

Contract No. EP/SP/66/12 Integrated Waste Management Facilities, Phase 1 22nd 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.22 (Period from 1 October to 31 December 2023)

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

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Revision History

В	Updated Appendix C	18 March 2024
Α	First Submission	17 January 2024
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 22nd Quarterly EM&A Report, prepared by ASCL, for the Project summarizing and concluding the monitoring results and audit findings of the EM&A programme at and around Shek Kwu Chau (SKC) during the reporting period from 1 October 2023 to 31 December 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 22nd Quarterly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 October 2023 to 31 December 2023.
- 1.2. Project Organization
- 1.2.2 The Project Organization structure for Construction Phase is presented in **Figure 1.1**.

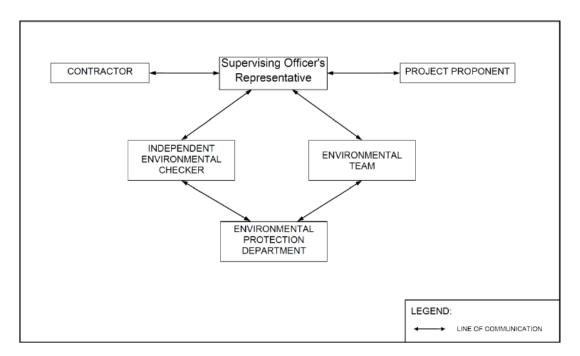


Figure 1.1 Project Organization Chart

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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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	• Foundation works (including Driven H Pile and Socketed H Pile)	• Completed
	• Pile cap construction	• On-going
	• Structural steel work	On-going
	Superstructure construction	• On-going
Seawall portion	• Caisson extension works, from +3mPD to +6mPD, at Seawall A and B	On-going
	• Construction of wave wall along the vertical seawall above +3mPD	• 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 womtoring	Baseline Monitoring Report and submitted to EPD under FEP Condition 3.4			
Impact Monitoring	On-going			
Waste Management	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 25	
	December 2018.	
Post Re-tagging Coral	On-going	
Quarterly Monitoring		
Marine Mammal	1	
Baseline Monitoring	The baseline marine mammal monitoring result has been	
6	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 period.	
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, since incubation activity was observed on 27	
	December 2023, the frequency of impact monitoring will	
	changed to weekly monitoring.	
Environmental Audit		
Site Inspection covering	On-going	
Measures of Air Quality,		
Noise Impact, Water		
- •		
Noise Impact, Water		
Noise Impact, Water Quality, Waste,		
Noise Impact, Water Quality, Waste, Ecological Quality,		
Noise Impact, Water Quality, Waste, Ecological Quality, Fisheries, Landscape and	Installation of caisson No.19 was completed on 18 March	
Noise Impact, Water Quality, Waste, Ecological Quality, Fisheries, Landscape and Visual	Installation of caisson No.19 was completed on 18 March 2021, which the reclamation area had been totally enclosed by	
Noise Impact, Water Quality, Waste, Ecological Quality, Fisheries, Landscape and Visual Mitigation Measures in		
Noise Impact, Water Quality, Waste, Ecological Quality, Fisheries, Landscape and Visual Mitigation Measures in Marine Mammal	2021, which the reclamation area had been totally enclosed by permanent structure. Floating type silt curtain at marine access was removed on 18 March 2021. No enclosed area	
Noise Impact, Water Quality, Waste, Ecological Quality, Fisheries, Landscape and Visual Mitigation Measures in Marine Mammal	2021, which the reclamation area had been totally enclosed by permanent structure. Floating type silt curtain at marine	
Noise Impact, Water Quality, Waste, Ecological Quality, Fisheries, Landscape and Visual Mitigation Measures in Marine Mammal	2021, which the reclamation area had been totally enclosed by permanent structure. Floating type silt curtain at marine access was removed on 18 March 2021. No enclosed area shall be formed by deployment of silt curtain for the remaining works programme.	
Noise Impact, Water Quality, Waste, Ecological Quality, Fisheries, Landscape and Visual Mitigation Measures in Marine Mammal	2021, which the reclamation area had been totally enclosed by permanent structure. Floating type silt curtain at marine access was removed on 18 March 2021. No enclosed area shall be formed by deployment of silt curtain for the	
Noise Impact, Water Quality, Waste, Ecological Quality, Fisheries, Landscape and Visual Mitigation Measures in Marine Mammal Watching Plan (MMWP)	 2021, which the reclamation area had been totally enclosed by permanent structure. Floating type silt curtain at marine access was removed on 18 March 2021. No enclosed area shall be formed by deployment of silt curtain for the remaining works programme. Installation of caisson No.19 was completed on 18 March 2021, which the reclamation area had been totally enclosed by 	
Noise Impact, Water Quality, Waste, Ecological Quality, Fisheries, Landscape and Visual Mitigation Measures in Marine Mammal Watching Plan (MMWP) Mitigation Measures in	 2021, which the reclamation area had been totally enclosed by permanent structure. Floating type silt curtain at marine access was removed on 18 March 2021. No enclosed area shall be formed by deployment of silt curtain for the remaining works programme. Installation of caisson No.19 was completed on 18 March 	
Noise Impact, Water Quality, Waste, Ecological Quality, Fisheries, Landscape and Visual Mitigation Measures in Marine Mammal Watching Plan (MMWP) Mitigation Measures in Detailed Monitoring	 2021, which the reclamation area had been totally enclosed by permanent structure. Floating type silt curtain at marine access was removed on 18 March 2021. No enclosed area shall be formed by deployment of silt curtain for the remaining works programme. Installation of caisson No.19 was completed on 18 March 2021, which the reclamation area had been totally enclosed by 	
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Noise Impact, Water Quality, Waste, Ecological Quality, Fisheries, Landscape and Visual Mitigation Measures in Marine Mammal Watching Plan (MMWP) Mitigation Measures in Detailed Monitoring Programme on Finless Porpoise (DMPFP)	 2021, which the reclamation area had been totally enclosed by permanent structure. Floating type silt curtain at marine access was removed on 18 March 2021. No enclosed area shall be formed by deployment of silt curtain for the remaining works programme. Installation of caisson No.19 was completed on 18 March 2021, which the reclamation area had been totally enclosed by permanent structure. Floating type silt curtain at marine access was removed on 18 March 2021. No enclosed area shall be formed by deployment of silt curtain at marine access was removed on 18 March 2021. No enclosed area shall be formed by deployment of silt curtain for the remaining works programme. 	
Noise Impact, Water Quality, Waste, Ecological Quality, Fisheries, Landscape and Visual Mitigation Measures in Marine Mammal Watching Plan (MMWP) Mitigation Measures in Detailed Monitoring Programme on Finless Porpoise (DMPFP) Mitigation Measures in	 2021, which the reclamation area had been totally enclosed by permanent structure. Floating type silt curtain at marine access was removed on 18 March 2021. No enclosed area shall be formed by deployment of silt curtain for the remaining works programme. Installation of caisson No.19 was completed on 18 March 2021, which the reclamation area had been totally enclosed by permanent structure. Floating type silt curtain at marine access was removed on 18 March 2021. No enclosed area shall be formed by deployment of silt curtain at marine access was removed on 18 March 2021. No enclosed area shall be formed by deployment of silt curtain for the remaining works programme. 	
Noise Impact, Water Quality, Waste, Ecological Quality, Fisheries, Landscape and Visual Mitigation Measures in Marine Mammal Watching Plan (MMWP) Mitigation Measures in Detailed Monitoring Programme on Finless Porpoise (DMPFP) Mitigation Measures in Vessel Travel Details	 2021, which the reclamation area had been totally enclosed by permanent structure. Floating type silt curtain at marine access was removed on 18 March 2021. No enclosed area shall be formed by deployment of silt curtain for the remaining works programme. Installation of caisson No.19 was completed on 18 March 2021, which the reclamation area had been totally enclosed by permanent structure. Floating type silt curtain at marine access was removed on 18 March 2021. No enclosed area shall be formed by deployment of silt curtain at marine access was removed on 18 March 2021. No enclosed area shall be formed by deployment of silt curtain for the remaining works programme. On-going 	

- 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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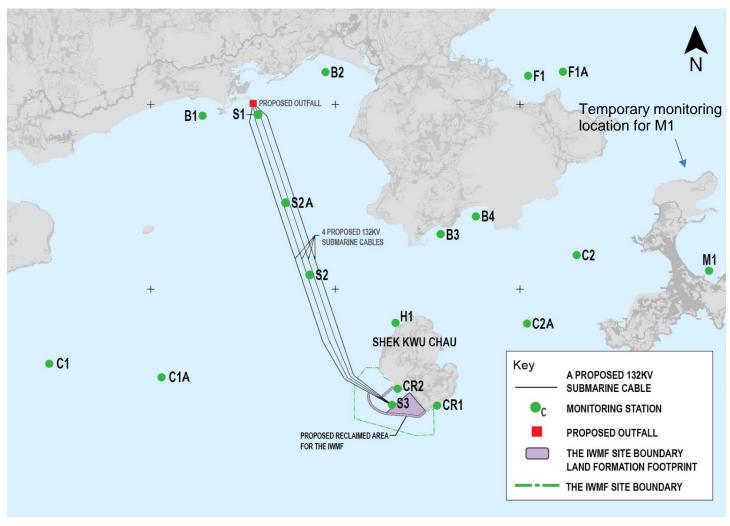


Figure 2.1 Water monitoring locations at Artificial Island near SKC

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	Construction Phase 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 Phase Impact Monitoring								
DO in mg/L	≤ 5.28	\leq 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 A 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 from 14 November 2020 onward. As no marine construction work will be carried out from March to December 2023 and EPD had 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.

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.

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	

 Table 3.1 Noise Monitoring Parameters, Time, Frequency and Duration

- 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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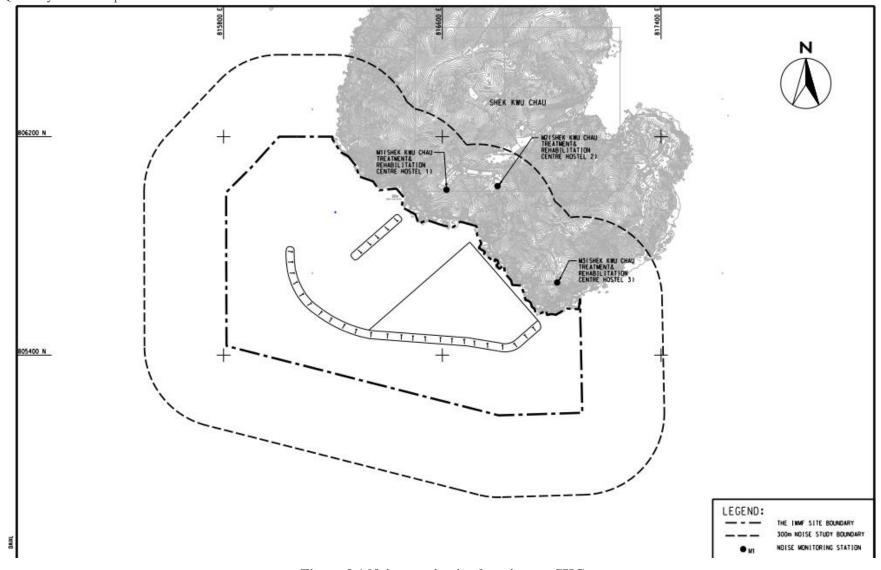


Figure 3.1 Noise monitoring locations at SKC

- 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	e per Updated EM&A Manual
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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 C.

- 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, construction works of air quality monitoring station	

Table 3.4 Summary of Field Observation

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

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

	Noise in dB(A)									
Location	Ra	nge of L _{eq 30}	min	Ra	nge of L10 30	min	Range of L90 30min			
	Oct	Nov	Dec	Oct	Nov	Dec	Oct	Nov	Dec	
N/1	56.0 -	56.3 –	56.1 –	57.7 –	58.0 -	57.8 -	54.0 -	54.5 -	53.6 -	
M1	64.0	63.2	62.0	68.3	65.8	62.1	55.7	57.9	56.6	
140	53.4 -	57.2 -	55.1 –	54.6 -	57.6 -	57.7 –	49.0 -	52.5 -	51.7 –	
M2	63.0	62.3	64.5	66.9	65.2	64.7	56.4	54.7	52.8	
M2	55.5 -	54.6 -	55.5 -	57.7 –	57.0 -	56.2 -	50.5 -	50.0 -	51.2 -	
M3	60.3	58.6	62.6	62.1	65.8	63.3	57.3	57.9	55.1	

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

		Noise in dB(A)									
Location	Ra	nge of L _{eq 5}	imin	Ra	nge of L ₁₀₅	imin	Range of L _{90 5min}				
	Oct Nov		Dec	Oct	Nov	Dec	Oct Nov		Dec		
N/1	42.5 -	42.7 -	43.6 -	43.6 -	44.4 -	45.0 -	41.5 -	38.7 –	41.5 -		
M1	59.3	53.9	53.3	60.1	56.7	55.4	55.8	51.3	50.8		
140	48.6 -	47.7 –	46.2 -	50.1 -	48.3 -	46.9 -	41.5 -	46.1 –	45.1 -		
M2	58.7	53.2	52.3	61.7	55.0	54.0	55.2	49.5	51.1		
M2	44.2 -	42.6 -	38.3 -	45.0 -	43.9 -	40.0 -	43.4 -	40.6 -	37.0 -		
M3	61.1	52.7	54.3	63.3	56.3	54.7	59.7	48.3	47.0		

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

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

	Noise in dB(A)									
Location	Ra	nge of L _{eq 5}	imin	Ra	nge of L10 5	imin	Range of L90 5min			
	Oct	Nov	Dec	Oct	Nov	Dec	Oct	Nov	Dec	
N/1	39.6 -	40.2 -	38.2 -	41.8 -	41.8 -	39.2 -	37.3 –	37.3 –	36.6 -	
M1	53.1	46.6	42.4	55.0	48.5	44.0	49.8	44.2	41.2	
MO	39.1 -	43.3 -	43.3 -	40.3 -	43.7 –	43.6 -	37.0 -	42.7 -	42.8 -	
M2	50.6	47.3	45.8	53.9	51.0	46.5	49.0	45.3	43.8	
142	40.9 -	40.2 -	35.1 -	41.7 –	40.9 -	35.8 -	35.6 -	39.5 -	34.2 -	
M3	62.7	48.3	44.3	62.9	49.5	53.6	62.5	45.9	39.2	

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, no C&D materials were generated on site in the reporting period. No metal was generated and collected by registered recycling collector. 377 kg of paper was collected by the registered recycling collector. No plastic waste was collected by registered recycling collector. No chemical waste was collected by the licensed chemical waste collector. 968.5 m³ of other types of wastes (e.g. general refuse) was disposed of at designated landfill. 898.5 m³ 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 D**.
- 4.5 The Contractor is advised to sort and store any solid and liquid waste on-site properly prior to disposal.

	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					у	
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	Sand	Imported Fi Public Fill	ll Rock	Metals	Paper / cardboard packaging	Plastics (see Note 2)	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 ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000m ³)
Oct 2023	0	0	0	0	0	0	0	0.4025	0	0.3779	0	0	0	0.2340
Nov 2023	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3510
Dec 2023	0	0	0	0	0	0	0	0.4960	0	0	0	0	0	0.3835

Notes:

1. Broken concrete for recycling into aggregates.

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

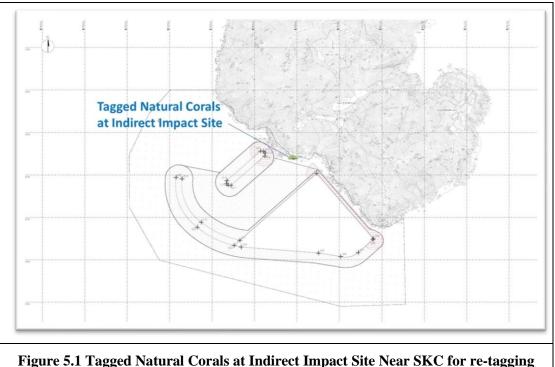
3. Use the conversion factor: 1 full load of dumping truck being equivalent to 6.5 m^3 by volume.

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	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 E.**
- 5.4.2 The 20th quarterly coral monitoring during construction phase at both Indirect Impact Site and Control Site was conducted on 27 December 2023 and the weather condition was summarized in **Table 5.6**.

Table 5.6 Weather Condition for the 20th Quarterly Coral Monitoring during Construction Phase at both Indirect Impact Site and Control Site

Date	Condition	Average Underwater Visibility		
27 December 2023	Northeast wind force 4 to 5Sunny	Less than 10 cm		

	[<i>13)</i> uui ing 04 to 0			litolintoling	1	
		Size (cm) – Max. Diameter		Mortali	Mortality (%) Bleaching (%)		Sediment (%)		
Coral #	Species	Diameter	Condition	Baseline (26 Jun 2018 & 3 Dec 2018) 27 Dec 202		Baseline (26 Jun 2018 & 3 Dec 2018)	27 Dec 2023	Baseline (26 Jun 2018 & 3 Dec 2018)	27 Dec 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	<i>Coscinaraea</i> sp.	15	Good	0	0	0	0	0	0
8	Goniopora stutchburyi	21	Good	0	0	0	0	0	0
9	Goniopora stutchburyi	11	Good	0	0	0	0	0	0
10R	Goniopora stutchburyi	20	Good	0	0	0	0	0	0

Table 5.7 Sizes, Condition, Mortality, Bleaching and Sediment of 10 Natural Coral Colonies at Control Site of 20th Quarterly Coral Monitoring (27 December 2023) during 64th to 66th Monthly Construction Phase Monitoring

Notes:

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

Coral #	Species	Size (cm) – Max.	Condition	Mortality (%) Bleach		ing (%)	Sediment (%)		
		Diameter		Baseline (23 Nov 2018)	27 Dec 2023	Baseline (23 Nov 2018)	27 Dec 2023	Baseline (23 Nov 2018)	27 Dec 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

Table 5.8 Sizes, Condition, Mortality, Bleaching and Sediment of 10 Natural Coral Colonies at Indirect Impact Site of 20th Quarterly Coral Monitoring (27 December 2023) during 64th to 66th Monthly Construction Phase Monitoring

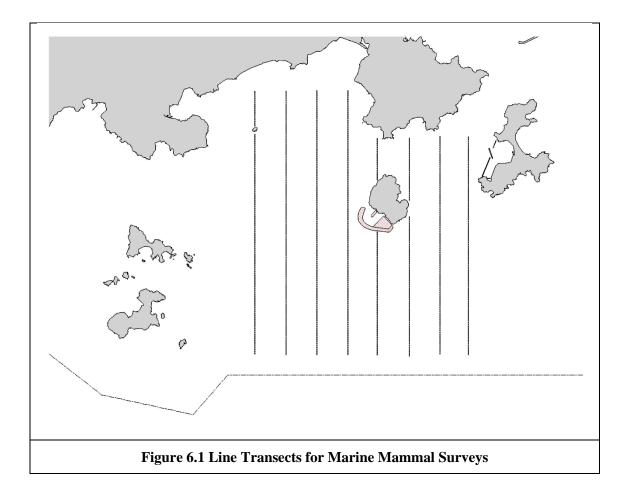
Notes:

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

- 5.4.3 The re-tagging activity had been done at both Indirect Impact Site and Control Site in November 2018 and December 2018 respectively. A total of 20 tagged coral colonies (10 at control site and 10 at indirect impact site including the re-tagged coral colonies) were monitored. Similar to the baseline results performed in June, November and December 2018 and the results of the previous quarterly coral monitoring during construction phase, the health condition of all tagged and re-tagged coral colonies at Indirect Impact Site and Control site were good in general. No increased mortality was recorded during the survey in December 2023.
- 5.4.4 No sediment, bleaching or increased mortality in the general condition of coral colonies were observed during the 20th 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.

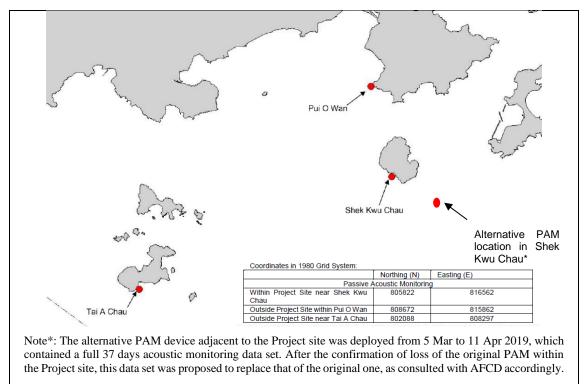


Figure 6.2 Locations of Passive Acoustic Monitoring

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.

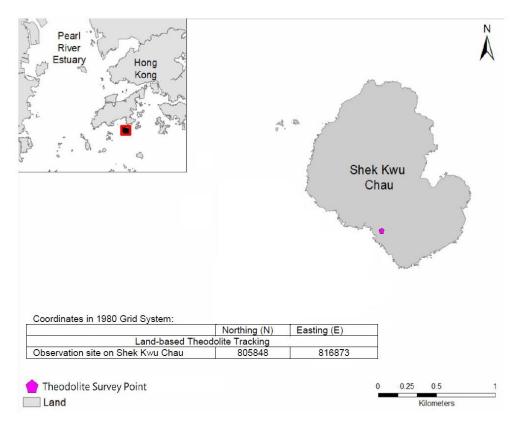


Figure 6.3 Locations of Land-based Theodolite Tracking

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
		Lantau waters

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

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

- 6.2 Specific Mitigation Measures
- 6.2.1 Monitored exclusion zones
- 6.2.1.1 During the installation/re-installation/relocation process of floating type silt curtains, in order to avoid the accidental entrance and entrapment of marine mammals within the silt curtains, a monitored exclusion zone of 250 m radius from silt curtain should be implemented and monitored by competent Marine Mammal Observers (MMOs). Marine Mammal Exclusion Zone (MMEZ) would also be implemented for precautionary purpose for DCM works.
- 6.2.2 Marine mammal watching plan
- 6.2.2.1 Upon the completion of silt curtain installation/re-installation/relocation, marine mammal watching plan would be implemented to observe the presence of any marine mammal around the localized silt curtain or being trapped by the localized silt curtain.
- 6.3 Results and Observations
- 6.3.1 Vessel-based Line-transect Survey
- 6.3.1.1 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 line transect monitoring from March to December 2023 was submitted to EPD on 21 March 2023 and EPD had no comment on the updated EM&A arrangement on 29 March 2023. The line transect monitoring was then temporarily suspended from 30 March 2023 onward.
- 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).

- 6.3.2.2 For the baseline study, the DPM for each site was 11,160 (Shek Kwu Chau), 16,089 (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 6.3).
- 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 6.3 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 7-day consecutive monitoring was conducted from 29 March 2023 to 4 April 2023 and the April 2023 construction phase monitoring were conducted on 12 and 26 April 2023. During the whole monitoring survey period, the two adult WBSEs and one chick were recorded. No abnormal behaviour of the recorded for both adults and chick during the 7-day consecutive monitoring.
- 7.2.2 Five monitoring surveys for monthly construction phase were conducted during the reporting period, four of the monitoring surveys were conducted during their core breeding season (between December to May) and one of the monitoring survey was 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)	
26 October 2023	Northeast wind force 4 to 5Sunny	29	
28 November 2023	Northeast wind force 4 to 5Sunny	22	
13 December 2023	Northeast wind force 4 to 5Sunny Day	23	
27 December 2023	Northeast wind force 4 to 5Sunny Day	24	

 Table 7.1 Weather Conditions during the WBSE Monitoring (Monthly)

- 7.2.3 Two adult WBSEs were recorded near Shek Kwu Chau area in October, November and December 2023. No abnormal behaviours of the adults were recorded during October, November and December 2023 construction phase monitoring. All construction works during the monitoring period did not show any impact to the WBSE.
- 7.2.4 The juvenile recorded in 2022 and 2023 has not been observed since monitoring event in September 2022 and September 2023 respectively, it is suggested that the juvenile left the nest at SKC and nesting in other area outside our monitoring boundary.
- 7.2.5 No disturbances from anthropogenic activities on the island were recorded during the monitoring survey. No invasion of other fauna species was recorded as well.



Figure 7.1 Location of WBSE Nest on SKC

- 7.2.6 No invasion of other fauna species was recorded and no sign of using the construction site as a foraging ground was recorded as well.
- 7.2.7 Photo records of the WBSE taken during the reporting period are presented in **Appendix F**.

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 No environmental complaint was received in the reporting period.
- 8.3 No notification of summon or prosecution was received since commencement of the Contract.
- 8.4 Statistics on complaints, notifications of summons and successful prosecutions are summarized in **Appendix G**.

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;
 - Non-road Mobile Machinery (NRMM) label was not displayed properly and faded NRMM label should be replaced;
 - Wastewater was not treated before discharge;
 - Improper deployment of geotextile;
 - C&D waste and general waste was stored separately;
 - Insufficient maintenance and cleaning for internal drainage works; and
 - General waste was not stored inside the enclosed rubbish bin and housekeeping was not maintained.
- 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 22nd Quarterly Environmental Monitoring and Audit (EM&A) Report summarizes the EM&A works undertaken during the period from 1 October 2023 to 31 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 for belt conveyor system, proper NRMM labelling, proper deployment of geotextile and proper wastewater handling.
- 10.5 As confirmed with Contractor and Project Supervising Officer, no marine construction work will be carried out from March to December 2023 tentatively. EPD advised no comment on the updated EM&A arrangement regarding temporarily 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 environmental complaint was received in the reporting period.
- 10.7 No notification of summon or prosecution was received since commencement of the Contract.
- 10.8 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

****	Seghers の方 - 泉 本 思 な の の IDES-ZHEN HULADOST VENTURE								Intec	Con grated Waste Managem
tivity ID	Adivity Name		emaining Duration	Activity % Current Start Complete	Current Finis	Late Start	Late Finish	Total M71 Remarks Float	Oct	2023 Nov
Programme for	r Design and Construction Works WP6H-M71 - 3-Month	2314	513	11-Jul-18 A	26-Mar-25	28-May-23	01-Oct-25	189	/1	72
Key Dates		29	29	31-Oct-23		18-Aug-23		63		
Planned Complet 01-1030(5a)	etion Dates Grid Connection Agreement (GCA)	29	29 0	31-Oct-23	28-Nov-23 31-Oct-23*	30-Oct-23	30-Jan-24 30-Oct-23	63		 Grid Connection Agreement (GCA)
01-1030(54)	Completion of Civil Provision for Transmission	0	0	0%	28-Nov-23		30-Jan-24	63		
Dates of Site Po		0	0	01-Nov-23		18-Aug-23		-75		Possession of Portion 3
01-1160 Contract Prelimi	Possession of Portion 3	0 90	0 61	0% 01-Jul-23 A	01-Nov-23 01-Jan-24	19-Aug-23	18-Aug-23 18-Oct-23	-75 -75		Possession of Polition 3
	of Environmental Monitoring Stations	90	61	01-Jul-23 A	01-Jan-24	19-Aug-23	18-Oct-23	-75		
02-1030	Establishment of Air Quality Monitoring Station at Portion 3 (12m Prior to T&C)	90	61	32.22% 01-Jul-23 A		0	18-Oct-23	-75		
02-1050 License/Permit	Establishment of Air Quality Monitoring Station at Portion 5 (12m Prior to T&C)	90 513	61 270	32.22% 01-Jul-23 A		19-Aug-23 18-Sep-23		-75 187		
	for Construction	302	29	24-Dec-22 A				428		
03-1370(5a)	EPD Discharge License for System Commissioning	0	0	0% 29-Nov-23		06-Jan-25		404		
03-1370_1(M34) DG Licence	Landscape and Visual Plan	180 210	24 210	86.67% 24-Dec-22 A 30-Nov-23	23-Nov-23 26-Jun-24	06-Jan-25 17-Jan-24		433 59		
	el Oil Storage (Cat 5)	210	210	30-Nov-23		28-Jan-24		59		
03-1400	General Building Plans and FSI Provision Design Submission to FSD (Cat 5)	30	30	0% 30-Nov-23	29-Dec-23		26-Feb-24	59		
03-1410 Chemical Store	DGD and VD Review and Approval of Submission	180 201	180 201	0% 30-Dec-23 30-Nov-23	26-Jun-24 17-Jun-24	27-Feb-24 17-Jan-24	24-Aug-24 04-Aug-24	59 48		
03-1480	Plans and FSI Provision Design Submission to FSD	21	21	0% 30-Nov-23	20-Dec-23	17-Jan-24	06-Feb-24	48		
03-1490	DGD and VD Review and Approval of Submission	180	180	0% 21-Dec-23		07-Feb-24	0	48		
	stallations (FSI) Certificate nstallations Certificate Inspection	68	68 0	29-Nov-23 29-Nov-23	06-Feb-24	16-Jan-24 16-Jan-24	04-Sep-24 16- Jan-24	212 48		
03-1555-1(5a)	Approval of General Building Plans and FSI Provision Design Submission	0	0	0%	29-Nov-23	TO SUIT 2 T	16-Jan-24	48		
	nstallations Certificate Inspection for IWMF Sub-Station	28	28	09-Jan-24	06-Feb-24	08-Aug-24		212		
03-3890	Application for FSI inspection FSD Process Application	14	14 14	0% 09-Jan-24 0% 23-Jan-24	23-Jan-24 06-Feb-24	08-Aug-24 22-Aug-24	21-Aug-24	212 212		
	ontrol (Specified Processes) License	300	270	24-Apr-23 A		05-Nov-23		5		
03-1750(3)	SP License Application Submissions and review by EPD	300	270	10% 24-Apr-23 A	26-Jul-24	05-Nov-23	31-Jul-24	5 Change Relationship on Predecessor 03-1555-1(5a) from FS 0 to FF0		
Boilers and Pres	ssure Vessels License	90	90	29-Dec-23	27-Mar-24	18-Sep-23	16-Dec-23			
03-1910(3)	Completion of on-site boiler installation	90	90				16-Dec-23			
General Submis		1735	10 10	27-Nov-18 A 27-Nov-18 A			01-Sep-23	-69 -69		
04-1400(1)	Ans Submission and Approval Operation Plan (OP)	240	10			, v		-69		Operation Plan (OP)
04-1450(1)	Asset Management Plan (AMP)	120	10	70% 15-Apr-23 A	09-Nov-23	19-Aug-23	28-Aug-23	-73		Asset Management P Handback Plan (HP)
04-1500(1) Design Submiss	Handback Plan (HP)	120 2070	10 271	70% 15-Mar-23 A 11-Jul-18 A		-	28-Aug-23 01-Oct-25			Hanuback Plain (HP)
General Building		882	60				16-May-24			
04-1600(M42)	Process Building & Wastewater Treatment Plant	135	30			18-Dec-23		48		
					29-Nov-23		16-Jan-24			
04-1610(M42)	Turbine Hall Building	135	30 30	77.78% 03-Mar-21 A				48		
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3-Month Rolling Programme (October 2023)	Actual Work
PAGE 1 OF 17	Remaining W

