridge C between Turbine Hall & ACC06-5460(6)Piping installaOctarement for LV Electrical System6-1440Material & Eq06-1820(6C)Material Subr06-1810(6)Material Subr06-1820(6)Factory Acc q06-1830(6)Delivery to Sit06-1820(6)Material & Eq06-1820(6)Material & Eq06-1820(6)Material & Eq06-1820(6)Material & Eq06-1820(6)Material & Eq06-1820(6)Material & Eq06-1830(6)Delivery to Sit06-1820(6)Material & Eq06-1820(6)Material & Eq06-1820(6)Material & Eq06-1820	bine Hall Cutting, Painting & Pre-assembly Fabrication tallation tbine Hall Cutting, Painting & Pre-assembly Fabrication tallation Cutting, Painting Cutting, Painting & Pre-assembly Fabrication tallation Cutting, Painting Cutting, Painting, Painting Cutting, Painting, Painting Cutting, Painting Cutting, Painting Cutting, Painting Cutting, Painting Cutting, Painting, Painting Cutting, Painting, Painting Cutting, Painting, Pa	61 258 258 258 180 31 46 258 30 31 46 258 300 31 46 256 253 14 61 46 102 61 46 105 61 46 105 61 46 102 61 46 105 61 46 105 61 46 180 120 30 120	26 107 107 30 31 46 107 30 31 46 105 102 0 56 46 102 56 46 102 56 46 105 59 46 0 0 0 59 46 0 0 0 0 0 0 0 0 0 0 0 0 0	15-Oct-21 A 15-Oct-21 A 83.33% 15-Oct-21 A 0% 30-Mar-23 0% 30-Apr-23 15-Oct-22 A 0% 0% 30-Mar-23 0% 30-Mar-23 0% 30-Mar-23 0% 30-Apr-23 18-Oct-22 A 18-Oct-22 A 18-Oct-22 A 100% 18-Oct-22 A 100% 18-Oct-22 A 23-Feb-23A 0% 25-Apr-23 23-Feb-23A 0% 25-Apr-23 23-Feb-23A 23-Feb-23A 3.28% 23-Feb-23A	14-Jun-23 14-Jun-23 29-Mar-23 29-Apr-23 14-Jun-23 29-Mar-23 29-Apr-23 14-Jun-23 29-Apr-23 14-Jun-23 29-Apr-23 29-Apr-23 14-Jun-23 29-Apr-23 24-Apr-23 09-Jun-23 28-Feb-23 24-Apr-23 09-Jun-23 09-Jun-23 09-Jun-23	Is-Aug-23 O9-Sep-23 15-Aug-23 26-Jun-23 12-Mar-23 26-Jun-23 12-Mar-23 26-Jun-23 12-Mar-23 26-Jun-23 11-Apr-23 11-May-23 12-Mar-23 26-Jun-23 12-Mar-23 26-Jun-23 12-Mar-23 26-Jun-23 12-Mar-23 26-Jun-23 12-Mar-23 10-Apr-23 11-Apr-23 11-May-23 12-May-23 26-Jun-23 25-Feb-23 10-Apr-23 25-Feb-23 10-Jun-23 25-Feb-23 07-Jun-23 25-Feb-23 25-Feb-23 26-Feb-23 22-Apr-23 26-Feb-23 22-Apr-23 23-Apr-23 07-Jun-23 26-Feb-23 07-Jun-23 26-Feb-23 07-Jun-23 26-Feb-23 07-Jun-23	163 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 <th>63</th> <th></th>	63	
Pipe Bridge B Between CCCW and Turbin06-5300(6)Structure Cutt06-5310(6)Erection & Fa06-5320(6)Piping installaPipe bridge B1 & B2 on the Roof of Turbit06-5360(6D)06-5380(6D)Structure Cutt06-5380(6D)Piping installaabrication of Pipe Bridge CPipe Bridge C between Turbine Hall & AC06-5400(6)Structure Cutt06-5410(6)Erection & Fa06-5420(6)Piping installaPipe Bridge C between Turbine Hall & ACC06-5450(6)Erection & Fa06-5460(6)Piping installaPipe Bridge C between Turbine Hall & ACC06-5450(6)Erection & Fa06-5460(6)Piping installaPipe Bridge C between Turbine Hall & ACC06-5490(6)Erection & Fa06-5490(6)Erection & Fa06-5400(6)Piping installaOcurement for LV Electrical System6-1440Material & Eq06-1820(6)Material Subr06-1820(6)Factory Acc06-1820(6)Delivery to Si06-1820(6)Factory Acc06-1830(6)Delivery to Si06-1830(6)Delivery to Si06-1830(6)Factory Acc06-1820Material & Eq06-1820Factory Acc06-1830Material & Eq06-1910Material & Eq06-1920Factory Acc06-1930EOTC Deliver06-1930EOTC Deliver06-1930EOTC Deliver06-1930EOTC Deliver06	Cutting, Painting & Pre-assembly Fabrication rbine Hall Cutting, Painting & Pre-assembly Fabrication tallation ACC -1 Cutting, Painting & Pre-assembly Fabrication tallation ACC -2 Fabrication tallation ACC -3 Fabrication tallation Equipment Procurement dor Treatment System ubmission and Approval ubmission at Equipment Procurement (for IWMF Substation)	258 180 31 46 258 30 31 46 256 253 14 61 46 102 61 46 102 61 46 102 61 46 102 61 46 102 61 46 102 61 46 105 61 46 105 61 46 180 180 120 30	107 30 31 46 107 30 31 46 105 102 0 56 46 102 56 46 105 59 46 0 0 0	15-Oct-21 A 83.33% 15-Oct-21 A 0% 30-Mar-23 0% 30-Apr-23 15-Oct-22 A 0% 0% 15-Oct-22 A 0% 30-Mar-23 0% 30-Apr-23 0% 30-Apr-23 18-Oct-22 A 18-Oct-22 A 100% 18-Oct-22 A 100% 18-Oct-22 A 23-Feb-23 A 25-Apr-23 0% 25-Apr-23 0% 25-Apr-23 0% 25-Apr-23 3.28% 23-Feb-23A	14-Jun-23 29-Mar-23 29-Apr-23 14-Jun-23 29-Mar-23 29-Apr-23 14-Jun-23 29-Apr-23 14-Jun-23 29-Apr-23 28-Feb-23 28-Feb-23 24-Apr-23 09-Jun-23 09-Jun-23 29-Apr-23	12-Mar-23 26-Jun-23 12-Mar-23 10-Apr-23 11-Apr-23 11-May-23 12-Mar-23 26-Jun-23 12-Mar-23 26-Jun-23 12-Mar-23 10-Apr-23 12-Mar-23 10-Apr-23 12-Mar-23 10-Apr-23 11-Apr-23 11-May-23 12-May-23 26-Jun-23 25-Feb-23 10-Jun-23 25-Feb-23 25-Feb-23 26-Feb-23 25-Feb-23 26-Feb-23 22-Apr-23 23-Apr-23 07-Jun-23 26-Feb-23 20-Apr-23	12 12 12 12 12 12 12 12 2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2		Structure Cutting, Pair
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Pipe Bridge C between Turbine Hall & AC06-5450(6)Erection & Fa06-5460(6)Piping installaPipe Bridge C between Turbine Hall & AC06-5490(6)Erection & Fa06-5500(6)Piping installa06-5500(6)Piping installa06-5500(6)Piping installa06-5490(6)Erection & Fa06-5500(6)Piping installa06-5500(6)Material & Eq06-5500(6)Material & Eq06-1440Material & Eq06-1470(1)Material Subr06-1480(6C)Material Subr06-1820(6C)Factory Acc q06-1820(6)Factory Acc q06-1820(6)Delivery to Sir06-1820(6)Material & Eq06-1820(6)Material & Eq06-1820(6)Material & Eq06-1820(6)Material & Eq06-1830Material & Eq06-1830Material & Eq06-1910Material & Eq06-1920Factory Acc q06-1930EOTC Deliver06-1940(M54)EOTC Deliver06-1940(M54)EOTC Deliver06-1940(M54)EOTC Deliver06-1940(M57)Material & Eq06-2160(1)Material Proc06-2200(1)Delivery to Sir	ACC -2 Fabrication tallation ACC -3 Fabrication tallation em for On-site Installation Equipment Procurement dor Treatment System ubmission and Approval ubmission & Equipment Procurement (for IWMF Substation)	102 61 46 105 61 46 180 180 120 30	102 56 46 105 59 46 0 0	23-Feb-23 A 8.2% 23-Feb-23 A 0% 25-Apr-23 23-Feb-23 A 23-Feb-23 A 3.28% 23-Feb-23 A	09-Jun-23 24-Apr-23	26-Feb-23 07-Jun-23			
06-5480(6) Piping installa Pipe Bridge C between Turbine Hall & AC 06-5480(6) Erection & Fa 06-5500(6) Piping installa ocurement for LV Electrical System 6-1440 Material & Eq ocurement for Ventilation and Odor 6-1470(1) Material Subr 6-1470(1) Material Subr 6-1820(6C) Material Subr ocurement for Fire Services System MKF Substation 06-1810(6) Material Subr 06-1820(6C) Material Subr 06-1820(6) Factory Acc ep 06-1830(6) Delivery to Sit ocurement for Drainage System 06-1820-1(6C) Material & Eq ocurement for Cranage Equipment Vaterial & Eq ocurement for Cranage Equipment Vaterial & Eq off-1720 Material & Eq off-1820 Material & Eq off-1820 Material & Eq off-1820 Eorc off-1820 Material & Eq off-1820 Material & Eq off-1820 Eorc off-1820 Eorc	tallation ACC -3 Fabrication tallation tallation tallation Equipment Procurement dor Treatment System ubmission and Approval ubmission & Equipment Procurement (for IWMF Substation)	46 105 61 46 180 180 120 30	46 105 59 46 0	0% 25-Apr-23 23-Feb-23 A 3.28% 23-Feb-23 A	· ·				
Pipe Bridge C between Turbine Hall & AC 06-5490(6) Erection & Fa 06-5500(6) Piping installa ocurement for LV Electrical System 6-1440 Material & Eq ocurement for Ventilation and Odor 6-1470(1) Material Subr 6-1820(6C) Material Subr ocurement for Fire Services System MKF Substation 06-1810(6) Material Subr 06-1820(6C) Material Subr 06-1820(6C) Material Subr 06-1810(6) Factory Acc q 06-1820(6) Factory Acc q 06-1830(6) Delivery to Sit ocurement for Cranage System 6-1620-1(6C) Material & Eq 06-1720 Material & Eq 06-1830 Material & Eq 06-1830 Material & Eq 06-1970 Material & Eq 06-1920 06-1920 Factory Acc q 06-1920 Factory Acc q 06-1930 EOTC Deliver 06-1930 EOTC Deliver 06-1930 EOTC Deliver 06-1930 EOTC Deliver 06	ACC -3 Fabrication tallation em for On-site Installation Equipment Procurement dor Treatment System ubmission and Approval ubmission & Equipment Procurement (for IWMF Substation)	105 61 46 180 180 120 30	105 59 46 0	23-Feb-23 A 3.28% 23-Feb-23 A	09-Jun-23	26-Feb-23 22-Apr-23	-2	-Feb-23 A, 23-Feb-23 A	
06-5490(6)Erection & Fa06-5500(6)Piping installaocurement for LV Electrical System6-1440Material & Eqocurement for Ventilation and Odor6-1470(1)Material Subr6-1480(6C)Material Subrocurement for Fire Services SystemMF Substation06-1810(6)Material Subr06-1820(6C)Material Subr06-1810(6)Material Subr06-1820(6)Factory Acc q06-1820(6)Delivery to Sitocurement for Drainage System6-1820-1(6C)Material & Eq06-1830Material & Eq06-1720Material & Eqsh CraneDelivery to Sit06-1830Material & Eq06-1870Material & Eq06-1870Material & Eq06-1870Material & Eq06-1910Material & Eq06-1920Factory Acc q06-1930EOTC Deliver06-1930EOTC Deliver06-1930EOTC Deliver06-1930EOTC Deliver06-1930EOTC Deliver06-200(1)Material & Eq06-2160(1)Material Proc06-2200(1)Delivery to Sit	Fabrication tallation em for On-site Installation Equipment Procurement dor Treatment System ubmission and Approval ubmission & Equipment Procurement (for IWMF Substation)	61 46 180 180 120 30	59 46 0 0	3.28% 23-Feb-23 A	10 1	23-Apr-23 07-Jun-23	-2		
06-5500(6) Piping installation 06-5500(6) Piping installation 06-1440 Material & Equipartial Subrement for Ventilation and Odou 6-1440 Material Subrement for Ventilation and Odou 6-1470(1) Material Subrement for Fire Services System 06-1820(6C) Material Subrement for Fire Services System 06-1810(6) Material Subrement for Drainage System 06-1820(6C) Material Subrement for Drainage System 06-1820(6C) Material Subrement for Cranage Equipment for Equipment for Cranage Equipment for Equ	tallation em for On-site Installation Equipment Procurement dor Treatment System ubmission and Approval ubmission & Equipment Procurement (for IWMF Substation)	46 180 180 120 30	46 0 0			26-Feb-23 10-Jun-23 26-Feb-23 25-Apr-23	-2 -2	-Feb-23 A, 23-Feb-23 A	
Occurement for LV Electrical System 6-1440 Material & Eq 6-1440 Material & Eq 0 Gocurement for Ventilation and Odou 6-1470(1) Material Subr 6-1820(6C) Material Subr 00-1810(6) Material Subr 06-1810(6) Factory Acc q 06-1820(6C) Material Subr 06-1820(6C) Factory Acc q 06-1820(6C) Material Subr 06-1820-1(6C) Material Subr 06-1820-1(6C) Material & Eq 06-1830 Material & Eq 06-1830 Material & Eq 06-1830 Material & Eq 06-1910 Material & Eq 06-1920 Factory Acc q 06-1930 EOTC Deliver 06-1930 EOTC Deliver 06-1930 EOTC Deliver 06-1930 EOTC Deliver 06-	em for On-site Installation Equipment Procurement dor Treatment System ubmission and Approval ubmission & Equipment Procurement (for IWMF Substation)	180 120 30	0	0% 28-Apr-23	12-Jun-23	26-Apr-23 10-Jun-23	-2		
Cocurement for Ventilation and Odo 6-1470(1) Material Subr 6-1470(1) Material Subr 6-1820(6C) Material Subr cocurement for Fire Services System VMF Substation 06-1810(6) Material Subr 06-1820(6C) Factory Acc q 06-1820(6) Factory Acc q 06-1820(6) Delivery to Sit ocurement for Drainage System 6-1620-1(6C) 6-1820-1(6C) Material Subr ocurement for Cranage Equipment Vaterial Subr ocurement for Cranage Equipment Vaterial & Equipment Vaste Crane Vaterial & Equipment 06-1830 Material & Equipment Vaste Crane Vaterial & Equipment 06-1830 Material & Equipment Vaste Crane Vaterial & Equipment 06-1830 Material & Equipment Vaste Crane Vaterial & Equipment 06-1830 Material & Equipment 06-1910 Material & Equipment 06-1920 Factory Acc q 06-1930 EOTC Deliver 06-1930 EOTC Deliver 06-1940(M54) </td <td>dor Treatment System ubmission and Approval ubmission & Equipment Procurement (for IWMF Substation)</td> <td>120 30</td> <td></td> <td>01-Mar-22 A</td> <td>28-Feb-23</td> <td>02-Jul-24 02-Jul-24</td> <td>491</td> <td></td> <td></td>	dor Treatment System ubmission and Approval ubmission & Equipment Procurement (for IWMF Substation)	120 30		01-Mar-22 A	28-Feb-23	02-Jul-24 02-Jul-24	491		
6-1470(1) Material Subr 6-1820(6C) Material Subr ocurement for Fire Services System VMF Substation 06-1810(6) Material Subr 06-1820(6C) Factory Acc q 06-1820(6) Factory Acc q 06-1820(6) Delivery to Sit ocurement for Drainage System 6 6-1820-1(6C) Material Subr ocurement for Cranage Equipment Material & Eq Aste Crane Delivery to Sit 06-1830 Material & Eq 06-1830 Material & Eq 06-1830 Material & Eq 06-1830 Material & Eq 06-1870 Material & Eq 06-1870 Material & Eq 06-1870 Material & Eq 06-1910 Material & Eq 06-1920 Factory Acc q 06-1930 EOTC Deliver 06-1930 EOTC Deliver 06-1930 EOTC Deliver 06-1930 EOTC Deliver 06-1930 Material & Eq 06-1930 EOTC Deliver 06-8310(M57) Material & Eq 06-8310(M57) Material Proc 06-8310(M57) Material Proc 06-2160(1) Material Proc	ubmission and Approval ubmission & Equipment Procurement (for IW MF Substation)	30		100% 01-Mar-22 A		02-Jul-24 02-Jul-24	491		28-Feb-23, Material
6-1820(6C) Material Subr Ocurement for Fire Services System VMF Substation Material Subr 06-1810(6) Material Subr 06-1820(6) Factory Acc q 06-1820(6) Delivery to Sit ocurement for Drainage System 6-1620-1(6C) Material Subr Material Subr ocurement for Cranage Equipment Material & Equipment Vaste Crane Material & Equipment 06-1720 Material & Equipment 06-1830 Material & Equipment 06-1820 Material & Equipment 06-1830 Material & Equipment 06-1830 Material & Equipment 06-1830 Material & Equipment 06-1910 Material & Equipment 06-1920 Factory Acc q 06-1930 EOTC Deliver 06-1930 EOTC Deliver 06-1940(M54) EOTC Deliver 06-1930 EOTC Deliver 06-1940(M54) EOTC Deliver 06-8310(M57) Material & Equipment 06-8310(M57) Material Proc 06-8310(M57) Material Proc 06-2160(1) Material Proc	ubmission & Equipment Procurement (for IWMF Substation)		120 30	28-Feb-23 0% 28-Feb-23	27-Jun-23 29-Mar-23	05-Mar-23 02-Jul-23 24-May-23 22-Jun-23	5 85		-
Cocurement for Fire Services System VMF Substation Material Subr 06-1810(6) Material Subr 06-1820(6) Factory Acc q 06-1820(6) Delivery to Sit occurement for Drainage System 6-1620-1(6C) Material Subr occurement for Cranage Equipment Vaste Crane Material & Equipment 06-1720 Material & Equipment 06-1830 Material & Equipment 06-1910 Material & Equipment 06-1920 Factory Acc q 06-1930 EOTC Deliver 06-1940(M54) EOTC Deliver 06-1940(M54) EOTC Deliver 06-8310(M57) Material & Equipment 06-8310(M57) Material X Equipment 06-8310(M57) Material X Equipment 06-2200(1) Delivery to Sit			120	0% 28-Feb-23	29-101a1-23	05-Mar-23 02-Jul-23	5	28-Feb-23	-
06-1810(6) Material Subr 06-1820(6) Factory Acception 06-1830(6) Delivery to Si 06-1620-1(6C) Material Subr 06-1620-1(6C) Material Subr 06-1720 Material & Equipment Vaste Crane Material & Equipment 06-1720 Material & Equipment 06-1720 Material & Equipment 06-1720 Material & Equipment 06-1830 Material & Equipment 06-1870 Material & Equipment 06-1870 Material & Equipment 06-1970 Factory Acception 06-1920 Factory Acception 06-1930 EOTC Deliver 06-1940(M54) EOTC Deliver 06-8310(M57) Material & Equipment 06-8310(M57) Material & Equipment 06-2160(1) Material X Equipment		363	90	31-May-22 A	28-May-23	09-Mar-23 06-Jun-23	9		
06-1820(6) Factory Acception 06-1830(6) Delivery to Sile 06-1830(6) Delivery to Sile 06-1620-1(6C) Material Subrect 06-1620-1(6C) Material Subrect 06-1720 Material & Equipment Masterial & Crane Material & Equipment 06-1720 Material & Equipment Material & Crane Material & Equipment 06-1720 Material & Equipment Material & Crane Material & Equipment 06-1830 Material & Equipment 06-1940 Material & Equipment 06-1930 EOTC Deliver 06-1940(M54) EOTC Deliver 06-1940(M57) Material & Equipment 06-8310(M57) Material & Equipment 06-2160(1) Material & Equipment		363	90			09-Mar-23 06-Jun-23	9		
D6-1830(6) Delivery to Si ocurement for Drainage System 6-1620-1(6C) Material Subr ocurement for Cranage Equipment ////////////////////////////////////	ubmission & Equipment Procurement (For IWMF Substation)	120 90	30 45	75% 31-May-22 A		09-Mar-23 07-Apr-23	9		
Ocurement for Drainage System 3-1620-1(6C) Material Subr Ocurement for Cranage Equipment Subr Aste Crane Material & Equipment 3-1720 Material & Equipment 3-6-1720 Material & Equipment 3-6-1830 Material & Equipment 3-6-1830 Material & Equipment 3-6-1910 Material & Equipment 3-6-1920 Factory Acception 3-6-1930 EOTC Deliver 3-6-1940(M54) EOTC Deliver 3-6-1940(M57) Material & Equipment 3-2160(1) Material X Equipment 3-2160(1) Material X Equipment		60	45 60	50% 01-Jan-23 A 0% 30-Mar-23	28-Apr-23 28-May-23	24-Mar-23 07-May-23 08-Apr-23 06-Jun-23	9		
ocurement for Cranage Equipment laste Crane b6-1720 Material & Equipment b6-1720 Material & Equipment b6-1720 Material & Equipment b6-1830 Material & Equipment b6-1830 Material & Equipment b6-1870 Material & Equipment b6-1870 Material & Equipment b6-1910 Material & Equipment b6-1920 Factory Acc equipment b6-1930 EOTC Deliver b6-1940(M54) EOTC Deliver b6-8310(M57) Material & Equipment b6-8310(M57) Material & Equipment b6-2160(1) Material Proc b6-2200(1) Delivery to Sit		120	120	28-Feb-23	27-Jun-23	05-Mar-23 02-Jul-23	5		
Waste Crane Material & Eq 06-1720 Material & Eq 06-1830 Material & Eq 06-1830 Material & Eq 06-1870 Material & Eq 06-1970 Material & Eq 06-1910 Material & Eq 06-1920 Factory Acc q 06-1930 EOTC Deliver 06-1940(M54) EOTC Deliver 06-1940(M57) Material & Eq 06-8310(M57) Material & Eq 06-2160(1) Material Proc 6-2160(1) Material Proc 6-2200(1) Delivery to Sit	ubmission & Equipment Procurement (for IW MF Substation)	120	120	0% 28-Feb-23	27-Jun-23	05-Mar-23 02-Jul-23	5	28-Feb-23	
06-1720 Material & Eq sh Crane Material & Eq 06-1830 Material & Eq shredder Material & Eq 06-1870 Material & Eq 06-1910 Material & Eq 06-1920 Factory Acc eq 06-1930 EOTC Deliver 06-1940(M54) EOTC Deliver 06-8310(M57) Material & Eq 06-8310(M57) Material & Eq cocurement for Air Quality Monitorin 6-2160(1) Material Proc 6-2200(1) Delivery to Sit	nt	481	116	02-Aug-21 A		17-Mar-23 17-Oct-23	116		
sh Crane 06-1830 Material & Eq shredder 06-1870 06-1870 Material & Eq corc 06-1910 06-1920 Factory Acception 06-1930 EOTC Deliver 06-1940(M54) EOTC Deliver 06-8310(M57) Material & Eq cocurement for Air Quality Monitorin 6-2160(1) 6-2200(1) Delivery to Sit	Equipment Procurement	180 180	62 62	02-Aug-21 A 65.56% 02-Aug-21 A		25-Jun-23 25-Aug-23 25-Jun-23 25-Aug-23	117 117		
Hredder 06-1870 Material & Eq 06-1910 Material & Eq 06-1920 Factory Acception 06-1930 EOTC Deliver 06-1940(M54) EOTC Deliver 06-8310(M57) Material & Eq 06-8310(M57) Material & Eq 06-8310(M57) Material & Eq 06-2160(1) Material Proc 6-2200(1) Delivery to Sit		180	0		28-Feb-23		232		
06-1870 Material & Eq COTC 06-1910 Material & Eq 06-1920 Factory Acception 6-1930 06-1930 EOTC Deliver 1000000000000000000000000000000000000	Equipment Procurement	180	0	v		17-Oct-23 17-Oct-23	232		l 28-Feb-23, Material
OTC Material & Eq 06-1910 Material & Eq 06-1920 Factory Acception 06-1930 EOTC Deliver 06-1940(M54) EOTC Deliver loist System EOTC Deliver 06-8310(M57) Material & Eq cocurement for Air Quality Monitorin 6-2160(1) 6-2200(1) Delivery to Sit	Equipment Procurement	85	8	27-May-22 A 90.59% 27-May-22 A		19-Aug-23 26-Aug-23 19-Aug-23 26-Aug-23	156 156		
06-1920 Factory Acception 06-1930 EOTC Deliver 06-1940(M54) EOTC Deliver loist System EOTC Deliver 06-8310(M57) Material & Equipart cocurement for Air Quality Monitorin 6-2160(1) 6-2200(1) Delivery to Site		266	100	19-Apr-22 A		17-Mar-23 24-Jun-23	1		
06-1930 EOTC Deliver 06-1940(M54) EOTC Deliver loist System	Equipment Procurement	180	30		· ·	17-Mar-23 15-Apr-23	1		•
D6-1940(M54) EOTC Deliver bist System D6-8310(M57) Material & Eq cocurement for Air Quality Monitorin 6-2160(1) Material Proc 6-2200(1) Delivery to Sit	ceptance Test (FAT)	150	70	53.33% 11-Oct-22 A		17-Mar-23 25-May-23	1		
Initial System Material & Equal System 06-8310(M57) Material & Equal System Cocurement for Air Quality Monitorin 6-2160(1) 6-2160(1) Material Proc 6-2200(1) Delivery to Site		60 0	60 0	0% 25-Apr-23 0% 16-Mar-23	23-Jun-23* 16-Mar-23	26-Apr-23 24-Jun-23 20-Apr-23 20-Apr-23	1 36		16-Mar-23
Occurement for Air Quality Monitorin 6-2160(1) Material Proc 6-2200(1) Delivery to Sit		90	90		28-May-23	24-May-23 21-Aug-23			
6-2160(1) Material Proc 6-2200(1) Delivery to Sit	Equipment Procurement	90	90	0% 28-Feb-23	28-May-23	24-May-23 21-Aug-23	85	28-Feb-23	
6-2200(1) Delivery to Sit		165	106	31-Dec-22 A		02-Mar-23 13-Jun-23	0		
.,		150 30	74 30	50.67% 31-Dec-22 A 0% 15-May-23	12-May-23 13-Jun-23	02-Mar-23 14-May-23 15-May-23 13-Jun-23	2		• •
		16	16	09-Aug-22 A		01-Jun-23 17-Jun-23	94		
6-1890(1) Factory Acc ep	c eptance Test (FAT)	16	16	0% 09-Aug-22 A	15-Mar-23	01-Jun-23 17-Jun-23	94		
ocurement for Pipes and Insulation		397	34	31-May-22 A		07-May-23 09-Jun-23	68		
	ubmission and Approval Equipment Procurement	60 120	4 15	93.33% 31-May-22 A 87.5% 01-Jun-22 A		07-May-23 10-May-23 26-May-23 09-Jun-23	68 68		03-Mar-23, Ma
	Materials (Doors, windows and louvers ie)	204	204	05-Mar-23	24-Sep-23	05-Mar-23 02-Nov-23	39		
	ilding - Material Submission, Procurement, FAT and Delivery	200	200	0% 09-Mar-23	24-Sep-23	17-Apr-23 02-Nov-23	39	0	0 <mark>9</mark> -Mar-23
5-8030(6)70 IW MF Substa	ostation - Material Submission, Procurement, FAT and Delivery	150	150	0% 05-Mar-23	01-Aug-23	05-Mar-23 01-Aug-23	0	05-Ma	ar-23
f-site Precasting of Facade Panels		115	115	14-Feb-23 A		04-Mar-23 26-Jun-23	4		
6-8040(6D) Procurement VMF Substation	ent of Precast Concete Wall Panel Moulding & Fabrication	60 90	25 90		24-Mar-23 22-Jun-23	04-Mar-23 28-Mar-23 29-Mar-23 26-Jun-23	4	14-Feb-23 A	
	g of Concrete Panels	60	90 60	0% 25-Mar-23	22-Jun-23 23-May-23	29-Mar-23 27-May-23	4		25-
	c eptance Test (FAT)	60	60	0% 24-Apr-23	22-Jun-23	28-Apr-23 26-Jun-23	4		
ocurement for IWMF Equipments fo		120	120	05-Mar-23	02-Jul-23	05-Mar-23 02-Jul-23	0		
. ,	ubmission and Approval	60	60	0% 05-Mar-23	03-May-23	05-Mar-23 03-May-23	0		ar-23
S-8310(6E) Material & Eq	••	90	90	0% 05-Mar-23	02-Jun-23	05-Mar-23 02-Jun-23	0	05-Ma	ar-23
Nonth Rolling Pro	Equipment Procurement					Rem	aining Work	 Actual Milestone 	
e 10 of 14	••					Actua	al Work	 Critical Milestone 	

