

Appendix 11 – Compliance Checklist – Study Brief

Sections of the EIA SB	Specific Requirements	Compliance Check
3	Detailed Requirements of the EIA Study	
3.1	<p><u>The Purpose</u> The purpose of this Study Brief is to scope the key issues of the EIA study and to specify the environmental issues that are required to be reviewed and assessed in the EIA report. The Applicant has to demonstrate in the EIA Report that the criteria in the relevant sections of the Technical Memorandum on the Environmental Impact Assessment Process of the Environmental Impact Assessment Ordinance (hereinafter referred as “the TM” are fully complied with.</p>	-
3.2.1	<p><u>The Scope</u> The scope of this EIA study shall cover the Project and associated works mentioned in sub-section 1.2 above. For the purpose of assessing whether the environmental impacts shall comply with the criteria of the TM, the EIA study shall address the key issues described below, together with any other key issues identified during the course of the EIA study:</p>	-
3.2.1 (i)	considerations on alternative design, construction method(s) and sequence(s) so as to avoid and minimize the need for dredging (including consideration of a “no-dredge” option) and the potential environmental impacts to environmentally sensitive areas and sensitive uses associated with the Project;	Sections 2.2 & 2.3
3.2.1 (ii)	potential water quality impacts on water sensitive receivers including the Wang Tong River and Silver Mine Bay Beach during construction and operation of the Project;	Section 5
3.2.1 (iii)	potential impacts to ecological sensitive areas during construction and operation of the Project including loss of vegetation and disturbance to wildlife;	Section 7
3.2.1 (iv)	potential air quality impact on the sensitive receivers due to the construction of the Project and associated works, in particular arising from construction dust;	Section 3
3.2.1 (v)	potential noise impact on the sensitive receivers due to the construction of the Project and associated works,	Section 4

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	including impact from construction equipment during construction of the Project;	
3.2.1 (vi)	potential waste management issues and impacts during construction of the Project, in particular arising from handling and disposal of construction and demolition materials and dredged sediment during construction;	Section 6
3.2.1 (vii)	potential landscape and visual impacts on sensitive receivers during the construction and operation of the Project; and	Section 8
3.2.1 (viii)	potential cumulative environmental impacts of the Project, through interaction or in combination with other existing, committed and planned projects in the vicinity of the Project, and that those impacts may have a bearing on the environmental acceptability of the Project.	Sections 2.8, 3.6.5, 4.7.5, 5.6.14, 7.9.11 & 8.8
3.3	Consideration of Alternatives	
3.3.1	<p><u>Need of the Project</u></p> <p>The Applicant shall study and review the need of the Project. In particular justification shall be given to explain the need for the scale and size of the Project by making reference to the relevant recommendation from “Improvement Works for Mui Wo Facelift – Feasibility Study”. The Applicant shall provide information to justify the need, explain clearly the purpose, objectives and environmental benefits of the Project, and describe the scenarios with and without the Project.</p>	Section 2.1
3.3.2	<p><u>Consideration of Alternative Design and Layout</u></p> <p>The Applicant shall consider alternative design of the New Bridge including consideration of the location of pier(s), minimize the number of pier and the option of widening of existing bridge and retaining the Old Bridge in situ. The Applicant shall provide justification for the selected design, including description of the environmental factors considered in the design selection and attempts made to avoid and minimize dredging, blockage of river flow, felling of trees and impact to the naturalness, landscape and visual aspects of Wang Tong River and its vicinity.</p>	Section 2.2

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3.3.3	<p><u>Consideration of Alternative Construction Methods and Sequences of Works</u></p> <p>Taking into consideration the combined effect with respect to the severity and duration of the construction impacts to the affected sensitive receivers, the EIA study shall explore alternative construction methods and sequences of works for the Project. Alternative construction methods including a “no-dredge option” shall be considered. A comparison of the environmental benefits and dis-benefits of applying different construction methods, including retaining the Old Bridge in situ and sequence of works shall be made.</p>	Section 2.3
3.3.4	<p><u>Selection of Preferred Scenario</u></p> <p>Taking into consideration of the findings in sub-sections 3.3.2 and 3.3.3 above, the Applicant shall recommend/justify the adoption of the preferred scenario that will maximise environmental benefits and avoid or minimize adverse environmental effects arising from the Project, and adequately describe the part that environmental factors played in arriving at the final selection.</p>	Section 2.4
3.4	Technical Requirements	
3.4.1	<p>The Applicant shall conduct the EIA study to address the environmental aspects of the activities as described in section 3.2 above. The assessment shall be based on the best and latest information available during the course of the EIA study. The Applicant shall include in the EIA report details of the construction and operational programme and methodologies for assessing environmental impacts of the Project. The Applicant shall clearly state the time frame, staged implementation programme and works programmes of the Project and other concurrent projects, for assessing the cumulative environmental impacts from the Project and interacting projects as identified in the EIA study.</p>	Sections 2.4, 2.7 & 2.8, and Appendix 2A
3.4.2	<p>The EIA study shall include the following technical requirements specified below and in the Appendices of this EIA study brief.</p>	Please refer to relevant parts of the