Critical Remaining Work 🔶 Vork 🔷 🔷 Milestone

Actrual • Critical Milestone

	Dec	2024 Jan
	73	74
♦ C	ompletion of Civil Provision for Transmission	
		Establishment of Air Quality Monitoring Station
	PD Discharge License for System Commissioning and Visual Plan	Establishment of Air Quality Monitoring Station
C		General Building Plans and FSI Provision Design Su
	Plans and FSI P	évision Design Submission to FSD
\$	Approval of General Building Plans and FSI Provision	Design Submission Applicatio
	Process Building & Wastewater Treatment Plant Turbine Hall Building	
	Compressor & CCCW Building	
	Chimney , Mechanical Treatment Plant & Water Treatment Plant	
	Reception Pavilion	
	Administration Building and Viewing Gallery Elevated Drive Way and Associated Structures	
	WMF Substation	lass of Offloading Doint
	\	lessel Offloading Point Phicle Fuel Filling Station
Weighbridge	F	uel Filling Kiosk
	Seawater Intake Structure	
e Air Quality Mo	nitoring Stations (2.9.01)	
	LV and Emergency Power Distribution Design Ddour Control Drainage	
	Lifts	
	V and Emergency Power Distribution Design (2.5.06 Odour Control (2.5.06.03)	01)

D	Adivity Name	Original Duration	Remaining Duration	Activity % Current Start Complete	Current Finis	h Late Start	Late Finish	Total M71 Remarks Float	Oct	ated Waste Manage
Building service	es design (excluding fire services installation design) (2.6.06)	135	30		29-Nov-23	21-Apr-24	27-Aug-24	272	71	72
05-1960	Electrical Services and Lighting (2.6.06.01)	135	30	80% 30-Apr-19 A	29-Nov-23	29-Jul-24	27-Aug-24	272		
05-2000	Drainage	135	30	80% 20-Mar-22 A			,	173		۵ (<u>۱</u>
	ion Building (2.7)	1520	59	31-Oct-19 A			-	144		
05-2050 Building service	Electrical and instrumentation works design (2.7.03) es design (excluding fire services installation design) (2.7.05)	59 227	59 30			03-Dec-23 01-Sep-23		33 173		
05-2080	MVAC	135	30				· · · ·	173		•
05-2130	Lifts and Escalators	135	30	80% 22-Feb-22 A				-60		a :
AIP Chimney		241	30			31-Aug-23		83		
-	es design (excluding fire services installation design)	241	30			31-Aug-23		83		
05-5430(5a) 05-5440(5a)	Electrical Services and Lighting MVAC	90	30 30					60 53		
05-5450(5a)	Plumbing	90	30	60% 20-Sep-21 A				83		a l
05-5460-1(5a)	Drainage	90	30	60% 20-Sep-21 A				83		
05-5470(5a)	ELV Lift	90	30 12					60		
05-5480-2(5a) 05-5490(5a)	Liit Building Management System (BMS)	90	0		_	31-Aug-23		-42 -60		
	ve Way and Associated Structures Foundation	105	30	31-Dec-21 A		-	-	-46		
	es design (excluding fire services installation design)	105	30	31-Dec-21 A	29-Nov-23	15-Sep-23	14-Oct-23	-46		
05-7090	Electrical Services and Lighting	105	30	60% 31-Dec-21 A	29-Nov-23	15-Sep-23	14-Oct-23	-46		
AIP Roads and U	Jtilities (2.10)	1155	60	31-Oct-20 A	29-Dec-23	23-Sep-23	19-Jan-24	21		
Water supply sy	ystem design on the Artificial Island (2.10.04)	1155	60	31-Oct-20 A				7		
05-2360	Water Tanks (2.10.04.05)	60	60			23-Sep-23		-38		:
05-2370-2(M24) 05-2370-3(5a)	Building Services system for seawater intake (2.10.04.09) Chemical scrubber system for odour control (2.10.04.10)	105	30 30	60% 31-Oct-20 A 60% 31-Oct-21 A	-			37 37		
	ommunication and other utilities (2.10.06)	590	30					51		
05-2380	Power Distribution System concept / schematics (2.10.06.01)	135	30	80% 31-Jan-21 A	29-Nov-23	21-Dec-23	19-Jan-24	51		
05-2430	Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)	105	1	80% 31-May-22 A				5		Site ELV Network System - Navio
	II, Finishes and Landscaping Works (2.11)	728	59	05-Oct-21 A			-	151		
Facade Structur		728	59				-	151		
05-8040-1(6D) 05-8050-1(6D)	Reception Pavilion (2.3.14.07.01) Mechanical Treatment Plant & Desalination Plant Building (2.4.14.01)	90	30 30	75% 05-Oct-21 A 75% 08-Mar-22 A	_	· ·	,	-50		
05-8090-1(6D)	Sky Deck near Administration Building Structural Design	59	59			11-Sep-23 18-Dec-23		48		
	Commissioning (2.12)	1779	195			04-Jun-23		193		
05-2650-1(5)	Factory Acceptance Testing plan (2.12.01.02-07) (8 Packages)	1651	146	60% 23-Apr-19 A	24-Mar-24	02-Aug-23	25-Dec-23	-90		
05-2660	Site Acceptance Testing plan (2.12.02)	90	90	0% 31-Oct-23		04-Jun-23		-149		
05-2670 05-2680	System commissioning plan (2.12.03) Plant commissioning plan (2.12.04)	90	90 105	0% 31-Oct-23 0% 29-Jan-24	28-Jan-24	20-Mar-24 09-Aug-24		141 193		
	us Works (2.14)	105	105	30-Nov-23		13-Jul-24		226		
05-2710	Existing onshore crane replacement works at Portion 2	105	105	0% 30-Nov-23*	13-Mar-24	13-Jul-24	25-Oct-24	226		
AIP Auxiliary Pla	ant Systems (2.16)	90	90	31-Oct-23	28-Jan-24	23-Sep-23	28-Jan-24	0		
05-2760	Maintenance workshops (2.16.01)	90	90	0% 31-Oct-23	28-Jan-24			-16		
05-2770 05-2780	Vehicle Fuel Filling Station (2.16.02)	90	90 90	0% 31-Oct-23 0% 31-Oct-23	28-Jan-24 28-Jan-24			-38		
AIP O&M Packag	Stores systems (2.16.03)	758	270	0% 31-00-23 06-Jun-22 A		14-Nov-23		176		
05-8010(6E)	Warehouse (O&M Scope)	185	106			09-Jul-24		252		a
05-8020(6E)	Workshop (O&M Scope)	150	150	0% 30-Nov-23*	27-Apr-24	08-Jun-24	04-Nov-24	191		
05-8030(6E)	Ash & Residues Container (0&M Scope)	160	75			25-May-24	0	207		
05-8040(6E) 05-8050(6E)	Bicar Debagging Station (O&M Scope) Other Mobile Plants (O&M Scope)	105 210	85 210	40% 17-Nov-22 A 0% 30-Dec-23*		14-Apr-24 23-Jun-24		166 176		
05-8050-1(M55)	Design of (pilot) Electric Vehicle	150	150	0% 30-Dec-23*				-46		
DA Design Pack	kage Submissions	2070	271	05-Sep-18 A	27-Jul-24	07-Jul-23	01-Oct-25	431		
DA Process and	d Layout Design (2.1)	1161	98	02-Oct-20 A	05-Feb-24	07-Sep-23	21-Nov-24	290		
MSW treatment	process design for incineration (2.1.13)	256	90	30-Jun-22 A	28-Jan-24	24-Aug-24	21-Nov-24	298		
05-5120	Leachate Collection and Treatment (2.1.13.05) (2 Packages)	256	90			Ű				
	process design for mechanical treatment (2.1.14)	1161	98			07-Sep-23		290		
05-3500 05-3510	Mechanical Treatment Plant (2.1.14) Water Treatment Plant and Boiler Water Treatment (Demin Unit) Plant	181	98 29	30% 05-Jul-23 A 60% 02-Oct-20 A		5		-54		
	ement design for MSW and Ash and Residues (2.1.17)	105	15		1	21-Dec-23		51		
05-4410	Mechanical Shredder	105	15	80% 25-Sep-21 A	14-Nov-23	21-Dec-23	04-Jan-24	51		Mechar
DA Ground Tre	eatment, Reclamation, Seawall, Breakwater, Berth (2.2)	1835	90	20-Jan-19 A	28-Jan-24	17-Nov-23	30-Nov-24	307		
05-3430-2(M37)	Geotechnical Interpretative Report (2.2.02.02)	105	10	80% 31-Dec-20 A		-	,	190		Geotechnical In
05-3450 05-3470	Seawall design (2.2.20) Berth design (2.2.22)	60 60	20 20					17 233		
05-3470	Onshore crane Facility (2.2.23)	60	20 60	0% 31-Oct-23		20-Jun-24 08-Sep-24		313		
05-3490	Onshore vessel power supply system (2.2.24)	90	90			02-Sep-24		307		
DA Incineration	n Plant Buildings (2.3)	1919	196	05-Sep-18 A	13-May-24	17-Aug-23	11-Aug-24	90		
Structural desig	yn (2.3.14)	59	41	01-Oct-23 A	11-Dec-23	25-Feb-24	06-Apr-24	118		
05-3280-1(M55)	Sky Deck	59	41	30% 01-Oct-23 A	11-Dec-23	25-Feb-24	06-Apr-24	118 Update Actual Start Date		1 C.
	nstrumentation works design (2.3.15)	1889	90		00 1	17-Aug-23	00.0	187		

3-Month Rolling	Programme	(October	2023)
PAGE 2 OF 17			

Critical Remaining Work 🔶

Actrual • Critical

	lo. EP/SP/66/12	瞏 境保護署
nent Fa	cilities, Phase 1 🛄 📕	nvironmental Protection Department 2024
	Dec 73	Jan 74
		1.4
	Electrical Services and Lighting (2.6.06.01)	
	Drainage	
	Ele	ctrical and instrumentation works design (2.7.03)
	MVAC	
	Lifts and Escalators	
	Electrical Services and Lighting	
	MVAC	
	Plumbing Drainage	
	ELV	
	Electrical Services and Lighting	
	14	ater Tanks (2.10.04.05)
	Building Services system for seawater intake (2.10.04.	
	Chemical scrubber system for odour control (2.10.04.1	
	Power Distribution System concept / schematics (2.10. t / schematics (2.10.06.06)	06.01)
	Reception Pavilion (2.3.14.07.01)	
	Mechanical Treatment Plant & Desalination Plant Build	Deck near Administration Building Structural Design
		5 5
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		Ash & Residues Container (C Bicar Deba
		Le
W	ater Treatment Plant and Boiler Water Treatment (Der	nin Unit) Plant
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Shredder		
etative Report	(2 2 02 02)	
awall design (2		
rth design (2.2		naham arana Faailita (2.2.2.2)
	0	nshore crane Facility (2.2.23) Or
	Sky Deck	
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I Mileston	le	
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古背西格斯	Seghers	_	_	_		_		_	_		Inten	Conti rated Waste Manageme
Activity ID	Adivity Name	Original Duration		Activity % Complete	6 Current Start	Current Finis	h Late Start	Late Finish	Total M Float	71 Remarks	Oct	2023 Nov
05-3370	Electric Heat Tracing (Process Island) (2.3.15.02.10)	120	88	60%	6 17-Feb-22 A	26-Jan-24	03-Apr-24	29-Jun-24	155		71	72
05-3390-10(M55)	Electrical Works - MCC Panels (2.3.15.02.01)	105	15	80%	6 22-Sep-20 A	14-Nov-23	12-Mar-24	26-Mar-24	133			Electrical Work
05-3390-11(M55)	Electrical Works - Process Island Uninterruptible Power Supply (UPS) (2.3.15.02.03)	105	15	80%	6 27-Nov-20 A	14-Nov-23	16-Feb-24	01-Mar-24	108			Electrical Work
05-3390-13(M55)	Electrical Works E&I Installation at Yard (2.3.15.02.08)	105	15	60%	6 07-May-22 A	14-Nov-23	08-Mar-24	22-Mar-24	129			Electrical Work
05-3390-6(M55)	Electrical Works Instrumentation (2.3.15.02.06)	105	16	80%	6 15-Oct-21 A	15-Nov-23	07-Mar-24	22-Mar-24	128			Electrical Wo
05-7400-1(M55)	Electrical works CEMS and Process Analyzers (2.3.15.02.07)	105	67	80%	6 12-Jul-21 A	05-Jan-24	31-Mar-24	05-Jun-24	152			
E&IC Package 2 (Pov	wer Island) (2.3.15.03)	348	29		23-Dec-20 A	28-Nov-23	01-Sep-23	31-Mar-24	124			
05-3390-13(M55)10	Electrical Works Design (2.3.15.03.01 to 04)	105	29	80%	6 23-Dec-20 A	28-Nov-23	01-Sep-23	29-Sep-23	-60			
05-3390-4(M46)	Generator Related Equipment (2.3.15.03.08)	105	29	80%	6 29-Jun-21 A	28-Nov-23	03-Mar-24	31-Mar-24	124			.
05-3390-7(M55)	instrumentation works design(2.3.15.03.05 & 2.3.15.03.06)	105	29	80%	6 10-Feb-21 A	28-Nov-23	23-Jan-24	20-Feb-24	84			-
Operation Manageme	nent System (2.3.15.04)	1889	90		05-Sep-18 A	28-Jan-24	17-Aug-23	02-Aug-24	187			
05-3390-6(M46)	OMS/SCADA/DCS - System Networks Details (2.3.15.04.02)	105	29	80%	6 30-Oct-21 A	28-Nov-23	08-Jan-24	05-Feb-24	69			-
05-4490	Design of the Air Quality Monitoring Stations (2.9.03)	60	3	95%	6 16-Mar-23 A	02-Nov-23	17-Aug-23	19-Aug-23	-75			Design of the Air Quality Monitoring
05-5400-1(M22)	Automatic Traffic Control System (ATCS)	90	90	0%	6 31-Oct-23	28-Jan-24	05-May-24	02-Aug-24	187			L
05-7400(6E)	Automatic License Plate and Container Recognition System (ALPCRS)	90	16	80%	6 05-Sep-18 A	15-Nov-23	15-Feb-24	01-Mar-24	107			Automatic Lic
2.3.15.04.03		167	59		19-Apr-22 A	28-Dec-23	08-Feb-24	06-Apr-24	100			
2.3.15.04.03.02		105	59		02-Aug-22 A	28-Dec-23	08-Feb-24	06-Apr-24	100			
05-3390-13(M58)	OMS/SCADA/DCS - Panel Design for Power Island and Plant Common (2.3.15.04.03.02)	105	59	80%	6 02-Aug-22 A	28-Dec-23	08-Feb-24	06-Apr-24	100			
2.3.15.04.03.03		105	31				07-Mar-24		128			
05-3390-14(M55)	OMS/SCADA/DCS - Server Panel Design (2.3.15.04.03.03)	105		80%	6 19-Apr-22 A				128			
2.3.15.04.06	Dragge Delated 2rd Darty System (2.2.15.04.07.01.01)	105	31	000	06-Oct-21 A				128			
05-3390-9(6D)	Process Related 3rd Party System (2.3.15.04.06.01.01)	105			6 09-Dec-21 A			· ·	128			1
05-3420(M58)	3rd Party System for Power Island & Communication Data Tables for Process Vol 1 and Power Island & Plant C. Vol 1 & 2	105	31	80%	6 06-Oct-21 A				128			
2.3.15.05		105					22-Nov-23		219			
05-3390-15(M55)	Balance of Plant LV Switchgear Design (2.3.15.05.01)	105			6 07-May-22 A				113			
05-3390-16(M55)	Package 3 (Balance of Plant) - Weighbridge Electrical & Instrumentation Package & ALPCRS (2.3.15.05.07)	105	15		6 04-Jan-22 A				232			Package 3 (Bal
05-3390-17(M55)	Waste Crane Functional Description (2.3.15.05.08)	105	31	80%	6 15-Jul-21 A	30-Nov-23	07-Mar-24	06-Apr-24	128			
05-3390-3(M55)	Electrical and Instrumentation Works Design - Compressed Air Plants (2.3.15.05.03)	105	31	60%	6 29-Nov-21 A	30-Nov-23	22-Nov-23	22-Dec-23	22			
05-3390-5(M55)	Electrical and Instrumentation Works - Ash Crane (2.3.15.05.05)	105	31	80%	6 30-Aug-21 A	30-Nov-23	06-Jun-24	06-Jul-24	219			
2.3.15.08		105	31		23-May-22 A	30-Nov-23	07-Mar-24	06-Apr-24	128			
05-3390-21(M55)	Operation Management System (2.3.15.08)	105	31	80%	6 23-May-22 A	30-Nov-23	07-Mar-24	06-Apr-24	128			
Mechanical works	s design (2.3.16)	1825	196		28-Feb-19 A	13-May-24	22-Aug-23	11-May-24	-2			
Plant and Equipment		1825	196		28-Feb-19 A	13-May-24	22-Aug-23	11-May-24	-2			
05-3390-4(M55)	Electrical and Instrumentation Works - Waste Crane and Grapple System (2.3.15.05.04)	105	31	80%	6 07-Jan-22 A	,	0	,	147			
05-3600	Mechanical Shredder	105	31		6 05-May-22 A				51			
05-3610	Incineration System (9 Packages)	105	180		6 28-Feb-19 A	_	_		-36			
05-3620	Heat Recovery Boiler (8 Packages)	105	165		6 31-Jul-19 A		· ·		29			
05-3630	Boiler Feed Water Systems (4 Packages)	105			6 30-Sep-19 A			,	113			
					· ·							
05-3650	Leachate collection and treatment	180			6 04-Jul-23 A				-70			
05-3790	Flue Gas Treatment System (12 Packages)	105	76		6 31-Oct-19 A				88			
05-3800	Boiler ash and APC residue handling and solidification	105	196	70%	6 09-Jun-20 A	,	· ·		-52			
	(Incl. Ductworks) and Valves	470					09-Sep-23		46			
05-3840	Process island (furnace-boiler-FGC)	105	106		6 29-Feb-20 A			31-Mar-24	47			
05-4350	Pipe Rack C1, C2, C3, D1 & D2 (Prefab.3)	105	107	80%	6 28-Feb-21 A				-52			
	ure support (For equipment, piping & duct, cable tray etc)	105			-		20-Nov-23		20			
05-3540	Pipe Rack C1, C2, C3, D1 & D2 (Prefab.3)	105		80%	6 29-May-21 A							
DDA Fire services	s installation design (2.3.17)	60	15		22-Sep-22 A	14-Dec-23	31-Jan-24	15-Feb-24	63			
05-3660	Fire Systems (same package with 05-3680)	60	15	60%	6 22-Sep-22 A	14-Dec-23	31-Jan-24	15-Feb-24	63			
05-3680	FS schematics (same package with 05-3660)	60	15	60%	6 22-Sep-22 A	14-Dec-23	31-Jan-24	15-Feb-24	63			
Building services	s design (excluding fire services installation design) (2.3.18)	120	120		25-Oct-21 A	27-Feb-24	01-Sep-23	11-Aug-24	166			
05-3690	Electrical Services and Lighting (7 Packages)	60	60	0%	6 22-Apr-22 A	29-Dec-23	24-Dec-23	22-Feb-24	55			
05-3700	MVAC	90	90		6 26-Oct-21 A				57			
05-3710	Odour Control	90			6 30-Nov-23				27			
05-3720	Plumbing (7 Packages)	90			6 02-Dec-22 A				161			
05-3730	Drainage (7 Packages)	90			6 10-Mar-22 A				161			
05-3740	ELV (7 Packages)	60			6 25-Oct-21 A		· ·		55			
05-3750	Lifts and Escalators	90			6 13-Jul-23 A				30			
05-3770	Building Management System (BMS)	60			6 14-Jun-22 A				-60			
05-3780	Vehicle & Container Wash System	60			6 28-Apr-23 A		· ·		44			
05-3780-2(M20)	Water Cannon System	90			6 31-Oct-23							;
		305		07			18-Aug-23	-	-74			
	Drawings and Fire Safety Strategy (2.3.25)						-					Cite Master Lawyet Diag and J
05-3520	Site Master Layout Plan and Plant Layout (2.1.18)	60			6 06-Jun-23 A		0		-64		-	Site Master Layout Plan and I
05-6110(M46)	Gate House and miscellaneous	60		0%			18-Aug-23		-74			
DDA Mechanical T	Treatment Plant Building (2.4)	441	227		20-Sep-22 A	13-Jun-24	12-Sep-23	27-Aug-24	75			
05-5180	Structural design (2.4.14)	60	15	75%	6 23-Feb-23 A	14-Nov-23	30-Nov-23	14-Dec-23	30			Structural desig
05-5190	Electrical and instrumentation works design	227	227	0%	6 31-Oct-23	13-Jun-24	12-Sep-23	25-Apr-24	-49			
05-5200	Mechanical works design (2.4.16)	135	135	0%	6 31-Oct-23	13-Mar-24	13-Dec-23	25-Apr-24	43		1	L
05-5210	Fire services installation design (2.6.17)	60			6 21-Apr-23 A				137			
	s design (excluding fire services installation design) (2.4.18)	304					01-Oct-23	-	182			
05-3850	LV and Emergency Power Distribution Design	90		60%	6 20-Sep-22 A							
05-3860	EV and Emergency Power Distribution Design MVAC	90			6 14-Feb-23 A		-	0	84			
	Odour Control											Odour Control
		90			6 16-Apr-23 A				31			
05-3870								1 h Nov 22	14			
05-3870 05-3880	Plumbing	60			6 20-Sep-22 A				-14			
05-3870 05-3880 05-3890	Plumbing Drainage	60	29	60%	6 24-Apr-23 A	28-Nov-23	22-Apr-24	20-May-24	174		- 	
05-3870 05-3880 05-3890 05-3900	Plumbing Drainage Lighting and small power	60 90	29 59	60% 60%	6 24-Apr-23 A 6 20-Sep-22 A	28-Nov-23 28-Dec-23	22-Apr-24 30-Jun-24	20-May-24 27-Aug-24	174 243		-	
05-3870 05-3880 05-3890	Plumbing Drainage	60	29 59	60% 60%	6 24-Apr-23 A	28-Nov-23 28-Dec-23	22-Apr-24 30-Jun-24	20-May-24 27-Aug-24	174		-	

3-Month Rolling Programme (October 2	2023)
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Actual Work

Critical Remaining Work 🔶

• Critical

Management Fa	lo. EP/SP/66/12 pcilities, Phase 1	環境保護署 Environmental Protection Department
2023 Nov 72	Dec 73	2024 Jan 74
Electrical Works - MCC Pa Electrical Works - Process	nels (2.3.15.02.01) Island Uninterruptible Power Supply (UPS) (2.3. fation at Yard (2.3.15.02.08)	Elect
G	ectrical Works Design (2.3.15.03.01 to 04) enerator Related Equipment (2.3.15.03.08) strumentation works design(2.3.15.03.05 &2.3.15 MS/SCADA/DCS - System Networks Details (2.3 9.03)	
Automatic License Plate	and Container Recognition System (ALPCRS)	OMS/SCADA/DCS - Panel Design for Power Island and
	OMS/SCADA/DCS - Server Panel Design (2.3. Process Related 3rd Party System (2.3.15.04.0 3rd Party System for Power Island & Communi	
Package 3 (Balance of Pla	Balance of Plant LV Switchgear Design (2.3.15 ni) - Weighbridge Electrical & Instrumentation Pa Waste Crane Functional Description (2.3.15.05 Electrical and Instrumentation Works Design - 1	Package & ALPCRS (2.3.15.05.07))5.08) - Compressed Air Plants (2.3.15.05.03)
	Electrical and Instrumentation Works - Ash Cra	rane (2,3, 15,05,05)
	Electrical and Instrumentation Works - Waste C Mechanical Shredder	Crane and Grapple System (2.3.15.05.04)
	Boiler Feed Water Systems (4 Packages)	
		Flue Gas Treatment Syste
		Flue Gas Treatment Syste
		Flue Gas Treatment Syste
	Fire Systems (same p FS schematics (same	
		package with 05-3680)
		package with 05-3680) e package with 05-3660) Efectrical Services and Lighting (7 Packages) N
		package with 05-3680) e package with 05-3660) Efectrical Services and Lighting (7 Packages)
		package with 05-3680) e package with 05-3660) Efectrical Services and Lighting (7 Packages) N P D EEV (7 Packages)
E E E E E E E E E E E E E E E E E E E	FS schematics (same	package with 05-3680) e package with 05-3660) Effectincal Services and Lighting (7 Packages) N P EEV (7 Packages) EEV (7 Packages) L Building Management System (BMS)
ter Layout Plan and Plant Layou	FS schematics (same	package with 05-3680) e package with 05-3660) Efectrical Services and Lighting (7 Packages) N EEV (7 Packages) EEV (7 Packages) Building Management System (BMS) Vehicle & Container Wash System V
Structural design (2.4.14)	FS schematics (same	package with 05-3680) e package with 05-3660) Efectrical Services and Lighting (7 Packages) N EEV (7 Packages) EEV (7 Packages) Building Management System (BMS) Vehicle & Container Wash System V
Structural design (2.4.14) F Odour Control	FS schematics (same	package with 05-3680) e package with 05-3660) Efectrical Services and Lighting (7 Packages) N Effective Services and Lighting (7 Packages) N Effective Services and Lighting (7 Packages) D Building Management System (BMS) Vehicle & Container Wash System Vehicle & Container Wash System Vehicle & Container Wash System Vehicle & Container Wash System
Structural design (2.4.14) F Odour Control	FS schematics (same	package with 05-3680) e package with 05-3660) Efectrical Services and Lighting (7 Packages) N D EEUV (7 Packages) L Building Management System (BMS) Vehicle & Container Wash System V Gate House and miscellaneous

	Adivity Name	Original	Remaining	Activity % Current Start	Current Finish	Late Start	Late Finish	Total M71 Remarks		ntegrated Waste Mana
		Duration	Duration	Complete				Float	Oct 71	Nov 72
15-3910-1	Building Management System (BMS) Treatment Plant (2.5)	60 638	29 154		28-Nov-23 01-Apr-24		30-Oct-23 25-Nov-24	-29 238		
5-3950	Electrical and instrumentation works design (2.5.15)	60	154	25% 19-Sep-22 A				211		
5-3960	Mechanical works design (2.5.16) (5 Packages)	232	138	80% 31-May-22 A		13-Jun-24		226		
5-3970	Fire services installation design (2.6.17) (2 Packages)	60	30	60% 21-Apr-23 A		13-Jun-24		196		
	s design (excluding fire services installation design) (2.5.18)	294	120		27-Feb-24			272		
15-3980 15-3990	LV and Emergency Power Distribution Design for IWMF Waste Water Treatment Plant MVAC	90	89 30	60% 20-Sep-22 A 60% 09-Mar-23 A		01-Apr-24 20-Jun-24	_	153 233		
15-3990	Odour Control	90				20-Jun-24 21-Apr-24		143		
5-4010	Plumbing	90	30			· ·	26-Sep-24	302		
5-4020	Drainage	105	30	80% 10-Mar-22 A	29-Nov-23	28-Aug-24	26-Sep-24	302		
5-4030	ELV	90	30	80% 22-Sep-22 A						
	ment Plant Building (2.6)	513	34 30				27-Aug-24	268		
5-4070 5-4090	Structural design (2.6.14) Mechanical works design (2.6.16)	60	30			22-100V-23 25-Jan-24	21-Dec-23 27-Feb-24	86		-1
5-4100	Fire services installation design (2.6.17)	60	30	60% 22-Sep-22 A		15-Mar-24		136		
uilding service	s design (excluding fire services installation design) (2.6.18)	455	30	29-Jun-22 A	29-Nov-23	17-Oct-23	27-Aug-24	272		
5-4110	Electrical Services and Lighting	90	30	60% 20-Sep-22 A						
5-4120	MVAC Diumbing	90	30					113		
15-4140 15-4150	Plumbing Drainage	60	30 30				15-Nov-23 20-May-24	-14		
15-4160	ELV	90	30				-	272		
lectrical and in	strumentation works design (2.6.15)	238	34	11-Apr-22 A	03-Dec-23	24-Feb-24	28-Mar-24	116		
15-4080	Water Treatment Plant (WTP) - Variable Speed Drive (2.6.15.01)	238	34				28-Mar-24			
	ion Building (2.7)	334	120	· · · · ·	27-Feb-24		27-Aug-24	182		
5-4190	Structural design (2.7.12)	105	30			14-Sep-23		-46		
5-4200 5-4210	Electrical and instrumentation works design (2.7.13) Fire services installation design (2.7.14)	60	60 30			31-Jan-24 15-Mar-24	30-Mar-24	33		
	s design (excluding fire services installation design) (2.7.15)	304	120		27-Feb-24			182		
5-4220	Electrical Services and Lighting	90	30	60% 02-Dec-22 A	29-Nov-23	30-May-24	28-Jun-24	212		
5-4230	MVAC	90	30	60% 14-Feb-23 A	29-Nov-23	21-Apr-24	20-May-24	173		
5-4250	Plumbing	90	30				27-Aug-24	272		
5-4260	Drainage ELV	90	30 30	60% 05-May-23 A			27-Aug-24	272 212		
15-4270 15-4280	Lifts and Escalators	90	30 90	60% 20-Sep-22 A 0% 30-Nov-23	27-Feb-24			-60		
5-4280-1	Building Management System (BMS)	90	30			01-Oct-23		-30		
OA IWMF Subst	ation (2.8)	274	30	16-Oct-21 A	29-Nov-23	17-Aug-23	26-Sep-24	302		
5-4340	Fire services installation design (2.8.17)	60	0	80% 17-Jun-22 A	31-Oct-23	19-Aug-23	19-Aug-23	-72		Fire services installation des
	s design (excluding fire services installation design) (2.8.18)	151	30	25-Oct-21 A	29-Nov-23	21-Apr-24	26-Sep-24	302		
5-4990	Electrical Services and Lighting	90	30	60% 22-Apr-22 A			31-Jul-24	244		
15-5000 15-5010	MVAC Plumbing	90	30 30				20-May-24 30-Aug-24			
5-5020	Drainage	90	30				30-Aug-24			
5-5030	ELV	90	30	60% 25-Oct-21 A	29-Nov-23		31-Jul-24	244		
5-5030-1	Building Management System (BMS)	90	30							
	strumentation works design (2.8.15)	90	0		31-Oct-23	-		-74		
8.15.06 05-4320	Electrical and instrumentation works docion (2.9.15.04.01 to 40)	90 90	0		31-Oct-23		17-Aug-23	-74		Electrical and instrumentation
	Electrical and instrumentation works design (2.8.15.06.01 to 40) ndensers Equipment (2.3.06)	90	90			-	17-Aug-23 18-Aug-24			
	s design (excluding fire services installation design) (2.3.06)	90	90			· · ·	18-Aug-24			
5-5510	Electrical Services and Lighting	90	90				18-Aug-24			
5-5520	Plumbing	60	60			21-May-24		203		
5-5530	ELV	90	90	0% 31-Oct-23	28-Jan-24	21-May-24	18-Aug-24	203		
5-5540	Building Management System (BMS)	60	60		29-Dec-23			-60		
A Chimney		608	120		27-Feb-24			83		Ctructural Decian
-5370 -5540-2(6D)	Structural Design Fire services installation design	90	0 29				20-Oct-23 30-Sep-23	-10		Structural Design
	s design (excluding fire services installation design)	120	120				20-May-24	83		
5-6000-1(5a)	Electrical Services and Lighting	90	90			29-Jan-24		60		
6010(5a)	MVAC	60	60	0% 30-Nov-23			21-Mar-24	53		
-6020-1(5a)	Plumbing	90	90				20-May-24	83		
5-6030-1(5a)	Drainage	90	90		27-Feb-24		-	83		
5-6040-1(5a) 5-6050-1(5a)	ELV Líft	90	90 90		27-Feb-24 09-Feb-24		· ·	-42		
5-6060-1(5a)	Building Management System (BMS)	60	60		29-Dec-23			-60		
	ive Way and Associated Structures Foundation	304	120		27-Feb-24			16		
-5380	Structural Design	90	0	80% 06-Jan-22 A	31-Oct-23	16-Sep-23	16-Sep-23	-44		Structural Design
-5540-3(6D)	Fire services installation design	60	30					76		
-	s design (excluding fire services installation design)	120	120		27-Feb-24			-28		
5-5560	Building Management System (BMS)	90	90	0% 31-Oct-23	28-Jan-24	01-Sep-23	29-Nov-23	-60		
					0.7. 7. 1	48.5	10 .			
5-7240 5-7250	Electrical Services and Lighting MVAC	90 105	90 105	0% 30-Nov-23 0% 31-Oct-23	27-Feb-24 12-Feb-24	15-Oct-23 16-Oct-23		-46		