Facil	. EP/SP/66/12	環境保護署 Environmental Protaction Department
2	2023 Apr	Мау
	65	66
	30-Mar-23, Piping installation, F	Piping installation, 30-Mar-23
2 1ar-23	29-Mar-23, Structure Cutting, Pa	nting & Pre-assembly, Structure Cutting, F 29-Apr-23, Erection & Fabrication
	30-Apr-2	
1ar-23	29-Mar-23, Structure Cutting, Pa 30-Apr-2	Inting & Pre-assembly, Structure Cutting, F 29-Apr-23, Erection & Fabrication
& Pre-ass		tructure Cutting, Painting & Pre-assembly rection & Fabrication, 24-Apr-23, 24-Apr-
	25-Apr-23	rection & Fabrication, 24-Apr-23, 24-Apr-
	25-Apr-23	
	28-Apr-23	Erection & Fabrication, 27-Apr-23, 27-A
ipment Pro	ocurement, Material & Equipmer	nt Procurement, 28-Feb-23
2	29-Mar-23, Material Submission	and Approval
2	29-Mar-23, Material Submission	& Equipment Procurement (For IWMF Su
1ar-23 🗖		28-Apr-23, Factory Acceptance Test (I
		30-Apr-23, Material & Equipment P
ipment Pro	ocurement, Material & Equipmer	nt Procurement, 28-Feb-23
l 23-Mar-		rement, Material & Equipment Procureme
	25-Apr-23	aterial & Equipment Procurement, Materia 24-Ma
-23, EOTC	Delivery to Site Batch 1	
		12-May-23, Material
23 Factor	ry Acceptance Test (FAT) Factor	15-May-23
	and Approval, Material Submiss	
	02-Apr-23, Material & Equip	ment Procurement, Material & Equipment
2 4-Mar	-23, Procurement of Precast Co	ncete Wall Panel Moulding & Fabrication,
	24-Apr-23 🗖	23-May
		03-May-23, Material Submission
	i	

KEPPEL SEGRERS - 201EN HUA D	Activity Name	Original Duration	Remaining Duration	Activity % Current Start Complete	Current Finish	Late Start Late Finish	Total Float M63 Remarks	Feb	Mor
00,0000(05)	Factory Acceptance Test (FAT)				00. (v) 00	04 May 02 00 Jul 02	0	63	64
06-8320(6E) Delivery of Cast-in pip	es, Fittings and Anchor Bolts for Structures (if applicable)	60 0	60 0	0% 04-May-23	02-Jul-23 28-Feb-23	04-May-23 02-Jul-23 06-Mar-23 02-May-23	63		
04-1805(6F)	Wastewater Treatment Plant (30d)	0	0	0% 28-Feb-23		02-May-23	63		Wastewater Treatment PI
04-1815(6F)	Turbine Hall Building (30d)	0	0	0% 28-Feb-23		06-Mar-23	6		Turbine Hall Building (30c
04-1820(6F)	Compressor & CCCW Building (90d)	0	0	0% 28-Feb-23		10-Mar-23	11		Compressor & CCCW Bu
04-1870(6F) 04-1880(6F)	Elevated Drive Way and Associated Structures (90d) IW MF Substation (30d)	0	0	0% 28-Feb-23 0% 28-Feb-23		03-Apr-23 27-Mar-23	34 27		 Elevated Drive W ay and A IW MF Substation (30d), 2
Aaritime Works		1306	170		16-Aug-23	03-Mar-23 02-Dec-23	108		
Marine Construction		1306	170	30-Nov-19 A	16-Aug-23	03-Mar-23 02-Dec-23	108		
Phase I - Construction of		1176	170		16-Aug-23	01-May-23 02-Dec-23	108		
Seawall and Berth at DC		973	93		31-May-23	01-May-23 02-Dec-23	185		
Seawall Structural Worl 08-1115(3)	Caisson infill, Solid ballast, toe protection, precast concrete blocksetc Laying	973 250	93 63		31-May-23	01-May-23 02-Dec-23 01-May-23 02-Jul-23	185 62		
Remain Works		293	93		31-May-23	19-May-23 02-Dec-23	185		-
08-1120	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall A	220	75	65.91% 10-Oct-21 A	31-May-23	19-May-23 01-Aug-23	62		
08-1120-1(6)	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall B	220	75		-	19-Sep-23 02-Dec-23	203		[
08-1120-2(M55)	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall B No. C1	60	30	50% 31-May-22 A		19-Oct-23 17-Nov-23	233		
08-1120-4(M55) Seawall at Dredging Area	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall B No. C7	60 160	30 43	50% 31-May-22 A	16-Aug-23	04-Jun-23 03-Jul-23 20-Oct-23 02-Dec-23	96 108		
Remain Works		160	43			20-Oct-23 02-Dec-23	108		
08-1170	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level (Bay 1 to Bay 8)	160	43	73% 11-Jul-22 A	16-Aug-23	20-Oct-23 02-Dec-23	108		-
	reakwater and Berth Construction	789			27-Jun-23	03-Mar-23 31-Jul-23	34		
Reclamation		131	72		10-May-23	03-Mar-23 13-May-23	3		
Reclamation Works Surcharge Period		131 60	72 47		10-May-23 15-Apr-23	03-Mar-23 13-May-23 03-Mar-23 18-Apr-23	3		
08-3130(6)	Loading @ +11&+13mPD at South Edge Area (Area 5)	60	47			03-Mar-23 18-Apr-23	3		
Surcharge Removal		131	72		10-May-23	03-Mar-23 13-May-23	3		
08-3200-2(M57)	Remove Surcharge at West Edge Area (Area 7B1) (30,500 m3 @ 4000 m3/d)	45	33	26.67% 01-Jan-23 A	01-Apr-23	03-Mar-23 04-Apr-23	3		
08-3210(6)	Rem ove Surcharge at South Edge Area (Area 5) (96,700 m3 @ 4000m 3/d)	25	25	0% 16-Apr-23	10-May-23	19-Apr-23 13-May-23	3		
Breakwater	Coisses bill Calidhellest to evolution evocat consult blacks, stal avier	516	83 20		21-May-23	12-Jun-23 31-Jul-23	71		
08-1295(3) Remain Works	Caisson Infill, Solid ballast, toe protection, precast concrete blocksetc Laying	200 120	20		19-Mar-23	12-Jun-23 01-Jul-23 02-Jul-23 31-Jul-23	104 71		
08-1300	Construction of Caissons Extension from +3mPD to Deck Level	120	30	75% 31-May-22 A	-	02-Jul-23 31-Jul-23	71		
Seawall and Berth at Ma	rine Access	179	120	08-Feb-21 A	27-Jun-23	03-Apr-23 01-Jul-23	4		
08-1320(5A)	Caisson Infill, Solid ballast, toe protection, precast concrete blocksetc Laying	90	23			10-May-23 01-Jun-23	71		
Seawater Intake Structu 08-2400(6D)	Construction of Seawater Intake	90 90	90 90	30-Mar-23 0% 30-Mar-23	27-Jun-23 27-Jun-23	03-Apr-23 01-Jul-23 03-Apr-23 01-Jul-23	4		30
oundation Works	Construction of Seawater Intake	225	166		12-Aug-23	28-Dec-22 20-Jul-23	-23		
	ing Gallery Bld Foundation	79	79		17-May-23	16-Apr-23 03-Jul-23	47		
	g Gallery Bld Piling Works (Driven H-pile)	79	79			16-Apr-23 03-Jul-23	47		
09-1060	Driven H Pile Installations (141 nrs ~60m(D) & (16 nrs ~60m(D), @ 60m/d 2 Groups)	79	79		-	16-Apr-23 03-Jul-23	47	28-Feb-23	
	ste Bunker & Tipping Hall Bld Foundation	42	42		10-Apr-23	24-Mar-23 30-Jun-23	81		
Process Building Pile Ca		42			10-Apr-23	24-Mar-23 30-Jun-23	81		
Pile Cap Stage 1 (Modul Process Building (Mod		28 28			15-Mar-23	21-May-23 30-Jun-23 21-May-23 30-Jun-23	107 107		
09-1180	Excavation to Pile Cap Formation	25	13			21-May-23 02-Jun-23	82	b-23 A	12-Mar-2
09-1190	Pile Cut-off & Capping Plate (76 nrs, 4nr/d)	19	2	89.47% 23-Feb-23 A	15-Mar-23	29-Jun-23 30-Jun-23	107	3-Feb-23 A, 23-Feb-23 A	🗖 15-Ma
_Pile Cap Stage 2 (Modul		36	1		28-Feb-23	23-Apr-23 23-Apr-23	54		
Process Building (Mod		36	1		28-Feb-23	23-Apr-23 23-Apr-23	54		
09-2390 Pile Cap Stage 3 (Modul	Pile Caps and Raft Foundation Construction (50m x 36m 4set @100m2/7d)	36 42		97.23% 08-Feb-23 A 28-Feb-23	28-Feb-23 10-Apr-23	23-Apr-23 23-Apr-23 24-Mar-23 31-May-23	54 51	-23 A	28-Feb-23, Pile Caps ar
Process Building (Mod		42			10-Apr-23	20-Apr-23 31-May-23	51		
09-1240	Excavation to Pile Raft Foundation Formation	25	25	0% 28-Feb-23	24-Mar-23	20-Apr-23 14-May-23	51	28-Feb-23	
09-1250	Pile Cut-off & Capping Plate (168 nrs, 10nr/d)	17	17	0% 10-Mar-23	27-Mar-23	05-May-23 22-May-23	56		10-Mar-23
09-1260	Pile Caps and Raft Foundation Construction (60m x 24m 4set@100m2/7day)	26	26	0% 15-Mar-23	10-Apr-23	05-May-23 31-May-23	51		15-Mar-23
09-2550	Excavation to Pile Cap Formation Pile Cut-off & Capping Plate (22 nrs, 4nr/d)	25 6	25 6	0% 28-Feb-23 0% 21-Mar-23	24-Mar-23 27-Mar-23	27-Apr-23 21-May-23	58	28-Feb-23	Of Mar 00
09-2570	Pile Cut-off & Capping Plate (22 nrs, 4nr/d) Pile Caps Construction (5nrs 2set @ 1/7d)	18	18	0% 21-Mar-23	03-Apr-23	18-May-23 24-May-23 13-May-23 31-May-23	58		16-Mar-23
Process Building (Mod		39	39		07-Apr-23	24-Mar-23 04-May-23	26		
09-2420	Excavation to Pile Raft Foundation Formation	25	25	0% 28-Feb-23	24-Mar-23	24-Mar-23 17-Apr-23	24	28-Feb-23	
09-2430	Pile Cut-off & Capping Plate (338 nrs, 15nr/d)	23	23	0% 04-Mar-23	27-Mar-23	11-Apr-23 04-May-23	37	04-Ma	
09-2440	Pile Caps and Raft Foundation Construction (60m x 32m 4set@100m2/7day)	21	21	0% 18-Mar-23	07-Apr-23	11-Apr-23 01-May-23	24 Delink FS to 09-2570		18-Mar-23 💻
Process Building - Boi RC Base Slab	iler & Flue Gas Treatment Bid Foundation	50	10		09-Mar-23	06-Mar-23 15-Mar-23 06-Mar-23 15-Mar-23	6		
To Dase olau		50	10	23-Dec-227	03-11/101-23	00-Ivial-23 13-Ivial-23	6		

