



APPENDIX 1.2

IMPLEMENTATION SCHEDULE OF MITIGATION MEASURES



APPENDIX 1.2 - IMPLEMENTATION SCHEDULE OF RECOMMENDED MITIGATION MEASURES

EIA Reference	EM&A Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Location/ duration of recommended measures & timing of completion of recommended measures	Implementation Agent	Implementation Stage ^(a)			Relevant Legislation & Guidelines
					D	C	O	
Air Quality								
S3.9	S3	Impervious sheet will be provided for skip hoist for material transport.	Construction sites/ during construction (particularly dry season)	Contractor(s)		✓		<i>Air Pollution Control (Construction Dust) Regulation</i>
S3.9	S3	The area where dusty work takes place should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after dusty activities as far as practicable.	Construction sites/ during construction	Contractor(s)		✓		<i>Air Pollution Control (Construction Dust) Regulation</i>
S3.9	S3	Establishment and use of vehicle wheel and body washing facilities at the exit points of the site.	Construction sites/ during construction	Contractor(s)		✓		<i>Air Pollution Control (Construction Dust) Regulation</i>
S3.9	S3	Provision of not less than 2.4m high hoarding from ground level along site boundary where adjoins a road, streets or other accessible to the public except for a site entrance or exit.	Construction sites/ during construction	Contractor(s)		✓		<i>Air Pollution Control (Construction Dust) Regulation</i>
S3.9	S3	All dusty materials should be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation.	Construction sites/ during construction	Contractor(s)		✓		<i>Air Pollution Control (Construction Dust) Regulation</i>
S3.9	S3	Dropping heights for excavated materials should be controlled to a practical height to minimise the fugitive dust arising from unloading.	Construction sites/ during construction	Contractor(s)		✓		<i>Air Pollution Control (Construction Dust) Regulation</i>
S3.9	S3	During transportation by truck, materials should not be loaded to a level higher than the side and tail boards, and should be dampened or covered before transport.	Construction sites/ during construction	Contractor(s)		✓		<i>Air Pollution Control (Construction Dust) Regulation</i>
S3.9	S3	Temporary stockpiles of dusty materials will be either covered entirely by impervious sheets or sprayed with water to maintain the entire surface wet all the time.	Construction sites/ during construction	Contractor(s)		✓		<i>Air Pollution Control (Construction Dust) Regulation</i>
S3.9	S3	Stockpiles of more than 20 bags of cement, dry pulverised fuel ash and dusty construction	Construction sites/ during construction	Contractor(s)		✓		<i>Air Pollution Control (Construction Dust) Regulation</i>



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		materials will be covered entirely by impervious sheeting sheltered on top and 3-sides.						
S3.9	S3	All exposed areas will be kept wet always to minimise dust emission.	Construction sites/ during construction	Contractor(s)		✓		<i>Air Pollution Control (Construction Dust) Regulation</i>
S3.9	S3	Ultra-low-sulphur diesel (ULSD) will be used for all construction plant on-site, as defined as diesel fuel containing not more than 0.005% sulphur by weight) as stipulated in <i>Environment, Transport and Works Bureau Technical Circular (ETWB-TC(W)) No 19/2005</i> on Environmental Management on Construction Sites.	Construction sites/ during construction	Contractor(s)		✓		<i>Environment, Transport and Works Bureau Technical Circular (ETWB-TC(W)) No 19/2005 on Environmental Management on Construction Sites</i>
S3.9	S3	The engine of the construction equipment during idling will be switched off.	Construction sites/ during construction	Contractor(s)		✓		<i>Air Pollution Control (Construction Dust) Regulation</i>
S3.9	S3	Regular maintenance of construction equipment deployed on-site will be conducted to prevent black smoke emission.	Construction sites/ during construction	Contractor(s)		✓		<i>Air Pollution Control (Construction Dust) Regulation</i>
S3.9	S3	NRMMs, e.g. mobile generator and air compressor, will comply with the prescribed emission standards with a proper label approved by EPD.	Construction sites/ during construction	Contractor(s)		✓		<i>Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation</i>
S3.9	S3	Electric power supply for on-site machinery will be provided as far as practicable for construction activities.	Construction sites/ during construction	Contractor(s)		✓		-
S3.12	S3	To ensure proper implementation of the recommended dust mitigation measures and good construction site practices during the construction phase, regular environmental site inspections, i.e. on weekly basis, is recommended throughout the construction period.	Construction sites/ during construction	Contractor(s)/ Environmental Team (ET) & Independent Environmental Checker (IEC)		✓		-
Noise								
S4.8	S4	The use of quiet construction method/ QPME/ press-in method/ quieter demolition equipment is recommended. The contractors may adopt alternative QPME as long as it can demonstrate	Construction sites/ during construction	Contractor(s)		✓		EIAO-TM