3-Month Rolling Progra	amme (October 2023)
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Critical Remaining Work 🔶 •

ntract No. I	EP/SP/66/12	2
nont Eacili	lac Dhaca	1



e Management Fa	cilities, Phase 1 💶	Environmental Protection Department
2023 Nov	Dec	2024 Jan
72 B	73 vilding Management System (BMS)	74
	 	Fire services installation design (2.6.17) (2 Packages)
		LV a
	MVAC	
	Plumbing	-
	Drainage	
	ELV	
	Structural design (2.6.14)	
	Mechanical works design (2.6.16)	
	Fire services installation design (2.6.17)	
	Electrical Services and Lighting	
	MVAC	
	Plumbing Drainage	
	ELV	
	Motor Treatment Dignt (MTD) Mariable Case	Drive (2 (15 01)
	Water Treatment Plant (WTP) - Variable Spee	acionive (2.6.15.01)
	Structural design (2.7.12)	
	Fire services installation design (2.7.14)	
	Electrical Services and Lighting	
	MVAC Plumbing	
	Drainage	
	ELV	
	Building Management System (BMS)	
tallation design (2.8.17)		
	Electrical Services and Lighting	
	MVAC Plumbing	
	Drainage	
	ELV Building Management System (BMS)	
strumentation works design (2.8.15	(06.01 to 40)	
		EI
		Plumbing
		Building Management System (BMS)
n		
F	re services installation design	
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		A100
		Building Management System (BMS)
n		
C		Fire services installation design
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Actrual Milestor		
 Critical Mileston 	e	

y ID Adivity Na	me	Original Duration	Remaining Duration		Current Start	Current Finis	h Late Start	Late Finish	Total M7 Float	71 Remarks	Oct	2023 Nov
05-7270 Drainage		105	105		31-Oct-23	12-Feb-24	18-Oct-23	30-Jan-24	-13		71	72
05-7280 ELV		105	105		31-Oct-23	12-Feb-24	30-Sep-23		-31			
DA Reception Pavilion		289	105						227			
05-3280 Foundatio 05-5390 Structural	5	90	30 30			29-Nov-23 29-Nov-23	· ·	21-Oct-23 15-Dec-23	-39 16			
	ces installation design	60	30					13-May-24				9
U U I	xcluding fire services installation design)	105	105	3	31-Oct-23	12-Feb-24	01-Sep-23	26-Sep-24	227			
•	Aanagement System (BMS)	60	60		31-Oct-23	29-Dec-23	01-Sep-23		-60			
05-7290 Electrical 05-7300 MVAC	Services and Lighting	90	90 105		31-Oct-23 31-Oct-23	28-Jan-24 12-Feb-24	29-Jun-24 07-Mar-24	26-Sep-24	242 128			
05-7310 Plumbing		105	105		31-Oct-23	12-Feb-24	30-Jan-24		91			
05-7320 Drainage		105	105		31-Oct-23	12-Feb-24	30-Jan-24		91			
05-7330 ELV DA CCCW Building		90	90 60		31-Oct-23	28-Jan-24 29-Dec-23	29-Jun-24 01-Oct-23		242 212			
3	ces installation design	60	30			29-Nov-23	15-Mar-24		136			
	xcluding fire services installation design)	274	60						212			
•	Aanagement System (BMS)	60	60		31-Oct-23	29-Dec-23	01-Oct-23		-30			
5-7340 Electrical 5-7350 MVAC	Services and Lighting	90	59 60		21-Jun-22 A 31-Oct-23	29-Dec-23 29-Dec-23	31-May-24	-	212 83			
05-7360 MVAC Plumbing		60	60 60		31-Oct-23 31-Oct-23	29-Dec-23 29-Dec-23	22-Jan-24 14-Feb-24		106			
-7370 Drainage		60	60	0% 3	31-Oct-23	29-Dec-23	14-Feb-24	13-Apr-24	106			
-7380 ELV		60	60		31-Oct-23	29-Dec-23	30-May-24		212			
A Roads and Utilities (2.1	·	563 90	135 59			13-Mar-24 28-Dec-23	06-Nov-23 06-Feb-24		37 98			
	ut on the Artificial Island (2.10.13) d hardstandings layout	90	59		, v	28-Dec-23		04-Apr-24	90			
	age and markings	90	59		•	28-Dec-23	06-Feb-24	· ·	98			
ewerage design on the Art	ificial Island (2.10.14)	427	30	1	13-Jan-21 A	29-Nov-23	13-Jan-24	04-Apr-24	127			
-4430 Foul Sew	•	60	29			28-Nov-23		10-Feb-24	74			
	ated Sewerage (Site Wide Sewerage System) nore Sewage Transfer System for IWMF Vessels (Caisson 13)	60 90	29			28-Nov-23 03-Nov-23	13-Jan-24 16-Feb-24		74 108			Ship-to-shore Sewage Transfer
	nore Sewage Transfer System for Passenger Ferry	90	30			29-Nov-23	06-Mar-24		127			
ainage system design on	the Artificial Island (2.10.15)	90	59	2	22-Feb-23 A	28-Dec-23	14-Dec-23	10-Feb-24	44			
	rater Drainage System	90	59			28-Dec-23		10-Feb-24	44			
	n on the Artificial Island (2.10.16) /ater Distribution System	561 105	135 105		04-Apr-22 A 31-Oct-23	13-Mar-24	22-Nov-23 31-Dec-23		37 61			
	Water System	90	90		31-Oct-23	28-Jan-24		13-Apr-24	76			
5270 Irrigation	-	90	90	0% 3	31-Oct-23	28-Jan-24		04-Apr-24	67			
	r harvesting System	90	90		31-Oct-23	28-Jan-24		04-Apr-24	67			
5290 Water Tai 5300 External F	rs Systems	60 60	60 60		30-Dec-23 31-Oct-23	27-Feb-24 29-Dec-23	22-Nov-23 22-Nov-23		-38 22			
	em for seawater intake (2.10.16.07)	105	44			13-Dec-23			128			
	iervices system for seawater intake (2.10.16.09)	105	105		30-Nov-23	13-Mar-24		· ·	37			
	scrubber system for odour control (2.10.16.10) n and other utilities (2.10.18)	105 470	105 105		30-Nov-23	13-Mar-24 12-Feb-24			37 67			
0	stribution System concept / schemalics	75	75		30-Nov-23	12-Feb-24			51			
	ing Concept / Schematics	90	90		31-Oct-23	28-Jan-24	21-Jan-24		82			
	Protection System concept / schematics	90	90		31-Oct-23	28-Jan-24	05-Jan-24	· ·	66			
	Network System - Communications System concept / schematics Network System - Security Systems concept / schematics	75	30 30		-	29-Nov-23 29-Nov-23	06-Dec-23 06-Dec-23		36			
	Network System - Netwigation aids concept / schematics	60	60			30-Dec-23	06-Nov-23		5			
	e transmission of FS direct link	105	3		-	02-Nov-23			63			Microwave transmission of FS dir
	Iling System concept / schematics	60 90	60 59			29-Dec-23 28-Dec-23			97 22			
-5040 Design of	Pipe / Utilities Trenches concept	90	59			28-Dec-23			22			
•	Jtilities Trenches Design	90	59			28-Dec-23			22			
Architectural, Finishes	and Landscaping Works (2.11)	638	149	1	15-Jun-21 A	27-Mar-24	07-Jul-23	01-Sep-24	158			
ernal and internal finishe	5	486	90			28-Jan-24		01-Sep-24	217			
	Ind internal finishes design for Incineration Plant Building (2.11.15.01) Ind internal finishes design for Turbine Hall Building	90	30 9			29-Nov-23 08-Nov-23	-		210 24			External and internal fi
	ind internal finishes design for CCCW Building	90	9		•	31-Oct-23			180			External and internal finishes design
	Ind internal finishes design for Chimney	90	29		-				34			
	Ind Internal Finishes design for Reception Pavilion	90	90			28-Jan-24	17-Oct-23		-14			:
	nd internal finishes design for MT Plant Building (2.11.16) Ind internal finishes design for the Wastewater Treatment Plant (2.11.17)	60	60 60		31-Oct-23 31-Oct-23	29-Dec-23 29-Dec-23	30-Nov-23 18-Mar-24	28-Jan-24 16-May-24	30 139			1
	and internal finishes design for the Water Treatment Plant Building (2.11.08)	60	60		31-Oct-23	29-Dec-23	30-Nov-23	,	30			
-4760 External a	nd internal finishes design for the Administration Building (2.11.19)	60	60		31-Oct-23	29-Dec-23	30-Dec-23		60			-
	Ind internal finishes design for the IWMF Substation (2.11.20)	90	5 29		•	04-Nov-23		· ·	302 -29			External and internal finishes
dscaping Works (2.11.2	Ind internal finishes design for Elevated Driveway	152	29			28-Nov-23 02-Nov-23			-29			
	e Masterplan & Landscape Design for Water Feature (2.11.19.01)	105	3			02-Nov-23			-116			Landscape Masterplan & Landsca
	e Architectural Design for MT Plant Building and Water Treatment Plant Building (2.11.07.08)	75	3	80% 0	08-Mar-23 A	02-Nov-23	07-Jul-23	09-Jul-23	-116			Landscape Architectural Design fo
	e Architectural Design for Administration Building (2.11.07.09) e Architectural Design for IWMF Substation 2.11.07.10)	105	3			02-Nov-23 02-Nov-23			-116 -116			Landscape Architectural Design fo

3-Month Rolling Programme (October 2023)	Actual Work	Critical Remaining Work	
PAGE 5 OF 17	Remaining Work	♦ ♦ Milestone	•
FAGE 5 OF 17			

Now Dec Jan 72 73 74 73 74 74 Foundation Design Structural Design For services installation design Britking Management System (BMS) Britking Management System (BMS) Britking Management System (BMS) Electrical Services and Liphting Previous Installation design Britking Management System (BMS) Britking Management System (BMS) Electrical Services and Liphting Previous Installation design Britking Management System (BMS) Electrical Services and Liphting MAC Primo ing Diamage Electrical Services and Liphting MAC Primo ing Diamage Electrical Services and Liphting MAC Roads and hardstandings layout Road signage and markings Equal Services Road signage and markings Equal Services Prevented System for Passenger/Fery Surface water Drainage System Stripto-shore Sevage Transfer System for seared of thate (2 10.16.07) Electrical Services EAM system for seared of thate ELV Network System - Communications System Concept / schematics Surface water Drainage System - Navigation ads conce	lanagement Fa	acilities, Phase 1		nvironmental Protection Department
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ctural Design for MT Plant Building and Water Treatment Plant Building (2.11.07.08) ctural Design for Administration Building (2.11.07.09) ctural Design for IWMF Substation 2.11.07.10)	I and internal finishes design for the set of the set o	Sile ELV Network System - Comm Sile ELV Network System - Securi External and internal finishes design for Trubine Hall Building slitting External and internal finishes design	em for seawater inta unications System of y Systems concept y Systems concept De: Site of Chimney for Chimney E E E E E E E E	Iternal FS Systems ke (2.10.16.07) oncept / schematics schematics Site ELV Network System - Navigation aids concept wide Utilities Trenches Concept / schematics ign of Pipe / Utilities Trenches Concept wide Utilities Trenches Design ant Building (2.11.15.01) tternal and internal finishes design for MT Plant Buil tternal and internal finishes design for the Wastewa tternal and internal finishes design for the Wastewa tternal and internal finishes design for the Wastewa
ctural Design for Administration Building (2.11.07.09) ctural Design for IWMF Substation 2.11.07.10)	I and internal finishes design inishes design for CCCW Bu	Sile ELV Network System - Comm Sile ELV Network System - Securi External and internal finishes design for Turbine Hall Building lifting External and internal finishes design	em for seawater inta unications System of y Systems concept y Systems concept De: Site of Chimney for Chimney E E E E E E E E	Iternal FS Systems ke (2.10.16.07) oncept / schematics schematics Site ELV Network System - Navigation aids concept wide Utilities Trenches Concept / schematics ign of Pipe / Utilities Trenches Concept wide Utilities Trenches Design ant Building (2.11.15.01) tternal and internal finishes design for MT Plant Buil tternal and internal finishes design for the Wastewa tternal and internal finishes design for the Wastewa tternal and internal finishes design for the Wastewa
ctural Design for IWMF Substation 2.11.07.10)	I and internal finishes design nishes design for CCCW Bu iternal finishes design for th uternal finishes design for th	Site ELV Network System - Comm Site ELV Network System - Securi External and internal finishes design for Turbine Hall Building sliding External and internal finishes design wWMF Substation (2:11:20) External and internal finishes design diverse and the state of the state of the state of the state of the state wWMF Substation (2:11:20) External and internal finishes design	em for seawater inta unications System o y Systems concept y Systems concept procession procession for Chimney for Chimney for Chimney for Chimney for Chimney	Iternal FS Systems ke (2.10.16.07) soncept / schematics / schematics Site ELV Network System - Navigation aids concept wide Utilities Trenches Concept / schematics ign of Pipe / Utilities Trenches Concept wide Utilities Trenches Design ant Building (2.11.15.01) ternal and internal finishes design for MT Plant Buil kternal and internal finishes design for the Wastewa kternal and internal finishes design for the Wastewa ternal and internal finishes design for the Mart Tra- ternal and internal finishes design for the Mart Tra- ternal and internal finishes design for the Administra ay
♦ Actrual Milestone	I and internal finishes design nishes design for CCCW Bu iternal finishes design for the rplan & Landscape Design for cectural Design for MT Plant I	Site ELV Network System - Comm Site ELV Network System - Securi External and internal finishes design for Turbine Hall Building suiding External and internal finishes design wWMF Substation (2.11.20) External and internal finishes design wWMF Substation (2.11.20) External and internal finishes design of Water Feature (2.11.19.01) Building and Water Treatment Plant	em for seawater inta unications System o y Systems concept y Systems concept procession procession for Chimney for Chimney for Chimney for Chimney for Chimney	Iternal FS Systems ke (2.10.16.07) soncept / schematics / schematics Site ELV Network System - Navigation aids concept wide Utilities Trenches Concept / schematics ign of Pipe / Utilities Trenches Concept wide Utilities Trenches Design ant Building (2.11.15.01) ternal and internal finishes design for MT Plant Buil kternal and internal finishes design for the Wastewa kternal and internal finishes design for the Wastewa ternal and internal finishes design for the Mart Tra- ternal and internal finishes design for the Mart Tra- ternal and internal finishes design for the Administra ay
Actrual Milestone	I and internal finishes design nishes design for CCCW Bu demal finishes design for the plan & Landscape Design for cural Design for MT Plant ictural Design for Administra	Site E LV Network System - Comm Site E LV Network System - Securi External and internal finishes design for Turbine Hall Building suiding External and internal finishes design wWMF Substation (2.11.20) External and internal finishes design of Water Feature (2.11.19.01) Building and Water Treatment Plant ation Building (2.11.07.09)	em for seawater inta unications System o y Systems concept y Systems concept procession procession for Chimney for Chimney for Chimney for Chimney for Chimney	Iternal FS Systems (c.10.16.07) (c.10.16.0
	and internal finishes desig nishes design for CCCW Bu ishes design for CCCW Bu ishes design for the plan & Landscape Design for the ctural Design for MT Plant ictural Design for Administra	Site E LV Network System - Comm Site E LV Network System - Securi External and internal finishes design for Turbine Hall Building suiding External and internal finishes design wWMF Substation (2.11.20) External and internal finishes design of Water Feature (2.11.19.01) Building and Water Treatment Plant ation Building (2.11.07.09)	em for seawater inta unications System o y Systems concept y Systems concept procession of the system of preserve of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system	Iternal FS Systems (c.10.16.07) (oncept / schematics / schematics Site ELV Network System - Navigation aids concept (schematics Site ELV Network System - Navigation aids concept (schematics (schematics (schematics) (

	Activity Namo	04111	Domeiati	0 1.045-3	W Current Ct	Current Finit	Late Stert	Lato Fini-h	Total	M71 Remarks	Integr	rated Waste Manag
)	Adivity Name	Original Duration	Remaining Duration			Current Finish	Late Start	Late Finish	Float		Oct 71	Nov 72
05-4780-6(6C)	Landscape Architectural Design for Process Building (2.11.07.11)	105			0% 10-Aug-22 A				-116			Landscape Architectural Des
acade Structura		638	149		07-Apr-22 A			, v	151			IMANE Contraction
05-8010(M45)	IWMF Substation	90			0% 11-Jul-22 A				-37			IWMF Substation
05-8020(6D) 05-8040(6D)	Process Building & Wastewater Treatment Plant (2.6.14.01) Reception Pavilion (2.3.14.07.01)	90	29		5% 07-Apr-22 A 0% 30-Nov-23		09-Apr-24 28-May-24		161 180			
15-8050(6D)	Mechanical Treatment Plant & Desalination Plant Building (2.4.14.01)	90				27-Feb-24			-50			
05-8060(6D)	Administration Building and Viewing Gallery (2.7.12.01)	60			0% 07-Dec-23*		26-Sep-23		-72			
05-8070(6D)	Turbine Hall Building	90	59	9 75	5% 12-May-23 A	28-Dec-23	24-Mar-24	21-May-24	145			
05-8080(6D)	Elevated Driveway and Associated Structures	90			0% 05-May-23 A		24-May-24		206			
05-8090(6D)	Sky Deck near Administration Building Structural Design	90					15-Feb-24	,	48			
J	Commissioning (2.12)	685	180		23-Apr-19 A		-		141			
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	31		0% 23-Apr-19 A		•		-90 88			FAT of DCS - S
)5-4810-2(1055))5-4820	Site Acceptance Testing plan (2.12.10)	90			0% 19-May-22 A 0% 29-Jan-24		02-Sep-23	05-Feb-24	-149			
)5-4830	System commissioning plan (2.12.11)	90	90		0% 27-Jan-24		18-Jun-24		141			
DA Transportati	on Facilities for the Operation (2.13)	316	255		30-Jun-23 A		03-Dec-23		447			
5-4850	Design of vehicles for MSW and Ash and Residues delivery (2.13.05)	240	240	0 (0% 15-Nov-23*	11-Jul-24	03-Dec-23	29-Jul-24	18			
05-4860	Design of marine vessels for the use of the Employer and visitors (2.13.06)	240	195	5 80	0% 30-Jun-23 A	12-May-24	21-Mar-25	01-Oct-25	507			
DA Miscellaneo	us Works (2.14)	241	241	1	30-Nov-23	27-Jul-24	09-May-24	04-Jan-25	161			
5-4880	Design of visitors and environmental education facilities (2.14.06)	241	241	1 (0% 30-Nov-23*	27-Jul-24	09-May-24	04-Jan-25	161			
DA Miscellaneo	us Detailing (2.15)	90	90	D	31-Oct-23	28-Jan-24	11-Dec-23	30-Nov-24	307			
5-4890	Covered walkway at passenger berth (2.15.06)	90	90	0 0	0% 31-Oct-23	28-Jan-24	02-Sep-24	30-Nov-24	307			
5-4900	Gatehouses (2.15.07)	60	60		0% 31-Oct-23		03-Aug-24		277			
5-4910	Weighbridge office (2.15.08)	62	62	_	0% 31-Oct-23		11-Dec-23		41			
· · · · ·	ant Systems (2.16)	608	180		26-Apr-22 A				0			
5-4920	Maintenance workshops (2.16.04)	0	(0% 29-Jan-24	_	12-Jan-24		-16			
5-4930	Vehicle Fuel Filling Station (2.16.05)	90			0% 29-Jan-24	· ·	22-Dec-23		-38			
5-4940 5-4940-1(5a)	Stores systems (2.16.06) IWMF Laboratory (2.16.08)	90	90		0% 29-Jan-24 0% 11-Nov-22 A	27-Apr-24		27-Apr-24	0 142			
5-4940-1(5a) 5-4940-2(5a)	Hoisting systems (2.16.10)	90			0% 24-May-23 A			27-Apr-24 27-Apr-24	142			
-4940-3(6E)	EOTC System (2.16.11)	90		_	0% 26-Apr-22 A				-31			
A O&M Packad		226				27-Jul-24		04-Jan-25	161			
5-8070(6E)	Warehouse (O&M Scope)	211	211	1 (0% 30-Dec-23*	27-Jul-24	08-Jun-24	04-Jan-25	161			
5-8080(6E)	Workshop (O&M Scope)	180	180	0 0	0% 31-Dec-23	27-Jun-24	09-Jul-24	04-Jan-25	191			
5-8090(6E)	Ash & Residues Container (O&M Scope)	180	180	0 0	0% 15-Dec-23	11-Jun-24	09-Jul-24	04-Jan-25	207			
5-8100(6E)	Bicar Debagging Station (O&M Scope)	181	181		0% 24-Jan-24*	22-Jul-24		04-Jan-25	166			
5-8110(6E)	Other Mobile Plants (O&M Scope)	180			0% 15-Jan-24	12-Jul-24		04-Jan-25	176			
	ajor Equipment	1125				26-Mar-25			50			
	n of Incineration Modules	1125			21-Jan-22 A		-					
abrication of Mo	dule (TPU)	1125			02-Mar-22 A		-		-30			
Fab 1- Line 1		698	213	3	23-May-22 A	30-May-24	30-Oct-23	30-May-24	0			
&I Installation (On	-site Installation)	522			25-Nov-22 A			•	1			
Electrical 06-TPU-1-1280	PFab 1-Line 1 - Electrical Cable Pulling and Termination	241			04-Aug-23 A 0% 31-Oct-23				3			
06-TPU-1-1200	PFab 1-Line 1 - Electrical Equipment Installation	180			2% 04-Aug-23 A				-1			
Instrument		522			25-Nov-22 A				1			
06-TPU-1-1310	PFab 1-Line 1 - Instrument Cable Pulling and Termination	180	180		0% 02-Nov-23				1			
06-TPU-1-1320	PFab 1-Line 1 - Instrument Equipment Installation	180			9% 25-Nov-22 A				1			.
06-TPU-1-1330	PFab 1-Line 1 - Instrument Tubing Installation	180			0% 31-Oct-23				1			
ulation 5-TPU-1-1020	DEah 1 line 1 Inculation	698 698			23-May-22 A	-		-	0			
ecommissioning	PFab 1-Line 1 - Insulation	698	201 146		2% 23-May-22 A 06-Jan-24	-		-	0			
5-TPU-1-1030	PFab 1-Line 1 - Pre-commissioning	140			0% 06-Jan-24	-		-	0			
ab 1- Line 2		698	200		22-May-22 A	-			0			
Installation (On	-site Installation)	188			31-Oct-23				-1			
lectrical		188	188		31-Oct-23	-		04-May-24	-1			
6-TPU-2-1270	PFab 1-Line 2 - Electrical Cable Pulling and Termination	180			0% 08-Nov-23	05-May-24	07-Nov-23		-1			
6-TPU-2-1280	PFab 1-Line 2 - Electrical Equipment Installation	180			0% 31-Oct-23*	-			-1			
strument 16-TPU-2-1300	PFab 1-Line 2 - Instrument Cable Pulling and Termination	188 180	188 180		31-Oct-23 0% 08-Nov-23			04-May-24 04-May-24	-1 -1			
6-TPU-2-1300 6-TPU-2-1310	PFab 1-Line 2 - Instrument Cable Pulling and Termination PFab 1-Line 2 - Instrument Equipment Installation	180			0% 08-100V-23			-	-1			
6-TPU-2-1320	PFab 1-Line 2 - Instrument Tubing Installation	180			0% 31-Oct-23	· ·			-1			
ulation		698	200	_	22-May-22 A				0			
6-TPU-2-1010	PFab 1-Line 2 - Insulation	698	200	0 71.35	5% 22-May-22 A			-	0			
ab 1- Line 3		769	303	3	23-May-22 A	28-Aug-24	30-Oct-23	28-Aug-24	0			
&I Installation		201	201	1	31-Oct-23	18-May-24	30-Oct-23	17-May-24	-1			
lectrical		201	201		31-Oct-23			17-May-24	-1			
6-TPU-3-1270	PFab 1-Line 3 - Electrical Cable Pulling and Termination	180			0% 21-Nov-23	-						
6-TPU-3-1280	PFab 1-Line 3 - Electrical Equipment Installation	180			0% 31-Oct-23			26-Apr-24	-1			
strument 16-TPU-3-1300	PFab 1-Line 3 - Instrument Cable Pulling and Termination	201	201 180		31-Oct-23 0% 21-Nov-23	18-May-24 18-May-24*	30-Oct-23 20-Nov-23		-1 -1			
06-TPU-3-1310	PFab 1-Line 3 - Instrument Equipment Installation	180		_	0% 31-Oct-23				-1			
												;
06-TPU-3-1320	PFab 1-Line 3 - Instrument Tubing Installation	180	180	0 (0% 31-Oct-23	27-Apt-24	30-0CI-23	20-Api-24	-1			
06-TPU-3-1320 sulation	PFab 1-Line 3 - Instrument I ubing Installation	769		_	23-May-22 A				-1			