3-Month Rolling	Programme	(February	y 2023)
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Page 11 of 14

Remaining Work Actual Work

Actual Milestone

♦ ♦ Critical Milestone

Critical Remaining Work

Milestone

Facil	. EP/SP/66/12 lities, Phase 1
	Apr May 65 66
	04-May-23
nt (30d), 2	8-Feb-23
28-Feb-2	3
lding (90d), 28-Feb-23
sociated	Structures (90d), 28-Feb-23
-Feb-23	
	01-May-23, Caisson infill, Solid ba
	10 May 00 Caracter
	13-May-23, Constru 29-Mar-23, Construction of Seawall and Wave Wall Extension from +3mPI
	29-Mar-23, Construction of Seawall and Wave Wall Extension from +3mPt
	<u>.</u>
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	/
	15-Apr-23, Loading @ +11&+13mPD at South Edge A
	01-Apr-23, Remove Surcharge at West Edge Area (Area 7B1) (30,500 r
	16-Apr-23 10-May-23, Remove Su
Mar-23, C	aisson Infill, Solid ballast, toe protection, precast concrete blocksetc Lay
	01 May 01
	21-Way-24
22-Mar-2	3, Caisson Infill, Solid ballast, toe protection, precast concrete blocksetc
	· · · · · · · · · · · · · · · · · · ·
lar-23 🔲	
	17-May-23, Dri
	· ·
Every 1	to Dila Can Formation Formation to Dila Can Formation to Dila Can
	n to Pile Cap Formation, Excavation to Pile Cap Formation, 12-Mar-23 ut-off & Capping Plate (76 nrs, 4nr/d), Pile Cut-off & Capping Plate (76 nrs
20, 11180	ar on a capping riale (70 ms, 4 m/u), rine our on a capping riale (70 ms
Raft Found	dation Construction (50m x 36m 4set @100m2/7d), Pile Caps and Raft Fou
24-Mar	-23, Excavation to Pile Raft Foundation Formation
27-	Mar-23, Pile Cut-off & Capping Plate (168 nrs, 10nr/d)
	10-Apr-23, Pile Caps and Raft Foundation Construction (60n
	-23, Excavation to Pile Cap Formation
27-	Mar-23, Pile Cut-off & Capping Plate (22 nrs, 4nr/d)
	03-Apr-23, Pile Caps Construction (5nrs 2set @ 1/7d)
) 20 Eventuation to Dilo Doft Exception Exception
	r-23, Excavation to Pile Raft Foundation Formation
27-	Mar-23, Pile Cut-off & Capping Plate (338 nrs, 15nr/d)
	07-Apr-23, Pile Caps and Raft Foundation Construction (60m x
e Slab St	age 3 (Module 3), Base Slab Stage 3 (Module 3), 09-Mar-23

	Activity Name	Original Duration	Remaining Duration	Activity % Current Start Complete	Current Finish	Late Start	Late Finish	Total Float	M63 Remarks	Feb 63	Mar
C Equipment Found	dation	87	87	03-Feb-23 A	25-May-23	24-Mar-23	08-Jun-23	14			
CC Piling Works (Driver		15	15		14-Mar-23		11-Apr-23	28			
9-1680 CC Pile Cap Construction	Pile Load Test	15	15 57		14-Mar-23		11-Apr-23 09-May-23	28 14		28-Feb-23	14-N
9-1700	Pile Cut-off & Capping Plate (Module 1)	18	37		· · · ·		26-Mar-23	24			02-Mar-23, Pile Cu
9-1710	Pile Caps Construction (Module 1)	30	30	0% 13-Mar-23*	11-Apr-23		25-Apr-23	14			13-Mar-23*
9-1710-1(6)	Tie Beams Construction (Module 1 @+6.5mPD)	30	30	0% 27-Mar-23	25-Apr-23		09-May-23	14			27-1
CC Equipment Structur 9-1720		30 30	30 30		25-May-23 25-May-23		08-Jun-23	14			
rbine Hall Bld Foun	Base Slab Construction (Module 1 @+6.5mPD)	166	30 166		-	-	08-Jun-23 01-Jun-23	-72			
rbine Hall Pile Caps Co		166	166		-		01-Jun-23	-72			
9-1750	Excavation to Pile Cap Formation	21	7				03-Jan-23	-62			Excavation to I
9-1750-1(M62)	Excavation & construction of 4.2x5.5m pit for TBS1 @2mPD	21	5	76.19% 14-Feb-23 A			04-Apr-23	31		14-Feb-23 A	04-Mar-23, Excav
9-1760 9-1770	Pile Cut-off & Capping Plate (98 nrs, @10nr/d) Pile Caps and Ground Beam Construction for TBS1 & Electrical Bld to +6.3mPD	10	8 22	20% 07-Feb-23 A 26.67% 15-Feb-23 A			11-Jan-23 18-Jan-23	-56		23 A . 15-Feb-23 A	Pile Cut-off
9-1770-1(M58)	Install anchor bolts & Floor Finishes for TBS1 @+6.3mPD (Post-drilling)	14	14	0% 30-Mar-23	12-Apr-23		18-Apr-23	6			
9-1770-2(6G)	Pile Cut-off & Capping Plate (121 nrs, @10nr/d)	12	12	0% 18-Jul-23	29-Jul-23	07-May-23	18-May-23	-72			
9-1770-3(M62)	Excavation & construction of 4.2x5.5m pit for TBS2&3 @2mPD	21	21	0% 18-Jul-23	07-Aug-23		01-Jun-23	-67			
9-1780 mpressor & CCCW	Pile Caps Construction	14 58	14 97		12-Aug-23		01-Jun-23 08-Jun-23	-72 -7			
CCW Pile Caps Constru		58	97			<u> </u>	08-Jun-23	-7			
9-2340	Excavation to Pile Cap Formation	43	40	6.98% 06-Feb-23 A			19-May-23	31		3 A 🗖	
9-2350	Pile Cut-off & Capping Plate (68 nrs, @10nr/d)	28	26	7.14% 14-Feb-23 A			20-May-23	31		14-Feb-23 A	-
9-2350-1(6)	Pile Caps Construction to +5.85mPD (9 nrs, @0.2nr/d)	45	42	6.67% 21-Feb-23 A		· ·	05-Jun-23	40		eb-23 A, 21-Feb-23 A	_
9-2360 Plant & WT Bld Fou	Ground Beam Construction to +6.25mPD	45 198	45 139	0% 01-May-23 23-Dec-22 A	14-Jun-23	· ·	08-Jun-23 20-Jul-23	-7			
Flant & WT Bld Piling		194	62				14-Jun-23	45			
IT & WT Plant (Driven H	H-pile)	194	62	23-Dec-22 A	30-Apr-23	04-Mar-23	14-Jun-23	45			
09-1870	Driven H Pile Installations (208 nrs ~45m(D), @60m/d 1 Group)	156	56			·	14-Jun-23	51			
09-1870-1(M54)	Driven H Pile Installations (174 nrs ~45m(D), @60m/d 1 Group)	131	62				04-May-23	4			
F Plant & WT Bld Pile C IT Plant Pile Cap Consi		70	70 70		16-Jul-23	12-May-23 12-May-23	20-Jul-23	4			
09-1920	Excavation to Pile Cap Formation	25	25		01-Jun-23		05-Jun-23	4		<u>_</u>	
09-1930	Pile Cut-off & Capping Plate (410nrs, @20/d)	21	21	0% 15-May-23	04-Jun-23	19-May-23	08-Jun-23	4			
09-1940	Pile Caps Construction	60	60	0% 18-May-23	16-Jul-23	-	20-Jul-23	4			
MF Substation Build MF Substation Piling V		110	67		05-May-23		25-Apr-23	-10			
9-1980	Driven H Pile Installations (84 nrs ~50m(D), @60m/d 1 Group)	70 70	16 8				05-Mar-23 25-Feb-23	-10 -10	Revised 74nrs to 84nrs		Driven H Pil
9-1990	Pile Load Test	8	8	0% 08-Mar-23	15-Mar-23		05-Mar-23	-10		08	Nor 22
MF Substation Pile Ca		51	51		05-May-23		25-Apr-23	-10			
9-2000	Excavation to Pile Cap Formation	30	30					-10			16-Mar-23 💻
9-2010 9-2020	Pile Cut-off & Capping Plate Pile Caps Construction (24nrs, 4sets @1nr/7d)	30	30 30	0% 23-Mar-23 0% 06-Apr-23	21-Apr-23 05-May-23		11-Apr-23 25-Apr-23	-10 -10			23-Mar-
	d Associated Structures Foundation	127	114				24-Jun-23	3			
	g Works (Driven H-pile)	119	106		_	03-Mar-23	16-Jun-23	3			
9-2020(M57)	Predrilling for Driven Pile founding determination (30nr ~60m, @15m/d, 4 Rigs)	23	18				20-Mar-23	3			
9-2030(M57)	Driven H Pile Installations Grid RSA - RSG (248 rrs ~50m (D), @60m/d 4 Groups)	52	52	0% 18-Mar-23	08-May-23		11-May-23	3			18-Mar-23
9-2030-2(M45) evated Drive Way Pile (Driven H Pile Installations Grid RSY - RSAF (74nrs ~55m(D), @60m/d 2 Groups)	34	34 44	0% 11-May-23 09-May-23	13-Jun-23		16-Jun-23 24-Jun-23	3			
levated Drive Way RSA		44	44		21-Jun-23		24-Jun-23	3			
09-2050(M57)	Excavation to Pile Cap Formation	30	30	0% 09-May-23	07-Jun-23		10-Jun-23	3			
09-2060(M57)	Pile Cut-off & Capping Plate	30	30		21-Jun-23		24-Jun-23	3			
pe Bridge Foundatic pe Bridge B	on and a second s	35	35 35				13-Mar-23 13-Mar-23	-83 -83			
ipe Bridge B Pile Caps		35	35				13-Mar-23	-83			
09-2470	Excavation to Pile Cap Formation	21		33.33% 02-Feb-23 A	_		20-Feb-23		SS to 13-1640 missing		
09-2480	Pile Cut-off & Capping Plate (33 nrs, @ 4nr/d)	21	14	33.33% 08-Feb-23 A	21-May-23	14-Feb-23	27-Feb-23	-83		-23 A	-
09-2490	Pile Caps Construction to +5.0mPD (33nr, 4set@ 1nr/7d)	30	23	23.33% 14-Feb-23 A			13-Mar-23	-83		14-Feb-23 A	-
avy Load Access		20	20 20	,			01-Jun-23 01-Jun-23	12 12			
9-3020(6D)	Rem oval of Sub Base & Road Base & Foundation Works (Stage 1)	20	20		20-May-23		01-Jun-23	12		<u>_</u>	
perstructural Wor		173	173	08-Feb-23 A		-	12-Jul-23	-38			
	aste Bunker & Tipping Hall Bld Structure	73	74	08-Feb-23 A	12-May-23	24-Apr-23	12-Jul-23	61		 	
aste & Ash Bunker Bld	Structure	73	74		12-May-23			61			
rocose Building (Modu	Ile 1) Waste & Ash Bunker Bld Structure Beam & Slab to +6.0mPD	21	21			22-Jun-23		114		28-Feb-23 A, 28-Feb-23 A	
10-1110		21	21		20-Mar-23	22-Jun-23	10 1.1 00	114			

1	. EP/SP/66/12 lities, Phase 1
	Apr May 65 66
Pilole	ar Taet
, Pile Lo	
Capping	Plate (Module 1), Pile Cut-off & Capping Plate (Module 1), 02-Mar-23
8	25-Apr-23, Tie Beams Construction (Mod
	26-Apr-23 25-1
& constr oping Pla	ation, 06-Mar-23, 06-Mar-23, Excavation to Pile Cap Formation fuction of 4.2x5.5m pit for TBS1 @2mPD, Excavation & construction of 4.2 te (98 nrs, @10nr/d), 08-Mar-23, 08-Mar-23, Pile Cut-off & Capping Plate and Ground Beam Construction for TBS1 & Electrical BId to +6.3mPD, 2 12-Apr-23, Install anchor bolts & Floor Finishes for TBS1
	18-Apr-23, Excavation to Pile Cap Formation, Exc
	19-Apr-23, Pile Cut-off & Capping Plate (68 nrs,
	26-Apr-23, Pile Caps Construction to +5 01-May-23
	24-Apr-23, Driven H Pile Installations (206
	30-Apr-23, Driven H Pile Installations (200
	08-May-23
	18-May-23
llations (
3, Pile L	çad Test
	14-Apr-23, Excavation to Pile Cap Formation
06-Ap	21-Apr-23, Pile Cut-off & Capping Plate 07-23 05-May-23, Pile Caps Const
	l
r-23, Pre	drilling for Driven Pile founding determination (30nr ~60m, @15m/d, 4 Rig 08-May-23, Driven H Pile
	11-May-23
	09-May-23 23-May-23
	Excavation to Pile
	01-May-23 20-May-23
-Mar-23,	Beam & Slab to +6.0mPD, Beam & Slab to +6.0mPD, 20-Mar-23