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		that they would not result in construction noise impacts worse than those predicted in this assessment.						
S4.8	S4	<p>Noise barriers or enclosures would be erected to provide screening from the construction plant. Noise barriers will become more effective when located immediately adjacent to the PME and be moved concurrently with the PME along the work site. The Contractor should be responsible for design of the noise barrier/enclosure with due consideration given to the size of the PME and the requirement of intercepting the line of sight between the NSRs and PME. A typical design which has been used locally is a wooden framed barrier of superficial density no less than 14kg/m² on a skid footing with 25mm thick internal sound absorptive lining.</p> <p>Noise insulation fabric would be installed for PME such as piling rigs and drilling rigs and the Fabric should be lapped such that there would be no opening or gaps on the joints.</p> <p>Noises barriers should be erected/ built in such a way with no openings or gaps on the joints and should be long enough (e.g. at least five times greater than its height) or be bent around the noise sources to ensure the effectiveness.</p>	Construction sites/ during construction	Contractor(s)		✓		EIAO-TM
S4.8	S4	<p>Good site practices should be followed:</p> <ul style="list-style-type: none"> ▪ Only well-maintained plant should be operated on-site and should be served regularly during construction period; ▪ Mobile plant, if any, should be sited as far from NSRs as possible; ▪ Use of site hoarding as a noise barrier to screen noise at low level NSRs; 	Construction sites/ during construction	Contractor(s)		✓		EIAO-TM



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		<ul style="list-style-type: none"> ▪ Machines and plant that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum. ▪ Silencers or mufflers on construction equipment should be utilized and be properly maintained during construction; ▪ Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and ▪ Material stockpiles should be effectively utilized, wherever practicable, in screening noise from on-site construction activities. 						
S4.8	S4	Liaise with the school's management for the schedule of construction works to avoid carrying out noise construction activities during examination period.	Construction sites/ during construction	Contractor(s)		✓		EIAO-TM
S4.8	S4	Considering NSRs H1 and H9 are located in close vicinity to the works area of the Project and Cycle Track between Tsuen Wan and Tuen Mun (Tuen Mun to So Kwun Wat), the Contractor will continuously liaise with the contractor of Cycle Track Project to avoid concurrent operation of PMEs.	Construction sites/ during construction	Contractor(s)		✓		EIAO-TM
S4.10	S4	To ensure proper implementation of the recommended noise mitigation measures and good construction site practices during the construction phase, regular environmental site inspections, i.e. on weekly basis, is recommended throughout the construction period.	Construction sites/ during construction	Contractor(s)/ Environmental Team (ET) & Independent Environmental Checker (IEC)		✓		-



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S4.10	S4	Prepare a construction noise management plan prior to the construction works to verify the inventory of noise sources, update the construction noise impact assessment if necessary, assess the effectiveness and practicality of all identified measures and update the proposed noise mitigation measures as necessary.	Construction sites/ during construction	Contractor(s)	✓	✓		-
S4.8	S4	Provide low noise road surfacing material on Project Roads.	Construction sites/ during design/ construction/ operation (Refer to Figure 4.3 of the EIA Report)	Contractor(s) (design & construction phases) HyD (operation phase)	✓	✓	✓	EIAO-TM
S4.10	S4	To verify the effectiveness of the proposed noise mitigation measures, road traffic noise levels should be monitored at representative NSRs during the first year after completion of road works.	Representative NSRs/ during operation	HyD/ Environmental Team (ET) & Independent Environmental Checker (IEC)			✓	-
Water Quality								
S5.7	S5	Surface run-off from construction sites should be discharged into storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels or earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Perimeter channels at site boundaries should be provided where necessary to intercept storm run-off from outside the site so that it will not wash across the site. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.	Construction sites/ during construction	Contractor(s)		✓		ProPECC PN 1/94