3-Month Rolling	Programme	(October 2023)
PAGE 6 OF 17		

Actual Work

Critical Remaining Work 🔶 •

Management Fa	lo. EP/SP/66/12 pcilities, Phase 1	P	環境保護署 Environmental Protection Department
2023 Nov	Dec		2024 Jan
72 nitectural Design for Process Bu	73		74
inectural Design of Process Du	aung (2.11.07.11)		
bstation	ocess Building & Wastewater Tre	atment Plant (2.6.1	4/01)
			,
			rbine Hall Building evated Driveway and Associated Structures
	Factory Acceptance Testing plan	n (2.12.09.02-07) (8	Packages)
	ant for Process Island (2.12.09.03.		
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			Cr
	; ; ;		Gatehouses (2.15.07) ⊒, Weighbridge office (2.15.08)
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Hoistin	IWMF Laboratory (2	2.16.08)	
Hoisuin	g systems (2.16.10) EOTC System (2.16.11)		
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	HEN BUA JOENT VENTURE		1	Demo		10		Late 511		171 Damadur	Integr	ated Waste Manageme
ctivity ID	Activity Name		Original Duration		Activity % Current Start Complete	Current Finis	Late Start	Late Finish	Total I Float	M71 Remarks	Oct 71	2023 Nov 72
PFab 1- Line 4			767	303	25-May-22 A	28-Aug-24	30-Oct-23	28-Aug-24	0		<i>/</i> .	12
E&I Installation			194		31-Oct-23	11-May-24	30-Oct-23	10-May-24	-1			
Electrical 06-TPU-4-1270	PFab 1-Line 4 - Electrical Cable F	Pulling and Termination	194 180		31-Oct-23 0% 14-Nov-23	11-May-24 11-May-24*		10-May-24 10-May-24	-1 -1			
06-TPU-4-1280	PFab 1-Line 4 - Electrical Equipm	-	180			27-Apr-24		-	-1			
Instrument			194		31-Oct-23	11-May-24		10-May-24	-1			
06-TPU-4-1300 06-TPU-4-1310	PFab 1-Line 4 - Instrument Cable PFab 1-Line 4 - Instrument Equip		180			11-May-24*			-1 -1			
06-TPU-4-1310 06-TPU-4-1320	PFab 1-Line 4 - Instrument Equip PFab 1-Line 4 - Instrument Tubin		180		0% 31-Oct-23 0% 31-Oct-23		30-Oct-23 30-Oct-23	26-Apr-24 26-Apr-24	-1			
Insulation			767		25-May-22 A				0			
06-TPU-4-1010	PFab 1-Line 4 - Insulation		767	303	60.5% 25-May-22 A	28-Aug-24*	31-Oct-23	28-Aug-24	0	-		
PFab 1- Line 5			1125	368	02-Mar-22 A	01-Nov-24	28-May-23	02-Oct-24	-30			
Mechanical Erection			514						-147			PFab 1-Line 5 - Mechanical Installatio
06-TPU-5-1040 06-TPU-5-1060		Ilation - 1st Floor (Below EL20.47m) (Including Combustion Grate) Ilation - 3rd Floor (EL26.72m-EL37.72m) (Including Boiler Ash Transport)	80		97.5% 02-Mar-22 A 88.75% 03-Mar-23 A		13-Jun-23 06-Jun-23	14-Jun-23	-140 -147			PFab 1-Line 5 - Mechanica
E&I Installation			386		25-Jun-23 A		28-May-23		0			
Electrical			386		25-Jun-23 A		28-May-23		0			
06-TPU-5-1270 06-TPU-5-1280	PFab 1-Line 5 - Electrical Cable F PFab 1-Line 5 - Electrical Equipm	÷	180		0% 22-Jan-24 0% 08-Jan-24	19-Jul-24* 05-Jul-24	22-Jan-24 03-Jan-24		-5			
06-TPU-5-1290		racing Installation (Installation by Yard)	61		85.25% 12-Jul-23 A		28-May-23		-156			PFab 1-Line 5 - Electrical
06-TPU-5-1330	PFab 1-Line 5 - MCC room instal		74		87.84% 25-Jun-23 A		28-May-23		-156			PFab 1-Line 5 - MCC roor
Instrument	DE-h 1 lis 5 i to 1 i to 1 i to 1	Dulles and Transferies	194		08-Jan-24	19-Jul-24	03-Jan-24		-5			
06-TPU-5-1300 06-TPU-5-1310	PFab 1-Line 5 - Instrument Cable PFab 1-Line 5 - Instrument Equip		180		0% 22-Jan-24 0% 08-Jan-24	19-Jul-24* 05-Jul-24	17-Jan-24 03-Jan-24	14-Jul-24 30- Jun-24	-5 -5			
06-TPU-5-1320	PFab 1-Line 5 - Instrument Tubin		180		0% 08-Jan-24	05-Jul-24 05-Jul-24	03-Jan-24		-5			
Insulation		• •	822	368	04-Jun-22 A	01-Nov-24	01-Oct-23	02-Oct-24	-30			
06-TPU-5-1010	PFab 1-Line 5 - Insulation		822		55.23% 04-Jun-22 A		01-Oct-23		-30			
Load out & Shipping 06-TPU-5-1030	PFab 1-Line 5 - Load Out & read	u to chin	15		09-Nov-23 0% 09-Nov-23	23-Nov-23 23-Nov-23			-156 -156			
Delivery	Fi ab I-Eine 5 - Eoad Odi & read	y to snip	9		24-Nov-23	02-Dec-23			-156			
06-TPU-5-1340	PFab 1-Line 5 - Delivery		9	9	0% 24-Nov-23	02-Dec-23			-156			
PFab 1- Line 6			808	341	08-Jul-22 A	05-Oct-24	28-May-23	05-Sep-24	-30			
Mechanical Erection			80		J		-		-156			561 AU / 1
06-TPU-6-1180	PFab 1-Line 6 - Mechanical Insta	llation - 3rd Floor(EL26.72m~EL37.72m) (Including Boiler Ash Transport)	80		in the state of th		-		-156			PFab 1-Line 6 - Mechanic
E&I Installation Electrical			365		25-Jun-23 A 25-Jun-23 A		28-May-23 28-May-23		-4			
06-TPU-6-1270	PFab 1-Line 6 - Electrical Cable F	Pulling and Termination	180		0% 01-Jan-24		28-Dec-23		-4			
06-TPU-6-1280	PFab 1-Line 6 - Electrical Equipm		180				13-Nov-23	-	-35			DEab 1 Line 6
06-TPU-6-1330	PFab 1-Line 6 - MCC room instal	lation (Installation by Yard)	25		40% 25-Jun-23 A		,		-156			PFab 1-Line 6 -
06-TPU-6-1300	PFab 1-Line 6 - Instrument Cable	Pulling and Termination	194 180		18-Dec-23 0% 01-Jan-24	28-Jun-24 28-Jun-24*	13-Nov-23 27-Nov-23		-35 -35			
06-TPU-6-1310	PFab 1-Line 6 - Instrument Equip	ment Installation	180	180	0% 18-Dec-23	14-Jun-24	13-Nov-23	10-May-24	-35			
06-TPU-6-1320	PFab 1-Line 6 - Instrument Tubin	g Installation	180				13-Nov-23		-35			
Insulation 06-TPU-6-1010	PFab 1-Line 6 - Insulation		761		08-Jul-22 A 55.19% 08-Jul-22 A	05-Oct-24 05-Oct-24	01-Oct-23 01-Oct-23		-30 -30			
Delivery			14		29-Oct-23 A				-156			
06-TPU-6-1340	PFab 1-Line 6 - Delivery		14				3		-156		-	PFab 1-Line 6 - Deliv
Fabrication of Modu	ule (FGC)		982		21-Jan-22 A	02-Sep-24	20-Jul-23	02-Sep-24	0			
PFab 2 - Line 1			666		25-May-22 A	-			0			
E&I Installation Electrical			134			12-Mar-24			-1 -1			
06-FGC-1-1250	PFab 2-Line 1 - Electrical Cable F	Pulling and Termination	134		31-Oct-23 0% 14-Nov-23	12-Mar-24 12-Mar-24*	13-Nov-23	11-Mar-24 11-Mar-24	-1			
06-FGC-1-1260	PFab 2-Line 1 - Electrical Equipm	nent Installation	120	120	0% 31-Oct-23*	27-Feb-24	30-Oct-23	26-Feb-24	-1			,
Instrument 06-FGC-1-1280	PFab 2-Line 1 - Instrument Cable	Pulling and Termination	134 120		31-Oct-23 0% 14-Nov-23	12-Mar-24 12-Mar-24*	30-Oct-23		-1 -1			
06-FGC-1-1290	PFab 2-Line 1 - Instrument Equip	•	120			27-Feb-24			-1			
06-FGC-1-1300	PFab 2-Line 1 - Instrument Tubin	g Installation	120	120	0% 31-Oct-23	27-Feb-24	30-Oct-23	26-Feb-24	-1			
Insulation			666		25-May-22 A	,		,	0			
06-FGC-1-1130	PFab 2-Line 1 - Insulation		666 405		, , , , , , , , , , , , , , , , , , ,	19-May-24 19-May-24		-	0			
PFab 2 - Line 2 E&I Installation			134		31-Oct-23	-	29-Oct-23		-1			
Electrical			134		31-Oct-23		29-Oct-23		-1			
06-FGC-2-1250	PFab 2-Line 2 - Electrical Cable F	÷	120		0% 14-Nov-23		12-Nov-23		-1			
06-FGC-2-1260	PFab 2-Line 2 - Electrical Equipm	nent Installation	120			27-Feb-24			-1			
06-FGC-2-1280	PFab 2-Line 2 - Instrument Cable	Pulling and Termination	134 120		31-Oct-23 0% 14-Nov-23	12-Mar-24 12-Mar-24*			-1 -1			
06-FGC-2-1290	PFab 2-Line 2 - Instrument Equip	,	120			27-Feb-24			-1			
06-FGC-2-1300	PFab 2-Line 2 - Instrument Tubin	g Installation	120			27-Feb-24			-1			
Insulation 06-FGC-2-1010	PFab 2-Line 2 - Insulation		405			19-May-24		,	0			
PFab 2 - Line 3			405			05-Apr-24			0			
E&I Installation			135			05-Apr-24			0			
Electrical			135	135	23-Nov-23	05-Apr-24	24-Nov-23	05-Apr-24	0			
06-FGC-3-1250	PFab 2-Line 3 - Electrical Cable F	•	120			05-Apr-24*		· ·	0			_
06-FGC-3-1260 Instrument	PFab 2-Line 3 - Electrical Equipr	nent Installâtion	120 135				24-Nov-23 24-Nov-23		1			
06-FGC-3-1280	PFab 2-Line 3 - Instrument Cable	Pulling and Termination	135		0% 08-Dec-23				0			

3-Month Rolling Programme (October 2023)	
PAGE 7 OF 17	

Actual Work

Critical Remaining Work 🔷

Critical I

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Contract No. EP/SP/66/12 環境保護署



2023		nvironmental Protection Department 2024
Nov 72	Dec 73	Jan 74
	(Below EL20.47m) (Including Combustion Grate)	Ach Transnat
line 5 - Mechanicai Installati	on - 3rd Floor(EL26.72m~EL37.72m) (Including Boiler	Asn Transport
ine 5 - Electrical Heat Traci	ng Installation (Installation by Yard)	
ine 5 - MCC room installatio		
	1 1 1	
PEab 1-Li	ie 5 - Load Out & ready to ship	
	PFab 1-Line 5 - Delivery	
Line 6 - Mechanical Installati	on - 3rd Floor(EL26.72m~EL37.72m) (Including Boiler	Ash Transport)
PEab 1.1 ine 6 - MCC roor	n installation (Installation by Yard)	
ab 1-Line 6 - Delivery		
ab i Elico Daively		
Actrual Milestor	ie	
 Critical Mileston 		

Ke	ppel Seghers	~
5 Y	西格对-液革用。 STGHTPS-ZHENHAMATY	\$ \u03e9 4

ivity ID	Activity Name		Original Duration		Activity % Complete	Current Start	Current Finish	Late Start	Late Finish	Total Float	M71 Remarks	Oct	2023 Nov
0/ 500 6 1000	DE-Fall a fin in the					22 N 22	01.14	04.11	22.14	- ioai		71	72
06-FGC-3-1290	PFab 2-Line 3 - Instrument Equip		120				21-Mar-24			1			
06-FGC-3-1300 PFab 2 - Line 4	PFab 2-Line 3 - Instrument Tubinç	y installation	120				21-Mar-24 07-Apr-24			0			
E&I Installation			134				07-Apr-24			0			
Electrical			134				07-Apr-24			0			
06-FGC-4-1250	PFab 2-Line 4 - Electrical Cable P	Pulling and Termination	120			10-Dec-23	07-Apr-24*			0			
06-FGC-4-1260	PFab 2-Line 4 - Electrical Equipm	nent Installation	120				24-Mar-24			0			
06-FGC-4-1280	PFab 2-Line 4 - Instrument Cable	Dulling and Termination	134			26-Nov-23	07-Apr-24		07-Apr-24	0			
06-FGC-4-1280	PFab 2-Line 4 - Instrument Equip		120				07-Apr-24* 24-Mar-24			0		-	
06-FGC-4-1300	PFab 2-Line 4 - Instrument Tubing		120				24-Mar-24			0			
PFab 2 - Line 5		5	982			21-Jan-22 A	02-Sep-24	06-Aug-23	02-Sep-24	0			
Mechanical Erection	n		277	43		21-Jan-22 A	12-Dec-23	31-Aug-23	12-Oct-23	-61			
06-FGC-5-1000	PFab 2-Line 5 - 1st Floor (Below F	EL12.47m) (Including Silencer ID fan)	60	43			12-Dec-23			-61			
06-FGC-5-1020	PFab 2-Line 5 - 3rd Floor (EL23.4	17~ EL34.47m) (Including Ash and residue to solidification)	60	43	85.26%	19-Sep-22 A	12-Dec-23	31-Aug-23	12-Oct-23	-61			
E&I Installation			25			-	24-Nov-23	-	-	-86			
Electrical 06-FGC-5-1310	PFab 2-Line 5 - MCC room install	lation (Installation by Vard)	25				24-Nov-23 24-Nov-23			-86 -86			
Insulation	TT ab 2-Eine 5 - Mee Toommstan		736			-	02-Sep-24	-	-	00-00			
06-FGC-5-1200	PFab 2-Line 5 - Insulation		736				02-Sep-24*			0			
Load out & Shipping	g		15	15		15-Dec-23	29-Dec-23	31-Aug-23	14-Sep-23	-106			
06-FGC-5-1220	PFab 2-Line 5 - Load Out & ready	/ to ship	15	15			29-Dec-23	-					
Delivery			10				08-Jan-24						
06-FGC-5-1320	PFab 2-Line 5 - Delivery		10				08-Jan-24						
PFab 2 - Line 6			806				22-May-24		-	0			
Mechanical Erection		EI 10.47m) (Inducting Silanger ID fam)	273				13-Dec-23						
06-FGC-6-1170 06-FGC-6-1180		EL12.47m) (Including Silencer ID fan) 47- EL23.47m) (Including Dosing system bicar)	60				13-Dec-23 13-Dec-23		01-Sep-23				
06-FGC-6-1190		17- EL34.47m) (Including Ash and residue to solidification)	60				13-Dec-23						
E&I Installation		, (137				13-Dec-23		01-Sep-23				
06-FGC-6-1240	PFab 2-Line 6 - E&I Support Insta	allation	45	44	61.85%	15-Jun-23 A	13-Dec-23	20-Jul-23	01-Sep-23	-103			
06-FGC-6-1250	PFab 2-Line 6 - E&I Cable Ladder	r Erection	45	44	31.96%	30-Aug-23 A	13-Dec-23	20-Jul-23	01-Sep-23	-103			
Electrical	DEab 2 Line (Electrical Llost Tr	anna Installation (Installation by Vord)	26				13-Dec-23		01-Sep-23	-103			
06-FGC-6-1280 06-FGC-6-1320	PFab 2-Line 6 - MCC room install	acing Installation (Installation by Yard)	26				13-Dec-23 13-Dec-23		01-Sep-23 01-Sep-23				:
Insulation	TT ab 2-Eine 0 - Mee Toommstan		133				22-May-24			0			
06-FGC-6-1020	PFab 2-Line 6 - Insulation		133			11-Jan-24	22-May-24*	-	-	0			
Load out & Shipping	g		20	20		14-Dec-23	02-Jan-24	02-Sep-23	21-Sep-23	-103			
06-FGC-6-1040	PFab 2-Line 6 - Load Out & ready	/ to ship	20	20	0%	14-Dec-23*	02-Jan-24	02-Sep-23	21-Sep-23	-103			
Delivery			10			03-Jan-24	12-Jan-24			-103			
06-FGC-6-1330	PFab 2-Line 6 - Delivery		10			03-Jan-24	12-Jan-24						
Fabrication of Meg	•		30				23-Nov-23			-8			
Fabrication of Ste			30				23-Nov-23			-8			
16-8560 (6E)	Fabrication of Steel Structure (FM	13) & Delivery	30				23-Nov-23						
	n of Turbine Modules		584	131			09-Mar-24			-156			
	dule (Power Island)						09-Mar-24	,		-156			
Turbine Module 1			377				11-Dec-23		Ŭ				Turk
06-4040-1(M55)	Turbine Module 1 - TBS Tower 1 I	Erection & Installation	45				21-Nov-23						
06-4080(6) Turbine Module 2	Turbine Module 1 - Delivery		11 274				11-Dec-23 09-Mar-24	5	5				
06-4240-1(M55)	Z Turbine Module 2 - TBS Tower 2		274			01-Mar-23 A			20-Aug-23				
06-4280(6)	Turbine Module 2 - Delivery		46				09-Mar-24	,	0	-156			
Turbine Module 3	,		168				31-Jan-24	5					
06-4440-1(M55)	Turbine Module 3 - TBS Tower 3 I	Frection & Installation	168	93	44.64%	15-Jun-23 A	31-Jan-24	29-Jun-23	29-Sep-23	-124			
Procurement for A			656				15-Dec-23						
06-1120-1	Off-site Fabrication of ACC-2 Unit	Z	178	9	94.94%	28-Feb-22 A	08-Nov-23	23-Aug-23	31-Aug-23	-69			Off-site Fabrication of ACC
06-1120-2	Off-site Fabrication of ACC-3 Unit	ls l	178						30-Oct-23	-9			Off-site Fabrication of ACC
06-1140	Factory Acceptance Test (FAT) fo	or ACC-2	16	16	0%	09-Nov-23	24-Nov-23	01-Sep-23	16-Sep-23	-69			
06-1150	Factory Acceptance Test (FAT) fo	or ACC-3	16				24-Nov-23		15-Nov-23	-9		_	
06-1160	Delivery to Site ACC-1		11				11-Nov-23		06-Feb-24	87		-	Delivery to Site ACC-
06-1170	Delivery to Site ACC-2		21			25-Nov-23	15-Dec-23			-69			
06-1190	Delivery to Site ACC-3		21			25-Nov-23	15-Dec-23 28-Dec-23			-9 4			
06-1410(1)	CCW Building Equipment Material Procurement & Equipment	nt Manufacturo	300					04-Nov-23		4		· · · · · · · · · · · · · · · · · · ·	
06-1410(1) 06-1420(1)	Factory Acceptance Test (FAT)	าน เพลาแก่นิเนิยช	300	36		01-Mar-22 A 06-Dec-23	05-Dec-23 13-Dec-23			4			
06-1420(1)	Delivery to Site		15	-			28-Dec-23			4		1	
	lechanical Treatment Plant Bu	uilding Plant Equipment	640				30-Mar-24			56			
06-1150-1(1)	Mechanical Equipment Material S	v 11	180					26-Dec-23	-	56			
06-1150-2(1)	Pipe Material Submission and Ap		180				01-Dec-23			56			
06-1150-3(1)	Electrical and Instrumentation Ma	terial Submission and Approval	180	32	82.22%	30-Jun-22 A	01-Dec-23	26-Dec-23	26-Jan-24	56			1
	Mechanical Equipment Procureme	ent (Incl. FAT)	217				01-Dec-23		26-Jan-24	56			·
06-1160-1(1)					00.000/	00 1 00 1	01 Doc 22	26 Doc 22	26-Jan-24	56			
06-1160-2(1)	Pipe Material Procurement (Incl. F		180	32		30-Jun-22 A							
			180 180 61	32	82.22%		01-Dec-23 01-Dec-23 30-Mar-24	26-Dec-23	26-Jan-24	56 56		-	1

3-Month Rolling Programme (October 2023)	Actual Work	Critical Remaining Work	♦	Actrual
PAGE 8 OF 17	Remaining Work	♦ ♦ Milestone	•	 Critical

	Dec	2024 Jan
	73	74
	PEab 2-Line 5 - 1st	Floor (Below EL12.47m) (Including Silencer ID fan)
		Floor (EL23 47~ EL34.47m) (Including Ash and residue to so
PFab 2-Lir	e 5 - MCC room installation (Installation	by Yard)
	,	
		PFab 2-Line 5 - Load Out & ready to ship
		PF ab 2-Line 5 - Delivery
	PFab 2-Line 6 - 1	st Floor (Below EL12.47m) (Including Silencer ID fan)
		nd Floor (EL12.47~ EL23.47m) (Including Dosing system bic
	PFab 2-Line 6 - 3	rd Floor (EL23.47~ EL34.47m) (Including Ash and residue to
	PFab 2-Line 6 - E	&I Support Installation
		&I Cable Ladder Erection
	PFab 2-Line 6 - E	lectrical Heat Tracing Installation (Installation by Yard)
		ICC room installation (Installation by Yard)
		PFab 2-Line 6 - Load Out & ready to ship
		PFab 2-Line 6 - Delivery
abrication	f Steel Structure (FM3) & Delivery	
ina Madula	1 TDC Tower 1 Fraction 9 Installation	
	1 - TBS Tower 1 Erection & Installation Turbine Module 1 - D	elivery
		Turbin
2 Units		
3 Units	ceptance Test (FAT) for ACC-2	
	ceptance Test (FAT) for ACC-3	
	Delivery to Site	
	Delivery to Site	EACC J
	Material Procurement & Equipm	
	Factory Acceptan	
		Delivery to Site
	Mechanical Equipment Material Submit	ssion and Amproval
1	Pipe Material Submission and Approva	1
	Electrical and Instrumentation Material	Submission and Approval
·····	Mechanical Equipment Procurement (In	
	Pipe Material Procurement (Incl. FAT) Electrical and Instrumentation Material	

Critical Milestone

06-1200-2(1)Pipe Material P06-1200-3(1)Electrical and Ir06-1220Delivery to SiteProcurement for Des-J & Demin P06-1240-1(1)Mechanical Equ06-1240-2(1)Pipe Material P06-1240-3(1)Electrical and Ir06-1240-3(1)Electrical and Ir06-1260-1(M55)WTP chemical06-1260-3(M55)WTP chemical06-1260-3(M55)Chemical stora06-1260-3(M55)Chemical stora06-1260-3(M55)Chemical stora06-1260-3(M55)Chemical stora06-1290(1)Factory Accepta06-1290(1)Material & Equi06-2100(1)Material & Equi06-2100(1)Material & Equi06-2120(1)Delivery to SiteProcurement for Construct ScADA06-1300Material & Equi06-1320Material & Equi06-1320Material & Equi06-1340Delivery to SiteProcurement for Onstruct Crane at06-1350Supplier Submi06-1360Material & Equi06-5170(6)Pre-commission06-5190(6)Pipe Rack 306-5190(6)Pipe Bridge CPipe Bridge C Dettwer Turbine06-5390-2(6D)Pipe Bridge CPipe Bridge C Dettwer Turbine06-5530(6)Pipe Bridge C<	uipment Procurement (Incl. FAT) Procurement (Incl. Pripings) Procurement (Incl. FAT) Procurement (Incl. Pripings) Procurement (Incl. Prip	Duration Durati	Image: second	II-Sep-22 A 85.71% OI-Sep-22 A 85.71% OI-Sep-22 A 85.71% OI-Sep-22 A 85.71% OI-Sep-22 A 00% 30-Nov-23 21-Apr-22 A A 89.41% OI-Jun-22 A 79.33% OI-Sep-22 A 01.30 OI-Sep-22 A 90% OI-Sep-22 A 01.30 OI-Sep-22 A 30.30 OI-Sep-22 A 31.43 22.4pr-22 A 31.00 31-Oct-23 31.00 31-Oct-23 31.00 31-Nay-22 A 30.00 31-Nay-22 A 30.00 31-Nay-22 A 30.00 31-Nay-22 A	29-Nov-23 29-Nov-23 30-Dec-23 30-Dec-23 30-Nov-23 24-Jan-24 03-Dec-23 20-Nov-23 24-Jan-24 03-Dec-23 02-Mar-24 02-Jan-24 02-Jan-24 28-Mar-24 28-Mar-24 28-Mar-24 28-Jan-24 05-Nov-23 29-Dec-23 28-Jan-24 29-Nov-23 29-Dec-23 28-Feb-24 27-Aug-24 01-Nov-23 27-Aug-24 01-Nov-23	04-Dec-23 04-Dec-23 05-Dec-23 03-Jan-24 29-Jan-24 02-Apr-24 03-May-24 29-Jan-24 28-Feb-24 29-Jan-24 28-Feb-24 29-Jan-24 28-Feb-24 29-Jan-24 18-Oct-23 18-Oct-23 03-Sep-23 08-Dec-23 08-Dec-24 11-Nov-23 11-Nov-23 13-Nov-23	02-Jan-24 02-Jan-24 03-Jan-24 02-Feb-24 26-Jun-24 02-May-24 02-May-24 26-Jun-24 27-Feb-24 28-Mar-24 28-Mar-24 15-Mar-24 15-Mar-24 01-Dec-23 08-Sep-23 02-Car23 01-Nov-23 01-Dec-24 06-Apr-24 06-Apr-24	86 86 -13 -13 -13 -13 -58 -58 -58 -58 -58 -58 38	Update OD Image: Comparison of the sector	Oct 71	Material Submission and App
06-1200-1(1)Mechanical Equ06-1200-3(1)Electrical and Ir06-1200-3(1)Delivery to SiteProcurement for Desate A Demin P06-1240-1(1)Mechanical Equ06-1240-3(1)Electrical and Ir06-1240-3(1)Electrical and Ir06-1240-3(1)Electrical and Ir06-1240-3(1)Electrical and Ir06-1260-1(M55)WTP chemical06-1260-3(M55)Chemical storaProcurement for HV TransformersProcurement of Tratophy to Site06-1260-3(M55)Chemical stora06-1290(1)Factory Accepta06-1290(1)Material & Equi06-1300Delivery to SiteProcurement of COTSCADA06-2100(1)Material & Equi06-2100(1)Material & Equi06-1300Delivery to SiteProcurement for Constructory Accepta06-1300Delivery to SiteProcurement for Constructory ScaDA06-1300Material & Equi06-1300Supplier Submi06-1300Supplier Submi06-1300Supplier Submi06-1300Material & Equi06-1300Pielwery to SitePipe Rack 3Supplier Submi06-5309.(6D)Pre-conmission06-5309.(6D)Pre-conmission06-5309.(6D)Pipe Bridge CPipe Bridge C betwert Turbine06-5309.(6D)Pipe Bridge CPipe Bridge C betwert Turbine06-5300.(6D)Pipe Bridge C -Pipe Bridge C betwert Turbine06-5300.(6)Pip	uipment Procurement (Incl. FAT) Procurement (Incl. Pripings) Procurement (Incl.	210 211 211 211 31 576 576 576 576 577 576 55 120 666 666 666 666 666 666 666 660 660 6	30 30 30 30 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 30 30 30 60 30 60 30 60 30 60 30 60 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 <	85.71% 01-Sep-22 A 85.71% 01-Sep-22 A 85.71% 01-Sep-22 A 80.71% 01-Sep-22 A 89.41% 01-Jun-22 A 79.33% 01-Sep-22 A 48.33% 01-Sep-22 A 79.33% 01-Sep-22 A 48.33% 01-Sep-22 A 04 01-Dec-33 75% 21-Apr-22 A 03 01-Dec-23 75% 21-Apr-22 A 04 31-May-22 A 31-Oct-23 31-Oct-23 0% 31-Oct-23 0% 31-May-22 A 90% 31-May-22 A 31-May-22 A 31-May-22 A 90% 30-Nov-23 00% 30-Nov-23 00% 30-Nov-23	29-Nov-23 29-Nov-23 30-Dec-23 30-Dec-23 30-Nov-23 24-Jan-24 03-Dec-23 02-Mar-24 03-Dec-23 02-Jan-24 03-Dec-23 02-Jan-24 28-Mar-24 28-Mar-24 28-Mar-24 28-Nov-23 29-Dec-23 29-Dec-23 29-Nov-23 29-Noc-23 29-Noc-23 29-Dec-23 29-Dec-23 28-Feb-24 27-Aug-24 01-Nov-23 27-Aug-24 01-Nov-23 27-Aug-24 10-Feb-24	04-Dec-23 04-Dec-23 05-Dec-23 03-Jan-24 29-Jan-24 02-Apr-24 03-May-24 29-Jan-24 28-Feb-24 29-Jan-24 28-Feb-24 29-Jan-24 28-Feb-24 29-Jan-24 18-Oct-23 18-Oct-23 03-Sep-23 08-Dec-23 08-Dec-24 11-Nov-23 11-Nov-23 13-Nov-23	02-Jan-24 02-Jan-24 03-Jan-24 02-Feb-24 26-Jun-24 02-May-24 02-May-24 26-Jun-24 27-Feb-24 28-Mar-24 28-Mar-24 15-Mar-24 15-Mar-24 01-Dec-23 08-Sep-23 02-Car23 01-Nov-23 01-Dec-24 06-Apr-24 06-Apr-24	34 35 34 35 34 16 179 154 86 86 86 13 -13 -13 -13 -58 -58 -58 -58 -58 -58 -58 -58 -38 38 38 38	Update OD Image: Comparison of the sector		Material Submission and App
06-1200-3(1)Electrical and Ir06-1220Delivery to SiteProcurement for Desal & Demin P06-1240-3(1)Electrical and Ir06-1240-3(1)Electrical and Ir06-1240-3(1)Electrical and Ir06-1260-1(M55)WTP chemical06-1260-3(M55)WTP chemical06-1260-3(M55)WTP chemical06-1260-3(M55)Chemical storalProcurement for HV TransformersProcurement of TratsformersProcurement of SutC-board/Par06-1200(1)Material & Equi06-1200(1)Material & Equi06-2120(1)Delivery to SiteProcurement for Contrats & Equi06-2120(1)Delivery to SiteProcurement for Contrats & Equi06-1300Delivery to SiteProcurement for Contrats & Equi06-1320Material & Equi06-1320Material & Equi06-1330Factory Accepta06-1340Delivery to SiteProcurement and Off-Site FabricaFabrication of Pipe Rack 306-5170(6)Pre-commission06-5390(6D)Pre-commission06-5390(6D)Pre-commission06-5390(6D)Pre-commission06-5400(6)Piping installati06-5400(6)Piping installation06-5400(6)Piping installation06-5400(6)Piping installation06-5400(6)Piping installation06-5530(6)Pipe Bridge C											

3-Month Rolling Programme (October 2023)	
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Actual Work Remaining Work

Critical Remaining Work 🔶 🔷 🔷 Milestone

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Management Fa		景境保護署 invironmental Protection Department
2023 Nov	Dec	2024 Jan
72	73	74
	Mechanical Equipment Procurement (Incl. FAT)	
	Pipe Material Procurement (Incl. FAT)	
	Electrical and Instrumentation Material Procurement (I	ncl. FAT)
		Delivery to Site
-		
		Mechanical Equipment Procurement (Incl. FAT)
	Pipe Material Procurement (Incl. FAT)	Mechanical Equipment Ploculement (Incl. PAT)
	Electrical and Instrumentation Material Procurement	
		Delivery 1
	WTP chemical storage tank Material Submission	
		WTP chemical storage tank Procurement (Incl. I
		—
bmission and Approval		
	: Material & Equipment Procurement	
	1 · · · · · · · · · · · · · · · · · · ·	actory Acceptance Test (FAT)
-		De
	Material & Equipment Description 4	
	Material & Equipment Procurement & Assmbly	ectory Accontance Test (FAT)
	F	actory Acceptance Test (FAT)
on and Approval		
	¦	Pre-commissioning (FAT)
		· · · · · · · · · · · · · · · · · · ·
D		
Plecomm	ssioning (FAT)	
	Load out & ready to ship	the Deef of Turking Hell Delivery
		the Roof of Turbine Hall Delivery
installation		
Pipe Bridg	e C - ACC-1 Pre-commissioning (FAT)	
installation		
Pipe Bridg	e C - ACC-2 Pre-commissioning (FAT)	
installation		·
	e C - ACC-3 Pre-commissioning (FAT)	
	ACC-1 to 3 Load out & ready to ship	
	Pipe Bridge C - ACC1 to	3 Delivery
-		
		Delivery to Site
L		
	Material Submission and Approval	
	Material Submission & Equipment Procurement (for IV	
		Delivery to Site
	Material Submission and Approval	
sion & Equipment Procurement	(For IWMF Substation)	
nce Test (FAT)		
very to Site		
	;	
	N N	Material Submission and Approval
-		
	· · · · · · · · · · · · · · · · · · ·	i
Actrual Mileston		