	Activity Name	Original Duration	Duration	Activity Comp		Current Finish	Late Start Late Finish	Total Float M63 Remarks	Feb	Mar	2023 Apr
Process Building (Module)	2) Waste & Ash Bunker Bld Structure	21	8		08-Feb-23 A	08-Mar-23	24-Apr-23 01-May-23	54	63	64	65
10-1200	Beam & Slab to +2.5mPD	21	8	61.9	9% 08-Feb-23 A	08-Mar-23	24-Apr-23 01-May-23	54	-23 A	08-Mar-23, Beam & Sla	
	3) Waste & Ash Bunker Bld Structure	35			08-Apr-23	12-May-23	02-May-23 14-Jun-23	33			
10-1310	Beam & Slab to +2.5mPD Column & Wall to +6.0m PD	21			08-Apr-23	21-Apr-23 12-May-23	02-May-23 15-May-23 25-May-23 14-Jun-23	24 33			08-Apr-23 22-Apr
Process Building Control E		21			08-Feb-23 A		14-Jun-23 21-Jun-23	90			
10-2330	Column & Wall to +6.0m PD	21	8	61.9	% 08-Feb-23 A	23-Mar-23	14-Jun-23 21-Jun-23	90	-23 A	23-N	lar-23, Column & Wall t
	er & Flue Gas Treatment Bld Structure	109			28-Feb-23	16-Jun-23	16-Jan-23 28-Jun-23	12			
Steel Structure		109 60				16-Jun-23 28-Apr-23	16-Jan-23 28-Jun-23 19-Mar-23 28-Jun-23	12 61			
Boiler Building Steel Struc Process Building (Module	1) Steel Structure Erection	60			28-Feb-23	28-Apr-23	30-Apr-23 28-Jun-23	61			
10-1640	Roof Cladding Installation	60		C	% 28-Feb-23	28-Apr-23	30-Apr-23 28-Jun-23	61	28-Feb-23		· · · · · · · · · · · · · · · · · · ·
	3) Process Building Steel Structure Erection	44			13-Mar-23	25-Apr-23	19-Mar-23 01-May-23	6			
10-1690	Erection of Mega Columns (2nos @30d /column /gang x 2) Steel Roof Truss Ground Assembly Works	30			13-Mar-23	11-Apr-23 11-Apr-23	19-Mar-23 17-Apr-23 19-Mar-23 17-Apr-23	6		13-Mar-23 13-Mar-23	11-A
10-1710	Steel Roof Truss Lifting (BM3)	14			1% 12-Apr-23	25-Apr-23	18-Apr-23 01-May-23	6		13-101d1-23	12-Apr-23
Flue Gas Treatment Bld Ste		99	99			16-Jun-23	16-Jan-23 06-Jun-23	-10			
Process Building (Module	1) Steel Structure Erection	14			10-Mar-23	23-Mar-23	16-Jan-23 29-Jan-23	-53			
10-1750	Steel Roof Truss Lifting (FM 1)	14			10-Mar-23	23-Mar-23	16-Jan-23 29-Jan-23	-53		10-Mar-23 23-N	lar-23, Steel Roof Truss
Process Building (Module 10-1770	2) Steel Structure Erection Erection of Mega Columns (1nos @30d /column /gang x 1)	97			12-Mar-23	16-Jun-23 10-Apr-23	02-Mar-23 14-Apr-23 02-Mar-23 31-Mar-23	-63 -10		12-Mar-23	10-Ar
10-1780	Steel Roof Truss Ground Assembly Works	30			12-Mai-23	27-May-23	02-Mar-23 31-Mar-23	-57			10 ⁻ A
10-1790	Steel Roof Truss Lifting (FM2)	14	14	C	0% 03-Jun-23	16-Jun-23	01-Apr-23 14-Apr-23	-63			
	3) Steel Structure Erection	49			12-Apr-23	30-May-23	08-May-23 06-Jun-23	7			
10-1810	Erection of Mega Columns (1nos @30d /column /gang x 1)	30			12-Apr-23	11-May-23	08-May-23 06-Jun-23	26			12-Apr-23
10-1820 Furbine Hall Bld Structur	Steel Roof Truss Ground Assembly Works	30			01-May-23	30-May-23	08-May-23 06-Jun-23 19-Jan-23 15-Jun-23	-65			
Turbine Hall Electrical Bld		63			14-Feb-23 A	-	04-Apr-23 05-Jun-23	13			
10-1910	Slab to +6.0mPD	14	21	C	14-Feb-23 A	11-Apr-23	04-Apr-23 24-Apr-23	13	14-Feb-23 A		11-A
10-1920	Column & Wall to + 15.0mPD	14		-	12-Apr-23	25-Apr-23	25-Apr-23 08-May-23	13			12-Apr-23
10-1930	Beam & Slab to +15.0mPD Column & Wall to +19.5mPD	14			0% 26-Apr-23 0% 10-May-23	09-May-23 23-May-23	09-May-23 22-May-23 23-May-23 05-Jun-23	13			
Turbine Hall TBS1		89		-		18-Jun-23	19-Jan-23 17-Apr-23	-62			
10-2300	Ground Beam and Slab to +6.0m PD	14	14	C	% 22-Mar-23	04-Apr-23	19-Jan-23 01-Feb-23	-62		22-Mar-23	04-Apr-23, G
10-2310	Column & Wall to + 15.0mPD & +23.5mPD	45		-	0% 05-Apr-23	19-May-23	02-Feb-23 18-Mar-23	-62 Revised to 45days		05-7	Apr+23
10-2320	Beam & Slab to +28.0mPD	30			0% 20-May-23	18-Jun-23	19-Mar-23 17-Apr-23 15-Mar-23 14-Apr-23	-62 Revised to 30days			
STG Foundation (PC1) 10-1990-1(M58)	STG Foundation construction and install anchor bolts @ +9.5	21			22-Mar-23	21-Apr-23 11-Apr-23	15-Mar-23 04-Apr-23	-7 -7		22-Mar-23	11-A
10-1990-2(M58)	STG Foundation construction and install anchor bolts @ +10.77	10			12-Apr-23	21-Apr-23	05-Apr-23 14-Apr-23	-7			12-Apr-23
Turbine Hall TBS2 & 3		21	21		30-Jul-23	19-Aug-23	24-May-23 15-Jun-23	-65			
STG Foundation (PC2)		21	21		30-Jul-23	19-Aug-23	24-May-23 13-Jun-23	-67			
10-1990-3(M58) STG Foundation (PC3)	STG Foundation construction and install anchor bolts @ +9.5	21			30-Jul-23 30-Jul-23	19-Aug-23 19-Aug-23	24-May-23 13-Jun-23 26-May-23 15-Jun-23	-67 -65			
10-1990-5(M58)	STG Foundation construction and install anchor bolts @ +9.5	21			% 30-Jul-23	19-Aug-23	26-May-23 15-Jun-23	-65			
WMF Substation Structur	re	42	42		06-May-23	16-Jun-23	26-Apr-23 06-Jun-23	-10			
10-2170	Ground Slab and Beam to +6mPD	21			0% 06-May-23	26-May-23	26-Apr-23 16-May-23	-10			
	Column, wall, beam and Slab to +9.0mPD	21			27-May-23 28-Feb-23	16-Jun-23 28-Sep-23	17-May-23 06-Jun-23 23-Dec-22 19-Nov-23	-10 52			
rocess Equipment Ins		180				28-Sep-23	01-May-23 19-Nov-23	52			
	te Bunker & Tipping Hall BId Process Equipment Installation Illation and Connection Works	180			01-Apr-23 01-Apr-23	28-Sep-23	01-May-23 19-Nov-23	52			<u>-</u>
Process Building (WWTP)		180				28-Sep-23	01-May-23 19-Nov-23	52			· · · · · · · · · · · · · · · · · · ·
12-3120(6F)	Delivery of Embeded Piping above +2 to +10mPd (30days)	0			1%	01-Apr-23	01-May-23	30			Delivery of Embed
12-3160(6F)	Piping Installation Works	180			02-Apr-23	28-Sep-23	24-May-23 19-Nov-23	52		02-Apr-	
rocess Buildings - Boil Process Building (Installatio	er House & Flue Gas Treatment Bld Process Equipment Installation	167 167			28-Feb-23 28-Feb-23	13-Aug-23	23-Dec-22 27-Jul-23 23-Dec-22 27-Jul-23	-17 -17			
TPU Train 1		70			28-Feb-23	08-May-23	19-May-23 27-Jul-23	80			
13-1040	Boiler Condition Check and Repair	70		C	% 28-Feb-23	08-May-23	19-May-23 27-Jul-23	80	28-Feb-23		
TPU Train 2		6			09-Mar-23	14-Mar-23	23-Dec-22 28-Dec-22	-76			
13-1120	Delivery, inspection and Transport Boiler Train to Position by SPMT (TPU Train 2)	6	6	C		14-Mar-23 31-May-23	23-Dec-22 28-Dec-22 01-Mar-23 06-Mar-23	-76 -86	(9-Mar-23 14-Mar-23, Deli	very, inspection and Tr
TPU Train 3 13-1210	Delivery, inspection and Transport Boiler Train to Position by SPMT (TPU Train 3)	6	6	C		31-May-23 31-May-23	01-Mar-23 06-Mar-23 01-Mar-23	-86			
TPU Train 4		6	6		02-Jun-23	07-Jun-23	08-Mar-23 13-Mar-23	-86			
13-1300	Delivery, inspection and Transport Boiler Train to Position by SPMT (TPU Train 4)	6	6	C	1% 02-Jun-23	07-Jun-23	08-Mar-23 13-Mar-23	-86			
TPU Train 5		6	6		01-Aug-23	06-Aug-23	07-May-23 12-May-23	-86			
13-1390	Delivery, inspection and Transport Boiler Train to Position by SPMT (TPU Train 5)	6	6	C	-	06-Aug-23	07-May-23 12-May-23	-86			
TPU Train 6		6	6		08-Aug-23	13-Aug-23	14-May-23 19-May-23	-86			
Month Rolli	ng Programme (February 2023)						Remair	0	 Actual Milestone Critical Milestone 		

Contract No. Ianagement Faci	. EP/SP/66/12 lities, Phase 1	環境保護署 Environmental Protection Department
Mar 64	Apr 65	May 66
08-Mar-23, Beam & Slab t 08-	6 +2.5mPD, Beam & Slab to Apr-23 22-Apr-23 2	•
		28-Apr-23, Roof Cladding Installation
Mar-23	11-Apr-23, Ste	action of Mega Columns (2nos @30d /column el Roof Truss Ground Assembly Works 25-Apr-23, Steel Roof Truss Lifting (BM3)
r-23 23-Mar-	23, Steel Roof Truss Lifting (F	M1)
Mar-23	10-Apr-23, Ere 28-Apr-2	ction of Mega Columns (1nos @30d /column 23 27 27 03-Jun-2
	12-Apr-23 01-M	
	11-Apr-23, Siz 12-Apr-23 26-Apr-23	ab to +6.0mPD, Slab to +6.0mPD, 11-Apr-23 25-Apr-23, Column & Wall to +15.0mPD 09-May-23, Beam & Slat 10-May-23 23-May
22-Mar-23	04-Apr-23, Ground Bea	am and SIab to +6.0mPD
05-Apr 		19-May-23, 4 20-May-23
		1-Apr-23, STG Foundation construction and in
	 	06-May-23 26-
		27-May-23
02-Apr-23	{	ng above +2 to +10mPd (30days),
		08-May-23, Boiler Conditi
23 14-Mar-23, Deliver	, inspection and Transport Bo	iler Train to Position by SPMT (TPU Train 2)
		26-May-23
		02 001-20

古町五格数 KEPPEL SEGILERS-2	- 板草贈 骨会で BEN HUA ADDY VENTUR								Integrated Wast	e Management Fac	o. EP/SP/66/12 cilities, Phase 1	環境1來讀:著 Environmental Protection Departm
ivity ID	Activity Name	Original Duration	Remaining Duration	Activity % Current Start Complete	Current Finish	Late Start Late	Finish Total Fl	loat M63 Remarks	Feb	Mar	2023 Apr	May
13-1480	Delivery, inspection and Transport Boiler Train to Position by SPMT (TPU Train 6)	6	6	0% 08-Aug-23	13-Aug-23	14-May-23 19-	Mav-23 -8	86	63	64	65	66
	Installation of Flue Gas Module)	91	91	23-Apr-23	22-Jul-23	30-Jan-23 27-	,	86				
FGC Train 1		6	6	23-Apr-23	28-Apr-23	30-Jan-23 04-	Feb-23 -8	83				
13-1570	Delivery, inspection and Transport Flue Gas Train to Position by SPMT (FGC Train 1)	6	6	0% 23-Apr-23	28-Apr-23	30-Jan-23 04-	Feb-23 -8	83			23-Apr-23 28	-Apr-23, Delivery, inspection and
FGC Train 2		6	6	30-Apr-23	05-May-23	06-Feb-23 11-	Feb-23 -8	83				
13-1640	Delivery, inspection and Transport Flue Gas Train to Position by SPMT (FGC Train 2)	6	6	0% 30-Apr-23	05-May-23	06-Feb-23 11-	Feb-23 -8	83			30-Apr-23 📕	05-May-23, Delivery, inspe
FGC Train 3		6	6	10-Jul-23	15-Jul-23	15-Apr-23 20-	Apr-23 -8	86				
13-1710	Delivery, inspection and Transport Flue Gas Train to Position by SPMT (FGC Train 3)	6	6	0% 10-Jul-23	15-Jul-23	15-Apr-23 20-	Apr-23 -8	86				
FGC Train 4		6	6	17-Jul-23	22-Jul-23	22-Apr-23 27-	Apr-23 -8	86				
13-1780	Delivery, inspection and Transport Flue Gas Train to Position by SPMT (FGC Train 4)	6	6	0% 17-Jul-23	22-Jul-23	22-Apr-23 27-	Apr-23 -8	86				
Turbine Hall Bld	Equipment Installation	61	61	22-Jun-23	21-Aug-23	21-Apr-23 20-	Jun-23 -6	62				
Turbine Hall Modul	le 1 Installation	61	61	22-Jun-23	21-Aug-23	21-Apr-23 20-	Jun-23 -6	62				
13-2120	STG and TBS Module 1 Installation	60	60	0% 23-Jun-23	21-Aug-23	22-Apr-23 20-	Jun-23 -6	62				
13-2160(6)	Install Maintenance Girder & Crane at Module 1 @+22.247mPd	30	30	0% 22-Jun-23	21-Jul-23	21-Apr-23 20-	May-23 -6	62				
Landscape, Exte	ernal Road and Drains Works	340	128	28-Apr-22 A	05-Jul-23	13-May-23 25-	Jul-23 2	20				
Drainage Works		60	60	07-May-23	05-Jul-23	27-May-23 25-	Jul-23 2	20				
Box Culvert		60	60	07-May-23	05-Jul-23	27-May-23 25-	Jul-23 2	20				
East Culvert (3.5m	n x 2.5m x 118m)	60	60	07-May-23	05-Jul-23	27-May-23 25-	Jul-23	20				
14-2000	Excavation to Formation	60	60	0% 07-May-23	05-Jul-23	27-May-23 25-	Jul-23 2	20			07-May	
Earthing System		180	60	28-Apr-22 A	28-Apr-23	13-May-23 11-	Jul-23 7	74				
16-1900-2(6)	Installation of Ground Earthing Mesh	180	60	66.67% 28-Apr-22 A	28-Apr-23	13-May-23 11-	Jul-23 7	74				-Apr-23, Installation of Ground Ea

3-Month Rolling Programme (February 2023) Page 14 of 14	Remaining Work Actual Milestone Actual Work Critical Remaining Work Critical Remaining Work Milestone
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Appendix B Summary of Implementation Status of Environmental Mitigation

Appendix B

Table B.I Inplementation Schedule for Air Quality measures for the IWMF at the artificial Island hear SKC	Table B.1	Implementation Schedule for Air Quality Measures for the IWMF at the artificial island near	r SKC
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				Imple	ementa	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 	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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				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
	 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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		Location /		Imple	ementa	tion S	tages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	 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 halfhourly 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 	design & operation phase	Agent						Remarks
	exceeded 95% of the emission concentration limit as stipulated								
	in the Special Process license; and								

				Imple	ementa	ation S	tages*	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								

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Imple	ementa	ation S	tages*	Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	С	0	Dec		
	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.								
-	 Bottom Ash: 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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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Imple	ementa	ation S	stages*	Relevant	Implementation Status and Remarks
				Des	С	ο	Dec	Legislation and Guidelines	
	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 leachability								
	criteria shown in Table 2 of the								
	Environmental Permit throughout a								
	continuous six month period in the								

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	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Imple	ementa	ation S	tages*	Relevant Legislation and Guidelines	Implementation Status and Remarks
EIA Ref				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 Protection			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

	Environmental 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	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	Implementation Status and Remarks
	• 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					EIAO-TM; ProPECC PN 1/94; WPCO	Deficiency of Mitigation Measures but rectified by the Contractor 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	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	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			V			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*		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 waste management procedures, including waste reduction, reuse and recycling;	Work Site/ During Design & Construction Period	Contractor		v			Guideines	Implemented. N/A for demolition items
	 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 								

				Imp	lement	ation Sta	iges*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Indementation		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 its contractor	5 1	×			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 its contractor	5 ✓				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	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	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			Implemer	tation §	Stages*	Relevant
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des C	0	Dec	Legislation Implementation Status and and Remarks Guidelines
6b.5.2.1	 precautions during construction works; precautions prior to entry of belowground services <u>Good Site Practices</u> 	IWMF Site/During	IWMF Operator		✓		Waste Disposal N/A Ordinance
	 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 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. 	Operation Period					(Cap.354); Waste Disposal (Chemical Waste) (General) Regulation; ETWB TCW No. 1/2004

				Impler	menta	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
	 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	stages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
6b.5.2.3	 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. Storage, Handling, Treatment, Collection 	IWMF Site/	IWMF Operator					Incineration	N/A
60.5.2.3	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:	During Operation Period	IWMF Operator			v		Residue Pollution Control Limits	
	 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. 	Fuel Oil Storage Tank/ During Design, Construction and Operation Periods	IWMF Contractor	✓	✓	✓			N/A
	 Any potential problems identified in the test should be rectified as soon as possible. 								