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S5.7	S5	Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	Construction sites/ during construction	Contractor(s)		✓		ProPECC PN 1/94
S5.7	S5	Minimum distance of 100m should be maintained between the discharge points of construction site run-off and the existing saltwater intakes and gazetted beaches. No effluent will be discharged into typhoon shelter.	Construction sites/ during construction	Contractor(s)		✓		ProPECC PN 1/94
S5.7	S5	Construction works should be programmed to minimize soil excavation works in rainy seasons (April to September). If excavation in soil could not be avoided in these months or at any time of year when rainstorms are likely, for the purpose of preventing soil erosion, temporarily exposed slope surfaces should be covered e.g. by tarpaulin. Intercepting channels should be provided (e.g. along the crest/edge of excavation) to prevent storm runoff from washing across exposed soil surfaces. Arrangements should always be in place to ensure that adequate surface protection measures can be safely carried out well before the arrival of a rainstorm.	Construction sites/ during construction	Contractor(s)		✓		ProPECC PN 1/94
S5.7	S5	Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary	Construction sites/ during construction	Contractor(s)		✓		ProPECC PN 1/94
S5.7	S5	Measures should be taken to minimize the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should	Construction sites/ during construction	Contractor(s)		✓		ProPECC PN 1/94



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		be discharged into storm drains via silt removal facilities.						
S5.7	S5	Open stockpiles of construction materials (e.g. aggregates, sand and fill material) on sites should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.	Construction sites/ during construction	Contractor(s)		✓		ProPECC PN 1/94
S5.7	S5	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	Construction sites/ during construction	Contractor(s)		✓		ProPECC PN 1/94
S5.7	S5	Water used in ground boring and drilling for site investigation or rock/soil anchoring should as far as practicable be recirculated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities.	Construction sites/ during construction	Contractor(s)		✓		ProPECC PN 1/94
S5.7	S5	All vehicles and plant should be cleaned before they leave a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. A wheel washing bay should be provided at every site exit if practicable and wash-water should have sand and silt settled out or removed before discharging into storm drains. The section of construction road between the wheel washing bay and the public road should be paved with backfall to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	Construction sites/ during construction	Contractor(s)		✓		ProPECC PN 1/94



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S5.7	S5	Wastewater generated from building construction activities including concreting, cleaning of works and similar activities should not be discharged into the stormwater drainage system. If the wastewater is to be discharged into foul sewers, it should undergo the removal of settleable solids in a silt removal facility, and pH adjustment as necessary.	Construction sites/ during construction	Contractor(s)		✓		ProPECC PN 1/94
S5.7	S5	Acidic wastewater generated from acid cleaning, etching, pickling and similar activities should be neutralized to within the pH range of 6 to 10 before discharging into foul sewers. If there is no public foul sewer in the vicinity, the neutralized wastewater should be tankered off site for disposal into foul sewers or treated to a standard acceptable to storm drains and the receiving waters.	Construction sites/ during construction	Contractor(s)		✓		ProPECC PN 1/94
S5.7	S5	Sufficient number of chemical toilets should be required for each work area. These toilets should be regularly cleaned, maintained and emptied by licensed contractor. Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the surrounding environment. Regular environmental audit of the construction site will provide an effective control of any malpractices and can encourage continual improvement of environmental performance on site.	Construction sites/ during construction	Contractor(s)		✓		-
S5.7	S5	Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport.	Construction sites/ during construction	Contractor(s)		✓		Waste Disposal Ordinance (Cap 354)
S5.7	S5	Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents.	Construction sites/ during construction	Contractor(s)		✓		Waste Disposal Ordinance (Cap 354)
S5.7	S5	Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.	Construction sites/ during construction	Contractor(s)		✓		Waste Disposal Ordinance (Cap 354)