Critical Milestone

D	Adivity Name	Original			ity % Current Start	Current Finis	n Late Start	Late Finish		M71 Remarks	V	ted Waste Manag
		Duration							Float		Oct 71	Nov 72
6-1580-2(6C)	Delivery to Site	60		60 50	0% 29-Jan-24	28-Mar-24 28-Mar-24	,		120 154			
6-1590	Drainage System Material Submission and Approval	303		30	0% 31-Oct-23	29-Nov-23	16-Nov-23	, v	16		r	
b-1600	Material Submission and Approval	90		90	0% 31-0ct-23	27-Feb-24	16-Dec-23		16		·	
6-1610	Factory Acceptance Test (FAT)	90)	90	0% 30-Nov-23	27-Feb-24	16-Dec-23	14-Mar-24	16			
6-1620	Delivery to Site	60			0% 29-Jan-24	28-Mar-24	14-Feb-24	13-Apr-24	16			
6-1620-1(6C) 6-1620-2(6C)	Material Submission & Equipment Procurement (for IWMF Substation)	60			50% 19-May-23 A 0% 15-Nov-23		16-Jul-24	15-Aug-24	259			
6-1620-2(6C) 6-1620-3(M55)	Delivery to Site Material Submission & Equipment Procurement (Caisson 13)	30		30	0% 04-Nov-23	14-Dec-23 03-Dec-23	31-Jul-24 20-Feb-24	30-Aug-24 20-Mar-24	259 108			
6-1620-4(M55)	Delivery to Site	30		30	0% 19-Nov-23	18-Dec-23	06-Mar-24		108			
rocurement for L	ighting System	120) 1.	20	31-Oct-23	27-Feb-24	25-Oct-23	22-Feb-24	-5			
6-1630	Material Submission and Approval	30		30	0% 31-Oct-23		25-Oct-23		-5			
6-1640	Material & Equipment Procurement	90		90	0% 31-Oct-23	28-Jan-24	25-Oct-23		-5		I	
6-1650 6-1660	Factory Acceptance Test (FAT) Delivery to Site	90		90 60	0% 15-Nov-23 0% 30-Dec-23		09-Nov-23 24-Dec-23		-5 -5			
	Security, Surveillance & Communication System	120	_	20	30-Dec-23	27-Apr-24			-60	·		
6-1670	Material Submission and Approval	30)	30	0% 30-Dec-23	28-Jan-24	31-Oct-23	29-Nov-23	-60			
6-1680	Material & Equipment Procurement	90)	90	0% 29-Jan-24	27-Apr-24	30-Nov-23	27-Feb-24	-60			
rocurement for C	Cranage Equipment	35	5	35	26-Nov-23	30-Dec-23	26-Apr-24	05-Jun-24	158			
laste Crane		11		11	20-Dec-23	30-Dec-23	26-Apr-24	06-May-24	128			
06-1740	Waste Crane Delivery to Site	11		11	0% 20-Dec-23	30-Dec-23		06-May-24	128			
loist System		30		30	26-Nov-23	25-Dec-23	07-May-24		163			
6-8330(M57)	Monorail Hoist Delivery to Site	30		30	0% 26-Nov-23	25-Dec-23	07-May-24		163			
	ift and Escalator Systems	60		60	29-Jan-24		30-Nov-23		-60			
5-1750	Material Submission and Approval	60 510		60 10	0% 29-Jan-24 03-Nov-23	28-Mar-24 26-Mar-25	30-Nov-23 10-Jul-23	28-Jan-24 30-Nov-24	-60 -116			
5-1790	Soft Landscape Materials Material Submission and Approval	60			0% 03-Nov-23	01-Jan-24		07-Sep-23				
6-1800	Material Souriasion and Approval Material Procurement & Nursery	450		50	0% 02-Jan-24	26-Mar-25		30-Nov-24				
	Air Quality Monitoring Station Equipment	30		30	03-Nov-23		20-Aug-23		-75			
-2200(1)	Delivery to Site	30)	30	0% 03-Nov-23	02-Dec-23	-	18-Sep-23	-75			
ocurement for V	Veighbridge System	90)	31	22-Nov-22 A	30-Nov-23	0		-40	······		
-2220(1)	Material & Equipment Procurement	90)	31 65.	.56% 22-Nov-22 A	30-Nov-23	21-Sep-23	21-Oct-23	-40			
6-2230(A)(M70)	Delivery to Site (MECH Equipment)	15	5	15	0% 15-Nov-23	29-Nov-23	06-Oct-23	20-Oct-23	-40			
rocurement for P	Pipes and Insulation for on site installations	267	1 1	26	27-Aug-22 A	25-Nov-23	07-Dec-23	01-Jan-24	37			
6-2260(1)	Material & Equipment Procurement	120			7.5% 27-Aug-22 A			-	37			Mate
6-2270(1)	Delivery to Site	11		11			22-Dec-23		37			
	Fruck Wash System	60		60					44 44			
6-2290(1)	Material Submission and Approval Building Finishes Materials (Doors, windows and louvers ie)	300		60 00		27-Feb-24 25-Aug-24						
6-8000(6)	Incineration Plant Building - Material Submission, Procurement, FAT and Delivery	90)	90	0% 31-Oct-23	28-Jan-24	29-Mar-24	-	150		c.	
5-8010(6)	ACC E quipment Yard - Material Submission, Procurement, FAT and Delivery	300		00	0% 31-Oct-23	25-Aug-24	20-Jul-24	15-May-25	263		ī	·
-8020(6)	Turbine Hall Building - Material Submission, Procurement, FAT and Delivery	90)	90	0% 09-Nov-23	06-Feb-24	03-Dec-23	01-Mar-24	24			
-8030(6)	CCCW Building - Material Submission, Procurement, FAT and Delivery	90		90	0% 31-Oct-23	28-Jan-24	· ·	26-Jul-24	180		l l	
-8030(6)10	Chimney - Material Submission, Procurement, FAT and Delivery	200	-	00	0% 29-Nov-23	15-Jun-24	02-Jan-24	19-Jul-24	34			
-8030(6)20 -8030(6)30	Reception Pavilion - Material Submission, Procurement, FAT and Delivery MT Plant Building - Material Submission, Procurement, FAT and Delivery	90		90 80	0% 29-Jan-24 0% 30-Dec-23	27-Apr-24 26-Jun-24	15-Jan-24 29-Jan-24	13-Apr-24 26-Jul-24	-14 30			
6-8030(6)40	With Prant Building - Material Submission, Procurement, FAT and Delivery Wastewater Treatment Plant - Material Submission, Procurement, FAT and Delivery	150			0% 30-Dec-23		17-May-24		139			
-8030(6)50	Water Treatment Plant Building - Material Submission, Procurement, FAT and Delivery	180		80	0% 30-Dec-23	26-Jun-24	29-Jan-24	26-Jul-24	30			
-8030(6)60	Administration Building - Material Submission, Procurement, FAT and Delivery	120) 1.	20	0% 30-Dec-23	27-Apr-24	28-Feb-24	26-Jun-24	60			
-8030(6)70	IWMF Substation - Material Submission, Procurement, FAT and Delivery	90		90	0% 05-Nov-23	02-Feb-24	02-Sep-24	30-Nov-24	302			
8030(6)80	Elevated Driveway - Material Submission, Procurement, FAT and Delivery	180			0% 29-Nov-23	26-May-24			-29			
	Curtain Wall Materials	180		80		27-May-24	-					
-8200(6D)	Material Submission and Approval	60			0% 30-Nov-23			01-Oct-24				
8210(6D)	Material & Equipment Procurement	120		20 17	0% 29-Jan-24	27-May-24 03-Jun-24			247 78			
-Sile Precastinų -8040(6D)	g of Facade Panels Procurement of Precast Concrete Wall Panel Moulding & Fabrication	205			.59% 14-Feb-23 A			-	-37	·····		Procurement of P
MF Substation	-	90	_	90	07-Nov-23			19-May-24				
-8070(6D)	Precasting of Concrete Panels	60		60	0% 07-Nov-23		31-Oct-23	-	-7			
-8080(6D)	Factory Acceptance Test (FAT)	60			0% 07-Dec-23	_	21-Mar-24		105			
vated Drive W	ay	90)	90	07-Nov-23	04-Feb-24	23-May-24	20-Aug-24	198			
-8100	Precasting of Concrete Panels	60)	60	0% 07-Nov-23	05-Jan-24	23-May-24	21-Jul-24	198			
-8110	Factory Acceptance Test (FAT)	60		_	0% 07-Dec-23	04-Feb-24		-	198			
rbine Hall		90		90	07-Nov-23		06-Mar-24		120			
-8130	Precasting of Concrete Panels	45			0% 07-Nov-23	21-Dec-23	06-Mar-24		120			
-8140 -8150	Factory Acceptance Test (FAT) Delivery to Site	45			0% 07-Dec-23 0% 06-Jan-24	20-Jan-24 04-Feb-24	05-Apr-24 05-May-24		120 120	 		
ocess Building		30		30 90	0% 06-Jan-24 07-Nov-23	_	-	03-Jun-24 31-May-24				
-8160	Precasting of Concrete Panels	60			0% 07-Nov-23	05-Jan-24		01-May-24	117			
-8170	Factory Acceptance Test (FAT)	60			0% 07-100-23	20-Jan-24		16-May-24				
5-8180	Delivery to Site	30			0% 06-Jan-24			31-May-24				
nimney		210		10	07-Nov-23		01-Oct-23	-	-37			,
-8280	Steel Claddings	210		10	0% 07-Nov-23	02 Jun 24	01-Oct-23	27 Apr 24	-37			

3-Month Rolling Programme (October 2023)	
PAGE 10 OF 17	

Remaining Work

Critical Remaining Work 🔶 ♦ Milestone ٠

Critical Milestone

Management Fa	lo. EP/SP/66/12 pcilities, Phase 1	環境保護署 Invironmental Protection Department
2023 Nov	Dec	2024 Jan
72	73	74
	Material Submission and Approval	
E		
E	1	
	Material Submission & Equipment Procurement (for IV	WMF Substation)
	Delivery to Site	
	Material Submission & Equipment Procuremer	t (Caisson 13)
	Delivery to Site	
	Material Submission and Approval	
	**	Mi
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		Waste Crane Delivery to Site
	NA	l'Hoist Dolivory to Site
	Monoral	Hoist Delivery to Site
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		Material Submission and Approval
	Delivery to Site	
	Delivery to Site	
	Material & Equipment Procurement	
	Delivery to Site (MECH Equipment)	
Material & Equipment Proceedings	turement	
Deliver		
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ent of Precast Concrete Wall F	anel Moulding & Fabrication	
		Precasting of Concrete Panels
		Droppoling of Comments Day
		Precasting of Concrete Panels
	Precasting of C	oncrete Panels
		Factory Accepta
		Precasting of Concrete Panels
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		Factory Accepta
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Actrual Milestor	ie	
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Actual Work

)	Adivity Name	Original Duration	Remaining Duration	Activity % Current Start Complete	Current Finis	h Late Start	Late Finish	Total M71 Remarks Float	Oct	2023 Nov
rocurement for IV	WMF Equipments for BS Works	239	55		24-Dec-23	08-Oct-23	01-Dec-23	-23	71	72
6-8310(6E)	Material & Equipment Procurement	60	3	95% 11-Apr-23 A			10-Oct-23	-23		Material & Equipment Procure
6-8320(6E) 6-8330(6E)	Factory Acceptance Test (FAT) Delivery to Site	40	40 30	0% 31-Oct-23 0% 25-Nov-23	09-Dec-23 24-Dec-23			-23 -23		
	tion of Steel Grating Platform for Chimney	120	120			02-N0V-23		-25		
-8310(6F)	Prefabrication of Steel Grating Platform	60	60	0% 31-Oct-23	29-Dec-23	05-Nov-23	03-Jan-24	5		
6-8320(6F)	Factory Acceptance Test (FAT)	60	60	0% 30-Nov-23	28-Jan-24	05-Dec-23		5		
5-8330(6F)	Delivery to Site	30 90	30 90	0% 29-Jan-24 31-Oct-23	27-Feb-24	03-Feb-24 18-Aug-23		5 119		
-1805(6F)	Pipes, Fittings and Anchor Bolts for Structures (if applicable) Wastewater Treatment Plant (30d)	0	0		27-301-24	11-Nov-23	27-Way-24	12		Wastewater Treatment Plant (30)
4-1810(6F)	Tipping Hall and Bunker (30d)	0	0	0% 31-Oct-23		03-Feb-24		95		Tipping Hall and Bunker (30d)
4-1830(6F)	Chimney (30d)	0	0			20-Nov-23		20		Chimney (30d)
4-1840(6F) 4-1850(6F)	Mechanical Treatment Plant & Water Treatment Plant (90d) Reception Pavilion (90d)	0	0	0% 16-Nov-23 0% 15-Nov-23		23-Sep-23 07-Oct-23		-54 -39		♦ Mec ♦ Recep
4-1860(6F)	Administration Building and Viewing Gallery (90d)	0	0	0% 31-Oct-23		13-Sep-23		-48		 Administration Building and View
4-1870(6F)	Elevated Drive Way and Associated Structures (30d)	0	0	0% 31-Oct-23		18-Aug-23		-74		 Elevated Drive Way and Associa
4-1910(6F) 4-1920(6F)	Vehicle Fuel Filling Station (90d) Fuel Filling Klosk (30d)	0	0	0% 29-Jan-24 0% 30-Nov-23		22-Dec-23 27-May-24		-38 179		
vironmental Wo		365	365		31-Dec-24	,	17-Oct-24	-75		
	ty Monitoring Works	365	365	02-Jan-24	31-Dec-24	19-Oct-23	17-Oct-24	-75		
7-1220	Carry out baseline Air Quality monitoring at Portion 3	365	365	0% 02-Jan-24				-75		
7-1240	Carry out baseline Air Quality monitoring at Portion 5	365	365	0% 02-Jan-24	31-Dec-24	19-Oct-23	17-Oct-24	-75		
ritime Works		1631	200			07-Dec-23		70		
arine Constructi		1631	200			07-Dec-23		70		
	ction of Perimeter Seawalls	1631	200			07-Dec-23		17		
Seawall and Berl		1631	200		-	07-Dec-23		17		
Seawall Structural V 08-1115(3)	Caisson infill, Solid ballast, toe protection, precast concrete blocksetc Laying	1631 250	200 32			07-Dec-23 03-Feb-24		17 95		
Remain Works	oulson mini, one bunds, te protection, predat controle blockste Edying	951	200	10-Oct-21 A			03-Jun-24	17		
08-1105-11(6)	Prefabrication of Precast Copping for Vertical Seawall	140	140		18-Mar-24			77		
08-1120 08-1120-1(6)	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall A Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall B	220 220	111 62	49.53% 10-Oct-21 A 71.83% 10-Oct-21 A				95		
08-1120-2(M55)	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall B No. C1 & C2 (Caisson A2 & /	60	26					191		
08-1120-4(M55)	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall B No. C73 & C73C1	60	30	50% 23-Sep-23 A	29-Nov-23	05-May-24	03-Jun-24	187		
08-1320(6)	Construction of Rear Wall Buttress & Panel for Seawall A	180	180			07-Dec-23		17		
Seawall at Dredg Remain Works	ing Area	160 160	12 12			30-Jan-24 30-Jan-24	10-Feb-24	91 91		
08-1170	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level (Bay 1 to Bay 8)	160	12					91		Constructio
	ation, Breakwater and Berth Construction	1094	180			07-Jan-24		90		
Breakwater		1033	149	30-Apr-21 A	27-Mar-24	07-Jan-24	03-Jun-24	68		
08-1295(3)	Caisson Infill, Solid ballast, toe protection, precast concrete blocksetc Laying	200	10					117		Caisson Infill,
Remain Works 08-1300	Construction of Caissons Extension from +3mPD to Deck Level	637 637	149 149	,		07-Jan-24		68 68		
	th at Marine Access	484	149			12-Feb-24		90		
08-1320(5A)	Caisson Infill, Solid ballast, toe protection, precast concrete blocksetc Laying	90	23					104		
Remain Works		30	30			05-May-24		187		
08-1330(2) Seawater Intake Str	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level	30 90	30 72			05-May-24		187 169		
08-2400(6D)	Construction of Seawater Intake	90	72			17-Apr-24 17-Apr-24		169		
Fire Boat Access		120	120			29-Mar-24		90		
08-2500(6D)	Construction of Fire Boat Access	120	120			29-Mar-24		90		
undation Works		409	106			15-Jun-23		53		
	/iewing Gallery Bld Foundation	125	81			14-Sep-23		-46		
dministration & 9-1090	Viewing Gallery Bld Pile Caps Construction Excavation to Pile Cap Formation	125 60	81	11-Aug-23 A 87% 11-Aug-23 A		14-Sep-23		-46		Excavation to Pile
9-1090 9-1100	Pile Cut-off & Capping Plate (6 Welders @ 2nr/d)	14	6	· · · · ·				-46		Pile (
9-1110	Pile Caps Construction	90	72					-46		
y Deck Foundat	ion	166	65	02-Jun-23 A	03-Jan-24	17-Feb-24	06-Apr-24	94		
, ,	Vorks (Driven H-pile)	23	6			17-Feb-24		109		
9-2705(M62)	Driven H Pile Installations (23 nrs - 60m(D) @ 60m/d 1 Group)	23 44	6 44			17-Feb-24		109 94		Driven H Pile Installa
(y Deck Plie Ca j 9-2730(M62)	ps Construction Excavation to Pile Cap Formation	21	21	21-Nov-23 0% 21-Nov-23	03-Jan-24 11-Dec-23	23-Feb-24 23-Feb-24		94		
-2740(M62)	Pile Cutoff & Capping Plate (2 Welders @ 2nr/d)	7	7	0% 12-Dec-23	18-Dec-23	17-Mar-24		96		
9-2750(M62)	Pile Caps Construction	30	30	0% 05-Dec-23	03-Jan-24	08-Mar-24	06-Apr-24	94		
•	Waste Bunker & Tipping Hall Bld Foundation	116	25			25-Sep-23		101		
0	Pile Cap Construction	116	25			25-Sep-23		101		
ile Cap Stage 1		23	4	10 54112071	03-Nov-23			122		
Process Building (N 09-1200	Addule 1) Tipping Hall Pile Caps Construction (26nrs 8set @ 1/7d)	23 23	4			29-Feb-24		122 122		Pile Caps Construction
ile Cap Stage 2		92	23			25-Sep-23		-36		
	Andrule 2) Tipping Hall	92	23			25-Sep-23		-36		
09-1210	Excavation to Pile Cap Formation	25	2			· · ·		-36		Excavation to Pile Cap Forr

		睘境保護署 invironmental Protection Department
	Dec	2024 Jan
	73	74
nent		
nem	Factory Acceptance Test (FAT)	
	Delivery to	Site
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	P	refabrication of Steel Grating Platform
Ę		Fa
nical Treatment	Plant & Water Treatment Plant (90d)	
n Pavilion (90d)		
g Gallery (90d)		
d Structures (30d	0	
	Fuel Filling Kisely (20d)	◆ V
\$	Fuel Filling Kiosk (30d)	
	Caisson infill, Solid ballast, toe protection, precast	concrete blocksetc Laying
		Construction of Seawall and Wave Wall Extension f
Constru	ction of Seawall and Wave Wall Extension from +3mf	1
	Construction of Seawall and Wave Wall Extension from	
Seawall and Wa	ve Wall Extension from +3mPD to Deck Level (Bay 1	ю вау 8)
hallast toe prot	ection, precast concrete blocksetc Laying	
	certon, process condicto blocksete Edying	
Caisson Infil	, Solid ballast, toe protection, precast concrete blocks	.etc Laying
		2mDD to Dealed and
	Construction of Seawall and Wave Wall Extension fror	a +3mPD to Deck Level
		Construction of Seawater Intake
o Formation		
ff & Capping Plat	e (6 Welders @ 2nr/d)	Dila Cana Canat
		Pile Caps Constr
(23 nrs ~ 60m/D) @ 60m/d 1 Group)	
(0 0000(D	· · · · · · · · · · · · · · · · · · ·	
	Excavation to Pile Cap Formation	1
		g Plate (2 Welders @ 2nr/d)
		Pile Caps Construction
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s 8set @ 1/7d)		
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	Adivity Name	Original Duration	Remaining Duration	Activity % Current Start Complete	Current Finis	h Late Start	Late Finish	Total Float	M71 Remarks	Oct	ated Waste Man
9-1230	Pile Caps Construction (22nrs 8set @ 1/7d)	20	9	55% 22-Jun-23 A	08-Nov-23	25-Sep-23	04-Oct-23	-36		71	72 Pile Caps Co
9-2370	Excavation to Pile Raft Foundation Formation	28	20	30% 05-Aug-23 A				-36			
e Cap Stage 3 ocess Building (N		85	25 25					20 20			
9-1240	Excavation to Pile Raft Foundation Formation	25	8	70% 03-Jul-23 A				17			Excavation to
9-1250	Pile Cut-off & Capping Plate (168 nrs, 10nr/d)	74	24					21			
9-1260	Pile Caps and Raft Foundation Construction (60m x 24m 4set@100m2/7day)	26 178	21 86	5				17 -2			1
Equipment Fo Pile Cap Cor		178	53			, v		-2			
710	Pile Caps Construction (Module 1)	30	9		08-Nov-23	, v		72			Pile Caps (
710-1(6)	Tie Beams Construction (Module 1 @+6.5mPD)	30	9	70% 02-Jul-23 A				72			Tie Beams
710-1(M58)	Excavation to Pile Caps formation and construction (Module 2 & 3)	30	23				•		Update Actual Start Date		
710-2(M58)	Tie Beams & Slab Construction (Module 2 & 3 @+6.5mPD)	30 77	30 86			0		-85 -2			
CEquipment S	Base Slab Construction (Module 1 @+6.5mPD)	30	12	· · · ·					Update Actual Start Date		Base
720-1(M58)	Base Slab Construction (Module 1 @ 0.5mPD)	45	45			17-Sep-23		-85			
ne Hall Bld F	pundation	26	26	05-Oct-23 A	25-Nov-23	15-Jun-23	01-Oct-23	-55			
ine Hall Pile (Caps Construction	26	26	05-Oct-23 A	25-Nov-23	15-Jun-23	01-Oct-23	-55			
ctrical Bld & 1	BS1	14	4	05-Oct-23 A	04-Nov-23	27-Sep-23	01-Oct-23	-33			
770-1(M58)	Install anchor bolts & Floor Finishes for TBS1 @+6.3mPD (Post-drilling)	14	4					_	Update Actual Start Date		Install anchor bolt
2 & 3	Dilo Cut off & Consing Diate (131 pm, @10m/4)	26	26		25-Nov-23			-138			Pile 0
770-2(6G) 770-3(M62)	Pile Cut-off & Capping Plate (121 nrs, @10nr/d) Excavation & construction of 4.2x5.5m pit for TBS2&3 @2mPD	12	12	0% 31-Oct-23 0% 31-Oct-23	11-Nov-23 20-Nov-23		26-Jun-23 05-Jul-23	-138 -138			;
780	Pile Caps Construction	14	14			27-Jun-23		-138			
nical Treatm	ent Plant & Water Treatment Plant Bld Foundation	403	106	23-Dec-22 A	13-Feb-24	05-Oct-23	21-Dec-23	-54			
anical Treatr	nent Plant & Water Treatment Plant Piling Works	253	5	23-Dec-22 A	04-Nov-23	05-Oct-23	30-Oct-23	-5			
nanical Treat	ment Plant & Water Treatment Plant (Driven H-pile)	253	5					-5			
870	Driven H Pile Installations (208 nrs ~45m(D), @60m/d 1 Group)	156	2					-4			Driven H Pile Installa
370-1(M54) 380	Driven H Pile Installations (174 nrs - 45m(D), @60m/d 1 Group) Pile Load Test	131	3	97.71% 23-Dec-22 A 75% 21-Feb-23 A				-25 -5			Pile Load Test
	nent Plant & Water Treatment Plant Bld Pile Cap Construction	89	106			_		-54			
	ment Plant Pile Cap Construction	70	70	29-Nov-23	06-Feb-24	06-Oct-23	14-Dec-23	-54			
920	Excavation to Pile Cap Formation	25	25		23-Dec-23		30-Oct-23	-54			
930	Pile Cut-off & Capping Plate (410nrs, @20/d)	21	21		26-Dec-23			-54			
940 or Troatmont	Pile Caps Construction Plant Pile Cap Construction	60 84	60 106		06-Feb-24 13-Feb-24		14-Dec-23	-54 -54			
950	Excavation to Pile Cap Formation	28	21						Change Relationship on Predecessors		
									09-1870-1(M54) and 14-2010 from FS to		
960 970	Pile Cut-off & Capping Plate Pile Caps Construction	14 60	11 56	21.3% 20-Oct-23 A 6.67% 30-Oct-23 A				-17 -54			_
	y and Associated Structures Foundation	229	76					30		_	
	ay Piling Works (Driven H-pile)	155	29	15-May-23 A	28-Nov-23	27-Jul-23	27-Aug-23	-93			
30(M57)	Driven H Pile Installations Grid RSA - RSG (248nrs ~50m(D), @60m/d 4 Groups)	52	2	96.43% 15-May-23 A	01-Nov-23	27-Jul-23	28-Jul-23	-96			🛑 Driven H Pile Installati
30-2(M45)	Driven H Pile Installations Grid RSY - RSAF (74nrs ~55m(D), @60m/d 2 Groups)	34	25				•	-93			
40(M57)	Pile Con Construction	8	4 74	50% 22-Aug-23 A 01-Nov-23				-93 30			1
	ay Pile Cap Construction	50	50			29-Jul-23		-96			
050(M57)	Excavation to Pile Cap Formation	30	30		01-Dec-23			-96			
060(M57)	Pile Cut off & Capping Plate	30	30		14-Dec-23		0	-96			-
070(M57)	Pile Caps Construction	21	21			27-Aug-23		-96			
	ay RSU to RSAF	51	51			25-Dec-23		30			
710(M57) 720(M57)	Excavation to Pile Cap Formation Pile Cut-off & Capping Plate	30 30	30 30	0% 24-Nov-23 0% 08-Dec-23	24-Dec-23 07-Jan-24	25-Dec-23 08-Jan-24		30 30			
730(M57)	Pile Caps Construction	21	21	0% 24-Dec-23		24-Jan-24		30			
tion Pavilior	Foundation	75	75	30-Nov-23	12-Feb-24	22-Oct-23	04-Jan-24	-39			
0	Formation, Compaction & Raft Foundation Construction	75	75			22-Oct-23		-39			
Bridge Found	lation	35	26					-9			
Bridge C		35	26				12-Dec-23	-9			
-	e Caps Construction	35	26				12-Dec-23	-9			I
520 530	Excavation to Pile Cap Formation Pile Cut-off & Capping Plate (20 nrs, @ 4nr/d)	21	2	52.38% 02-Jun-23 A 52.37% 03-Jun-23 A			26-Nov-23 29-Nov-23	-9 -9			
540	Pile Caps Construction and install anchor bolts (20 nr, 4set @ 1nr/7d)	21	13					-9			
Load Acces	S	50	50	25-Nov-23	13-Jan-24	21-Oct-23	09-Dec-23	-35			
olition		50	50			21-Oct-23		-35			
30(6D)	Removal of Sub Base & Road Base & Foundation Works (Stage 2)	50	50		13-Jan-24			-35			
structure Wo		394	210				30-Mar-25				
	/iewing Gallery Bld Structure	21	21			12-Dec-23		-48			
0	Ground Slab to +6.0mPD	21	21 38	0% 29-Jan-24 04-Jan-24	18-Feb-24	12-Dec-23 07-Apr-24		-48 94			
		30	30	04-301-24	10100-24						
eck Structure 0 (M55)	Construction of RC Column (15nrs @0.4/d)	38	38	0% 04-Jan-24	10-Feh-24	07-Apr-24	14-May-24	94			

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ntract N	lo. EP/SP/66/12 🏻 🏹	環境保護署
ment Fa	cilities, Phase 1 🛄	Environmental Protection Department
	Dec	2024 Jan
n (22nrs 8set @	73	74
· ·	p Pile Raft Foundation Formation	
Foundation For	nation & Capping Plate (168 nrs, 10nr/d)	
	and Raft Foundation Construction (60m x 24m 4se	et@100m2/7day)
n (Module 1) on (Module 1 @		
Excavation to	Pile Caps formation and construction (Module 2 & Tie Beams	3) & Slab Construction (Module 2 & 3 @+6.5mPD)
ruction (Module	e 1 @+6.5mPD)	Base Slat
	1 @+6.3mPD (Post-drilling) 11 nrs, @10nr/d)	
xcavation & co	nstruction of 4.2x5.5m pit for TBS2&3 @2mPD ps Construction	
	60m/d 1 Group) 60m/d 1 Group)	
	Evequati	on to Pile Cap Formation
		Cut off & Capping Plate (410nrs, @20/d)
xcavation to Pi	le Cap Formation	
Pile Cut-of	& Capping Plate	
Driven H	s -50m(D), @60m/d 4 Groups) Pile Installations Grid RSY - RSAF (74nrs -55m(D) le Load Test	, @60m/d 2 Groups)
	Excavation to Pile Cap Formation Pile Cut-off & Capping Pi	
	Pile Caps Co	nstruction
	Excava	liorito Pile Cap Formation Pile Cut-off & Capping Plate Pile Caps Construction Pile Caps Construction
	Excavation to Pile Cap Formation Pile Cut-off & Capping Plate (20 nrs Pile Caps Co	;, @ 4nr/d) ns fuction and install anchor bolts (20 nr, 4set @ 1nr/7d
		Removal of Sub Base & Roa
		removal of SUD Base & KOB
I Mileston	e	
I Mileston		