				Imple	ementa	ation S	tages*	Relevant	and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
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	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	• 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								

			Implementation Agent	Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing		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 Protection			Impl	ementa	ation S	Stages*	Relevant	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: 								

				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
	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			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	
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				Implementation Stages*				Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Des Agent		Des	С	0	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 o construction works that may produce underwater acoustic disturbance, Vessel Travel Route implementation, training of staff; N/A for others

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Imple	ement	ation S	stages*	Relevant	have been set of the Oracian
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	0	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 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								

Integrated Waste Management Facilities, Phase 1

	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								

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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										

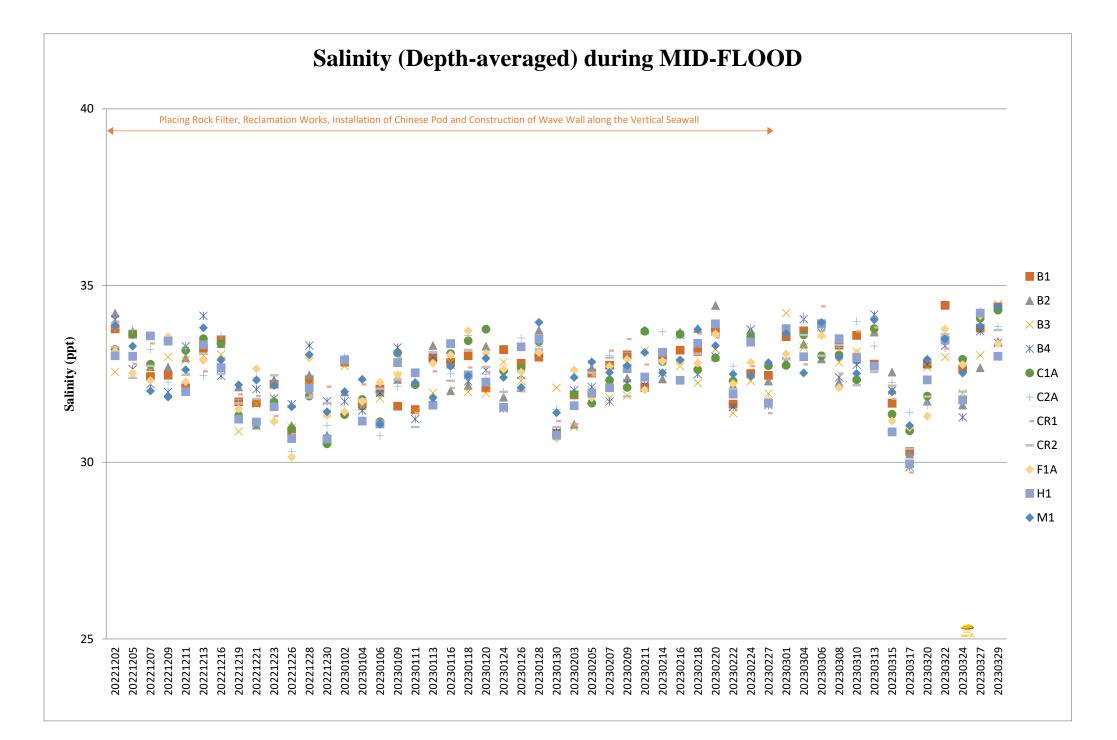
				Implem	nenta	tion S	tages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
S10b.10 MVC-03	Optimization of the construction sequence and construction programme to minimize 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

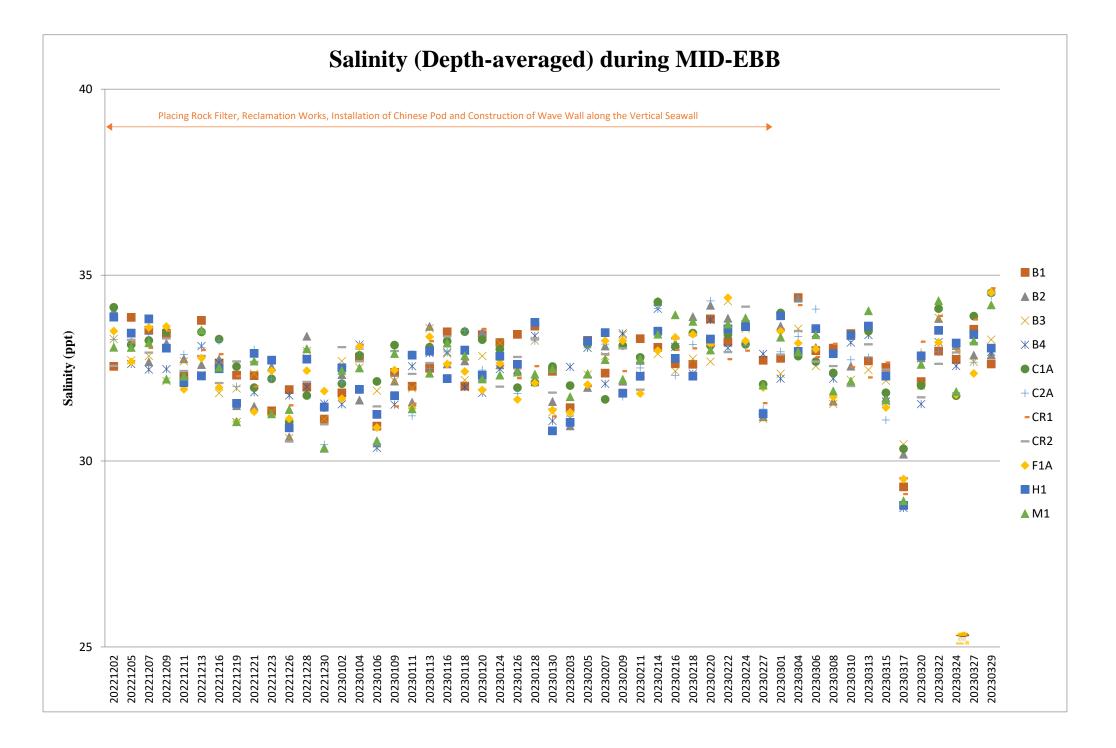
Keppel Seghers – Zhen Hua Joint Venture

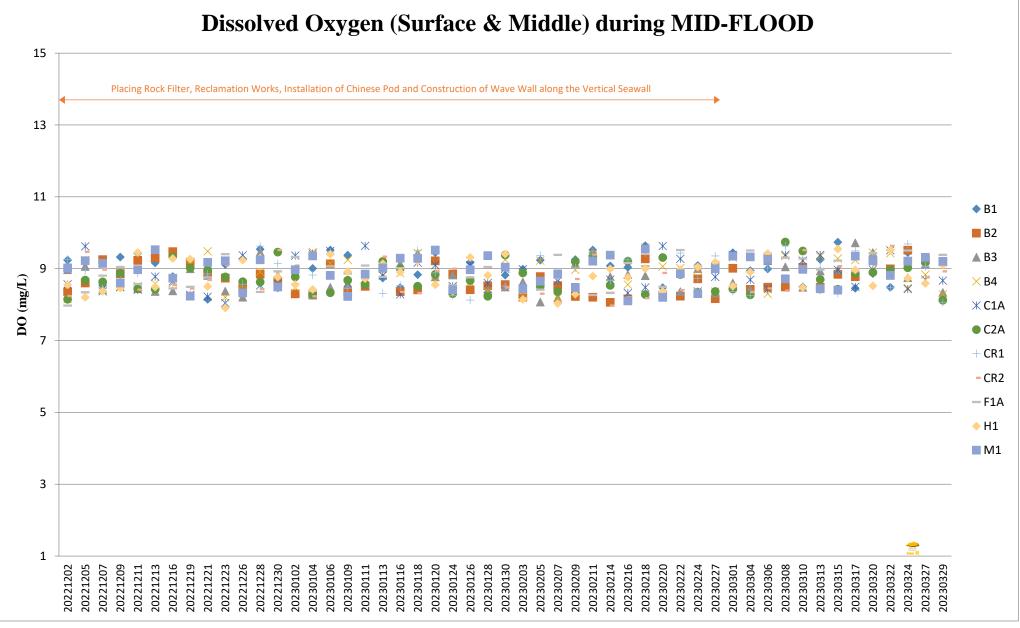
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Imple Des	ementat C	ion S O	tages* Dec	Relevant Legislation and Guidelines	Implementation Status and Remarks
S10b.10 MVO-03	<u>Control of Operation Time</u> Minimization of the frequency of waste transportation 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

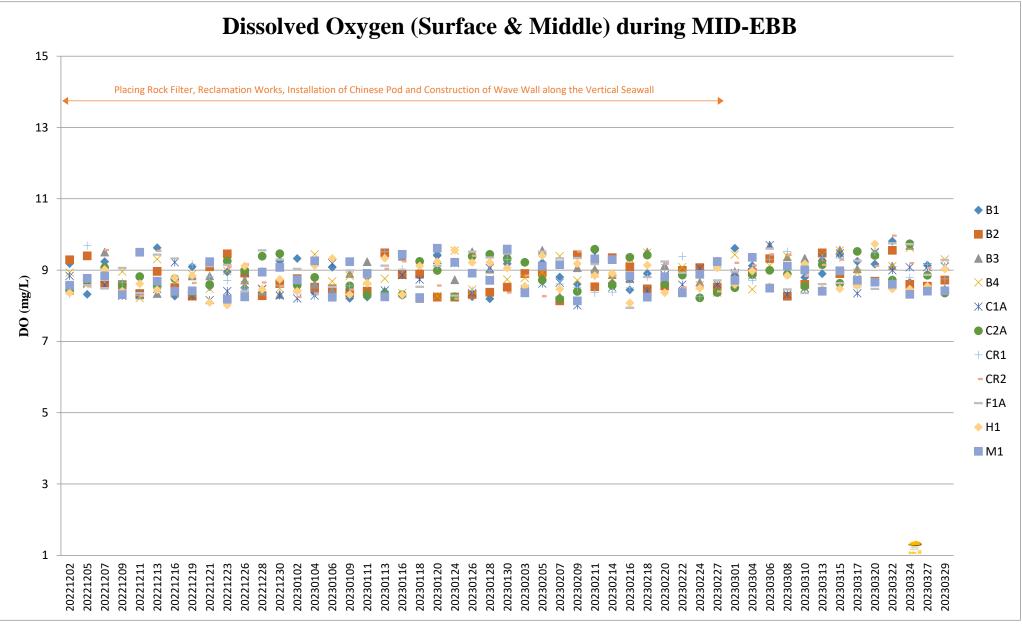
Appendix C Water Quality Monitoring Data Trending



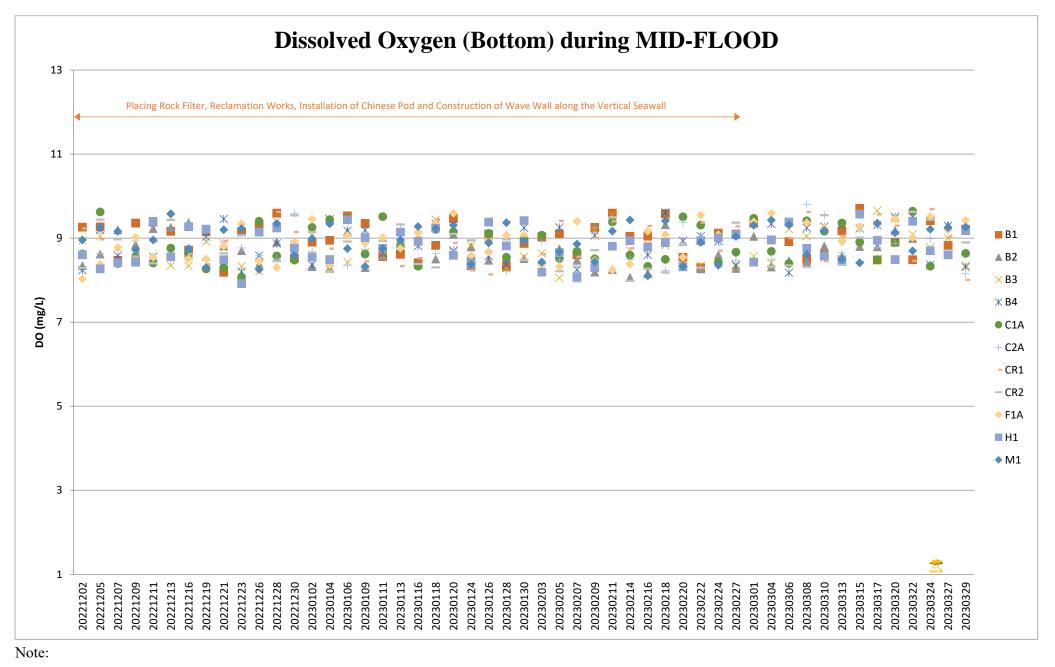




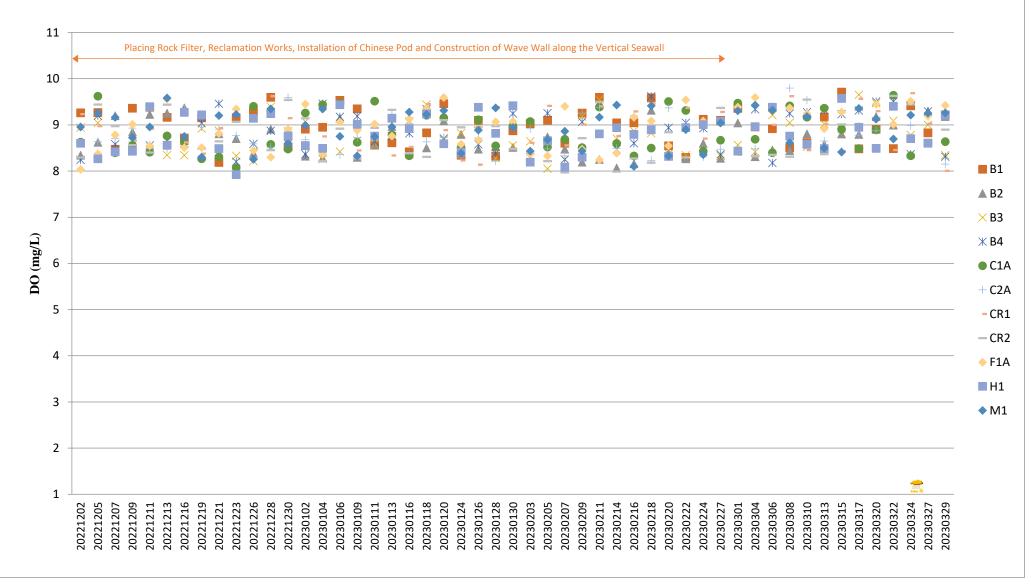
Note:



Note:

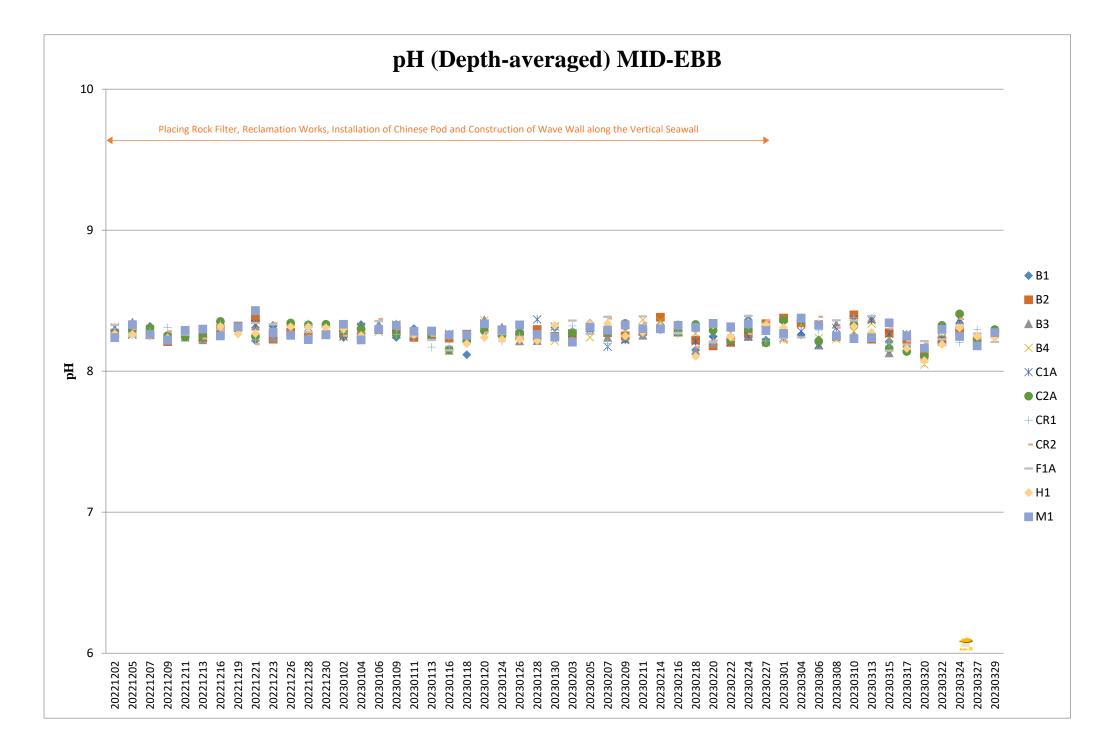


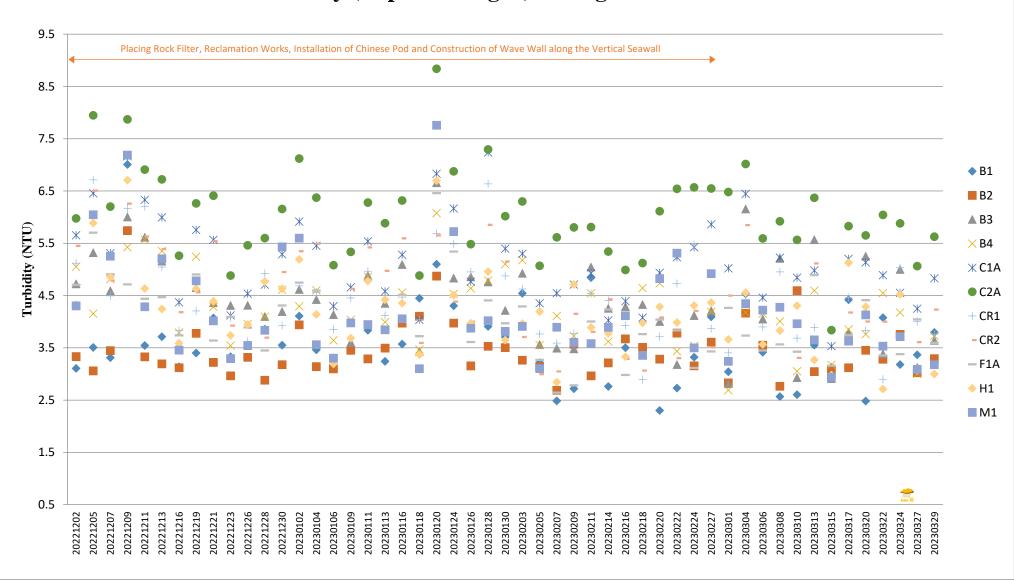
Dissolved Oxygen (Bottom) during MID-EBB



Note:

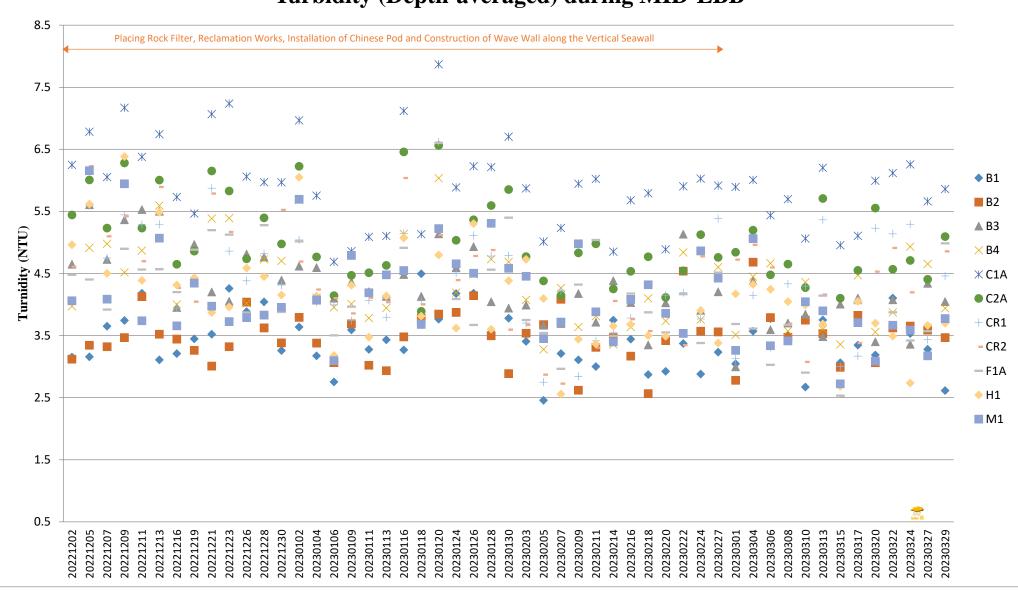
pH (Depth-averaged) during MID-FLOOD Placing Rock Filter, Reclamation Works, Installation of Chinese Pod and Construction of Wave Wall along the Vertical Seawall B1 B2 **₽ ¥** X ▲ B3 \times B4 μd X C1A C2A + CR1- CR2 - F1A 🔶 H1 M1 20221205 20221216 20230106 20230128 20230218 20230227 20230310