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S5.7	S5	The use of less or smaller construction plant may be specified to reduce disturbance to the riverbed where aquatic inhabitants are located.	Construction sites/ during construction	Contractor(s)		✓		ETWB TCW No. 5/2005
S5.7	S5	Temporary sewerage system should be designed and installed to collect wastewater and prevent it from entering rivers and streams.	Construction sites/ during construction	Contractor(s)		✓		ETWB TCW No. 5/2005
S5.7	S5	The proposed works site inside or in the proximity of natural rivers and streams should be temporarily isolated, such as by placing of sandbags or silt curtains with lead edge at bottom and properly supported props, to prevent adverse impacts on the stream water qualities. Other protective measures should also be taken to ensure that no pollution or siltation occurs to the water gathering grounds of the work site.	Construction sites/ during construction	Contractor(s)		✓		ETWB TCW No. 5/2005
S5.7	S5	Proper locations well away from rivers/streams for temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction debris and spoil should be identified before commencement of the works. Stockpiling of construction materials should be properly covered.	Construction sites/ during construction	Contractor(s)		✓		ETWB TCW No. 5/2005
S5.7	S5	Construction debris and spoil should be covered up and/or properly disposed of as soon as possible to avoid being washed into nearby rivers/streams by rain. e. Construction effluent, site run-off and sewage should be properly collected and/or treated. Wastewater from a construction site should be managed with the following approach in descending order: (i) minimisation of wastewater generation; (ii) reuse and recycle; (iii) treatment.	Construction sites/ during construction	Contractor(s)		✓		ETWB TCW No. 5/2005



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		Proper locations for discharge outlets of wastewater treatment facilities well away from the natural streams/rivers should be identified.						
S5.7	S5	Supervisory staff should be assigned to station on site to closely supervise and monitor the works.	Construction sites/ during construction	Contractor(s)		✓		ETWB TCW No. 5/2005
S5.7	S5	<p>Drainage system should be fitted with appropriate design measures to control pollution of drainage water, namely,</p> <ul style="list-style-type: none"> ▪ Standard screening designs such as gully grating should be provided to stop large objects from entering; ▪ Exposed surface shall be avoided to minimize soil erosion. ▪ Where appropriate, silt traps and oil interceptors should be provided to remove pollutants from runoff / stormwater. <p>These facilities should also be cleaned, maintained and inspected regularly and particularly before and after a rainstorm.</p>	Project Area / during design/ operation	Engineer's Representative / HyD	✓		✓	-
S5.10	S5	To ensure proper implementation of the recommended water quality mitigation measures and good construction site practices during the construction phase, regular environmental site inspections, i.e. on weekly basis, is recommended throughout the construction period.	Construction sites/ during construction	Contractor(s)/ Environmental Team (ET) & Independent Environmental Checker (IEC)		✓		-
Waste Management								
S6.5	S6	The contractor(s) must ensure that all the necessary waste disposal licences are obtained prior to the commencement of the construction works.	Contract mobilisation/ during construction	Contractor(s)		✓		-



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S6.5	S6	The contractor will open a billing account with EPD in accordance with the <i>Waste Disposal (Charges for Disposal of Construction Waste) Regulation</i> for the payment of disposal charges.	Contract mobilisation/ during construction	Contractor(s)		✓		<i>Cap 354N Waste Disposal (Charges for Disposal of Construction Waste) Regulation</i>
S6.5	S6	A trip-ticket system will be established in accordance with <i>DEVB TC(W) No. 6/2010</i> to monitor the reuse of surplus excavated materials off-site and disposal of construction waste and general refuse at transfer facilities/ landfills, and to control fly-tipping.	Contract mobilisation/ during construction	Contractor(s)		✓		<i>DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials</i>
S6.5	S6	Recyclables (e.g. plastics, cardboard) generated during the construction phase will be segregated and sent to recycler for recycling as far as practicable.	Construction sites/ during construction	Contractor(s)		✓		-
S6.5	S6	A WMP, with details of the amount of waste generated, recycled and disposed of (including the disposal sites), will be established and implemented during the construction phase as part of the Environmental Management Plan (EMP). The Contractor will be required to prepare the EMP and submits it to the Engineer / Engineer's Representative (ER) of the Project under the Contract for approval prior to implementation.	Construction sites/ during construction	Contractor(s)		✓		<i>ETWB TC(W) No. 19/2005</i>
S6.5	S6	A Construction and Demolition Material Management Plan (C&DMMP) should be prepared in accordance with Section 4.1.3 of Chapter 4 of <i>Project Administration Handbook (PAH) for Civil Engineering Works (2020 Edition)</i> and submitted to Public Fill Committee (PFC) for approval.	Contract mobilisation/ during construction	Contractor(s)	✓			<i>ETWB TC(W) No. 19/2005</i> <i>Project Administration Handbook (PAH) for Civil Engineering Works (2020 Edition)</i>
S6.5	S6	C&D materials will be segregated on-site into public fill and construction waste and stored in different containers or skips to facilitate reuse of the public fill and proper disposal of the construction waste. Specific areas of the Site will be designated for such segregation and storage if immediate use is	Construction sites/ during construction	Contractor(s)		✓		-