Adivity Name	Original Duration	Remaining Duration		Current Finish	Late Start	Late Finish	Total M71 Remarks	Oct	egrated Waste Manag
asta 9. Ask Dunker Did Structure	245	136		15-Mar-24	29 Aug 22	09 Aug 24	147	71	72
aste & Ash Bunker Bld Structure rocess Building (Module 1) Waste & Ash Bunker Bld Structure	162	130		27-Feb-24	11-Sep-23	, v	63		
10-1120 Column & Wall to +20.0mPD	23	5	, , , , , , , , , , , , , , , , , , ,			16-Sep-23	-49		Column & Wall to +20.0
10-1140 Beam & Slab to +20.0mPD	18	12	°		16-Sep-23	27-Sep-23	-49 Update Actual Start Date		Bea
IO-1150 Column & Wall to +33.0mPD IO-1160 Beam & Slab to +28.0mPD	15	15 40		10-Jan-24		21-Nov-23	-49		
10-1100 Beam & Slab to + 22.011P D 10-1170 Beam & Slab to + 33.0mPD	40	40		26-Dec-23 15-Jan-24		26-Nov-23	-49		
10-1180 Column, Wall & Beam to +41.0mPD	3	3		18-Jan-24		29-Nov-23	-49		
0-1190 Column & Wall to +49.0mPD	40	40 103		27-Feb-24			63		
o-1230 Column & Wall to +20.0mPD	184	103		10-Feb-24	, v	20-Dec-23 02-Nov-23	-46		
0-1240 Beam & Slab to +15.0mPD	47	35	°			02-Oct-23	-63		
0-1250 Beam & Slab to +20.0mPD	14	14		01-Jan-24		16-Nov-23	-46		
0-1260 Column & Wall to +33.0mPD 0-1270 Beam & Slab to +28.0mPD	12	12		10-Feb-24 29-Jan-24		26-Dec-23 14-Dec-23	-46		
rocess Building (Module 3) Waste & Ash Bunker Bld Structure	215	106			02-Oct-23		-19		
0-1320 Column & Wall to +6.0mPD	40	25	37.5% 07-Jun-23 A	24-Nov-23	02-Oct-23	26-Oct-23	-29		
0-1330 Beam & Slab to +6.0mPD	30	21	5			-	-29		
D-1340 Column & Wall to +20.0mPD D-1350 Beam & Slab to +15.0mPD	30	30 30		13-Feb-24 14-Jan-24		25-Jan-24 16-Dec-23	-19 -29		
ocess Building Waste & Ash Bunker Bld Structural Steel Roof	60	60			10-Jun-24		147		
-2330 (M63) Facade Structural Frame Installation at Module 1	60	60	0% 15-Jan-24	15-Mar-24	10-Jun-24	08-Aug-24	147		
ping Hall Bld Structure	135	74	21-May-23 A	04-Feb-24	18-Oct-23	06-Apr-24	63		
rocess Building (Module 1) Tipping Hall Bld Structure	67	34				06-Apr-24	95		
D-1440 Column & Wall to +17.0mPD D-1450 Beam & Slab to +17.0mPD	21	3	,			07-Mar-24	95		
0-1430 Beam & Stability + 17.0mPD 0-1460 Column & Wall to +25.7mPD	21	15	,	_	-	12-Mar-24 19-Mar-24	95		
0-1470 Beam & Slab to +25.7mPD	21	19			19-Mar-24		95		
ocess Building (Module 2) Tipping Hall Bld Structure	135	74	, v	04-Feb-24	18-Oct-23	08-Jan-24	-27		
0-1480 Beam & Slab to +6.0mPD	21	11				28-Oct-23	-36		
O-1490 Column & Wall to +17.0mPD O-1500 Beam & Slab to +17.0mPD	21	21		24-Dec-23 14-Jan-24		18-Nov-23 09-Dec-23	-36		
0-1510 Column & Wall to +25.7mPD	21	21		04-Feb-24		08-Jan-24	-27		
rocess Building (Module 3) WWTP Structure	97	66	29-Sep-23 A	03-Feb-24	11-Dec-23	09-Jan-24	-25		
10-3010(6F) Slab to +3.5mPD	10	10			-		12		
0-3020(6F) Column & Wall to +6.5mPD 0-3030(6F) Beam & Slab to +6.5mPD	10	10		24-Jan-24 03-Feb-24		30-Dec-23	-25		
cess Building - Boiler & Flue Gas Treatment Bld Structure	324	140		18-Mar-24			70		
eel Structure	324	140	17-Apr-23 A	18-Mar-24	18-Sep-23	27-May-24	70		
oiler Building Steel Structure	324	140	21-Aug-23 A	18-Mar-24	05-Oct-23	22-Feb-24	-25		
Process Building (Module 1) Steel Structure Erection	60	20	5	19-Nov-23			-25		
10-1640 Roof Cladding Installation Process Building (Module 2) Steel Structure Erection	60 60	20 60	5	19-Nov-23 18-Jan-24		25-Oct-23 24-Dec-23	-25		
10-1680 Roof Cladding Installation	60	60		18-Jan-24		24-Dec-23	-25		
Process Building (Module 3) Process Building Steel Structure Erection	60	60			24-Dec-23		-25		
10-1720 Roof Cladding Installation	60	60 113				22-Feb-24	-25		
lue Gas Treatment Bld Steel Structure Process Building (Module 1) Steel Structure Erection	212	50		20-Feb-24 19-Dec-23			3		
10-1760 Roof Cladding Installation	30	30		19-Dec-23		17-Dec-23	-2		
10-1880_1(M68) Close off Module 1 wall and erect support for Prefab 3 (C1 & D1)	21	5				22-Dec-23	48 Update Actual Start Date		Close off Module 1 w
Process Building (Module 2) Steel Structure Erection 10-1800 Roof Cladding Installation	109 30	109 30		17-Feb-24		-	100		
IO-1800 Roof Cladding Installation IO-1890_1(M68) Close off Module 2 wall and erect support for Prefab 3 (C2)	29	29		17-Feb-24 29-Nov-23		-	-44		
Process Building (Module 3) Steel Structure Erection	212	89		20-Feb-24			66		
10-1810 Erection of Mega Columns (1nos @30d /column /gang x 1)	30	15				30-Nov-23	-8		
10-1820 Steel Roof Truss Ground Assembly Works 10-1830 Steel Roof Truss Lifting (FM3)	30	15		08-Dec-23 04-Jan-24		30-Nov-23 27-Dec-23	-8		
10-1900 Facade Structural Frame Installation at Module 3	30	30		20-Feb-24			66 Update OD		
10-1900_1(M68) Close off Module 3 wall and erect support for Prefab 3 (C3 & D2)	30	30		20-Feb-24	01-Dec-23		-52		
ocess Building Internal Partition Wall and Staircase	60	60		17-Feb-24			-2		
h-1850 RC Partition and Staircase at Module 1 bine Hall Bld Structure	60 263	60 110		17-Feb-24 17-Feb-24			-2		
bine Hall Electrical Bid	70	70		08-Jan-24	07-Oct-23		-24		
0-1940 Column & Wall to +19.5mPD	11	11		10-Nov-23		17-Oct-23	-24		Column &
D-1950 Beam & Slab to +19.5mPD	8	8	0% 11-Nov-23	18-Nov-23	18-Oct-23	25-Oct-23	-24		
D-1960 Column & Wall to +23.5mPD	7	7		25-Nov-23		01-Nov-23	-24		
0-1970 Beam & Slab to +23.5mPD 0-1980 Column & Wall to +28.0mPD	9	9		04-Dec-23 12-Dec-23		10-Nov-23 18-Nov-23	-24		
1990 Beam & Slab to +28.0mPD	10	10		22-Dec-23	-	28-Nov-23	-24		
0-2070(M64) Column & Wall to +32.45mPD	10	10		01-Jan-24	_	08-Dec-23	-24		
0-2080(M64) Beam & Slab to +32.45mPD	7	7		08-Jan-24		15-Dec-23	-24		
rbine Hall TBS1	212	23	26-May-23 A	22-INOV-23	12-Sep-23	04-Oct-23	-49		

3-Month Rolling Programme (October	2023)
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Actual Work Remaining Work

Critical Remaining Work 🔶 ♦ ♦ Milestone

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	Adivity Name	Origina			t Current Finis	h Late Start	Late Finish	Total M71 Remarks		Waste Manager
		Duratior	Duration					Float	Oct 71	Nov 72
-2320 TG Foundation	Beam & Slab to +28.0mPD	42	13		A 22-Nov-23 12-Nov-23			-49 -46		
0-1990-1(M58)	STG Foundation construction and install anchor bolts @ +9.5	7					24-Sep-23	-46		STG Foundation cor
0-1990-2(M58)	STG Foundation construction and install anchor bolts @ +10.77	3				· · ·		-46		STG Foundation
rbine Hall TBS	S2 & 3	98	98	3 12-Nov-23	17-Feb-24	11-Jul-23	13-Nov-23	-96		
-2000	Ground Beam and Slab to +6.0mPD and install anchor bolts & Floor Finishes for TBS2 & 3 @ +6.3mPD	30		0% 26-Nov-23	25-Dec-23	11-Jul-23	09-Aug-23	-138		
-2010	Column & Wall to +15.0mPD & +23.5mPD	30			24-Jan-24	•	08-Sep-23	-138		
-2020	Beam & Slab to +28.0mPD	30			17-Feb-24	03-Sep-23 04-Sep-23		-138 -69		
TG Foundation 0-1990-3(M58)	STG Foundation construction and install anchor bolts @ +9.5	21			02-Dec-23			-69		
0-1990-4(M58)	STG Foundation construction and install anchor bolts @ +1.5	10			12-Dec-23	· ·		-69		
TG Foundation		31	31			14-Oct-23		-29		
0-1990-5(M58)	STG Foundation construction and install anchor bolts @ +9.5	21	21	1 0% 12-Nov-23	02-Dec-23	14-Oct-23	03-Nov-23	-29		
0-1990-6(M58)	STG Foundation construction and install anchor bolts @ +10.77	10			12-Dec-23			-29		
•	CCW Bld Structure	56				08-Oct-23		-23		
2040 2050	Column & Wall to +14.0mPD Roof Slab to +14.5mPD	21			20-Nov-23 11-Dec-23			-23 -23		C
2210	Concrete Plinth & install anchor bolts @+15.0mPD	14			25-Dec-23			-23		_
mney Structur		60				21-Oct-23		-44		
2059	Excavation to Formation Level and Install Tower Crane	60	60	0% 04-Dec-23	01-Feb-24	21-Oct-23	19-Dec-23	-44		
MF Substation	Structure	90	29	9 21-Aug-23	A 29-Nov-23	22-Sep-23	30-Oct-23	-29		
2190	Column, wall, beam and Roof Slab to +15.0mPD	21				· · ·		-38		Column, wall, beam an
2200	Parapet and Structures above +15.0mPD	21				10-Oct-23		-29		
	ay and Associated Structures	69				17-Sep-23		30		
	/ay RSA to RSG (42.8m)	45			04-Feb-24			-96		
-2210(M57)	G/F Base Slab	45			04-Feb-24 28-Feb-24			-96 30		
-2360(M57)	Vay RSU to RSAF (99m) G/F Base Slab	45				14-Feb-24		30		
ebridge Struct		43			20-Feb-24 20-Apr-24		23-May-24	33		
be Rack		27			03-Dec-23	18-Oct-23		63		
-2320(6)	Erection of Pipe Rack 1 (Pipe Rack C1 & D1 to CCCW)	6			12-Nov-23	30-Jan-24		84		Erection of Pipe
-2330(6)	Erection of Pipe Rack 2 (Pipe Rack C2)	3	3		03-Dec-23	18-Oct-23		-44		
oe Bridge B		173	173	3 31-Oct-23	20-Apr-24	15-Dec-23	23-May-24	33		
-2290(6F)	Delivery & Storage of Pipe Bridge B	C	(0%	31-Oct-23		15-Dec-23	46		very & Storage of Pipe Bridge B
-2300(6)	Erection of Pipe Bridge B Between CCCW and Turbine Hall	7		070 31 00 23	06-Nov-23	16-Dec-23		46		Erection of Pipe Bridge B
-2300-1(6D)	Erection of Pipe bridge B1 on the Roof of Turbine Hall	90			20-Apr-24 22-Feb-24	24-Feb-24	,	33 -24		
be Bridge C		40				16-Dec-23 16-Dec-23		-24		
onnect to ACC 0-2310(6)	Erection of Pipebridge C between Turbine Hall & ACC 1	45		5 0% 09-Jan-24	22-Feb-24			-24		
sel Offloading		120					30-Mar-25			
2410(6D)	Construction of Vessel Offloading Point	120	120	0% 29-Jan-24	27-May-24	01-Dec-24	30-Mar-25	307		
C Yard		45	45	5 13-Dec-23	26-Jan-24	06-Feb-24	21-Mar-24	55		
2000	Delivery and Erection of ACC Steel Structure & Steel Structure Support of Condensate Tank (Module 1)	45	45	5 0% 13-Dec-23	26-Jan-24	06-Feb-24	21-Mar-24	55		
hitectural Buil	Iders Works & Finishes	280	280	31-Oct-23	05-Aug-24	03-Oct-23	30-Mar-25	237		
cess Building	- Waste Bunker & Tipping Hall Bld ABWF Works	250	250) 31-Oct-23	06-Jul-24	07-Feb-24	24-Oct-24	110		
1060	Door, Roller Shutter, Windows and Louvers Installation	250			06-Jul-24	07-Feb-24		99	La construction de la constructi	
1080	Internal Wall and Floor Finishes	180			27-May-24		03-Sep-24	99		
1090	False ceiling and Raise Floor installation	180			26-Jun-24	28-Apr-24 08-Apr-24		120 80		
1120	Boiler & Flue Gas Bld ABWF Works Metal Railings, Staircase, Platforms & Gratings Installations	200			, v	08-Apr-24		80		
1120	Internal Wall and Floor Finishes	200			16-Jul-24	08-Apr-24		100		
bine Hall Bld A		120	120			22-May-24		314		
ectrical Bld AB	3WF Works	120	120) 22-Jan-24	20-May-24	27-Jul-24	30-Mar-25	314		
-1160	Metal Railings, Platforms, Gratings, Cable trench covers Installations	120	120	0% 22-Jan-24	20-May-24	01-Dec-24	30-Mar-25	314		
-1170	Internal Wall and Floor Finishes	90			20-Apr-24	27-Jul-24		187		
rbine Hall ABV		52			16-Mar-24			118		
-1540-1(M63)	Facade Structural Frame Erection	52				22-May-24		118		
AF Substation		155				03-Oct-23		302		
1340 1350	Door, Roller Shutter, Windows and Louvers Installation Metal Railings, Platforms, Gratings, Cable trench covers Installations	90			02-Apr-24 06-Feb-24	01-Nov-24 03-Oct-23		-36		
1360	Internal Wall and Floor Finishes	90			06-Feb-24			-36		
1370	False ceiling and Raise Floor installation	90			06-Feb-24			-36		
1380	External Finishes and Roof Waterproofing	86				31-Oct-23		-38		
1560-1(M63)	Facade Structural Frame Installation	64			02-Jan-24	16-Apr-24		168 152		
ding Services					1 26-Jul-24			152		
	- Waste Bunker & Tipping Hall Bld BS Works	248					25-Dec-24	152		
1080 1090	Fire Service System Electrical and Lighting System	180			19-May-24 25-Jul-24	14-Feb-24 29-Jun-24	-	84		
1100	Security, Surveillance & Communication System	180			25-Jul-24 26-Jul-24	29-Jun-24 29-Jun-24		152		
/F Substation		170			A 27-Apr-24			242		
1470	Plumbing & Drainage System	120	118	3 2% 10-Oct-23	10-Apr-24	30-Aug-24	25-Dec-24	259 Update Actual Start Date		

3-Month Rolling Programme (October 2023)
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Remaining Work \diamond \diamond Milestone \diamond \diamond Critical

	o. EP/SP/66/12	P	表現保護署 nvironmental Protection Department
nent Få	cilities, Phase 1		2024
	Dec 73		Jan 74
Beam & Slai	0 to +28.0mPD	_	
	nstall anchor bolts @ +9.5		
on construction	and install anchor bolts @ +10.77		
		Ground F	eam and Slab to +6.0mPD and install anchor bolts &
			Column &
	STG Foundation construction an	d install anchor b	olts @ +9.5
			d install anchor bolts @ +10.77
	STC Foundation construction	d inctall anaba- h	olte @ .05
	STG Foundation construction an STG Foundation		olts @ +9.5 d install anchor bolts @ +10.77
		-	
olumn & Wall (Emplo	
	Roof Slab to +14		Plinth & install anchor bolts @+15.0mPD
nd Roof Slab to	+15.0mPD		
	Parapet and Structures above +15.0m	PD	
	•		
_			
e Rack 1 (Pipe	Rack C1 & D1 to CCCW) Erection of Pipe Rack 2 (Pipe	Rack C.2)	
Between CCC	W and Turbine Hall		
			Delive
			Facade Structural Frame Installation
I Mileston	e		
Mileston			

	Adivity Name	Original	Remaining	Activity % Current Start	Current Finis	Late Start	Late Finish	Total	M71 Remarks	0	prated Waste Mana
		Duration	Duration	Complete				Float		Oct 71	Nov 72
480 490	MVAC System Fire Service System	120 90	120 88	0% 30-Dec-23 2% 12-Oct-23 A	27-Apr-24			143	Update Actual Start Date		
500	Electrical and Lighting System	120	118	2% 12-0ct-23 A 2% 10-0ct-23 A					Update Actual Start Date		
ess Equipme	nt Installation	235	235	15-Aug-23 A	22-Jun-24	28-May-23	21-Dec-24	183			
cess Building	- Waste Bunker & Tipping Hall Bld Process Equipment Installation	227	227	08-Nov-23	22-Jun-24	15-Oct-23	18-Aug-24	58			
	ng and Instrument Installation and Connection Works	172	172		28-Apr-24	15-Oct-23		63			
DCESS Building		90	90			02-Mar-24	-	80			
-3000(6F) -3010(6F)	Embedded Piping Installation Piping Installation Works	60 90	60 90			02-Mar-24 02-Mar-24	-	80 80	Update OD		
ocess Building		120	120		06-Mar-24			61			
-3160(6F)	Piping Installation Works	60	60	0% 08-Nov-23*	06-Jan-24	15-Oct-23	13-Dec-23	-24	Add Constraints "Start On or After"		
-3170(6F)	Pipe Testing	60	60			07-Feb-24		61			
-3180(6F)	Piping Insulation Works Equipment (Module 1)	60 90	60 90	0% 07-Jan-24 29-Jan-24		08-Mar-24 01-Apr-24	,	61 63			
-4000(6G_R1)	Deliver and installation of Ash Treatment Equipments	90	90	0% 29-Jan-24		01-Apr-24		63			
) (Cranes and Shredder)	109	109	15-Dec-23			04-Aug-24				
ocess Building		86	86	15-Dec-23	09-Mar-24	27-May-24	04-Aug-24	148			
- 1000-1(6)	Ash Crane Installation @+15.3mPD	70	70	0% 15-Dec-23*	22-Feb-24	27-May-24	04-Aug-24		Remove Predecessor 10-1350; Add Predecessor 10-1130; Add Constraints "Start On or After"; Update OD from 210 to		
-1000-6(6B)	EOTC & Monorail Hoist System installation in Ash Crane Control Room (+15.8mPD & +19.9mPD)	70	70	0% 31-Dec-23	09-Mar-24	27-May-24	04-Aug-24		Remove Predecessor 10-1360; Add Predecessor 10-1140; Update OD from 210 to 70		
ocess Building	g (Module 2)	98	98	26-Dec-23	01-Apr-24	27-May-24	04-Aug-24	125			
-1004-1(M71)	Ash Crane Installation @+15.3mPD	70	70			-	04-Aug-24		New Activity		
-1004-6(M71)	EOTC & Monorail Hoist System installation in Ash Crane Control Room (+15.8mPD & +19.9mPD)	70 145	70 145			27-May-24		125 -24	New Activity		
cess Building 1010-1(6)	WWTP Piping and instrument installation	145	145				06-May-24 06-May-24				
	(Central Control System Installation)	145	145			27-Mar-24		63			
1010-3(6B)	Mechanical equipment installation (Control Room 2 +36.5mPD)	145	145	0% 24-Jan-24	17-Jun-24	27-Mar-24	18-Aug-24	63			
cess Building	(Switch Room)	145	145	29-Jan-24	22-Jun-24	07-Mar-24	29-Jul-24	38			
1010-4(6B)	Mechanical equipment installation (Switch Room +28.25mPD)	145	145			07-Mar-24		38			
	- Boiler House & Flue Gas Treatment BId Process Equipment Installation	193	193	ÿ	10-May-24			40			
	(Installation TPU Module)	193	193	Ŭ	10-May-24			-70			
U Train 1	Boiler Condition Check and Repair	187 70	187 70		04-May-24 08-Jan-24	1		-64 -156			
-1040	Remaining Equipment Installation at GL	120	43						Update Actual Start Date		
-1090	Boiler Pressure Test	15	15					-156			
-1100	Boiler Refractory works	105	105								
U Train 2 - 1130	Boiler Condition Check and Repair	187	187 70	Ŭ	04-May-24 08-Jan-24		01-Mar-24 05-Aug-23	-64 -156			
-1140	Remaining Equipment Installation at GL	120	43			19-Jan-24	-		Update Actual Start Date		
-1180	Boiler Pressure Test	15	15	•			17-Aug-23	-156	-		
-1190	Boiler Refractory works	105	105	0% 21-Jan-24	-		30-Nov-23				
U Train 3	TDU 2 Welding to Deep Diste	191	191		08-May-24			-145			TPU-3 Wel
-1215(M63)-2 -1220	TPU-3 Welding to Base Plate Boiler Condition Check and Repair	20	10 71	50% 19-Sep-23 A 0% 31-Oct-23		03-Jun-23 08-Jun-23		-150 -145			
-1230	Remaining Equipment Installation at GL	121	121	0% 31-Oct-23	28-Feb-24		25-Sep-23	-156			
-1270	Boiler Pressure Test	15	15			18-Aug-23		-145			
-1280	Boiler Refractory works	105 190	105 190	0% 25-Jan-24	-		16-Dec-23	-145 -142			
U Train 4 - 1305 (M63)-2	TPU-4 Welding to Base Plate	20	190	50% 23-Sep-23 A	07-May-24			-142			TPU-4 We
-1310	Boiler Condition Check and Repair	70	70	0% 31-Oct-23		-	19-Aug-23	-142			
-1320	Remaining Equipment Installation at GL	120	120	0% 10-Nov-23	08-Mar-24	07-Jun-23		-156			
-1360	Boiler Pressure Test	15	15			-	03-Sep-23	-142			
-1370 U Train 5	Boiler Refractory works	105 154	105 154	0% 24-Jan-24 08-Dec-23	-		17-Dec-23 06-Dec-23	-142 -156			
-1480	Boiler Final Position by SPMT (TPU Train 5)	0	0		08-Dec-23	00 50 25	05-Jul-23	-156			
-1485(M63)-1	Removal of Temporary Steel from Prefab from TPU-5	14	14		22-Dec-23	06-Jul-23	19-Jul-23	-156			
-1485(M63)-2	TPU-5 Welding to Base Plate	20	20	0% 23-Dec-23		20-Jul-23	08-Aug-23	-156			
-1490 -1500	Boiler Condition Check and Repair Remaining Equipment Installation at GL	70	70 120	0% 09-Dec-23 0% 12-Jan-24		29-Aug-23	06-Nov-23 06-Dec-23	-102 -156			
U Train 6		120	120		-	-	30-Nov-23	-156			
-1390	Boiler Final Position by SPMT (TPU Train 6)	0	0	0%	17-Nov-23		14-Jun-23	-156			
-1395(M63)-1	Removal of Temporary Steel from Prefab from TPU-6	14	14	0% 03-Dec-23		30-Jun-23	13-Jul-23	-156			
-1395(M63)-2	TPU-6 Welding to Base Plate	20	20		05-Jan-24	14-Jul-23	02-Aug-23	-156			
-1400 -1410	Boiler Condition Check and Repair Remaining Equipment Installation at GL	70	70 120	0% 18-Nov-23 0% 06-Jan-24		23-Aug-23	31-Oct-23 30-Nov-23	-87 -156			
-1410	Boiler Pressure Test	120	120			03-Aug-23 01-Nov-23		- 156			
	(Installation of Flue Gas Module)	167	167		14-Apr-24			66			
C Train 1		90	70	15-Aug-23 A	08-Jan-24	22-Jan-24	31-Mar-24	83			
-1580	FGC Unit Condition Check and Repair	70	70	0% 31-Oct-23	08-Jan-24	22-Jan-24	31-Mar-24	83			
		90									

PAGE 15 OF 17

	o. EP/SP/66/12 cilities, Phase 1	環境保護署 Invironmental Protection Department
	Dec 73	Jan 74
		Piping Installation Works
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		Boiler Condition Check and Repair
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Boiler Final Position	by SPMT (TPU Train 6)	
	Removal of Temporary	Steel from Prefab from TPU-6 TPU-6 Welding to Base Plate
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FGC Train 2 FGC Unit Condition Check and Repair Operation Duration	vctivity ID	Adivity Name	Original	Remaining	Activity % Current Start	Current Finis	h Late Start	Late Finish	Total M71 Remarks		2023
Unclassify Unclasi						Sanoni Finibi	Late order t	2010 1 11/311			Nov
	FGC Train 2		90	84	15-Aug-23 A	22-Jan-24	22-Jan-24	19-Jun-24	149		
Dots Desk of grantskin free Mark Park Park <t< td=""><td></td><td>FGC Unit Condition Check and Repair</td><td></td><td>70</td><td>0% 31-Oct-23</td><td>08-Jan-24</td><td>22-Jan-24</td><td>31-Mar-24</td><td></td><td></td><td></td></t<>		FGC Unit Condition Check and Repair		70	0% 31-Oct-23	08-Jan-24	22-Jan-24	31-Mar-24			
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11 11 1 10 10 10 1000000000000000000000000000000000000	13-1730	Remaining Equipment Installation at GL	90	90	0% 10-Dec-23*	08-Mar-24	19-Jul-23	16-Oct-23	-144 Add Constraints "Start On or After"		
10 10 <td< td=""><td>FGC Train 4</td><td></td><td>131</td><td>131</td><td>27-Oct-23 A</td><td>09-Mar-24</td><td>22-Jun-23</td><td>16-Oct-23</td><td>-145</td><td></td><td></td></td<>	FGC Train 4		131	131	27-Oct-23 A	09-Mar-24	22-Jun-23	16-Oct-23	-145		
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91 10:201 Result interpretation for the function of the function	FGC Train 5		90	90	14-Jan-24	13-Apr-24	30-Sep-23	30-Dec-23	-105		
In Supersonal Sector Analysis 1 <t< td=""><td>13-1850</td><td>Flue Gas Final Position by SPMT (FGC Train 5)</td><td>0</td><td>0</td><td>0%</td><td>14-Jan-24</td><td></td><td>30-Sep-23</td><td>-106</td><td></td><td></td></t<>	13-1850	Flue Gas Final Position by SPMT (FGC Train 5)	0	0	0%	14-Jan-24		30-Sep-23	-106		
Image: provise stands near starts and											
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1970 076 does in training 22 20 0% 100 0% 20 2000 0% 20			156	156	22-Nov-23	26-Apr-24	04-Oct-23	29-Jul-24	94		
125201041 10500000000000000000000000000000000000			22	22	0% 11-Dec-23	01-Jan-24	04-Oct-23	26-Oct-23	-67		
13:0:10 Pip 0 <	13-2120-1(11)	TBS Tower 1 Delivery	0	0	0%	11-Dec-23		15-Dec-23	4 Update Lag on the Predecessor		
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Turbine Hall Electrical Room #23.50mP0 90 90 92.3xP3 90.4xP3 25.8xP3 10.1xP3 26.4xP3 12.8xP3 13.2200 4001 Corpressor Curbine Installation 1 schwei Hull (bd (scm *2.33) 00 0 11.1xV3 2.4/kP4 2.7/kP3 17/kP4 2.7/kP3									-49 Add Successor 16-1540	-	-
13:270.0000 Manual Miss System Roduktion In Turkine Hall (20 Flox 40:23.3) 19 90 90 90 90 92.592.40 22.592.4 23.692.3 23.692.4 23.692.3 23.692.3 23.692.3 23.692.4 23.692.3 23.692.3 23.692.4 23.692.3 23.692.4 23.692.3 23.692.4 23.692.3 23.692.4 23.692.3 23.692.4 23.692.3 23.692.4 23.692.3 23.692.3 23.692.3 23.692.3 23.692.3 23.692.3 23.692.3 23.692.3 23.692.4 23.692.3 23.692.4 23.692.3 23.692.4 23.692.3 23.692.4 23.692.3 23.692.4 23.692.3 23.692.4 23.692.3 23.692.4 23.692.3 23.692.4 23.692.3 23.692.4 23.692.4 23.692.3 23.692.4 24.692.4	Turbine Hall Elect	rical Room Equipment Installation	90	90	22-Jan-24	20-Apr-24	23-Sep-24	21-Dec-24	245		
Concessor & CCCW Bid Equipment Installation 101 01 11.4024 24.9423 24.9423 21.9424 01 Air Conpressor & Equipment Installations 00 0 11.4024 01.9424 21.9423 11.9424 01 12.220 Air Compressor & Equipment Installations 00 0 0 11.9424 01.9423 21.9424	Turbine Hall Elec	trical Room @+23.50mPD	90	90	22-Jan-24	20-Apr-24	23-Sep-24	21-Dec-24	245		
Air Compressor Equipment Installation 90 90 91 11.4m.24 97.4p.24 23 bcs23 24 Mar 24 19 13:23.0 Air Compressor En Equipment Installators 90 90 90 52.4m24 23.4m23 23.4m24 19 13:23.0 CCCW Bidgenent Installators 90 90 90 52.4m24 23.4m24	13-2290-6(6B)	Monorail Hoist System installation in Turbine Hall (3rd Floor @+23.5)	90	90	0% 22-Jan-24	20-Apr-24	23-Sep-24	21-Dec-24	245		
13 2320 Ali Corpuesar Rin Experient Installation 60 60 95, 11, 42, 22 92, 42, 23 92, 42, 23 92, 42, 23 92, 41, 23 12, 32, 30 CCCW Bid Experient Installation 60 60 55, 36, 24 23, 42, 24 92, 42, 24 93, 41, 23 33, 41, 23 33, 41, 33 33, 41, 33 33, 41, 33 33, 41, 33 33, 41, 33 33, 41, 33 33, 41, 33 33, 41, 33 33, 41, 33 33, 41, 33 33, 41, 33 33, 41, 33 33, 41, 33 33, 41, 33 33, 41, 33 33, 41, 33 34, 41, 33 34, 41, 34 34, 41, 34 34, 41, 34 34, 41, 34 34, 41, 34 34, 41, 34 34, 41, 34 34, 34, 34 34, 34, 34 34, 34, 34 34, 34, 34 34, 34, 34 34, 34, 34 34, 34, 34 34, 34, 34 34, 34, 34 34, 34, 34, 34, 34, 34, 34, 34, 34, 34,	Compressor & CCC	CW Bld Equipment Installation	104	104	11-Jan-24	23-Apr-24	23-Dec-23	31-Mar-24	-23		
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13:23:0 CO:W Equipment Installation 90 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td>							_				
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13:2520Fuel Oil Reception and Distribution System Installation all Betth Area66066060080-De-2327.Feb-2427.Apr-24	13-2630(6B)	EOTC Hoist System installation in Substation @+14.1mPD	30	30	0% 01-Dec-23	30-Dec-23	31-Oct-23	29-Nov-23	-31		
External Process Pipe Works949425 Jan.2427 Apr.240.2 Mar.240.3 Mar.240.3Process and Non-process Piping Works949425 Jan.2425 Jan.240.2 Mar.240.4 Mar.240.3 Mar.240.3Piping from Modula 1 to Turbine Bld909025 Jan.2423 Apr.240.2 Mar.240.4 Mar.240.3 Mar.240.3Piping Installation Works909025 Jan.2423 Apr.240.2 Mar.240.4 Mar.240.30.3Pipe Bridge B Piping Installation Works909029 Jan.2427 Apr.240.2 Mar.240.4 Mar.240.313.250Piping Installation Works909090%29 Jan.2427 Apr.240.2 Mar.240.4 Mar.240.313.250Piping Installation Works909090%29 Jan.2427 Apr.240.2 Mar.240.4 Mar.240.313.250Piping Installation Works909090%29 Jan.247.4 Apr.240.4 Mar.240.30.3Underground Utilities Works909090%29 Apr.22A0.1 Mar.240.3 Mar.240.30.3Underground Utilities Works56821528 Apr.2A0.1 Mar.240.3 Mar.242121Underground Utilities Works609090920.1 Mar.240.3 Mar.24212114.1050Cable Unding AL Anding Joint Epy Arm.24920.1 Mar.240.3 Mar.240.3 Mar.241.514.1050Cable Unding Arm.24Sevage	Equipment Installa	tion at External Area	60	60	30-Dec-23	27-Feb-24	26-Jun-24	24-Aug-24	179		
Process and Non-process pipe Works 94 94 25-Jan 24 27-Apr 24 30-Mary 24 33 Piping from Modul → To Turbine Bld 10 90 90 25-Jan 24 23-Apr 24 30-Mary 24 34 13-2550 Piping Installation Works 90 90 29-Jan 24 27-Apr 24 30-Mary 24 34 13-2570 Piping Installation Works 90 90 29-Jan 24 27-Apr 24 02-Mar 24 30-Mary 24 33 LandScoppe External Road and Drains Works 90 90 90 29-Jan 24 27-Apr 24 02-Mar 24 30-Mary 24 33 Underground Utilities Works 90 90 90 29-Jan 24 27-Apr 24 02-Mar 24 30-Mary 24 33 Underground Utilities Works 500 20-Mar 24 02-Mar 24 02-Mar 24 30-Mary 24 33 14-1050 Cable Ducling and Landing Joning bay for CLP Transmission System 90 29 67-A784 10-Mary 24 30-Mary 24 31-Mar 24 24 14-10050 Sewage Transfer System for MMF Vessels (Caisson 13) 670 67-A784 10-Fe-24								-			
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14-1050 Cable Ducting and Landing Jointing bay for CLP Transmission System 90 20 67.78% 10-May-23 A 28-Nov-23 03-Sep-23					·					4	
Drainage Works 223 111 15-May-23A 18-Feb-24 25-Sep-23 03-Jun-24 106 14-1000-1(M55) Sewage Transfer System for WMF Vessels (Caisson 13) 60 60 60 10-9e-23 16-Feb-24 05-Apr-24 03-Jun-24 108 Box Culvert 223 111 15-May-23A 18-Feb-24 05-Apr-24 03-Jun-24 108										·	
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Box Culvert 223 111 15-May-23 A 18-Feb-24 25-Sep-23 03-Jun-24 106		Sawana Transfar System for MME Vaccals (Calcon 12)								4	
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3-Month Rolling Programme (October 2023) PAGE 16 OF 17

