APPENDIX E

Implementation Schedule for the Project

EIA REPORT	EM&A ACTION		OBJECTIVES OF THE MEASURE AND	LOCATION OF	WHO TO IMPLEMENT REQUIREMENT MEASURE?* MEASURE?*	STANDARD OR REQUIREMENTS FOR MEASURE TO		
REF.	REF.	RECOMMENDED MITIGATION MEASURES	MAIN CONCERNS TO ADDRESS	MEASURE	MEASURE?	D	СО	ACHIEVE?
AIR QUA	LITY							
3.2.6	A.1	Use of approved Non-road Mobile Machinery (NRMM) for all site works areas	To minimise pollutants from exhaust emissions of mobile plant and equipment	All works areas	Construction Contractor		√	Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation
3.6.2	A.2	Off-site Pre-fabrication of key elements for TH2 and TH3	To reduce air quality impacts associated with construction of new buildings	TH2 and TH3	Engineer + Construction Contractor	√	✓	Additional measure for minimisation of detrimental impacts to wildlife and the local community
3.7.2	A.3	 Regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty materials storage piles near ASRs. Side enclosure of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, spraying with water shall be carried out Tarpaulin covering of all dusty vehicle loads transported to and from the Site Use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry weather Imposition of speed controls for vehicles on Site Establishment and use of vehicle wheel and body washing facilities at the exit of the Site to minimise the fugitive dust emissions generated Site layout should be carefully planned such that machinery and dust causing activities (e.g. 	To reduce fugitive dust emissions from works areas	All works areas	Contractor			Air Pollution Control (Construction Dust) Regulation

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		haul roads and stockpiling areas) could be located away from the ASR as far as possible 9. Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs 10. Solid screens are recommended to be erected around any dusty construction activities						
NOISE								
4.6.3	N.1	Prohibition of works during Restricted Hours	To restrict and reduce noise nuisance during restricted hours.	All works areas	Construction Contractor		✓	NCO
4.6.3	N.2	Prohibition of percussive piling	To restrict and reduce noise nuisance from the use of noisy and heavy piling equipment.	All works areas	Construction Contractor		✓	TM on Noise from Percussive Piling
4.9.1	N.3	 Adopt Code of Practice on Good Management Practice to Prevent Violation of the NCO Before commencing work, the Contractor shall submit to the Project Engineer the method of working, equipment and noise mitigation measures intended to be used at the Site Devise and execute working methods to minimise the noise impact on the surrounding sensitive uses, and provide experienced personnel with suitable training to ensure that those methods are implemented PME should be kept to a minimum and the parallel use of noisy equipment/ machinery should be avoided Turn off unused equipment Regular maintenance (off-site) of all plant and equipment 	To restrict and reduce noise nuisance from works areas.	All works areas	Construction			Mai Po Inner Deep Bay Ramsar Site Management Plan Code of Practice on Good Management Practice to Prevent Violation of the NCO (for Construction Industry)