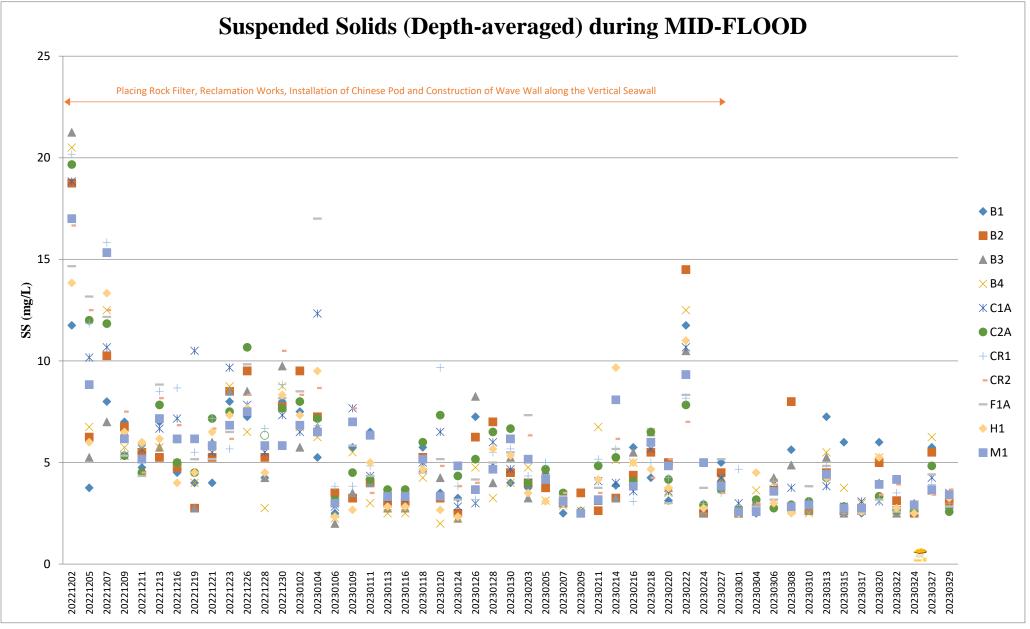
Turbidity (Depth-averaged) during MID-FLOOD

Note:



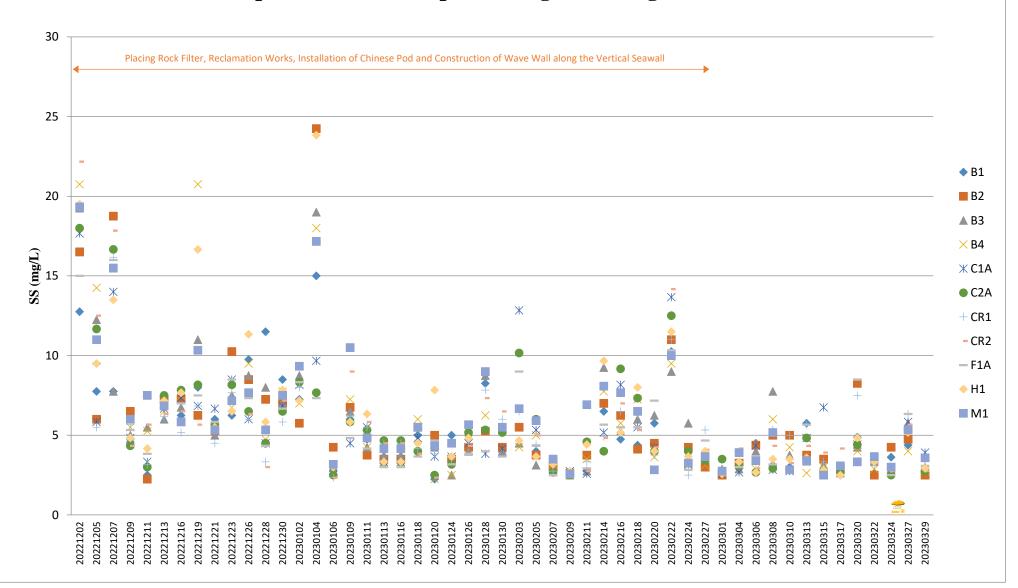
Turbidity (Depth-averaged) during MID-EBB

Note:

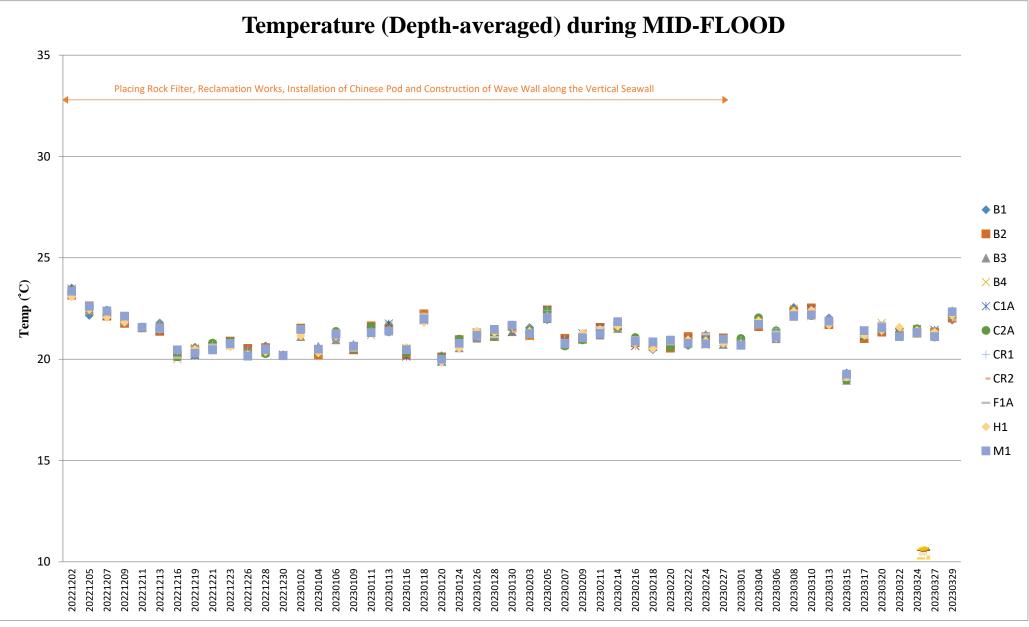


Note:

Suspended Solids (Depth-averaged) during MID-EBB

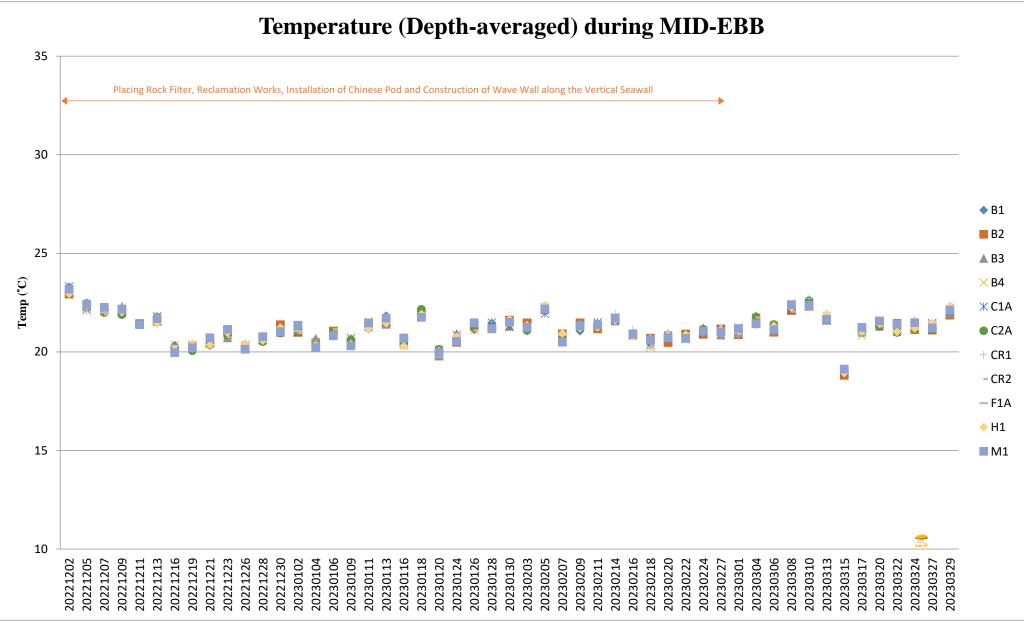


Note:



Note:

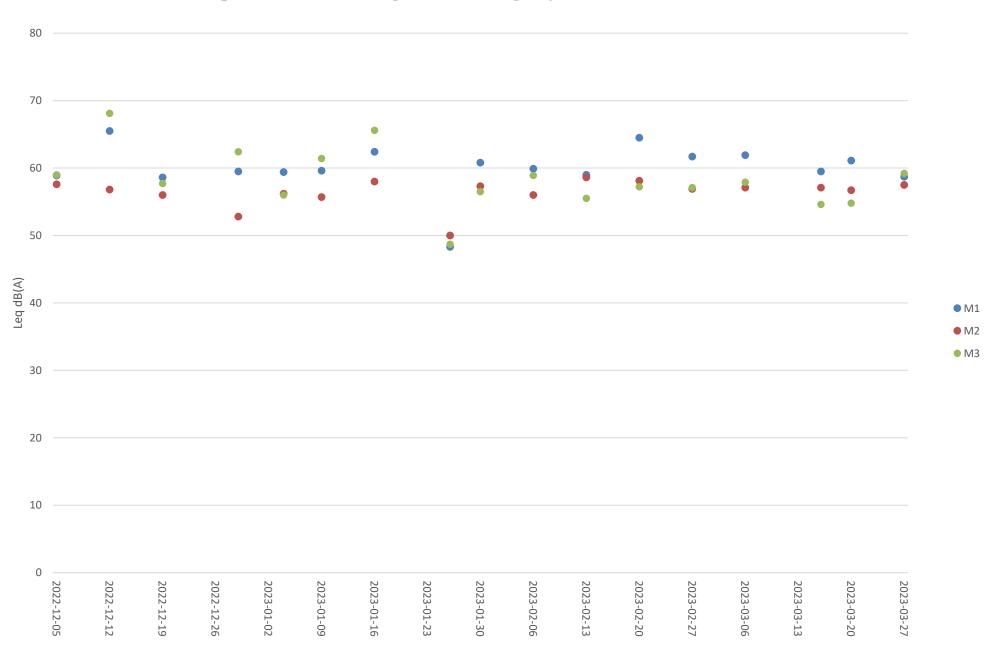
1. The Action and Limit Levels of dissolved oxygen can be referred to Table 2.2 of the quarterly EM&A report.



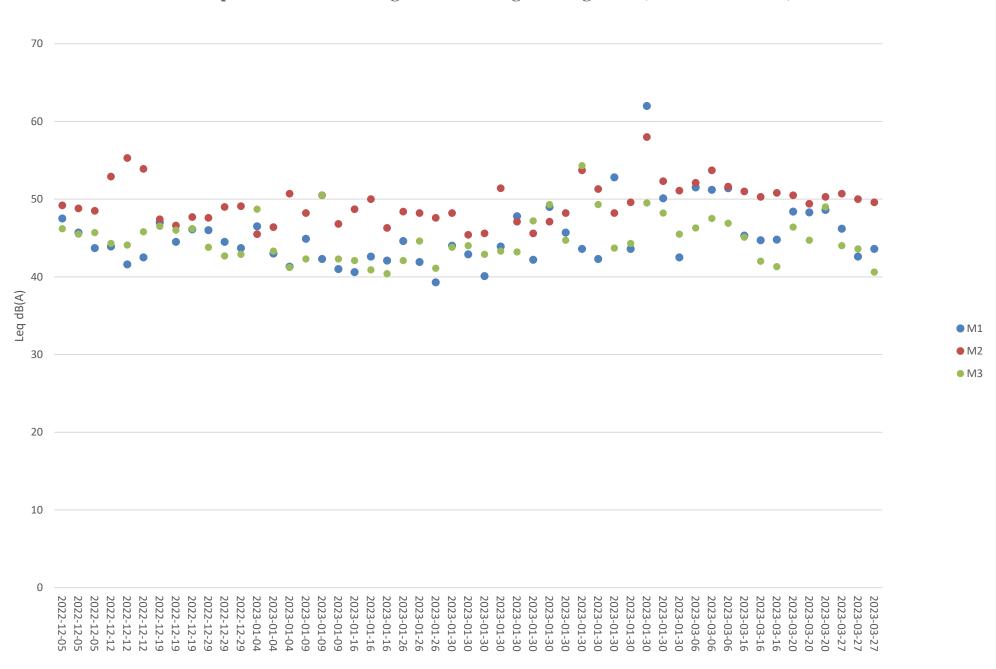
Note:

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

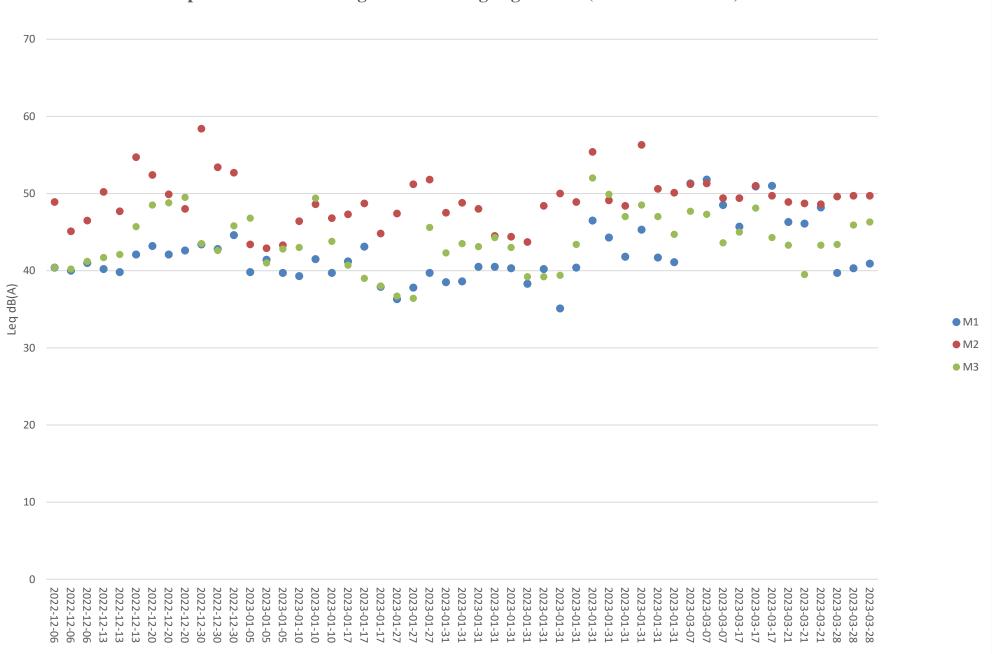
Appendix D Noise Monitoring Data Trending



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)

Location of works	Construction activities undertaken	Remarks on progress
Reclamation area	Reclamation works	Completed
	• 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	Completed
	• Caisson extension works, from +3mPD to +6mPD, at Seawall A and B	On-going
	• Construction of wave wall along the vertical seawall	On-going

Summary of the Construction Activities Undertaken during the Reporting Period

Location:	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 1 (M1 / N_S1)
Monitoring date:	04, 09, 16, 26, 30 January 2023 (Daytime)
	04&05, 09&10, 16&17, 26&27, 30&31 January 2023 (Evening & Night time)
Parameter :	Leq 30min (Daytime), Leq 5min (Evening & Night time)
Noise source other than construction activities from the Project:	Nil

Date	Start time		End time	Weather	$\frac{L_{eq \ 30min} dB(A) / }{L_{eq \ 5min} dB(A)}$	Sound Level Meter Used	Calibrator Used
04 Jan 2023	13:33	-	14:03	Cloudy	59.4	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724243)
04.1	19:13	-	19:18		46.5	GYAN 071 (G 1	D: NO 75
04 Jan 2023	20:23	-	20:28	Fine	43.0	SVAN 971 (Serial	Rion NC-75 (No.34724243)
2025	21:08	-	21:13		41.3	No. 96062)	(100.34724243)
05 Jan	1:23	-	1:28		39.8	SVAN 971 (Serial	Rion NC-75
2023	3:13	-	3:18	Fine	41.4	No. 96062)	(No.34724243)
2025	5:18	-	5:23		39.7	NO. 90002)	(10.34724243)
09 Jan 2023	13:04	-	13:34	Cloudy	59.6	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724243)
00 I	19:24	-	19:29		44.9		D: NO 75
09 Jan 2023	20:24	-	20:29	Fine	42.3	SVAN 971 (Serial	Rion NC-75 (No.34724243)
2023	21:24	-	21:29		41.0	No. 96062)	(1N0.34/24243)
10 I.u.	1:24	-	1:29		39.3	$\mathbf{GVAN} = 0.71 (0 + 0.71)$	Rion NC-75
10 Jan 2023	3:14	-	3:19	Fine	41.5	SVAN 971 (Serial No. 96062)	(No.34724244)
2025	5:09	-	5:14		39.7		
16 Jan 2023	13:09	-	13:39	Cloudy	62.4	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724243)
16 Jan	19:29	-	19:34		40.6	SVAN 071 (Carial	Rion NC-75
2023	20:19	-	20:24	Fine	42.6	SVAN 971 (Serial No. 96062)	(No.34724243)
2025	21:19	-	21:24		42.1	NO. 90002)	(100.34724243)
17 Jan	1:24	-	1:29		41.2	SVAN 971 (Serial	Rion NC-75
2023	3:24	-	3:29	Fine	43.1	No. 96062)	(No.34724243)
2025	5:39	-	5:44		37.9	NO. 90002)	(10.34724243)
26 Jan 2023	13:16	-	13:46	Fine	48.3	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724243)
	19:21	-	19:26		44.6		D: NO 75
26 Jan	20:06	-	20:11	Fine	41.9	SVAN 971 (Serial	Rion NC-75
2023	21:16	-	21:21		39.3	No. 96062)	(No.34724243)
27.1	1:06	-	1:11		36.3	QUANO71 (Comint	Dian NC 75
27 Jan 2023	3:11	-	3:16	Fine	37.8	SVAN 971 (Serial No. 96062)	Rion NC-75
2023	5:16	-	5:21		39.7	INU. 90002)	(No.34724243)
30 Jan 2023	13:16	-	13:46	Sunny	60.8	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724243)