Actual Work Remaining Work

Critical Remaining Work 🔶 ♦ Milestone

Critical

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Management Fa	lo. EP/SP/66/12 pcilities, Phase 1	P	環境保護署 Environmental Protection Department
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I of Temporary Steel from Pref			
FGC-3 Weldir	ig to Base Plate		
			FGC Unit Condition Check and Repai
al of Temporary Steel from Pref			
	FGC-4 Welding to Base	e Plate	
			FGC Unit Condition Check and Repai
			Installation 4
			 Flue Gas Final Position by
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	1 1 1		
		D. /	STG Module 1 Installation
	♦ TBS Tower 1	Delivery FBS Tower 1 Install	ation
			STG & TBS
	1	Install Mainte	enance Girder & Crane at Module 1 @+22.247mPd
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			EOTC Hoist System installation in Substation @+14.
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C	; able Ducting and Landing Jointing	bay for CLP Trans	mission System
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Actrual Milestor			
 Critical Mileston 	e		

	Seghers Seghers BEE-285 NUAREST USTOR					·				Integra	Contrac ated Waste Management	t No. EP/SP/66/12 Facilities, Phase 1	環境保護署 Environmental Protection Departme
ctivity ID	Adivity Name	Origin Duratio	nal Remaini ion Durati	ting Acti tion Co	ivity % Current Start mplete	t Current Finis	n Late Start	Late Finish	Total M71 Remarks Float	Oct 71	2023 Nov 72	Dec 73	2024 Jan 74
14-2010	Construction of Box Culvert (118m, 1.7m/d)	1	70	11	85% 15-May-23 A	A 10-Nov-23	25-Sep-23	05-Oct-23	-36		Construction of Box Culvert (118m, 1.7m/d)	
14-2020	Backfill, Compaction & Testing	6	65	20	70% 29-Aug-23 A	A 10-Dec-23	23-Feb-24	13-Mar-24	94			Backfill, Comp	paction & Testing
West Culvert (2.	5m x 2.5m x 102m)	11	11 1	111	31-Oct-23	18-Feb-24	14-Feb-24	03-Jun-24	106				
14-3000	Excavation to Formation	6	60	60	0% 31-Oct-23	29-Dec-23	14-Feb-24	13-Apr-24	106				Excavation to Formation
14-3010	Construction of Box Culvert (102m, 1.7m/d)	6	60	60	0% 30-Nov-23	28-Jan-24	15-Mar-24	13-May-24	106				
14-3020	Backfill, Compaction & Testing	6	60	60	0% 21-Dec-23	18-Feb-24	05-Apr-24	03-Jun-24	106				
Earthing Syste	m	18	80 2	215	28-Apr-22 A	01-Jun-24	21-Nov-23	22-Jun-24	21				
16-1900-2(6)	Installation of Ground Earthing Mesh	18	80 2	215	0% 28-Apr-22 A	A 01-Jun-24	21-Nov-23	22-Jun-24	21		- <u>-</u>		
Works By CLP		9	90	90	28-Nov-23	26-Feb-24	30-Jan-24	29-Apr-24	63				
Installation of T	ransmission System	<u> </u>	90	90	28-Nov-23	26-Feb-24	30-Jan-24	29-Apr-24	63				
15-0900	Completion of Civil Provision for Transmission		0	0	0%	28-Nov-23		30-Jan-24	63			Completion of Civil Provision for Tr	ransmission
15-1000	Construction of Transmission System	<u>(</u>	90	90	0% 29-Nov-23	26-Feb-24	31-Jan-24	29-Apr-24	63				

3-Month Rolling Programme (October 2023)	Actual Work	Critical Remaining Work	♦	Actrua
PAGE 17 OF 17	Remaining Work	♦ ♦ Milestone	•	Critical

Appendix B Summary of Implementation Status of Environmental Mitigation

Appendix B

Table B.1	Implementation Schedule for Air Quality Measures for the IWMF at the artificial island near SKC
	implementation Schedule for All Quality measures for the IWMF at the artificial Island hear SKC

				Imple	ementa	ation S	tages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
S3b.8.1	 <u>Air Pollution Control (Construction Dust)</u> <u>Regulation & Good Site Practices</u> Use of regular watering, with complete coverage, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather. Use of frequent watering for particularly dusty construction areas and areas close to ASRs. Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines. Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs. Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. Establishment and use of vehicle wheel and body washing facilities at the exit points of the site. Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading 	Work site / During the construction period	Contractor					Air Pollution Control (Construction Dust) Regulation	Implemented 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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	Environmental Dretestian	Lessting (Imple	ementa	ation S	tages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des C O Dec			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 NO_x; tighten emission limit for halfhourly and daily NO_x to 160 mg/m³ and 80 mg/m₃ respectively; Well-mixed feed waste: to minimize the fluctuation of pollutant loading on the flue gas treatment system; Two more AQMSs would be set up at South Lantau and Shek Kwu Chau respectively; Limit levels will be set under the IWMF DBO contract to require that waste feed shall cease if any of the air pollutant has exceeded 95% of the emission 	design & operation phase	Agent						Remarks
	concentration limit as stipulated in the Special Process license;								

				Imple	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								

				Imple	ementa	ation S	tages*	Relevant Legislation and Guidelines	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	and	Status and Remarks
	pollution control residues shall be collected and tested for conformance to the Incineration Residue Pollution Control Limits and leachability criteria. The Contractor shall not dispose of any of the treated fly ash and air pollution control residues in the shipload which the samples are taken until the test results confirm that the samples conform to the limits and the criteria. If the test result confirm that any one of the samples does not conform to the limits and the criteria, the Contractor shall be required to sample and test every shipload of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit for the next six months.								
	 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			✓		Document for Application for Variation of Environmental Permit (EP-	N/A

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

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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
	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

					Imple	ementa	ation S	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementa Agent	tion	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 any opening of the any opening to the any opening of the building should be located facing away from any NSRs; and 	Within IWMF area / Construction Period	EPD and contractors	its			×		EIAO-TM	N/A

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					Implementation Stages*		Relevant			
EIA	IA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	Implementation Status and Remarks
-	<u>}</u>	 Voluntary Enhancement Measure 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 Measures / Mitigation Measures	Location / Timing	Implementation Agent	Impl	ementa	ation S	tages*	Relevant Legislation and Guidelines	Implementation Status and Remarks
EIA Ref				Des	С	0	Dec		
S5b.8.1.1	MeasuresDrainage and Construction Site RunoffThe site practices outlined in ProPECC PN1/94 "Construction Site Drainage" shouldbe followed as far as practicable in orderto minimise surface runoff and the chanceof erosion. These practices include thefollowing items:• At the start of site establishment, perimeter cut-off drains to direct off- site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implementedChannels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the contractor prior to the commencement of construction.• Boundaries of earthworks should be surrounded by dykes or embankments for flood protection, as necessary.• Sand/silt removal facilities such as sand/silt traps and sediment basins	Work site / During the construction period	Contractor						Deficiency of Mitigation Measures but rectified by the Contractor

				Imple	ement	ation S	ion 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. 								

	Environmental Protection Measures / Mitigation Measures			Implen		tion S	tages*		
EIA Ref		Location / Timing	Implementation Agent	Des	С	0	Dec	-	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.								

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				Imple	ementa	tion Sta	ages*	Relevant	
EIA Ref	Environmental Protection ef Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
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.		Contractor		*			EIAO-TM; ProPECC PN 1/94; WPCO	Implemented 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	Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas which	Work site / During the construction period	Contractor		•			EIAO-TM; ProPECC PN 1/94; WPCO; WDO	Implemented

	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	
	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.	During the construction	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:	During the 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. 								

				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
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		Work site / During the marine construction period	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;								

				Impl	ementa	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	
	 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	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	
	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	Operational Phase Discharges 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	site / During	IWMF Operator	×		V		WPCO; WDO	N/A

				Imple	ementa	ation Sta	ages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	compliance with the Waste Disposal Ordinance.								
S5b.8.2.5	<u>Refuse Entrapment</u> Collection and removal of floating refuse should be performed at regular intervals for keeping the water within the Project site boundary and the neighboring water free from rubbish.	Within the Project site / During the operational phase	IWMF Operator			~		WPCO	N/A
S5b.8.2.6		Transportat ion of Incineration Ash / During the operational phase	IWMF Operator			~			N/A

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

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

		Environmental Protection					Relevant		
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
6b.5.1.2	 <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

				Impl	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
6b.5.1.3	-	Timing Work Site/ During Design & Construction Period	Agent Contractor						and Remarks Implemented. N/A for demolition items
	 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 								

					Imple	ementa	ation S	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Implementation Timing Agent		tion	Des	С	Ο	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 contractor	its	~	✓			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 contractor	its					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	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	(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 tripticket 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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				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	
	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	<u>Chemical Wastes</u> Should chemical wastes be produced at the construction site, the Contractor would be required to register with EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste (such as explosive, flammable, oxidizing, irritant, toxic, harmful, or corrosive). The Contractor should employ a	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		Work Site/ During Construction Period	Contractor		×				Deficiency of Mitigation Measures but rectified by the Contractor
6b.5.1.1 6 – 6b.5.1.33	Biogas Generation 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

				Impleme	entati	ion S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des (;	0	Dec	Legislation and Guidelines	
6b.5.2.1	Measures - precautions during construction works; - precautions prior to entry of belowground services Good Site Practices 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.	IWMF Site/During Operation Period	IWMF Operator			✓		Guidelines Waste Disposal N Ordinance (Cap.354); Waste Disposal (Chemical Waste) (General) Regulation; ETWB TCW No. 1/2004	I/A
	 Waste Disposal Ordinance (Cap. 354) and Waste Disposal (Chemical Waste) (General) Regulation; Nomination of an approved person to be responsible for good site practice, arrangements for collection and effective disposal to an appropriate facility of all wastes generated at the site; Use of a waste haulier licensed to collect specific category of waste; A trip-ticket system should be included as one of the contractual requirements and implemented by the Environmental Team to monitor the disposal of solid wastes at landfills, and to control fly tipping. Reference should be made to ETWB TCW No. 31/2004. 								

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

				Impl	ementa	ation S	Stages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	• 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. 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. 	Fuel Oil Pipelines/ During Design, Construction and Operation Periods	IWMF Contractor	~	✓				N/A
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 Destaction			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								

				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	
	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. The handling and disposal								

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

	Environmental Protection			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	
	storage area should be bunded to contain at least 110% of the storage capacity of the largest containers or 20% of the total quantity of the chemicals/chemical wastes stored, whichever is the greater.								
	Storage containers shall be checked at regular intervals for their structural integrity and to ensure that the caps or fill points are tightly closed.								
	Chemical handling shall be conducted by trained workers under supervision.								
6b.6.3.2	 <u>Chemicals and Chemical Wastes Spillage</u> <u>Response</u> A Chemicals and/ or Chemical Wastes Spillage Response Plan shall be prepared by the operator to document in detail the appropriate response procedures for chemicals or chemical wastes spillage incidents. General procedures to be undertaken in case of chemicals/ chemical waste spillages are presented below. Training 	IWMF Site/ During Operation Period	IWMF Operator			✓			N/A
	 Training on spill response actions should be given to relevant staff. The training shall cover the followings: 								

	Environmental Protection			Imple	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	
	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/								

	Environmental Protection			Imple	ementa	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	
	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	 <u>Preventive Measures for Incineration Byproducts Handling</u> 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			V			N/A

	Environmental Protection			Imple	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	
	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 designated landfill site.								
6b.6.3.4 -6b.6.3.6	Incident Record After 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			✓		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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				Imple	ementa	ation S	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	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 <i>Risk-based Remediation Goals for</i> <i>Contaminated Land Management and the</i> <i>Guidance Note for Contaminated Land and</i> <i>Remediation.</i>								

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

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

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

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	Environmental Protection				Imple	ementa	tion St	tages*	Relevant	In a lange of the Otestan
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementa Agent	Implementation Des Agent		С	O 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 Ianding portal	Design te Contractor	eam,	~	 		✓	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		eam, WMF	√	✓	✓	~	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	•	eam, WMF	 Image: A start of the start of	✓	✓	√	EIAO-TM, Supporting Document for Application for Variation of the Environmental	Implemented for avoidance or construction works that may produce underwater acoustic disturbance, Vessel Travel Route implementation, training of staff; N/A for other

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	Environmental Protection			Imple	ementa	ation St	ages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	
	 Measures 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 (Phase 1); sheet piling works for 								
	construction of the shorter section of breakwater (Phase 1);								

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

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	Environmental Protection			Imple	emen	tation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	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.								
	Monitored exclusion zones								
	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								
	idle for 30 minutes, or until the								

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

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	Environmental Distoction			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
	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		Implementation Agent	Imple	ement	ation S	stages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing		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 								

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	Environmental Protection				Impl	ementation Stages*			Relevant	
EIA Ref	Measures / Mitigation Measures	Agent			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 Coral communities within and in	IWMF site	Design contractor, operator	team, IWMF	~	~	✓	•	EIAO-TM	Implemented, tagged coral found missing after hitting by typhoons
	 Colar 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	ement	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	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	Lesstion /		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		Implementation Agent	Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing		Des	С	0	Dec	Legislation and Guidelines	
	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	Stages*	Relevant		
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks	
	 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 (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. <i>Minimisation of Glare Disturbance</i>									

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Impl	ementa	ation St	ages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	
	 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, IWMF operator	•				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, IWMF operator	•	~	~	•	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 team, contractor, IWMF operator		 Image: A start of the start of	•		EIAO-TM	Implemented

Integrated Waste Management Facilities, Phase 1

	Environmental Protection	Location / Timing		Imple	ement	ation S	tages*	Relevant	Implementation Status and Remarks	
EIA Ref	Measures / Mitigation Measures		Implementation Agent	Des	С	0	Dec	Legislation and Guidelines		
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	Measures to minimise drainage and construction runoff	Work site	Contractor		✓		✓	EIAO-TM	N/A	

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	
	 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. 								

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Impl	ementa	tion S	tages*	Relevant		
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks	
	 Open stockpiles of construction materials, and construction wastes on- site should be covered with tarpaulin or similar fabric during rainstorms. 									
7b.8.3.48	 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 	Work site	Contractor		Ý			EIAO-TM	Implemented	
7b.8.3.49	regular basis. <u>Pest Control</u> 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 site	IWMF operator			~			N/A	

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Impl	ementa	ation Sta	ages*	Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	 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; WPCON	I/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. 								

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.8.4. 1 — 7b.8.4. 8	 Compensation of loss of important habitat of Finless Porpoise 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

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Impl	ementa	ation Stag	jes*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0 [Dec	Legislation and Guidelines	
	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	 <u>Additional Enhancement or</u> <u>Precautionary Measures</u> <u>Deployment of Artificial Reefs</u> Deployment of artificial reefs (ARs) is an enhancement measure for the 	Within the proposed marine park under this study	Project Proponent	✓		✓		EIAO-TM	N/A

Integrated Waste Management Facilities, Phase 1

Keppel Seghers – Zhen Hua Joint Venture

	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	
	 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 ARs, as well as 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 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

			Looption /			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	
8b.8.1.2	Measure to minimize loss of and disturbance on fisheries resources	IWMF site	Design to contractor	eam,	~	✓		v	EIAO-TM	N/A	
	 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 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		eam, 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

Keppel Seghers – Zhen Hua Joint Venture

						Imple	ementa	ation S	Stages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures		ation / ming	Implementation Agent		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. 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 	Work	site, IWMF	Design contractor, operator	team, IWMF	✓	~			EIAO-TM	Implemented
8b.8.1.7 - 8b.8.1.8	 Additional Enhancement / Precautionary Measures 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. Release of Fish Fry at Artificial Reefs 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 e park e waters en Soko	Project Proj	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	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 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 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. 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. Planting strip along the periphery of the project site. Selected tree species suitable for the coastal condition. 	Work site / During design & construction phases	Contractor	•	<i>✓</i>				N/A				

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

				Implement	ation S	tages*	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	ementa	ation S	tages*	Relevant	Implementation	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks	
S10b.10	Visual Mitigation and Aesthetic Design	Structures in IWMF /	Contractor	~	✓				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	

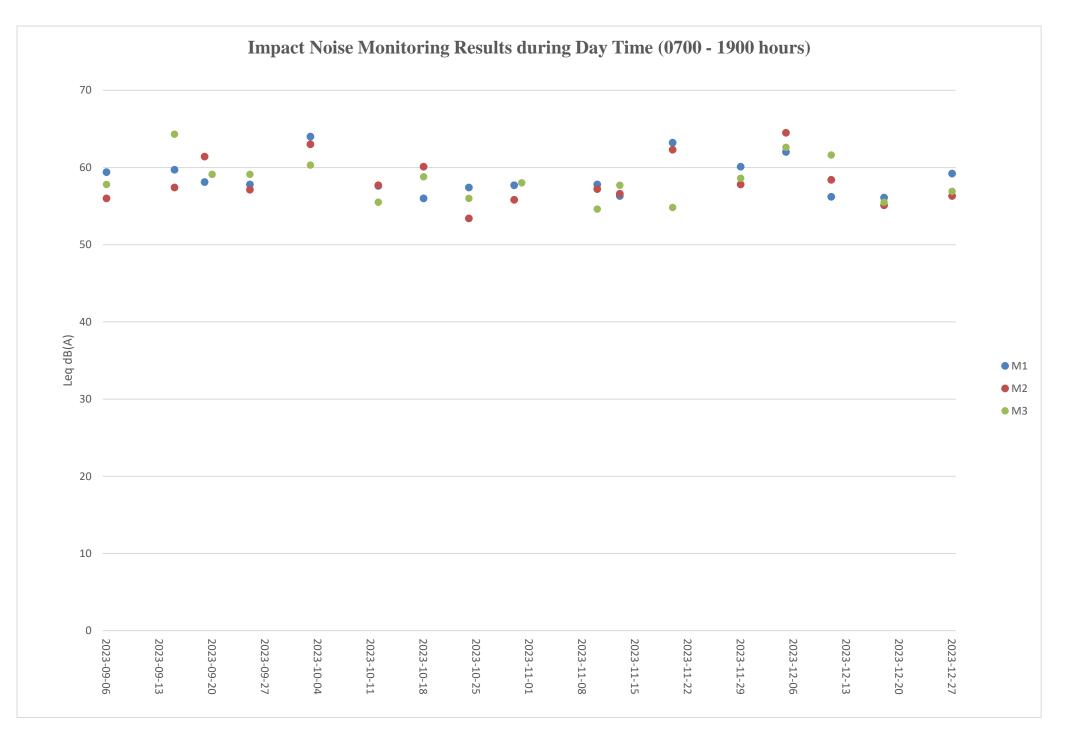
				Imple	menta	tion S	stages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	C O Dec		Legislation and Guidelines	Status and Remarks	
S10b.10 MVC-03	Optimization of the construction sequence and construction programme to 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

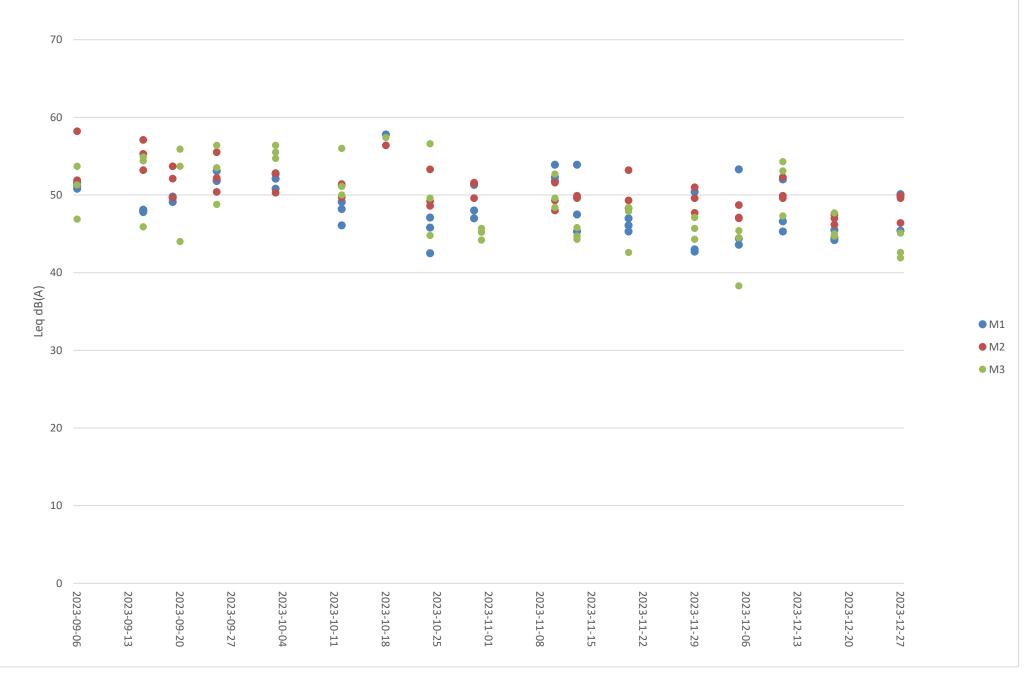
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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Imple Des	ementa C	tion S O	Stages* Dec	Relevant Legislation and Guidelines	Implementation Status and Remarks
S10b.10 MVO-03	Control of Operation Time	Project site / Durina	Contractor			√			N/A
1010000	Minimization of the frequency of waste	Operation							
	transportation to practical minimum (e.g. limit	phase							
	the reception of MSW from 8 am to 8 pm)	•							

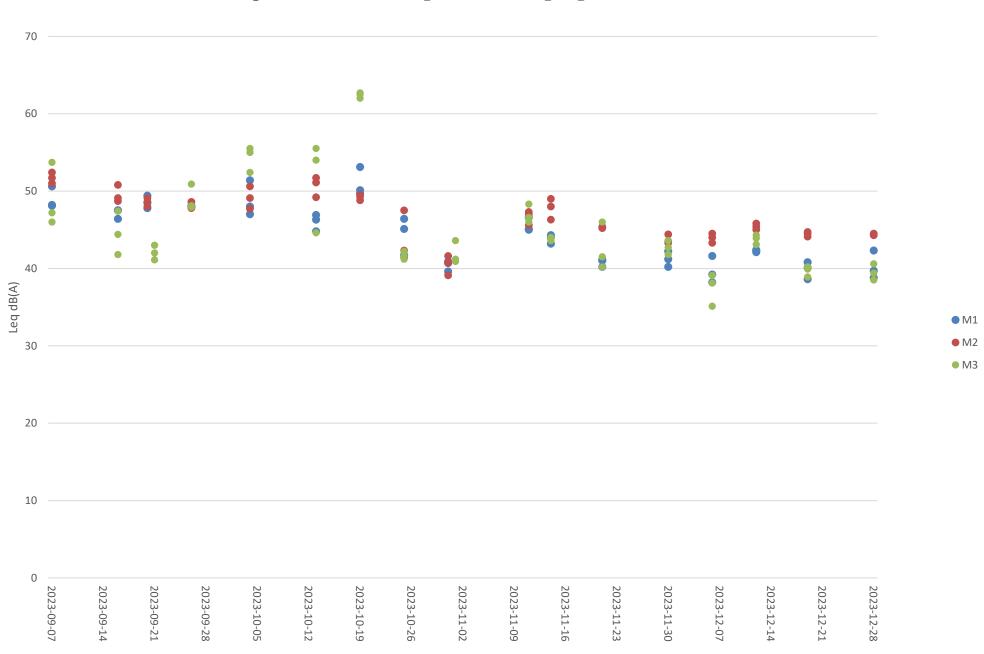
* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

Appendix C Noise Monitoring Data Trending





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	• Foundation works (including Driven H Pile and Socketed H Pile)	Completed
	• Pile cap construction	On-going
	• Structural steel work	On-going
	Superstructure construction	• On-going
Seawall portion	• Caisson extension works, from +3mPD to +6mPD, at Seawall A and B	On-going
	• Construction of wave wall along the vertical seawall above +3mPD	• 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:	03, 12, 18, 24, 30 October 2023 (Daytime)
	03&04, 12&13, 18&19, 24&25 and 30&31 October 2023 (Evening & Night time)
Parameter :	Leq 30min (Daytime), Leq 5min (Evening & Night time)
Noise source other than construction activities from the	Nil

Project:

Date	Start time		End time	Weather	L _{eq 30min} dB(A) / L _{eq 5min} dB(A)	Sound Level Meter Used	Calibrator Used	
03 Oct 2023	14:12	-	14:42	Sunny	64.0	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.35124528)	
	19:12	-	19:17		50.8		D: 110 75	
03 Oct	20:32	-	20:37	Fine	52.1	SVAN 971 (Serial	Rion NC-75	
2023	21:32	-	21:37		52.7	No. 96062)	(No.35124528)	
04.0	1:22	-	1:27		51.4		D: NO 75	
04 Oct 2023	3:17	-	3:22	Fine	48.0	SVAN 971 (Serial	Rion NC-75	
2025	5:12	-	5:17		47.0	No. 96062)	(No.35124528)	
12 Oct 2023	14:21	-	14:51	Sunny	57.6	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.35124528)	
12.0.4	19:06	-	19:11		48.2	CVANO71 (Carial	Diam NC 75	
12 Oct 2023	20:11	-	20:16	Fine	49.1	SVAN 971 (Serial	Rion NC-75	
2025	21:16	-	21:21		46.1	No. 96062)	(No.35124528)	
12.0 /	1:11	-	1:16		46.3	QVAN 071 (0 1	D: NO 75	
13 Oct 2023	3:11	-	3:16	Fine	46.9	SVAN 971 (Serial	Rion NC-75 (No.35124528)	
2023	5:06	-	5:11		44.8	No. 96062)	(100.35124528)	
18 Oct 2023	14:51	-	15:21	Fine	56.0	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.35124528)	
10.0	19:06	-	19:11		57.8			
18 Oct	20:01	-	20:06	Fine	59.3	SVAN 971 (Serial	Rion NC-75	
2023	21:11	-	21:16		54.8	No. 96062)	(No.35124528)	
10.0	1:11	-	1:16		53.1		D: NO 75	
19 Oct	3:26	-	3:31	Fine	50.1	SVAN 971 (Serial	Rion NC-75	
2023	5:21	-	5:26		49.7	No. 96062)	(No.35124528)	
24 Oct 2023	14:17	-	14:47	Sunny	57.4	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.35124528)	
24.0	19:22	-	19:27		47.1		D: NO 75	
24 Oct 2023	20:27	-	20:32	Fine	45.8	SVAN 971 (Serial	Rion NC-75	
2023	21:27	-	21:32		42.5	No. 96062)	(No.35124528)	
25.0	1:22	-	1:27		46.4	QUAN 071 (0 11	D: NO 75	
25 Oct 3	3:02	-	3:07	Fine	41.7	SVAN 971 (Serial No. 96062)	Rion NC-75	
2025	5:12	-	5:17		45.1	INO. 90002)	(No.35124528)	

Date	Start time		End time	Weather	L _{eq 30min} dB(A) / L _{eq 5min} dB(A)	Sound Level Meter Used	Calibrator Used	
30 Oct 2023	14:03	-	14:33	Sunny	57.7	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.35124528)	
20.0.4	19:13	-	19:18		51.3	QVANO71 (Carial	Diam NC 75	
30 Oct 2023	20:13	-	20:18	Fine	48.0	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.35124528)	
2023	21:28	-	21:33		47.0	NO. 90002)	(100.55124526)	
21.0.4	1:18	-	1:23		40.7	SVAN 071 (Carial	Dian NC 75	
31 Oct 2023	3:23	-	3:28	Fine	39.6	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.35124528)	
2023	5:23	-	5:28		40.9	110. 90002)	(110.33124328)	

Location:	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 1 (M1 / N_S1)
Monitoring date:	10, 13, 20, 29 November 2023 (Daytime)
	10&11, 13&14, 20&21 and 29&30 November 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	
10 Nov 2023	13:33	-	14:03	Sunny	57.8	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.35124527)	
10.11	19:08	-	19:13		51.8			
10 Nov	20:08	-	20:13	Fine	53.9	SVAN 971 (Serial	Rion NC-75	
2023	21:08	-	21:13		52.3	No. 96062)	(No.35124527)	
11.17	1:08	-	1:13		46.6		D: NG 75	
11 Nov	3:08	-	3:13	Fine	45.0	SVAN 971 (Serial	Rion NC-75	
2023	5:08	-	5:13		45.1	No. 96062)	(No.35124527)	
13 Nov 2023	13:42	-	14:12	Sunny	56.3	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.35124527)	
12 Mari	19:12	-	19:17		47.5	SVAN 071 (Seriel	Diam NC 75	
13 Nov 2023	20:12	-	20:17	Fine	53.9	SVAN 971 (Serial	Rion NC-75	
2025	21:07	-	21:12		45.3	No. 96062)	(No.35124527)	
14 Nov	1:07	-	1:12		44.0	SVAN 071 (Carial	Rion NC-75	
14 Nov 2023	3:07	-	3:12	Fine	43.2	SVAN 971 (Serial No. 96062)	(No.35124527)	
2025	5:12	-	5:17		44.3	110. 20002)	(10.33124321)	
20 Nov 2023	13:57	-	14:27	Sunny	63.2	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.35124527)	
20 Mars	19:12	-	19:17		47.0	SVAN 071 (Seriel	Diam NC 75	
20 Nov 2023	20:27	-	20:32	Fine	46.1	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.35124527)	
2025	21:17	-	21:22		45.3	100.90002)	(10.55124527)	
21 Mary	1:17	-	1:22		41.0	SVAN 071 (Carial	Dian NC 75	
21 Nov 2023	3:17	-	3:22	Fine	41.1	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.35124527)	
2025	5:17	-	5:22		40.2	NO. 90002)	(1N0.55124527)	
29 Nov 2023	13:50	-	14:20	Cloudy	60.1	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.35124527)	
29 Nov	19:10	-	19:15		50.4	SVAN 071 (Seriel	Rion NC-75	
29 Nov 2023	20:25	-	20:30	Fine	43.0	SVAN 971 (Serial No. 96062)	(No.35124527)	
2023	21:30	-	21:35		42.7	110. 70002)	(1N0.33124327)	
30 Nov	1:10	-	1:15		41.2	SVAN 971 (Serial	Rion NC-75	
2023	3:15	-	3:20	Fine	42.2	No. 96062)	(No.35124527)	
2025	5:20	-	5:25		40.2	100.90002)	(110.33124327)	