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		not practicable. Prefabrication will be adopted as far as practicable to reduce the construction waste arisings.						
S6.5	S6	All dump trucks should be equipped with GPS or equivalent system for monitoring of their transportation routes and parking locations to prohibit illegal dumping and landfilling of C&D materials. The Contractor should maintain a recording system to record the amount of C&D materials generated, recycled and disposed of at the disposal sites as well as the transportation routing and parking locations of the dump trucks.	Construction sites/ during construction	Contractor(s)		✓		-
S6.5	S6	The contractor(s) will register as a chemical waste producer with the EPD. Chemical waste will be handled in accordance with the <i>Code of Practice on the Packaging, Handling and Storage of Chemical Wastes</i> .	Construction sites/ during construction	Contractor(s)		✓		<i>Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes</i>
S6.5	S6	Containers used for storage of chemical wastes will: <ul style="list-style-type: none"> ▪ Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; ▪ Have a capacity of less than 450 L unless the specifications have been approved by the EPD; and ▪ Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Regulations. 	Construction sites/ during construction	Contractor(s)		✓		<i>Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes</i>
S6.5	S6	The storage area for chemical wastes will: <ul style="list-style-type: none"> ▪ Be clearly labelled and used solely for the storage of chemical waste; ▪ Be enclosed on at least 3 sides; ▪ Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the 	Construction sites/ during construction	Contractor(s)		✓		<i>Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes</i>



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		<p>chemical waste stored in that area, whichever is the greatest;</p> <ul style="list-style-type: none"> ▪ Have adequate ventilation; ▪ Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and ▪ Be arranged so that incompatible materials are appropriately separated. 						
S6.5	S6	<p>Chemical waste will be disposed of:</p> <ul style="list-style-type: none"> ▪ Via a licensed chemical waste collector; and ▪ To a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Facility which also offers a chemical waste collection service and can supply the necessary storage containers. 	Construction sites/ during construction	Contractor(s)		✓		<i>Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes</i>
S6.5	S6	<p>General refuse will be stored in enclosed bins separately from construction and chemical wastes. The general refuse will be delivered separately from construction and chemical wastes for offsite disposal on a daily basis to reduce odour, pest and litter impacts.</p>	Construction sites/ during construction	Contractor(s)		✓		-
S6.5	S6	<p>Recycling bins will be provided at strategic locations within the Project Site to facilitate recovery of recyclable materials (including aluminium cans, waste papers, glass bottles and plastic bottles, etc.). Materials recovered will be sold for recycling.</p>	Construction sites/ during construction	Contractor(s)		✓		-
S6.5	S6	<p>At the commencement of the construction works, training will be provided to workers on the concepts of site cleanliness and on appropriate waste management procedures, including waste reduction, reuse and recycling.</p>	Construction sites/ during construction	Contractor(s)		✓		-
S6.7	S6	<p>It is recommended that regular environmental site inspections, i.e. on weekly basis, of the waste</p>	Construction sites/ during construction	Contractor(s)/ Environmental		✓		-



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		management practices be carried out during the construction phase to determine if wastes are being managed in accordance with the recommended good site practices and WMP. The site inspections will investigate all aspects of waste management including waste generation, storage, handling, recycling, transportation and disposal.		Team (ET) & Independent Environmental Checker (IEC)				
Landscape and Visual								
S9.10 & 10.11, Table 9.11	S9	CM1 - Preservation of Existing Vegetation – Any existing vegetations, trees and tree of particular interest (TPI) not affected by the Project and within 5m offset from the PDA Boundary shall be carefully preserved and protected in accordance with DEVB TCW No. 4/2020 and the latest Guidelines on Tree Preservation During Development by GLTMS of DEVB. If needed, they shall be transplanted to a suitable location within the PDA as far as feasible.	Construction sites/ during design and construction	HyD (via Contractor)	✓	✓		<i>ETWB TC(W) No. 29/2004 and 3/2006</i> <i>DEVB TC(W) NO.4/2020 and DEVB TC(W) No. 5/2020</i>
S9.10 & 10.11, Table 9.11	S9	CM2 - Transplanting of Affected Trees – 23 trees have been recommended for transplanting for their moderate transplanting success, and it is recommended to relocated the tree to a permanent receptor site within the Project Boundary directly after the completion of a 2 stages root preparation period (with a minimum of 60 days interval) as far as practicable, and the work should follow the Highways Guidelines HQ/GN/13 - Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation, as well as the latest guidelines issued from the Greening, Landscape and Tree Management Section of the Development Bureau. Details regarding the transplantation will be submitted in the tree survey report to relevant government departments for approval in accordance with ETWB TCW No. 29/2004, DEVB TC (W) No.4/2020 and "Guidelines on Tree Transplanting", GLTMS of DEVB.	Construction sites/ during design and construction	HyD (via Contractor until handover to the future tree maintenance departments)	✓	✓		<i>ETWB TC(W) No. 29/2004 and 3/2006</i> <i>HyD HQ/GN/13 Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit</i> <i>DEVB TC(W) NO.4/2020 and DEVB TC(W) No. 5/2020</i>