Date	Start time		End time	Weather	L _{eq 30min} dB(A) / L _{eq 5min} dB(A)	Sound Level Meter Used	Calibrator Used
30 Jan	19:26	-	19:31		44.0	SVAN 971 (Serial	D' NG 75
2023	20:21	1	20:26	Fine	42.9	No. 96062)	Rion NC-75 (No.34724243)
2025	21:36	1	21:41		40.1	10.90002)	(10.34724243)
31 Jan	1:21	1	1:26		38.5	QUAN 071 (Carial	Dian NC 75
	3:11	1	3:16	Fine	38.6	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724243)
2023	5:11	-	5:16		40.5	INU. 90002)	(100.34724243)

Location:	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 1 (M1 / N_S1)
Monitoring date:	06, 13, 20, 27 February 2023 (Daytime)
	06&07, 13&14, 20&21, 27&28 February 2023 (Evening & Night time)
Parameter :	Leq 30min (Daytime), Leq 5min (Evening & Night time)
Noise source other than construction activities from the Project:	Nil

Date	Start time		End time	Weather	$\frac{L_{eq 30min} dB(A)}{L_{eq 5min} dB(A)}$	Sound Level Meter Used	Calibrator Used
06 Feb 2023	13:18	-	13:48	Sunny	59.9	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724244)
	19:13	-	19:18		43.9	$\mathbf{GVAN} = 0.71 (0 + 0.71)$	D' NO 75
06 Feb 2023	20:08	-	20:13	Fine	47.8	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724244)
2025	21:08	-	21:13		42.2	NO. 90002)	(1N0.34/24244)
07 Esh	1:18	-	1:23		40.5	SVAN 071 (Seriel	Rion NC-75
07 Feb 2023	3:23	-	3:28	Fine	40.3	SVAN 971 (Serial No. 96062)	
2025	5:28	-	5:33		38.3	NO. 90002)	(No.34724244)
13 Feb 2023	13:47	-	14:17	Sunny	59.0	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724244)
12 E-1	19:17	-	19:22		49.0	QUANO71 (Carial	Diam NO 75
13 Feb 2023	20:27	-	20:32	Fine	45.7	SVAN 971 (Serial	Rion NC-75 (No.34724244)
2025	21:22	-	21:27		43.6	No. 96062)	(10.34/24244)
14 E-1	1:17	-	1:22		40.2	$\mathbf{GVAN} = 0.71 (0 + 0.71)$	Rion NC-75
14 Feb 2023	3:17	-	3:22	Fine	35.1	SVAN 971 (Serial No. 96062)	(No.34724244)
2025	5:22	-	5:27		40.4		
20 Feb 2023	13:53	-	14:23	Sunny	64.5	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724244)
20 E-1	19:18	-	19:23		42.3	SVAN 071 (Seviel Diev NG	Diam NO 75
20 Feb 2023	20:13	-	20:18	Fine	52.8	SVAN 971 (Serial	Rion NC-75
2025	21:28	-	21:33		43.6	No. 96062)	(No.34724244)
01 Esh	1:13	-	1:18		46.5	SVAN 071 (Seriel	Diam NC 75
21 Feb 2023	3:18	-	3:23	Sunny	44.3	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724244)
2025	5:18	-	5:23		41.8	NO. 90002)	(10.54724244)
27 Feb 2023	13:34	-	14:04	Fine	61.7	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724244)
	19:29	-	19:34		62.0		D' NO 75
27 Feb 2023	20:24	-	20:29	Fine	50.1	SVAN 971 (Serial	Rion NC-75
2023	21:29	-	21:34		42.5	No. 96062)	(No.34724244)
20 Eak	1:09	-	1:14		45.3	SVAN 071 (Cari-1	Rion NC-75
28 Feb 2023	3:19	-	3:24	Fine	41.7	SVAN 971 (Serial No. 96062)	(No.34724244)
2023	5:14	-	5:19		41.1	INO. 90002)	(1N0.34/24244)

Location:	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 1 (M1 / N_S1)
Monitoring date:	06, 16, 20, 27 March 2023 (Daytime)
	06&07, 16&17, 20&21, 27&28 March 2023 (Evening & Night time)
Parameter :	L _{eq 30min} (Daytime), L _{eq 5min} (Evening & Night time)
Noise source other than construction activities from the Project:	Nil

Date	Start time		End time	Weather	L _{eq 30min} dB(A) / L _{eq 5min} dB(A)	Sound Level Meter Used	Calibrator Used
06 Mar 2023	13:44	-	14:14	Sunny	61.9	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724244)
06 Mar	19:14	-	19:19		51.5	SVAN 071 (Seriel	Rion NC-75
2023	20:29	-	20:34	Fine	51.2	SVAN 971 (Serial No. 96062)	(No.34724244)
2025	21:34	-	21:39		51.4	NO. 90002)	(10.34724244)
07 Mar	1:09	-	1:14		51.3	SVAN 971 (Serial	Rion NC-75
2023	3:19	-	3:24	Fine	51.8	No. 96062)	(No.34724244)
2023	5:19	-	5:24		48.5	NO. 90002)	(10.34724244)
16 Mar 2023	13:58	-	14:28	Sunny	59.5	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724244)
16 Man	19:18	-	19:23		45.3	SVAN 071 (Carial	Dian NC 75
16 Mar 2023	20:03	-	20:08	Fine	44.7	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724244)
2025	21:18	-	21:23		44.8		
17 Mar	1:28	-	1:33		45.7	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724244)
2023	3:23	-	3:28	Fine	50.9		
2025	5:18	-	5:23		51.0		
20 Mar 2023	13:36	-	14:06	Fine	61.1	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724244)
20.14	19:11	-	19:16		48.4	GUAN 071 (Carial	D: NO 75
20 Mar 2023	20:06	-	20:11	Fine	48.3	SVAN 971 (Serial	Rion NC-75
2025	21:26	-	21:31		48.6	No. 96062)	(No.34724244)
21 Mar	1:26	-	1:31		46.3	SVAN 971 (Serial	Rion NC-75
21 Mar 2023	3:26	-	3:31	Cloudy	46.1	No. 96062)	(No.34724244)
2023	5:26	-	5:31		48.2	NO. 90002)	(10.34724244)
27 Mar 2023	13:35	-	14:05	Fine	58.7	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724244)
07.14	19:20	-	19:25		46.2		D: NG 75
27 Mar 2023	20:20	-	20:25	Fine	42.6	SVAN 971 (Serial	Rion NC-75
2023	21:10	-	21:15]	43.6	No. 96062)	(No.34724244)
29 Mar	1:15	-	1:20		39.7	CVANO71 (Carial	Dian NC 75
28 Mar 2023	3:25	-	3:30	Fine	40.3	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724244)
2025	5:20	-	5:25		40.9	NO. 90002)	(1N0.34/24244)

Location:	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 2 (M2 / N_S2)
Monitoring date:	04, 09, 16, 26, 30 January 2023 (Daytime)
	04&05, 09&10, 16&17, 26&27, 30&31 January 2023 (Evening & Night time)
Parameter :	Leq 30min (Daytime), Leq 5min (Evening & Night time)
Noise source other than construction activities from the Project:	Nil

Date	Start time		End time	Weather	$\frac{L_{eq 30min} dB(A)}{L_{eq 5min} dB(A)}$	Sound Level Meter Used	Calibrator Used
04 Jan 2023	13:41	-	14:11	Cloudy	56.2	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34724243)
04 1	19:11	-	19:16		45.5		Diam NC 75
04 Jan 2023	20:16	-	20:21	Fine	46.4	SVAN 971 (Serial	Rion NC-75
2025	21:11	-	21:16		50.7	No. 103482)	(No.34724243)
05 Jan	1:16	1	1:21		43.4	SVAN 071 (Seriel	Rion NC-75
2023	3:06	1	3:11	Fine	42.9	SVAN 971 (Serial No. 103482)	(No.34724243)
2025	5:11	-	5:16		43.3	NO. 103462)	(10.34724243)
09 Jan 2023	13:17	-	13:47	Cloudy	55.7	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34724243)
00 I	19:22	-	19:27		48.2		D: NG 75
09 Jan	20:27	-	20:32	Fine	50.5	SVAN 971 (Serial	Rion NC-75
2023	21:22	-	21:27		46.8	No. 103482)	(No.34724243)
10.1	1:22	-	1:27		46.4		D: NG 75
10 Jan	3:17	-	3:22	Fine	48.6	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34724243)
2023	5:07	-	5:12		46.8		
16 Jan 2023	13:20	-	13:50	Cloudy	58.0	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34724243)
16 Jan	19:15	-	19:20		48.7		Dian NC 75
16 Jan 2023	20:10	-	20:15	Fine	50.0	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34724243)
2025	21:25	-	21:30		46.3	NO. 105482)	(100.54724245)
17 I.m	1:25	-	1:30		47.3	SVAN 071 (Seriel	D: NG 55
17 Jan 2023	3:25	-	3:30	Fine	48.7	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34724243)
2025	5:25	-	5:30		44.8	NO. 105482)	(100.54724245)
26 Jan 2023	13:19	-	13:49	Fine	50.0	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34724243)
	19:34	-	19:39		48.4		D: NO 75
26 Jan	20:29	-	20:34	Fine	48.2	SVAN 971 (Serial	Rion NC-75
2023	21:34	-	21:39	1	47.6	No. 103482)	(No.34724243)
07.1	1:19	-	1:24		47.4	QUANO71 (Contra	Dian NC 75
27 Jan 2023	3:09	-	3:14	Fine	51.2	SVAN 971 (Serial	Rion NC-75
2023	5:14	-	5:19		51.8	No. 103482)	(No.34724243)
30 Jan 2023	13:31	-	14:01	Sunny	57.3	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34724243)

Date	Start time		End time	Weather	L _{eq 30min} dB(A) / L _{eq 5min} dB(A)	Sound Level Meter Used	Calibrator Used
30 Jan	19:26	-	19:31		48.2	SVAN 971 (Serial	Rion NC-75
2023	20:46	1	20:51	Fine	45.4	No. 103482)	(No.34724243)
2025	21:46	1	21:51		45.6	NO. 103462)	(110.34724243)
31 Jan	1:26	1	1:31		47.5	SVAN 971 (Serial	Rion NC-75
2023	3:16	1	3:21	Fine	48.8		(No.34724243)
2023	5:21	-	5:26		48.0	No. 103482)	(100.34724243)

Location:	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 2 (M2 / N_S2)
Monitoring date:	06, 13, 20, 27 February 2023 (Daytime)
	06&07, 13&14, 20&21, 27&28 February 2023 (Evening & Night time)
Parameter :	Leq 30min (Daytime), Leq 5min (Evening & Night time)
Noise source other than construction activities from the Project:	Nil

Date	Start time		End time	Weather	$\frac{L_{eq 30min} dB(A)}{L_{eq 5min} dB(A)}$	Sound Level Meter Used	Calibrator Used	
06 Feb 2023	13:28	-	13:58	Sunny	56.0	SVAN 971 (Serial No. C119577)	Rion NC-75 (No.34724244)	
	19:08	-	19:13		51.4	QUANO71 (Carial	Diam NO 75	
06 Feb	20:28	-	20:33	Fine	47.1	SVAN 971 (Serial	Rion NC-75	
2023	21:08	-	21:13		45.6	No. C119577)	(No.34724244)	
07 5 1	1:13	-	1:18		44.5		D: NO 75	
07 Feb	3:28	-	3:33	Fine	44.4	SVAN 971 (Serial	Rion NC-75	
2023	5:18	-	5:23		43.7	No. C119577)	(No.34724244)	
13 Feb 2023	13:33	-	14:03	Sunny	58.6	SVAN 971 (Serial No. C119577)	Rion NC-75 (No.34724244)	
12 1 1	19:08	-	19:13		47.1		Rion NC-75 (No.34724244)	
13 Feb 2023	20:23	-	20:28	Fine	48.2	SVAN 971 (Serial		
	21:18	-	21:23		53.7	No. C119577)		
14 1 1	1:28	-	1:33		49.3	$\mathbf{GVAN} = 0.71 (0 + 0.71)$	D' NO 75	
14 Feb	3:23	-	3:28	Fine	44.7	SVAN 971 (Serial	Rion NC-75	
2023	5:23	-	5:28		54.3	No. C119577)	(No.34724244)	
20 Feb 2023	13:38	-	14:08	Sunny	58.1	SVAN 971 (Serial No. C119577)	Rion NC-75 (No.34724244)	
20 F 1	19:13	-	19:18		51.3		D: NO 77	
20 Feb	20:13	-	20:18	Fine	48.2	SVAN 971 (Serial	Rion NC-75	
2023	21:23	-	21:28		49.6	No. C119577)	(No.34724244)	
	1:23	-	1:28		55.4		D: NO 75	
21 Feb 2023	3:13	-	3:18	Sunny	49.1	SVAN 971 (Serial	Rion NC-75	
2025	5:23	-	5:28		48.4	No. C119577)	(No.34724244)	
27 Feb 2023	13:14	-	13:44	Fine	56.9	SVAN 971 (Serial No. C119577)	Rion NC-75 (No.34724244)	
07 F 1	19:19	-	19:24		58.0		D: NG 75	
27 Feb 2023	20:29	-	20:34	Fine	52.3	SVAN 971 (Serial	Rion NC-75	
2023	21:34	-	21:39		51.1	No. C119577)	(No.34724244)	
20 E-1	1:14	-	1:19		56.3	QUAN 071 (0	Dian NO 75	
28 Feb	3:24	-	3:29	Fine	50.6	SVAN 971 (Serial	Rion NC-75	
2023	5:14	-	5:19		50.1	No. C119577)	(No.34724244)	

Location:	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 2 (M2 / N_S2)
Monitoring date:	06, 16, 20, 27 March 2023 (Daytime)
	06&07, 16&17, 20&21, 27&28 March 2023 (Evening & Night time)
Parameter :	Leq 30min (Daytime), Leq 5min (Evening & Night time)
Noise source other than construction activities from the Project:	Nil

Date	Start time		End time	Weather	$\frac{L_{eq\;30min}dB(A)}{L_{eq\;5min}dB(A)}$	Sound Level Meter Used	Calibrator Used	
06 Mar 2023	13:49	-	14:19	Sunny	57.1	SVAN 971 (Serial No. C119577)	Rion NC-75 (No.34724244)	
06 Mar	19:14	-	19:19		52.1	SVAN 071 (Seriel	D' NG 75	
2023	20:29	-	20:34	Fine	53.7	SVAN 971 (Serial No. C119577)	Rion NC-75	
2025	21:24	-	21:29		51.6	NO. C119377)	(No.34724244)	
07 Mar	1:14	-	1:19		51.2	SVAN 971 (Serial	Rion NC-75	
2023	3:24	-	3:29	Fine	51.3	No. C119577)	(No.34724244)	
2025	5:24	-	5:29		49.4	100. C119377)	(10.34724244)	
16 Mar 2023	13:40	-	14:10	Sunny	57.1	SVAN 971 (Serial No. 103449)	Rion NC-75 (No.34724244)	
16 Mar	19:15	-	19:20		51.0	SVAN 071 (Seriel	Rion NC-75 (No.34724244)	
16 Mar 2023	20:05	-	20:10	Fine	50.3	SVAN 971 (Serial No. 103449)		
	21:15	-	21:20		50.8	100.103449)	(10.34724244)	
17 Mar	1:20	-	1:25		49.4	SVAN 971 (Serial	Rion NC-75	
2023	3:25	-	3:30	Fine	51.0	No. 103449)	(No.34724244)	
2023	5:25	-	5:30		49.7	NO. 10344 <i>9</i>)	(10.34724244)	
20 Mar 2023	13:47	-	14:17	Fine	56.7	SVAN 971 (Serial No. 103449)	Rion NC-75 (No.34724244)	
20 Мал	19:12	-	19:17		50.5	QUANO71 (Carial	Disc NO 75	
20 Mar 2023	20:07	-	20:12	Fine	49.4	SVAN 971 (Serial	Rion NC-75	
2025	21:27	-	21:32		50.3	No. 103449)	(No.34724244)	
21 Mar	1:27	-	1:32		48.9	SVAN 071 (Seriel	Rion NC-75	
21 Mar 2023	3:27	-	3:32	Cloudy	48.7	SVAN 971 (Serial No. 103449)	(No.34724244)	
2025	5:27	-	5:32		48.6	NO. 103449)	(10.34724244)	
27 Mar 2023	13:42	-	14:12	Fine	57.5	SVAN 971 (Serial No. 103449)	Rion NC-75 (No.34724244)	
27 Мал	19:22	-	19:27		50.7	QUANO71 (Carial	Dian NO 75	
27 Mar 2023	20:22	-	20:27	Fine	50.0	SVAN 971 (Serial No. 103449)	Rion NC-75	
2025	21:07	-	21:12		49.6	110. 103449)	(No.34724244)	
28 Mar	1:12	-	1:17		49.6	SVAN 071 (Seriel	Dian NC 75	
28 Mar 2023	3:27	-	3:32	Fine	49.7	SVAN 971 (Serial No. 103449)	Rion NC-75	
2025	5:22	-	5:27		49.7	110. 103449)	(No.34724244)	

Location:	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 3 (M3 / N_S3)
Monitoring date:	04, 09, 16, 26, 30 January 2023 (Daytime)
	04&05, 09&10, 16&17, 26&27, 30&31 January 2023 (Evening & Night time)
Parameter :	Leq 30min (Daytime), Leq 5min (Evening & Night time)
Noise source other than construction activities from the Project:	Air-conditioner