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WATER C	QUALITY							
5.4.17	WQ.1	Foundation works at TH2 and TH3 shall be aligned with the schedule of draining the adjacent gei wai set out in the MPNR Management Plan 2019-2024.	Making use of hydraulic isolation of adjacent gei wai to avoid pollution of other gei wai and Deep Bay	TH2 and TH3 for foundation works	Engineer + Construction Contractor	√	√	MPNR Management Plan 2019-2024
5.4.27	WQ.2	A perimeter bund will be constructed around the work sites for TH2 and TH3 to ensure that any runoff generated from within these sites is discharged only into the adjacent drained gei wai	To ensure pollutants cannot discharge into other water-filled gei wai and so provide a pathway for pollutants to enter Deep Bay	TH2 and TH3 for foundation works	Engineer + Construction Contractor	√	✓	Additional measure for minimisation of detrimental impacts to wildlife and the local community
5.4.27	WQ.3	The majority of construction components shall be pre-fabricated off-site to avoid any impacts associated with construction on-site	To achieve zero polluted runoff from works areas by minimising onsite construction of building components	Off-site	Engineer + Construction Contractor	✓	✓	
5.4.27	WQ.4	All concrete will be mixed off-site and brought into each works area only when needed and only in the quantities required, so that there is no need to store (or dispose of) any surplus concrete	To achieve zero polluted runoff from works areas by avoiding concrete mixing, storage and/or disposal on site	Off-site	Construction Contractor		✓	
5.4.27	WQ.5	Any concrete spilled within the works area will be immediately cleaned up and removed from the area	To achieve zero polluted runoff from works areas by immediate cleaning up and removal of spilled concrete	All works areas	Construction Contractor		✓	
5.4.27	WQ.6	Plant, equipment and vehicles shall not be maintained or repaired within any works area in the Project Site	To achieve zero polluted runoff from works areas by handling and treating any resulting oil, chemical waste or other polluting substances off-site in an appropriate manner	Off-site	Construction Contractor		✓	
5.4.27	WQ.7	During re-fuelling, drip trays shall be provided at any fuel connection point. Any spilled fuel shall be collected and taken off-site for proper treatment/disposal	To achieve zero polluted runoff from works areas by carrying out the refuelling with extreme care	All works areas	Construction Contractor		✓	Good Site Practice
5.4.27	WQ.8	Materials, plant or equipment that could give rise to contaminated runoff during extreme rainfall will be	To minimise the quantity of contaminated runoff during	All works areas	Construction Contractor		✓	

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		protected by being covered, either by tarpaulin or by small gazebos that can be erected within minutes	extreme rainfall						
5.4.27	WQ.9	Each works area will be provided with at least one chemical toilet for use by workers. Sewage collected in these chemical toilets will be treated off-site	To ensure sewage is collected and treated off-site properly	All works areas	Construction Contractor		✓		
5.4.27	WQ.10	Each works area will be provided one bunded and covered area for the temporary storage of C&D material – one section for inert C&D material and one area for C&D waste. These areas will be emptied frequently, using construction material delivery vehicles that are empty on their return journey	To ensure proper storage of C&D material to avoid polluting adjacent gei wai or fishponds	All works areas	Construction Contractor		✓		
5.4.27	WQ.11	Each works area will be provided with at least one set of waterproof waste receptacles – one for recyclable waste and one for non-recyclable waste. These areas will be emptied frequently	To ensure proper storage of wastes to avoid polluting adjacent gei wai or fishponds	All works areas	Construction Contractor		✓		
5.6.2	WQ.12	 Perimeter channels at site boundaries shall be provided to intercept storm runoff from outside the works areas so that it will not wash across the works areas and to direct all site runoff only into adjacent drained gei wai For the purpose of preventing soil erosion, exposed slope surfaces shall be covered e.g. by tarpaulin, and temporary access roads shall be protected by crushed stone or gravel Intercepting channels shall be provided (e.g. along the crest/edge of excavation) to prevent storm runoff from washing across exposed soil surfaces. Arrangements shall always be in place to ensure that adequate surface protection measures can be safely carried out well before the arrival of a rainstorm Earthworks final surfaces shall be well compacted and subsequent permanent works 	To minimise the quantity of contaminated runoff and muddy water from works areas by following the good site practice	All works areas	Construction		•		ProPECC PN 1/94 Construction Site Drainage