Location:	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 1 (M1 / N_S1)
Monitoring date:	05, 11, 18, 27 December 2023 (Daytime)
	05&06, 11&12, 18&19 and 27&28 November 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	L _{eq 30min} dB(A) / L _{eq 5min} dB(A)	Sound Level Meter Used	Calibrator Used
05 Dec 2023	13:45	-	14:15	Sunny	62.0	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.35124527)
05 D	19:20	-	19:25		53.3		Diam NG 75
05 Dec 2023	20:10	-	20:15	Fine	44.4	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.35124527)
2025	21:30	-	21:35		43.6	NO. 90002)	(10.55124527)
06 Dec	1:20	-	1:25		41.6	SVAN 071 (Seriel	Rion NC-75
2023	3:20	-	3:25	Fine	38.2	SVAN 971 (Serial No. 96062)	(No.35124527)
2025	5:05	-	5:10		39.2	NO. 90002)	(10.55124527)
11 Dec 2023	13:47	-	14:17	Sunny	56.2	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.35124527)
11 Daa	19:17	-	19:22		52.0	SVAN 071 (Seriel	Rion NC-75 (No.35124527)
11 Dec 2023	20:27	-	20:32	Fine	46.6	SVAN 971 (Serial No. 96062)	
2025	21:32	-	21:37		45.3	NO. 90002)	
12 Dec	1:27	-	1:32		42.1	SVAN 971 (Serial	Rion NC-75 (No.35124527)
2023	3:07	-	3:12	Fine	42.3	No. 96062)	
2023	5:07	-	5:12		42.4	NO. 90002)	
18 Dec 2023	13:17	-	13:47	Fine	56.1	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.35124527)
10 Dag	19:12	-	19:17		45.5	SVAN 071 (Seriel	D' NO 75
18 Dec 2023	20:17	-	20:22	Fine	44.2	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.35124527)
2025	21:17	-	21:22		44.5	NO. 90002)	(100.55124527)
19 Dec	1:42	-	1:47		40.1	SVAN 071 (Seriel	Rion NC-75
2023	3:22	-	3:27	Fine	38.6	SVAN 971 (Serial No. 96062)	(No.35124527)
2023	5:12	-	5:17		40.8	NO. 90002)	(10.33124327)
27 Dec 2023	13:47	-	14:17	Fine	59.2	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.35124527)
27 Dee	19:17	-	19:22		49.9	SVAN 071 (Seriel	Rion NC-75
27 Dec 2023	20:22	-	20:27	Fine	50.1	SVAN 971 (Serial No. 96062)	(No.35124527)
2023	21:12	-	21:17		45.4	110. 20002)	(110.33124327)
28 Dec	1:22	-	1:27		42.3	SVAN 971 (Serial	Rion NC-75
28 Dec 2023	3:27	-	3:32	Fine	39.7	No. 96062)	
2023	5:12	-	5:17		38.8	100.90002)	(No.35124527)

Location:	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 2 (M2 / N_S2)
Monitoring date:	03, 12, 18, 24, 30 October 2023 (Daytime)
	03&04, 12&13, 18&19, 24&25 and 30&31 October 2023 (Evening & Night time)
Parameter :	Leq 30min (Daytime), Leq 5min (Evening & Night time)
Noise source other than construction activities from the	Nil

Project:

Date	Start time		End time	Weather	$\frac{L_{eq \ 30min} dB(A) /}{L_{eq \ 5min} dB(A)}$	Sound Level Meter Used	Calibrator Used
03 Oct 2023	14:13	-	14:43	Sunny	63.0	SVAN 971 (Serial No. C119577)	Rion NC-75 (No.35124528)
02.0.4	19:18	-	19:23		50.3		D'an NO 75
03 Oct 2023	20:13	-	20:18	Fine	52.8	SVAN 971 (Serial No. C119577)	Rion NC-75 (No.35124528)
2025	21:18	-	21:23		52.8	NO. C119377)	(100.55124528)
04 Oct	1:18	-	1:23		50.6	SVAN 071 (Seriel	Rion NC-75
2023	3:23	-	3:28	Fine	49.1	SVAN 971 (Serial No. C119577)	(No.35124528)
2025	5:18	-	5:23		47.7	100. C119377)	(1N0.55124528)
12 Oct 2023	14:29	-	14:59	Sunny	57.7 ^[1]	SVAN 971 (Serial No. C119577)	Rion NC-75 (No.35124528)
12.0.4	19:09	-	19:14		49.7 ^[1]	SVAN 071 (Carial	Rion NC-75 (No.35124528)
12 Oct 2023	20:29	-	20:34	Fine	51.4 ^[1]	SVAN 971 (Serial No. C119577)	
2025	21:14	-	21:19		51.2 ^[1]	100. C119377)	
13 Oct	1:19	-	1:24		51.7 ^[1]	SVAN 971 (Serial	Rion NC-75 (No.35124528)
2023	3:09	-	3:14	Fine	51.1 ^[1]	No. C119577)	
2025	5:14	-	5:19		49.2 ^[1]		
18 Oct 2023	15:01	-	15:31	Fine	60.1	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.35124528)
10.0.4	19:26	-	19:31	56.4	Diam NO 75		
18 Oct	20:06	-	20:11	Fine	58.7	SVAN 971 (Serial	Rion NC-75
2023	21:21	-	21:26		53.3	No. 96063)	(No.35124528)
10.0.4	1:26	-	1:31		49.5	SVAN 071 (Seriel	Rion NC-75
19 Oct 2023	3:26	-	3:31	Fine	48.8	SVAN 971 (Serial No. 96063)	(No.35124528)
2025	5:16	-	5:21		49.3	INO. 90003)	(100.55124526)
24 Oct 2023	14:00	-	14:30	Sunny	53.4	SVAN 971 (Serial No. 103449)	Rion NC-75 (No.35124528)
24.0.4	19:10	-	19:15		48.6	QUAN 071 (Carial	Diam NC 75
24 Oct 2023	20:25	-	20:30	Fine	49.2	SVAN 971 (Serial No. 103449)	Rion NC-75 (No.35124528)
2023	21:15	-	21:20		53.3	INU. 103449)	(1N0.33124328)
25 Oct	1:35	-	1:40		47.5	SVAN 071 (Seriel	Rion NC-75
25 Oct 2023	3:20	-	3:25	Fine	41.4	SVAN 971 (Serial No. 103449)	(No.35124528)
2023	5:10	-	5:15		42.3	110. 103449)	(110.33124328)

Date	Start time		End time	Weather	L _{eq 30min} dB(A) / L _{eq 5min} dB(A)	Sound Level Meter Used	Calibrator Used
30 Oct 2023	13:45	-	14:15	Sunny	55.8	SVAN 971 (Serial No. 103449)	Rion NC-75 (No.35124528)
20.0.4	19:15	-	19:20	51.6		SVAN 071 (Seriel	Dian NC 75
30 Oct 2023	20:20	-	20:25	Fine	51.5	SVAN 971 (Serial No. 103449)	Rion NC-75 (No.35124528)
2025	21:20	-	21:25	21:25 49.6	49.6		
21.0.4	1:20	-	1:25		39.1	SVAN 071 (Seriel	Diam NC 75
31 Oct 2023	3:10	-	3:15	Fine	40.7	SVAN 971 (Serial	Rion NC-75
2025	5:25	-	5:30		41.6	No. 103449)	(No.35124528)

Note:

[1] Noise meter SVAN 971 (Serial No. C119577) was deployed for impact noise monitoring on 12/10/2023 at M2 after its calibration certificate was expired on 10/10/2023, data collected on 12/10/2023 at M2 is for reference only.

Location:	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 2 (M2 / N_S2)
Monitoring date:	10, 13, 20, 29 November 2023 (Daytime)
	10&11, 13&14, 20&21 and 29&30 November 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
10 Nov 2023	13:39	-	14:09	Sunny	57.2	SVAN 971 (Serial No. 103449)	Rion NC-75 (No.35124527)
10.11	19:09	-	19:14		51.6		D: NG 75
10 Nov	20:09	-	20:14	Fine	49.3	SVAN 971 (Serial	Rion NC-75
2023	21:09	-	21:14		48.0	No. 103449)	(No.35124527)
11 N	1:09	-	1:14		47.0		D: NO 75
11 Nov	3:09	-	3:14	Fine	45.6	SVAN 971 (Serial	Rion NC-75
2023	5:09	-	5:14		47.3	No. 103449)	(No.35124527)
13 Nov 2023	13:21	-	13:51	Sunny	56.6	SVAN 971 (Serial No. 103449)	Rion NC-75 (No.35124527)
12 Mars	19:16	-	19:21		49.9	SVAN 071 (Seriel	Rion NC-75 (No.35124527)
13 Nov 2023	20:06	-	20:11	Fine	49.7	SVAN 971 (Serial	
2025	21:01	-	21:06		49.6	No. 103449)	
14 N	1:06	-	1:11		46.3	$\mathbf{GVAN} = 0.71 (0 + 0.71)$	Rion NC-75 (No.35124527)
14 Nov	3:06	-	3:11	Fine	49.0	SVAN 971 (Serial No. 103449)	
2023	5:31	-	5:36		48.0	100.105449)	
20 Nov 2023	13:54	-	14:24	Sunny	62.3	SVAN 971 (Serial No. 103449)	Rion NC-75 (No.35124527)
20 Mars	19:14	-	19:19		48.3	SVAN 071 (Seriel	D: NO 75
20 Nov 2023	20:04	-	20:09	Fine	53.2	SVAN 971 (Serial No. 103449)	Rion NC-75 (No.35124527)
2025	21:19	-	21:24		49.3	100.105449)	(100.55124527)
01 N	1:14	-	1:19		45.3	$\mathbf{GVAN} = 0.71 (0 + 0.71)$	Diam NC 75
21 Nov	3:14	-	3:19	Fine	45.4	SVAN 971 (Serial	Rion NC-75
2023	5:24	-	5:29		45.2	No. 103449)	(No.35124527)
29 Nov 2023	13:32	-	14:02	Cloudy	57.8	SVAN 971 (Serial No. 103449)	Rion NC-75 (No.35124527)
20 Mars	19:07	-	19:12		51.0	SVAN 071 (Seriel	Dian NC 75
29 Nov 2023	20:12	-	20:17	Fine	49.6	SVAN 971 (Serial No. 103449)	Rion NC-75 (No.35124527)
2023	21:17	-	21:22		47.7	INU. 103449)	(1N0.33124327)
20 No.	1:12	-	1:17		44.4	QUANO71 (Casi-1	Dian NC 75
30 Nov	3:07	-	3:12	Fine	43.3	SVAN 971 (Serial	Rion NC-75
2023	5:02	-	5:07		43.5	No. 103449)	(No.35124527)

Location:	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 2 (M2 / N_S2)
Monitoring date:	05, 11, 18, 27 December 2023 (Daytime)
	05&06, 11&12, 18&19 and 27&28 November 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	L _{eq 30min} dB(A) / L _{eq 5min} dB(A)	Sound Level Meter Used	Calibrator Used
05 Dec 2023	13:47	-	14:17	Sunny	64.5	SVAN 971 (Serial No. 103449)	Rion NC-75 (No.35124527)
05 D	19:12	-	19:17		48.7		D: NO 75
05 Dec	20:12	-	20:17	Fine	47.1	SVAN 971 (Serial	Rion NC-75
2023	21:17	-	21:22		47.0	No. 103449)	(No.35124527)
06 Data	1:27	-	1:32		44.5	SVAN 071 (Carial	Dian NC 75
06 Dec 2023	3:22	-	3:27	Fine	43.3	SVAN 971 (Serial No. 103449)	Rion NC-75 (No.35124527)
2025	5:07	-	5:12		44.0	NO. 105449)	(100.55124527)
11 Dec 2023	13:30	-	14:00	Sunny	58.4	SVAN 971 (Serial No. 103449)	Rion NC-75 (No.35124527)
11 Daa	19:15	-	19:20		52.3	SVAN 071 (Seriel	Rion NC-75 (No.35124527)
11 Dec 2023	20:10	-	20:15	Fine	49.9	SVAN 971 (Serial No. 103449)	
2025	21:15	1	21:20		49.6	INO. 103449)	
12 Dec	1:25	1	1:30		45.4	SVAN 971 (Serial	Rion NC-75 (No.35124527)
2023	3:20	1	3:25	Fine	45.0	No. 103449)	
2025	5:05	1	5:10		45.8		
18 Dec 2023	13:32	-	14:02	Fine	55.1	SVAN 971 (Serial No. 103449)	Rion NC-75 (No.35124527)
10 Dag	19:12	-	19:17		47.5	SVAN 071 (Seriel	D: NO 75
18 Dec 2023	20:17	-	20:22	Fine	47.0	SVAN 971 (Serial No. 103449)	Rion NC-75 (No.35124527)
2025	21:12	-	21:17		46.2	NO. 105449)	(100.55124527)
10 Daa	1:42	-	1:47		44.5	SVAN 071 (Carial	Dian NC 75
19 Dec 2023	3:27	-	3:32	Fine	44.7	SVAN 971 (Serial No. 103449)	Rion NC-75 (No.35124527)
2025	5:17	-	5:22		44.1	NO. 105449)	(100.55124527)
27 Dec 2023	13:57	-	14:27	Fine	56.3	SVAN 971 (Serial No. 103449)	Rion NC-75 (No.35124527)
27 Dee	19:22	1	19:27		49.9	SVAN 071 (Seriel	Dian NC 75
27 Dec 2023	20:22	-	20:27	Fine	49.6	SVAN 971 (Serial No. 103449)	Rion NC-75 (No.35124527)
2023	21:17	-	21:22		46.4	110. 103447)	(110.33124327)
28 Dec	1:27	-	1:32		44.5	SVAN 971 (Serial	Rion NC-75
28 Dec 2023	3:27	-	3:32	Fine	44.3	No. 103449)	
2023	5:12	-	5:17		44.3	110.103447)	(No.35124527)

Location:	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 3 (M3 / N_S3)
Monitoring date:	03, 12, 18, 24, 31 October 2023 (Daytime)
	03&04, 12&13, 18&19, 24&25 and 31 October & 01 November 2023 (Evening & Night time)
Parameter :	Leq 30min (Daytime), Leq 5min (Evening & Night time)
Noise source other than construction	Air-conditioner

Date	Start time		End time	Weather	L _{eq 30min} dB(A) / L _{eq 5min} dB(A)	Sound Level Meter Used	Calibrator Used
03 Oct 2023	14:09	-	14:39	Sunny	60.3	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.35124528)
	19:09	-	19:14		55.5		
03 Oct	20:04	-	20:09	Fine	56.4	SVAN 971 (Serial	Rion NC-75
2023	21:34	-	21:39		54.7	No. C132261)	(No.35124528)
04.0	1:04	-	1:09		55.5		
04 Oct	3:34	-	3:39	Fine	55.0	SVAN 971 (Serial	Rion NC-75
2023	5:19	-	5:24		52.4	No. C132261)	(No.35124528)
12 Oct 2023	14:15	-	14:45	Sunny	55.5	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.35124528)
12.0.4	19:05	-	19:10		56.0	SVAN 071 (Carial	Rion NC-75 (No.35124528)
12 Oct 2023	20:10	-	20:15	Fine	51.1	SVAN 971 (Serial No. C132261)	
2025	21:25	-	21:30		50.0	100. C152201)	
12 0 -+	1:10	-	1:15		55.5	SVAN 071 (Carial	Rion NC-75 (No.35124528)
13 Oct 2023	3:30	-	3:35	Fine	54.0	SVAN 971 (Serial No. C132261)	
2025	5:25	-	5:30		44.6		
18 Oct 2023	14:48	-	15:18	Fine	58.8	SVAN 971 (Serial No. 103449)	Rion NC-75 (No.35124528)
10.0	19:28	-	19:33		57.4		
18 Oct	20:48	-	20:53	Fine	61.1	SVAN 971 (Serial	Rion NC-75
2023	21:43	-	21:48		59.9	No. 103449)	(No.35124528)
10.0.4	1:13	-	1:18		62.5	QUANO71 (Carial	Diam NC 75
19 Oct	2:58	-	3:03	Fine	62.7	SVAN 971 (Serial	Rion NC-75
2023	5:03	-	5:08		62.0	No. 103449)	(No.35124528)
24 Oct 2023	14:08	-	14:38	Sunny	56.0	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.35124528)
24.0.4	19:03	-	19:08		56.6		D: NO 75
24 Oct 2023	20:43	-	20:48	Fine	49.6	SVAN 971 (Serial	Rion NC-75
2023	21:28	-	21:33]	44.8	No. 96063)	(No.35124528)
25.0.4	1:33	-	1:38		41.6	QUAN 071 (0	Dian NO 75
25 Oct	3:18	-	3:23	Fine	41.2	SVAN 971 (Serial	Rion NC-75
2023	5:18	-	5:23		42.2	No. 96063)	(No.35124528)

Date	Start time		End time	Weather	L _{eq 30min} dB(A) / L _{eq 5min} dB(A)	Sound Level Meter Used	Calibrator Used
31 Oct 2023	14:03	-	14:33	Sunny	58.0	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.35124528)
31 Oct 2023	19:08 20:18	-	19:13 20:23	Fine	45.2 45.7	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.35124528)
	21:18 1:18	-	21:23 1:23		44.2 43.6	,	
01 Nov 2023	3:28	-	3:33	Fine	40.9	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.35124528)
_0_0	5:23	-	5:28		41.2	110. 90003)	(110.33124320)

Location:	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 3 (M3 / N_S3)
Monitoring date:	10, 13, 20, 29 November 2023 (Daytime)
	10&11, 13&14, 20&21 and 29&30 November 2023 (Evening & Night time)
Parameter :	Leq 30min (Daytime), Leq 5min (Evening & Night time)
Noise source other than construction activities from the Project:	Construction works of air quality monitoring station

Date	Start time		End time	Weather	$\frac{L_{eq\;30min}dB(A)/}{L_{eq\;5min}dB(A)}$	Sound Level Meter Used	Calibrator Used
10 Nov 2023	16:30	-	17:00	Sunny	54.6	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.35124527)
10 Nov 2023	19:10	-	19:15	Fine	52.7	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.35124527)
	20:05	-	20:10		48.4		
	21:15	-	21:20		49.6		
11 Nov	1:10	-	1:15	Fine	46.0	SVAN 971 (Serial	Rion NC-75 (No.35124527)
2023	3:20	-	3:25		48.3		
2025	5:05	-	5:10		46.6	No. 96063)	
13 Nov 2023	16:05	-	16:35	Sunny	57.7	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.35124527)
13 Nov	19:10	-	19:15		44.7	SVAN 071 (Seriel	Rion NC-75 (No.35124527)
13 Nov 2023	20:05	-	20:10	Fine	44.3	SVAN 971 (Serial No. 96063)	
2025	21:25	-	21:30		45.8	NO. 90003)	
14 Nov	1:20	-	1:25	Fine	43.6	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.35124527)
2023	3:20	-	3:25		43.8		
2023	5:20	-	5:25		44.0		
20 Nov 2023	16:46	-	17:16	Sunny	54.8	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.35124527)
20 Nov	19:21	-	19:26		47.9	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.35124527)
20 Nov 2023	20:11	-	20:16	Fine	48.4		
2025	21:31	-	21:36		42.6		
21 Mars	1:06	-	1:11		46.0	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.35124527)
21 Nov 2023	3:21	-	3:26	Fine	40.2		
2025	5:11	-	5:16		41.5		
29 Nov 2023	14:45	-	15:15	Cloudy	58.6	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.35124527)
29 Nov	19:10	-	19:15	Fine	45.7	SVAN 971 (Serial	Rion NC-75
29 Nov 2023	20:15	-	20:20		47.1	No. 96063)	(No.35124527)
2023	21:20	-	21:25		44.3	110. 20003)	(110.33124327)
30 Nov 2023	1:15	-	1:20	Fine	42.7	SVAN 971 (Serial	Rion NC-75
	3:10	-	3:15		41.8	No. 96063)	(No.35124527)
	5:15	-	5:20		43.6		

Location:	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 3 (M3 / N_S3)
Monitoring date:	05, 11, 18, 27 December 2023 (Daytime)
	05&06, 11&12, 18&19 and 27&28 November 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	$\frac{L_{eq 30min} dB(A)}{L_{eq 5min} dB(A)}$	Sound Level Meter Used	Calibrator Used
05 Dec 2023	13:40	-	14:10	Sunny	62.6	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.35124527)
05 Dec 2023	19:20	-	19:25	Fine	44.5	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.35124527)
	20:40	-	20:45		45.4		
	21:15	-	21:20		38.3		
	1:30	-	1:35	Elect	38.1	QUANO71 (Carial	Rion NC-75 (No.35124527)
06 Dec 2023	3:25	-	3:30	Fine	35.1	SVAN 971 (Serial No. 96063)	
2025	5:15	-	5:20		39.1	NO. 90003)	
11 Dec 2023	13:41	-	14:11	Sunny	61.6	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.35124527)
11 D.	19:16	-	19:21	Elere	54.3	QUANO71 (Carial	Rion NC-75 (No.35124527)
11 Dec	20:11	-	20:16	Fine	47.3	SVAN 971 (Serial	
2023	21:11	-	21:16		53.1	No. 96063)	
12 Dag	1:06	-	1:11	Fine	44.3	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.35124527)
12 Dec	3:21	-	3:26		43.1		
2023	5:11	-	5:16		43.9		
18 Dec 2023	13:10	-	13:40	Fine	55.5	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.35124527)
10 Dag	19:10	-	19:15	Fine	44.7	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.35124527)
18 Dec 2023	20:20	-	20:25		47.7		
2025	21:15	-	21:20		45.0		
19 Dec	1:40	-	1:45	Fine	40.2	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.35124527)
2023	3:30	-	3:35		39.9		
2025	5:10	-	5:15		38.9		
27 Dec 2023	13:47	-	14:17	Fine	56.9	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.35124527)
27 Dec	19:17	1	19:22	Fine	42.6	SVAN 971 (Serial	Rion NC-75
27 Dec 2023	20:17	-	20:22		45.1	No. 96063)	(No.35124527)
	21:17	-	21:22		41.9	110. 70003)	(110.33127327)
28 Dec 2023	1:27	-	1:32	Fine	38.5	SVAN 971 (Serial	Rion NC-75
	3:27	-	3:32		40.6	No. 96063)	(No.35124527)
	5:17	1	5:22		39.4		

Appendix D Waste Flow Table



Monthly Summary Waste Flow Table for _____

<u>2018 (year)</u>

Project : Integrated Waste Management Facilities, Phase 1

Contract No.: EP/SP/66/12

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

Notes:

(1) Broken concrete for recycling into aggregates.

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

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

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

(5) Materials recycled.



Monthly Summary Waste Flow Table for



2019

(year)

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

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

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

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

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

(5) Materials recycled.



Monthly Summary Waste Flow Table for _____



2020

(year)

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

(1) Broken concrete for recycling into aggregates.

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

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

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

(5) Materials recycled.



Monthly Summary Waste Flow Table for _____

<u>2021 (year)</u>

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

(1) Broken concrete for recycling into aggregates.

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

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

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

(5) Materials recycled.



Monthly Summary Waste Flow Table for



2022

(year)

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

(1) Broken concrete for recycling into aggregates.

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

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

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

(5) Materials recycled.



Monthly Summary Waste Flow Table for _



2023

(year)

Project : Ir	: Integrated Waste Management Facilities, Phase 1									Contract No.: EP/SP/66/12				
		Actual	Quantities of	of Inert C&E	Materials Ge	enerated Mo	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 (see Note 4)	Disposed as Public Fill (see Note 4)	Imported Fill Sand (see Note 4)	Imported Fill Public fill (see Note 4)	Imported Fill Rock (see Note 4)	Metals (see Note 5)	Paper/ cardboard packaging (see Note 5)	Plastics (see Note 2, 5)	Chemica	l Waste	Others, e.g. general refuse (see Note 3)
	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³	(in ,000m ³)		$(in,000m^3)$	T	(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m ³)
Jan	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	36.0011	0	0	36.0011	0	0	0	0	0	0.2150	0	0	0	0.1365
May	21.8900	0	0	21.8900	0	0	0	0	0	0.3160	0	0	0	0.1495
Jun	8.8878	0	0	8.8878	0	0	0	0	0	0	0	0	0	0.1950
Sub-total	140.2812	0	0	140.2812	0	0	0	4.1560	11.1501	0.8460	0.0007	0	0	0.8515
Jul	2.2233	0	0	2.2233	0	0	0	0	0	0.3870	0	0	0	0.1495
Aug	4.4200	0	0	4.4200	0	0	0	0	0	0	0	0	0	0.2015
Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2860
Oct	0	0	0	0	0	0	0	0.4025	0	0.3770	0	0	0	0.2405
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3510
Dec	0	0	0	0	0	0	0	0.4960	0	0	0	0	0	0.3835
Total	146.9245	0	0	146.9245	0	0	0	5.0545	11.1501	1.6100	0.0007	0	0	2.4635

(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 = $2T/m^3$.

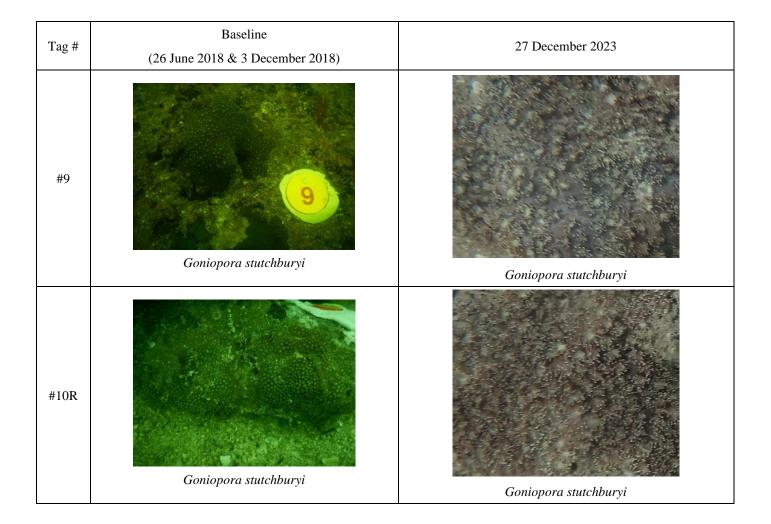
(5) Materials recycled.

Appendix E Photo Records for Coral Monitoring

Photo Plate for Tagged and Re-tagged Corals at Control Site during the 20th Quarterly Coral Monitoring during Construction Phase on 27 December 2023

Tag #	Baseline	27 December 2023
#1	(26 June 2018 & 3 December 2018)	Goniopora stutchburyi
#2R	Goniopora stutchburyi	Goniopora stutchburyi
#3	Fsammocora superficialis	Fsammocora superficialis
#4	Turbinaria peltata	Turbinaria peltata

Tag #	Baseline (26 June 2018 & 3 December 2018)	27 December 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



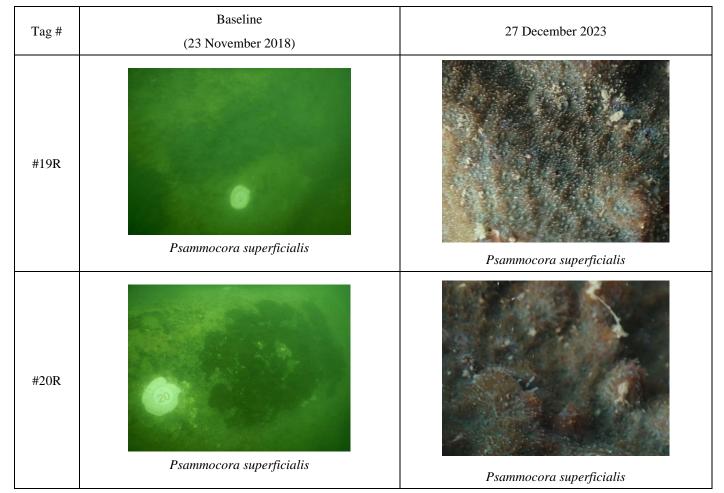
Notes:

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

Baseline 27 December 2023 Tag # (23 November 2018) #11R Cyphastrea serailia Cyphastrea serailia #12R Favites chinensis Favites chinensis #13R Turbinaria peltata Turbinaria peltata #14R Favites chinensis Favites chinensis

Photo Plate for Re-tagged Corals at Indirect Impact during the 20th Quarterly Coral Monitoring during Construction Phase on 27 December 2023

Tag #	Baseline (23 November 2018)	27 December 2023
#15R	Goniopora stutchburyi	Goniopora stutchburyi
#16R	Psammocora superficialis	Fsammocora superficialis
#17R	Favites chinensis	Favites chinensis
#18R	Fsammocora superficialis	Fsammocora superficialis



Notes:

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

Appendix F Photo Records for White-bellied Sea Eagle Monitoring

Photo Plate for 64th Monthly WBSE monitoring



One adult recorded flying around the nest area on 26 October 2023

Photo Plate for 65th Monthly WBSE monitoring



Photo Plate for 66th Monthly WBSE monitoring



One Adult Female WBSE staying in nest for incubation on 27 December 2023

Appendix G Complaint Log

Integrated Waste Management Facilities, Phase 1

	Statistical Summary of Environmental Complaints										
Reporting Period	En Frequency	Environmental Complaint Statistics Frequency Cumulative Complaint Nature									
1 Oct 2023- 31 Oct 2023	0	4	N/A								
1 Nov 2023- 30 Nov 2023	0	4	N/A								
1 Dec 2023- 31 Dec 2023	0	4	N/A								

	Statistical Summary of Environmental Summons									
Reporting	En	Environmental Summons Statistics								
Period	Frequency	Cumulative	Details							
1 Oct 2023- 31 Oct 2023	0	0	N/A							
1 Nov 2023- 30 Nov 2023	0	0	N/A							
1 Dec 2023- 31 Dec 2023	0	0	N/A							

Reporting	Environmental Prosecution Statistics								
Period	Frequency	Cumulative	Details						
1 Oct 2023- 31 Oct 2023	0	0	N/A						
1 Nov 2023- 30 Nov 2023	0	0	N/A						
1 Dec 2023- 31 Dec 2023	0	0	N/A						

Statistical Summary of Environmental Prosecution