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		Table below
3.4.3	Air Quality Impact (required only for construction of the Project)	
3.4.3.1	The Applicant shall follow the criteria and guidelines for evaluating and assessing air quality impact as stated in section 1 of Annex 4 and Annex 12 of the TM respectively.	Section 3.2
3.4.3.2	The study area for air quality impact assessment shall be defined by a distance of 500 meters from the boundary of the Project site, with consideration to be extended to include major existing, planned and committed air pollutant emission sources identified to have a bearing on the environmental acceptability of the Project. The assessment shall include the existing, committed and planned sensitive receivers within the study area. The assessment shall also take into account the impacts of emission sources from nearby concurrent projects, if any. The assessment shall be based on the best available information at the time of the assessment.	Sections 3.4.2 and 3.7.1
3.4.3.3	The air quality impact assessment for construction of the Project shall follow the detailed technical requirements given in <u>Appendix A</u> .	Please refer to relevant parts of the Table below
3.4.4	Noise Impact (required only for construction of the Project)	
3.4.4.1	The Applicant shall follow the criteria and guidelines for evaluating and assessing noise impact as stated in Annexes 5 and 13 of the TM respectively.	Section 4.2.1
3.4.4.2	The study area for the noise impact assessment shall generally include areas within 300 meters from the boundary of the Project site. Subject to the agreement of the Director, the study area could be reduced accordingly if the first layer of noise sensitive receivers (NSRs), closer than 300 meters from the outer Project limit, provides acoustic shielding to those receivers at distances further away from the Project. The assessment area shall be expanded to include NSRs at distances over 300 meters from the Project and associated works if those NSRs are also affected	Section 4.5

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	by the construction of the Project.	
3.4.4.3	The noise impact assessment for construction of the Project shall follow the detailed technical requirements given in <u>Appendix B</u> .	Please refer to relevant parts of the Table below
3.4.5	Water Quality Impact	
3.4.5.1	The Applicant shall follow the criteria and guidelines for evaluating and assessing water pollution as stated in Annexes 6 and 14 of the TM respectively.	Section 5.2.1
3.4.5.2	<p>The study area for the water quality impact assessment shall cover the Southern Water Control Zone as designated under the Water Pollution Control Ordinance (Cap 358) and the water sensitive receivers including Wang Tong River in the vicinity of the Project. The study area could be extended to include other areas if they are found also being affected by the project during the EIA study and have a bearing on the environmental acceptability of the Project. The following sensitive receivers and other sensitive receivers identified during the course of the EIA study shall be included and assessed in the water quality impact assessment:</p> <ul style="list-style-type: none"> - secondary contact recreational zones, recreation and tourism related uses, natural streams and rivers in and near Wang Tong; - areas of ecological or conservation value at Wang Tong including intertidal habitats; - sea water intakes (if any). 	Section 5.4 and Table 5.1
3.4.5.3	The Applicant shall demonstrate in the EIA study that the Wang Tong River shall remain natural and unblocked during both construction and operational stages.	Sections 5.6.3 – 5.6.7, and 5.6.14