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		or surface protection shall be carried out immediately after the final surfaces are formed to prevent erosion. Appropriate drainage like intercepting channels shall be provided where necessary 5. Measures shall be taken to minimise the ingress of rainwater into trenches – they shall be dug and backfilled in short sections							
5.5.1	WQ.13	The two new tower hides will not be provided with toilets or washrooms. Runoff from the roof of the tower hides and from the boardwalks will not be contaminated	No wastewater will be generated during operation.	TH2 and TH3	Construction Contractor			✓	Additional measure for minimisation of detrimental impacts to wildlife and the local community
WASTE N	/ANAGEMI	ENT							
6.6.2	WM.1	Preparation of a WMP to manage waste on site	To identify potential environmental impacts from the generation of waste; to recommend appropriate waste handling, collection, sorting, disposal and recycling measures; and to categorise and permit segregation of C&D material (i.e. inert C&D materials, C&D waste, etc. for off-site reuse, recycling, treatment and/or disposal	All works areas	Construction Contractor		✓		ETWB TC(W) No. 19/2005, Env Mgmt on Construction Sites
6.6.3	WM.2	Waste storage areas should be well maintained and cleaned regularly	To adopt good housekeeping practices and prevent waste materials being blown around by wind, flushed or leached into nearby waters, or creating odour nuisance or pest and vermin problems	All works areas	Construction Contractor		√		Good Site Practice
6.6.4	WM.3	Store refuse pending removal in receptacles provided with close fitting covers and remove and properly dispose of refuse daily	To avoid waste materials be flushed or leached during inclement weather conditions such as heavy rainfall	All works areas	Construction Contractor		✓		PNRC No. 17 Control of Env Nuisance from Construction Sites

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6.6.4	WM.4	Dump trucks shall be fitted with covered box type dump bed and such dump trucks shall comply with the particular specification listed in Part B of Annex 2 to Appendix C of ETWB TC(W) No. 19/2005	To ensure C&D Material will be delivered to the appropriate designated outlets and dump trucks to minimise potential nuisance during transportation of waste	All works areas	Construction Contractor		✓		Part B of Annex 2 to Appendix C of ETWB TC(W) No. 19/2005
6.6.5	WM.5	Establishment of a Trip Ticket System to monitor the disposal of public fill and solid wastes at public filling facilities and landfills, and to control fly-tipping	To monitor the disposal of public fill and solid wastes at public filling facilities and landfills, and to control fly-tipping	Off-site	Construction Contractor		✓		DevB TC(W) No. 6/2010 and Waste Disposal (Charges for Disposal of Constr. Waste) Reg
6.6.6	WM.6	General refuse should be stored in enclosed bins or compaction units separate from C&D material. A reputable waste collector should be employed by the construction contractor to remove general refuse from the Site, separately from C&D materials	To separate general refuses from C&D material and ensure proper disposal	All works areas	Construction Contractor		√		Good Site Practice
6.6.7	WM.7	 The Contractor shall observe and comply with the WDO and its subsidiary regulations The Contractor shall submit to the Engineer a WMP with appropriate mitigation measures including allocation of an area for waste segregation and shall ensure that day-to-day site operations comply with the approved WMP The Contractor shall minimise the generation of waste from his work. Avoidance and minimisation of waste can be achieved through changing or improving design and practices, careful planning and good site management The Contractor shall ensure that different types of wastes are segregated on-site and stored in different containers, skips or stockpiles to facilitate reuse/recycling of waste and, as the last resort, disposal at different outlets 	To further minimise the environmental impacts related to waste arising from the Project	All works areas	Construction		•		Good Site Practice Waste Disposal (Chemical Waste) (General) Regulation

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		 5. The reuse and recycling of waste shall be practised as far as possible. The recycled materials shall include paper/cardboard, timber and metal, etc. 6. The Contractor shall ensure that C&D materials are sorted into public fill (inert portion) and C&D 							
		waste (non-inert portion). Public fill, which comprises soil, rock, concrete, brick, cement plaster/mortar, inert building debris, aggregates and asphalt, shall be reused in earth filling, reclamation or site formation works. C&D waste, which comprises metal, timber, paper, glass, junk and general refuse, shall be reused, recycled or, as the last resort, disposed of at landfill							
		7. The Contractor shall record the amount of waste generated, recycled and disposed of							
		8. The Contractor shall use a trip ticket system for the disposal of C&D materials to any designated PFRFs and/or landfill							
		 Training shall be provided for workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling 							
		10. The Contractor shall not permit any sewage, wastewater or effluent containing sand, cement, silt or any other suspended or dissolved material to flow from the Site onto any adjoining land or allow any waste matter that is not part of the final product from waste processing plants to be deposited anywhere within the Site or onto any adjoining land. He shall arrange removal of such matter from the site in a proper manner to the satisfaction of the Engineer							