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					D	C	O	
S9.10 & 10.11, Table 9.11	S9	CM3 - Control of Night-time Lighting Glare – Any lighting provision of the construction works at night shall be carefully control to prevent light overspill to the nearby VSRs and into the sky. Relevant best practices as suggested in the “Guidelines on Industry Best Practices for External Lighting Installations” promulgated by ENB shall be adopted.	Construction sites/ during construction	HyD (via Contractor)		✓		<i>Guidelines on Industry Best Practices for External Lighting Installations</i> promulgated by ENB
S9.10 & 10.11, Table 9.11	S9	CM4 - Good Site Practice – Construction areas’ control, such as reducing the extent of working areas, temporary working areas, storage area and shortening construction period, shall be enforced to minimise potential landscape and visual impact arising from construction activities. The proposed site should reduce topographical / landform changes to reduce disturbance with the natural terrain. Earthworks and engineered slopes should be designed to be visually interesting and compatible with the surrounding landscape, mimic contouring and terrain. Temporary landscape treatment such as hydroseeding temporary stockpiles is recommended. Protection measures for the nearby water bodies, will be conducted in accordance with ETWB TCW 5/2005.	Construction sites/ during construction	HyD (via Contractor)		✓		-
S9.10 & 10.11, Table 9.11	S9	CM5 - Erection of Decorative Screen Hoarding – Site hoardings shall be painted in a colour that is compatible with the surroundings and shall screen the views to the construction works. Hoarding should be taken down at the end of the construction period.	Construction sites/ during construction	HyD (via Contractor)		✓		-
S9.10 & 10.11, Table 9.12	S9	OM1 - Compensatory Tree Planting – Trees felled due to the Project will be compensated as far as practicable in accordance with Development Bureau Technical Circular (Works) No. 4/2020.	Project sites/ during design, construction and operation	LCSD/ HyD/ Allocatee of the SIMAR slopes as per <i>DEVB TC(W) No. 6/2015</i>	✓	✓	✓	Tree Removal Application process under <i>ETWBTC 4/2020</i> . <i>The Greening Master Plan</i> issued by CEDD and the <i>Street Tree Selection Guide</i> issued by DEVB



EIA Reference	EM&A Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Location/ duration of recommended measures & timing of completion of recommended measures	Implementation Agent	Implementation Stage ^(a)			Relevant Legislation & Guidelines
					D	C	O	
		For trees to be compensated on slopes, the guidelines for tree planting stipulated in GEO Publication No. 1/2011 will be followed.						
S9.10 & 10.11, Table 9.12	S9	<p>OM2 - Roadside Planting – Although most of the works are carried out along the existing transportation corridors, greening opportunities for roadside planting shall be maximized as far as possible to effective visual relief to the adjacent VSRs.</p> <p>Planting opportunities shall be also explored in the shaded area underneath the proposed elevated roads to maximize the greening effect by shade-tolerant tree or shrub species.</p> <p>The roadside plant species shall be made reference to the Greening Master Plan issued by CEDD and the Street Tree Selection Guide issued by DEVB.</p>	Project sites/ during design, construction and operation	LCSD/ HyD as per DEVB TC(W) No. 6/2015	✓	✓	✓	<p>Tree Removal Application process under ETWBTC 4/2020.</p> <p><i>GEO Publication No. 1/2011 and the Guiding Principles on Use of Native Plant Species in Public Works Projects</i> issued by DEVB</p> <p><i>The Greening Master Plan</i> issued by CEDD and the <i>Street Tree Selection Guide</i> issued by DEVB</p>
S9.10 & 10.11, Table 9.12	S9	<p>OM3 - Provision of Aesthetic Pleasing Treatment on Noise Barriers – Sensitive design of noise barriers and noise enclosures with chromatic measures. The design and color themes shall be coherent with the existing noise barrier design along the adjoining transportation corridors such as Lung Fu Road, Wong Chu Road and Tuen Mun Road to echo with the visual context and character of the transportation corridors.</p> <p>The detail design of noise barriers and noise enclosures shall make reference to "Guidelines on Greening of Noise Barriers" published by DEVB in appropriate locations, subject to the agreement of future maintenance departments. Greening measures such as screen planting and/or climbers along the barriers shall be fully explored in design stage. Early advice from maintenance / management parties and ACABAS shall be sought.</p>	Project sites/ during design, construction and operation	HyD	✓	✓	✓	<i>Guidelines on Greening of Noise Barriers</i> published by DEVB