Date	Start time		End time	Weather	$\frac{L_{eq 30min} dB(A)}{L_{eq 5min} dB(A)}$	Sound Level Meter Used	Calibrator Used	
04 Jan 2023	13:40	-	14:10	Cloudy	56.0	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724243)	
04 1	19:10	-	19:15		48.7	GYAN 071 (G 1	D: NO 75	
04 Jan 2023	20:20	-	20:25	Fine	43.3	SVAN 971 (Serial	Rion NC-75	
2025	21:05	-	21:10		41.2	No. 96063)	(No.34724243)	
05 Jan	1:15	-	1:20		46.8	SVAN 971 (Serial	Rion NC-75	
2023	3:10	-	3:15	Fine	41.0	No. 96063)	(No.34724243)	
2025	5:15	-	5:20		42.8	NO. 90003)	(10.34724243)	
09 Jan 2023	13:27	-	13:57	Cloudy	61.4	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724243)	
00 I	19:27	-	19:32		42.3		D: NO 75	
09 Jan 2023	20:12	-	20:17	Fine	50.5	SVAN 971 (Serial	Rion NC-75 (No.34724243)	
2025	21:17	-	21:22		42.3	No. 96063)		
10 L.	1:22	-	1:27		43.0	$\mathbf{GVAN} = 071 (\mathbf{G} \cdot \mathbf{n}^2 \cdot 1)$	D' NO 75	
10 Jan 2023	3:17	-	3:22	Fine	49.4	SVAN 971 (Serial	Rion NC-75	
2023	5:12	-	5:17		43.8	No. 96063)	(No.34724243)	
16 Jan 2023	13:31	-	14:01	Cloudy	65.6	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724243)	
16 Jan	19:11	-	19:16		42.1	SVAN 971 (Serial	Rion NC-75	
2023	20:06	-	20:11	Fine	40.9	No. 96063)		
2025	21:16	-	21:21		40.4	NO. 90003)	(No.34724243)	
17 Jan	1:01	-	1:06		40.7	SVAN 971 (Serial	Rion NC-75	
2023	3:31	-	3:36	Fine	39.0	No. 96063)	(No.34724243)	
2025	5:06	-	5:11		38.0	NO. 90003)	(10.34724243)	
26 Jan 2023	13:23	-	13:53	Fine	48.7	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724243)	
26.1	19:08	-	19:13		42.1		D: NO 75	
26 Jan 2023	20:13	-	20:18	Fine	44.6	SVAN 971 (Serial	Rion NC-75	
2025	21:23	-	21:28		41.1	No. 96063)	(No.34724243)	
27 I.a.:	1:33	-	1:38		36.7	QUANO71 (Comint	Dian NC 75	
27 Jan 2023	3:23	-	3:28	Fine	36.4	SVAN 971 (Serial No. 96063)	Rion NC-75	
2023	5:18	-	5:23		45.6	INU. 90003)	(No.34724243)	
30 Jan 2023	13:38	-	14:08	Sunny	56.5	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724243)	

Date	Start time		End time	Weather	$\frac{L_{eq \ 30min} dB(A) / }{L_{eq \ 5min} dB(A)}$	Sound Level Meter Used	Calibrator Used	
30 Jan 2023	19:23	-	19:28		43.8	SVAN 971 (Serial	Rion NC-75	
	20:23	1	20:28	Fine	44.0	No. 96063)	(No.34724243)	
2023	21:23	1	21:28		42.9	110. 90003)	(10.34724243)	
31 Jan	1:18	1	1:23		42.3	SVAN 971 (Serial	Diam NC 75	
2023	3:13	1	3:18	Fine	43.5	No. 96063)	Rion NC-75	
2025	5:23	-	5:28		43.1	110. 90003)	(No.34724243)	

Location:	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 3 (M3 / N_S3)
Monitoring date:	06, 13, 20, 27 February 2023 (Daytime)
	06&07, 13&14, 20&21, 27&28 February 2023 (Evening & Night time)
Parameter :	Leq 30min (Daytime), Leq 5min (Evening & Night time)
Noise source other than construction activities from the Project:	Air-conditioner

Date	Start time		End time	Weather	$\frac{L_{eq 30min} dB(A)}{L_{eq 5min} dB(A)}$	Sound Level Meter Used	Calibrator Used	
06 Feb 2023	13:24	-	13:54	Sunny	58.9	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724244)	
	19:09	-	19:14		43.3	QUANO71 (Carial	Dian NO 75	
06 Feb	20:14	-	20:19	Fine	43.2	SVAN 971 (Serial	Rion NC-75	
2023	21:24	-	21:29		47.2	No. 96063)	(No.34724244)	
07 E-1	1:19	-	1:24		44.3	$\mathbf{GVAN} = 0.71 (0 + 0.71)$	D' NO 75	
07 Feb	3:14	-	3:19	Fine	43.0	SVAN 971 (Serial	Rion NC-75	
2023	5:14	-	5:19		39.2	No. 96063)	(No.34724244)	
13 Feb 2023	13:19	-	13:49	Sunny	55.5	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724244)	
12 1 1	19:14	-	19:19		48.4		D' NO 75	
13 Feb 2023	20:24	-	20:29	Fine	50.0	SVAN 971 (Serial	Rion NC-75	
	21:19	-	21:24		48.9	No. 96063)	(No.34724244)	
14 E-1	1:14	-	1:19		39.2	QUANO71 (Carial	Dian NO 75	
14 Feb 2023	3:09	-	3:14	Fine	39.4	SVAN 971 (Serial	Rion NC-75	
2025	5:14	-	5:19		43.4	No. 96063)	(No.34724244)	
20 Feb 2023	13:12	-	13:42	Sunny	57.2	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724244)	
20 E 1	19:12	-	19:17		49.3		D: NG 75	
20 Feb	20:12	-	20:17	Fine	43.7	SVAN 971 (Serial	Rion NC-75	
2023	21:32	-	21:37		44.3	No. 96063)	(No.34724244)	
	1:17	-	1:22		52.0		D: NO 75	
21 Feb 2023	3:22	-	3:27	Sunny	49.9	SVAN 971 (Serial	Rion NC-75	
2023	5:22	-	5:27		47.0	No. 96063)	(No.34724244)	
27 Feb 2023	13:37	-	14:07	Fine	57.1	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724244)	
07 F 1	19:22	-	19:27		49.5			
27 Feb	20:12	-	20:17	Fine	48.2	SVAN 971 (Serial	Rion NC-75	
2023	21:07	-	21:12	1	45.5	No. 96063)	(No.34724244)	
	1:07	-	1:12		48.5		Dian NO 75	
28 Feb	3:12	-	3:17	Fine	47.0	SVAN 971 (Serial	Rion NC-75	
2023	5:07	-	5:12]	44.7	No. 96063)	(No.34724244)	

Location:	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 3 (M3 / N_S3)
Monitoring date:	06, 16, 20, 27 March 2023 (Daytime)
	06&07, 16&17, 20&21, 27&28 March 2023 (Evening & Night time)
Parameter :	Leq 30min (Daytime), Leq 5min (Evening & Night time)
Noise source other than construction activities from the Project:	Air-conditioner

Date	Start time		End time	Weather	$\frac{L_{eq 30min} dB(A)}{L_{eq 5min} dB(A)}$	Sound Level Meter Used	Calibrator Used	
06 Mar 2023	13:43	-	14:13	Sunny	57.9	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724244)	
06 Mar	19:13	-	19:18		46.3	SVAN 071 (Seriel	D: NG 75	
2023	20:28	-	20:33	Fine	47.5	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724244)	
2025	21:33	-	21:38		46.9	NO. 90003)	(1NO.34/24244)	
07 Mar	1:13	-	1:18		47.7	SVAN 071 (Seriel	Rion NC-75	
2023	3:03	-	3:08	Fine	47.3	SVAN 971 (Serial		
2025	5:08	-	5:13		43.6	No. 96063)	(No.34724244)	
16 Mar 2023	13:33	-	14:03	Sunny	54.6	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724244)	
16 1	19:13	-	19:18		45.1	QUAN 071 (Q 1	Rion NC-75 (No.34724244)	
16 Mar 2023	20:08	-	20:13	Fine	42.0	SVAN 971 (Serial		
2025	21:23	-	21:28		41.3	No. 96063)	(1NO.34/24244)	
17.14	1:18	-	1:23		45.0	QUAN 071 (Q 1	D: NO 75	
17 Mar 2023	3:18	-	3:23	Fine	48.1	SVAN 971 (Serial	Rion NC-75	
2025	5:18	-	5:23		44.3	No. 96063)	(No.34724244)	
20 Mar 2023	13:02	-	13:32	Fine	54.8	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724244)	
20.14	19:07	-	19:12		46.4		Disc NO 75	
20 Mar	20:07	-	20:12	Fine	44.7	SVAN 971 (Serial	Rion NC-75	
2023	21:27	-	21:32		49.0	No. 96063)	(No.34724244)	
21 Mar	1:22	-	1:27		43.3	$\mathbf{GVAN} = 0.71 (0 + 0.71)$	D' NO 75	
21 Mar 2023	3:12	-	3:17	Cloudy	39.5	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724244)	
2025	5:07	-	5:12	_	43.3	INO. 90005)	(100.54724244)	
27 Mar 2023	13:38	-	14:08	Fine	59.2	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724244)	
07.14	19:23	-	19:28		44.0		D: NG 75	
27 Mar 2023	20:23	-	20:28	Fine	43.6	SVAN 971 (Serial	Rion NC-75	
2023	21:23	-	21:28		40.6	No. 96063)	(No.34724244)	
29 Mar	1:18	-	1:23		43.4	CVANO71 (Carial	Dian NC 75	
28 Mar 2023	3:23	-	3:28	Fine	45.9	SVAN 971 (Serial	Rion NC-75	
2023	5:23	-	5:28		46.3	No. 96063)	(No.34724244)	

Appendix E Waste Flow Table



Project : Integrated Waste Management Facilities, Phase 1

吉寶西格斯 - 振華聯營公司 Keppel Seghers - Zhen Hua Joint Venture

Monthly Summary Waste Flow Table for _____

(vear)

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 Metals Reused in cardboard Total Plastics Month Broken Public Rock Sand Public Fill packaging 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 (see Note 4) 4) 5) 1) 4) $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ (in ,000 kg) (in ,000kg) (in ,000kg) Jan Feb Mar Apr May Jun Sub-total

Contract No.: EP/SP/66/12

(in ,000kg)

0.2000

0.2000

Chemical Waste

(in ,000L)

0.8700

0.8700

Others, e.g. general

refuse

(see Note 3)

 $(in,000 \text{ m}^3)$

0.0065

0.0130

0.0195

Notes:

Jul

Aug Sep

Oct

Nov

Dec

Total

Broken concrete for recycling into aggregates. (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)

2.9619

3.0771

6.7871

59.0709

71.8970

Materials recycled. (5)



Monthly Summary Waste Flow Table for



2019

(year)

Project : Ii	ntegrated W	aste Manag	gement Faci	lities, Phas	e 1			Contract No.: EP/SP/66/12							
		Actual	Quantities of	Inert C&D	Materials Ger	nerated Mor	nthly			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)	($(in,000m^3)$	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. (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)

Materials recycled. (5)



Project : Integrated Waste Management Facilities, Phase 1

吉寶西格斯 - 振華聯營公司 Keppel Seghers - Zhen Hua Joint Venture

Monthly Summary Waste Flow Table for _____



2020

(year)

Contract No.: EP/SP/66/12

Floject . II	negrated w	aste Manag	gement raci	nues, Phas	eı				Contract No.: EP/SP/00/12					
		Actual	Quantities of	Inert C&D	Materials Gei	nerated Mon	thly			Actual	Quantities of	C&D Wastes	Generated M	onthly
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)	(in ,000m ³)		(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m ³)
Jan	0	0	0	0	0	37.1550	0	25.0812	0	0	0	0	0	0.0065
Feb	0	0	0	0	0	27.7910	0	18.8300	0	0	0	0	0	0.0065
Mar	0	0	0	0	0	22.5669	0	26.1586	0	0	0	0	7.2000	0.0065
Apr	0	0	0	0	0	12.7800	0	10.1825	0	0	0	0	0	0.0195
May	0	0	0	0	0	16.1138	0	24.3740	0	0.4220	0	0	0	0.0195
Jun	0	0	0	0	0	31.5177	0	28.3030	0	0	0	0	0	0.0065
Sub-total	0	0	0	0	0	147.9244	0	132.9293	0	0.4220	0	0	7.2000	0.0650
Jul	0	0	0	0	0	34.7856	17.0606	35.1800	0	0	0	0	0	0.0195
Aug	0	0	0	0	0	27.1375	65.5667	27.9335	0	0	0	0	0	0
Sep	0	0	0	0	0	11.9813	110.1328	43.5435	0	0	0	0	0	0.0195
Oct	0	0	0	0	0	2.8213	131.6600	22.5415	0	0	0	0	0	0.0130
Nov	0	0	0	0	0	0	162.1811	44.6475	0	0.4090	0	0	0.4000	0.0130
Dec	0	0	0	0	0	0	174.9800	57.8380	0	0	0	0	0	0.0130
Total	0	0	0	0	0	224.6501	661.5812	364.6133	0	0.8310	0	0	7.6000	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.



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 0 6.8885 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.



Monthly Summary Waste Flow Table for



2022

(year)

Project : In	roject : Integrated Waste Management Facilities, Phase 1										Con	tract 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)		$(in,000m^3)$	1	(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

Broken concrete for recycling into aggregates. (1)

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

(3) Use the conversion factor : 1 full load of dumping truck being equivalent to 6.5m³ by volume.

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

Materials recycled. (5)



Monthly Summary Waste Flow Table for



2023

(year)

Project : Ir	ect : Integrated Waste Management Facilities, Phase 1									Con	tract 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	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)		$(in,000m^3)$	1	(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m ³)
Jan	24.6728	0	0	24.6728	0	0	0	1.3545	0	0.3150	0	0	0	0.1365
Feb	26.7206	0	0	26.7206	0	0	0	1.8990	11.1501	0	0.0007	0	0	0.1235
Mar	22.1089	0	0	22.1089	0	0	0	0.9025	0	0	0	0	0	0.1105
Apr														
May														
Jun														
Sub-total	73.5023	0	0	73.5023	0	0	0	4.1560	11.1501	0.3150	0.0007	0	0	0.3705
Jul														
Aug														
Sep														
Oct														
Nov														
Dec														
Total	73.5023	0	0	73.5023	0	0	0	4.1560	11.1501	0.3150	0.0007	0	0	0.3705

Broken concrete for recycling into aggregates. (1)

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

(3) Use the conversion factor : 1 full load of dumping truck being equivalent to 6.5m³ by volume.

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

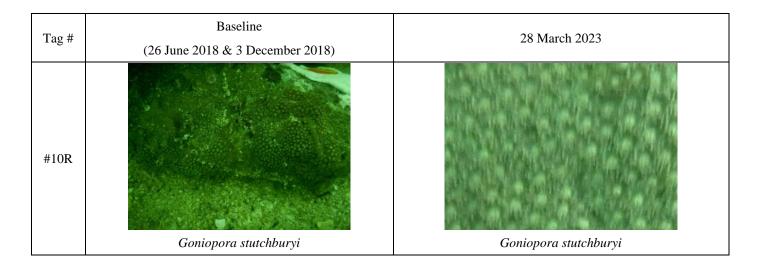
Materials recycled. (5)

Appendix F Photo Records for Coral Monitoring

Baseline Tag # 28 March 2023 (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 17th Quarterly Coral Monitoring during Construction Phase on 28 March 2023

Tag #	Baseline (26 June 2018 & 3 December 2018)	28 March 2023
#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	Goniopora stutchburyi	Goniopora stutchburyi



Notes:

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

Tag #	Baseline (23 November 2018)	28 March 2023
#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 17th Quarterly Coral Monitoring during Construction Phase on 28 March 2023

Tag #	Baseline (23 November 2018)	28 March 2023
#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

Tag #	Baseline (23 November 2018)	28 March 2023
#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 January 2023:



Line-transect survey during February 2023:





Line-transect survey during March 2023:



Appendix H Photo Records for White-bellied Sea Eagle Monitoring

Photo Plate for 55th Monthly WBSE monitoring





One Adult Male WBSE Recorded near the new nest area on 26 January 2023

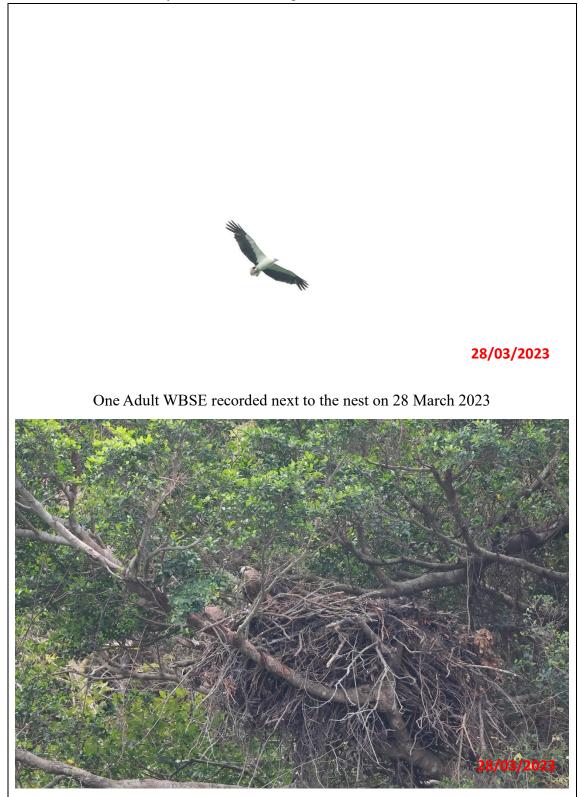
Photo Plate for 56th Monthly WBSE monitoring



One Adult Female WBSE Staying in nest for incubation on 16 February 2023



One Adult Male WBSE Recorded near the new nest area on 16 February 2023



One WBSE Chick recorded inside the nest on 28 March 2023

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 Jan 2023- 31 Jan 2023	0	1	N/A					
1 Feb 2023- 28 Feb 2023	0	1	N/A					
1 Mar 2023- 31 Mar 2023	0	1	N/A					

	Statistical Summary of Environmental Summons								
Reporting	En	Environmental Summons Statistics							
Period	Frequency	Cumulative	Details						
1 Jan 2023- 31 Jan 2023	0	0	N/A						
1 Feb 2023- 28 Feb 2023	0	0	N/A						
1 Mar 2023- 31 Mar 2023	0	0	N/A						

Reporting	Environmental Prosecution Statistics						
Period	Frequency	Cumulative	Details				
1 Jan 2023- 31 Jan 2023	0	0	N/A				
1 Feb 2023- 28 Feb 2023	0	0	N/A				
1 Mar 2023- 31 Mar 2023	0	0	N/A				