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		11. The Contractor shall observe and comply with the Waste Disposal (Chemical Waste) (General) Regulation							
6.6.8	WM.8	 Construction material, stockpiles, chemical and waste storage/recycling facilities should be immediately moved to secured area Construction material, stockpiles and waste storage/recycling facilities should be covered by an impermeable sheeting, if necessary Intercepting channels will be provided at the edge of the excavated area to prevent storm runoff from washing across the exposed surface 	To adopt additional control measures when inclement weather (e.g. heavy rain, typhoon, etc.) is forecast	All works areas	Construction Contractor		✓		Good Site Practice
6.6.9	WM.9	Visitors will be encouraged to bring their own reusable water bottles and food containers, rather than single-use containers, and free drinking water for visitors will be provided at the MPEC. No waste receptacles are provided within MPNR and visitors will be encouraged to take their waste home with them	To minimise the amount of waste generated by visitors to MPNR	Throughout MPNR	WWF			√	Additional measure for minimisation of detrimental impacts to wildlife and the local community
Table 6-3	WM.10	Inert C&D Material: PFRF at Tuen Mun Area 38	To ensure proper management and treatment of inert C&D material	Off-site	Construction Contractor		✓		
Table 6-3	WM.11	C&D Waste (non-inert): Segregation + recycling by local recyclers / residual waste to NENT Landfill	To ensure proper management and treatment of C&D waste (non-inert)	Off-site	Construction Contractor		√		
Table 6-3	WM.12	C&D Waste (vegetation): Vegetation shall be composted on-site	To ensure proper management and treatment of C&D waste (veg)	On-site	WWF		✓		
Table 6-3	WM.13	General Refuse: Segregation + off-site recycling by local recyclers/residual waste to NWNT RTS	To ensure proper management and treatment of general refuse	Off-site	Construction Contractor		✓		
ECOLOGY	1								
7.9.3	E.1	The three project elements will be assembled/constructed over a two-month period between mid-April and mid-October	To avoid impacts on the high number of waterbirds and wetland-dependent species present in the dry season	All works areas	Construction Contractor		√		Additional measure for minimisation of detrimental impacts to wildlife and the

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7.9.4	E.2	Adequate site checks in the works area and in the vicinity of the footprint of all project elements will be conducted by a suitably qualified ecologist prior to commencement of works to search for substantive usage of the habitat by flora and/or fauna of conservation concern, e.g. the presence of an otter holt	To avoid impacts on mammals, in particular Eurasian Otter	All works areas	ET		√		local community
7.9.6	E.3	Install a 2m-high solid, opaque screen around works areas	To mitigate disturbance to species using adjacent habitats	All works areas	Construction Contractor		✓		
7.9.6	E.4	Provide screen planting using native bamboo species <i>Bambusa tuldoides</i> (青稈竹, 花眉竹) to the access path to the new Tower Hides to reduce disturbance during the construction and operational phase (see also LV.6, below)	To mitigate disturbance to species using adjacent habitats	Access to THs	Construction Contractor +WWF		√	√	
7.9.7	E.5	All construction activity for TH2 and its associated access path, including the passage of construction vehicles, will cease two hours before sunset, this means 4pm in the wet season construction period	To avoid impacts on nocturnal roost sites and associated pre-roost gatherings of Collared Crow in the vicinity of Pond 20	TH2	Construction Contractor		√		
7.9.8	E.6	Ahead of construction, ET checks will be conducted during the breeding season. These checks should be carried out two weeks prior to construction commencing and the day before. Should any egretry be discovered in the vicinity of works areas, the need for mitigation measures shall be assessed in consultation with AFCD	To check for the presence of breeding ardeids within 500m of the footprint of project elements	All works areas	ET		√		
7.9.9	E.7	All construction activity for footpath and TH3 will cease one hour before sunset	To prevent disturbance to nearby ardeid pre-roost and roost activities.	TH3 and footpath	Construction Contractor		✓		
7.9.11	E.8	Adequate site checks along haul roads and in the works area and in the immediate vicinity should be conducted prior to the commencement of works at	To detect substantive use of adjacent habitat by species of conservation concern. If roosts or breeding species are found,	TH2 and TH3	ET		√		