EIA Reference	EM&A Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Location/ duration of recommended measures & timing of completion of recommended measures	Implementation Agent	Implementation Stage ^(a)			Relevant Legislation & Guidelines
					D	C	O	
S9.10 & 10.11, Table 9.12	S9	OM4 - Aesthetically pleasing design for carriageways and other highways structures – Footbridges, pedestrian subways, cycle paths, carriageways and other highways structures proposed shall be sensitively designed in the regard of form, tonal colour and texture so as to minimise any potential adverse landscape and visual impact. Greening measures such as climbers along viaduct piers and shrubs along footbridges shall be fully explored in design stage. Early advice from maintenance / management parties and ACABAS shall be sought.	Project sites/ during design, construction and operation	LCSD for soft landscape/ HyD for hard landscape	✓	✓	✓	-
Cultural Heritage								
S10.6, 10.8	S10	As a precautionary measure, the project proponent and his/her contractor are required to inform AMO immediately when any antiquities or supposed antiquities under the Antiquities and Monuments Ordinance (Cap. 53) are discovered during the course of works	Construction sites/ during construction	Contractor(s)		✓		-
S10.6, 10.8	S10	Design proposal, method of works and choice of machinery should be targeted to minimise potential vibration impact to Shing Miu (GB-01) and seven other associated building structures including the Castle Peak Sam Shing Hui Village Office, Hau Shi Tong (孝思堂), Tai Sui Din (太歲殿), Office of Shing Miu, Fook Tak Tsz (福德祠), an Earth God Shrine and an Arch. As a precautionary measure, it is recommended that during pre-construction stage of the Project and implemented by the works contractor, a baseline condition survey and baseline vibration impact assessment be conducted for Shing Miu and the associated building structures by a qualified building surveyor or qualified structural engineer to evaluate on the	Construction sites/ during design/ construction	Contractor(s)	✓	✓		-



EIA Reference	EM&A Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Location/ duration of recommended measures & timing of completion of recommended measures	Implementation Agent	Implementation Stage ^(a)			Relevant Legislation & Guidelines
					D	C	O	
		necessary construction monitoring and structural strengthening measures for AMO's consideration.						
S10.6, 10.8	S10	The temple owner/ manager of Earth God Shrine and Shing Miu shall be consulted to agree on appropriate mitigation measure to be adopted. This may include relocate the Shrine to another location in the compound permanently or temporarily. If temporary blockage or diversion of the access path from the Arch to Shing Miu is required, the temple owner/manager shall be consulted to agree on appropriate access to Shing Miu during construction stage.	Construction sites/ during design/ construction	Contractor(s)	✓	✓		-
S10.6, 10.8	S10	The works area near the Arch should be refined to exclude the Arch from the works area so that potential impact is avoided. The Arch should be physically fenced off from the works area during construction stage to minimise potential physical disturbance of construction works towards the Arch.	Construction sites/ during design/ construction	Contractor(s)		✓		-
S10.6	S10	If there are any buildings / structures both at grade level and underground which were built in or before 1969, the project proponent is required to alert AMO in an early stage or once identified.	Construction sites/ during design/ construction	Contractor(s)		✓		-

Note: (a) D = Design, C = Construction, O = Operation.