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		TH2 and TH3	appropriate measures should be taken to avoid adverse impact, including adjustments to the timing of works						
7.9.12	E.9	Prior to any tree pruning or felling works, a careful check should be conducted by an experienced ecologist to ensure that bats or active bird nests are not present	To avoid disturbance to bat and bird species nesting in trees	All works areas	ET		✓		
7.9.14	E.10	Desilting channels at gei wai 19, reconnecting gei wai 19a with gei wai 19b, and merging the six subponds (20a to 20f) of gei wai 20 (for TH2); and enhancement of gei wai 8a through reprofiling and connection of gei wai 8a with gei wai 7 (forTH3).	To provide habitat enhancement to offset the loss of very small areas of gei wai bund and pond bund due to construction of the new TH2, TH3 and boardwalk path	TH2 and TH3	Construction Contractor +WWF		✓		
FISHERIE	S								
8.3.19	F.1	Contingency plan when construction works are in the vicinity of commercial fish ponds: 1. Identification of potential emergency situations — consult with WWF and owners of the ponds 2. Emergency response team 3. Emergency response procedures 4. List of emergency telephone hotlines 5. Location and type of emergency equipment 6. Training plan and testing for effectiveness	To prevent perforated liner and damaged/destabilized pond bunds	In the vicinity of commercial fish ponds	Construction Contractor		✓		Additional measure for minimisation of detrimental impacts to wildlife and the local community
LANDSCA	PE AND VI	SUAL							
9.7.4	LV.1	CM1: Construction lighting control: to ensure no night time lighting at all works areas.	To restrict and reduce light pollution during night time.	All works areas	Construction Contractor		✓		Additional measure for minimisation of detrimental impacts to wildlife and the local community
9.7.4	LV.2	CM2: All existing trees and vegetation outside the works footprints shall be properly preserved and protected.	To protect the landscape quality of the existing trees and vegetation.	All works areas	Construction Contractor		✓		DEVB TC No. 4/2020

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9.7.4	LV.3	CM3: All the construction materials shall be properly stored at the designated locations within the works areas.	To ensure proper storage of construction materials and enhance tidiness on site.	All works areas	Construction Contractor		√		Good Site Practice
9.7.4	LV.4	CM4: Erection of screen hoarding for TH2 and TH3 (where appropriate, hoardings with surface treatment/ colour suitable to the rural context shall be used).	To minimise potential impact on landscape / visual quality during construction of TH2 and TH3.	All works areas	Construction Contractor		✓		Additional measure for minimisation of detrimental impacts to wildlife and the
9.7.5	LV.5	OM1: Suitable/responsive design of the proposed Boardwalks and Bird-watching Hides	To enhance overall landscape / visual quality by fitting in with the surrounding natural landscapes.	TH2 and TH3, New Boardwalks	Design Consultant/ WWF	√			local community
9.7.5	LV.6	OM2: Provide screen planting using native bamboo species <i>Bambusa tuldoides</i> (青稈竹, 花眉竹) to the access to the new Tower Hides to soften the appearance of the hard elements of the Project.	To enhance overall landscape / visual quality by fitting in with the surrounding natural landscapes.	Access to THs	Construction Contractor		√	✓	