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3.4.5.4	The water quality impact assessment for construction and operation of the Project shall follow the detailed technical requirements given in <u>Appendix C</u> .	Please refer to relevant parts of the Table below
3.4.6	Waste Management Implication and Land Contamination	
3.4.6.1	The Applicant shall follow the criteria and guidelines for evaluating and assessing waste management implications as stated in Annexes 7 and 15 of the TM respectively.	Section 6.3.1
3.4.6.2	The applicant shall identify the possible sources of land contamination (if any) associated with the construction of the Project. If any contaminated land uses as stated in Sections 3.1 of Annex 19 in the TM is identified, the Applicant shall follow the guidelines for evaluating and assessing potential land contamination issues as stated in Sections 3.1 of Annex 19 of the TM.	Section 6.5
3.4.6.3	The assessment of the waste management implication and potential land contamination issue shall follow the detailed requirements given in <u>Appendix D</u> .	Please refer to relevant parts of the Table below
3.4.7	Ecological Impact	
3.4.7.1	The Applicant shall follow the criteria and guidelines for evaluating and assessing ecological impact as stated in Annexes 8 and 16 of the TM respectively.	Section 7.3.2
3.4.7.2	The assessment area for the purpose of the terrestrial and aquatic ecological impact assessment shall include Silver Mine Bay, Wang Tong River, Tai Wai Yuen and any other areas likely to be impacted by the Project.	Section 7.3.1
3.4.7.3	The ecological impact assessment shall follow the detailed technical requirements given in <u>Appendix E</u> .	Please refer to relevant

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		parts of the Table below
3.4.8	Landscape and Visual Impacts	
3.4.8.1	The Applicant shall follow the criteria and guidelines as stated in Annexes 10 and 18 of the TM, the EIAO Guidance Note No. 8/2010 on “Preparation of Landscape and Visual Impact Assessment under the Environmental Impact Assessment Ordinance” and the report of “Landscape Value Mapping of Hong Kong” for evaluating and assessing the landscape and visual impacts during construction and operation phases of the Project.	Sections 8.4 & 8.5.5.
3.4.8.2	The assessment area for landscape impact assessment shall include all areas within a 500 meters distance from the boundary of the Project site, including river, beach, pebble stone, coastline, etc. The cumulative impacts on landscape resources and characters from other projects should be included in this assessment. The assessment area for the visual impact assessment shall be defined by the visual envelope of the Project and shall be shown on plans.	Sections 8.4.3, 8.5.1 and 8.8.
3.4.8.3	The Applicant shall provide bridge designs shown on plans, sections and photomontages in significant viewpoints. The Applicant shall take into consideration of the compatibility of the New Bridge to the surrounding area and the design shall be sympathetic to the rural setting.	Sections 8.5 & 8.6.4, and Figures 1.1 & 8.12 – 8.16
3.4.8.4	The landscape and visual impact assessments for construction and operation of the Project shall follow the detailed technical requirements given in <u>Appendix F</u> .	Please refer to relevant parts of the Table below
3.4.9	Environmental Monitoring and Audit (EM&A) Requirements	
3.4.9.1	The Applicant shall identify and justify in the EIA study whether there is any need for EM&A activities during the construction and operation phases of the Project and, if affirmative, to define the scope of EM&A requirements for	Section 9

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	the Project in the EIA study.	
3.4.9.2	Subject to the confirmation of the EIA study findings, the Applicant shall comply with the requirements as stipulated in Annex 21 of the TM. The Applicant shall also propose if there is any need for real-time reporting of monitoring data for the Project through a dedicated internet website.	Section 9
3.4.9.3	The Applicant shall prepare a Project Implementation Schedule (in the form of a checklist as shown in <u>Appendix G</u> to this EIA study brief) containing the EIA study recommendations and mitigation measures with reference to the implementation programme.	Appendix 9 of EIA Report, Appendix A of EM&A Manual
3.5	Presentation of Summary Information	
3.5.1	<p><u>Summary of Environmental Outcomes</u></p> <p>The EIA report shall contain a summary of key environmental outcomes arising from the EIA study, including estimated population protected from various environmental impacts, environmentally sensitive areas protected, environmentally friendly options considered and incorporated in the preferred option, environmental designs recommended, key environmental problems avoided, compensation areas included and the environmental benefits of environmental protection measures recommended.</p>	Section 10.2
3.5.2	<p><u>Summary of Environmental Impacts</u></p> <p>To facilitate effective retrieval of pertinent key information, the EIA report shall contain a summary table of environmental impacts showing the assessment points, results of impact predictions, relevant standards or criteria, extents of exceedances predicted, impact avoidance measures considered, mitigation measures proposed and residual impacts (after mitigation). This summary shall cover each individual impact and shall also form an</p>	Appendix 10

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Sections of the EIA SB	Specific Requirements	Compliance Check
	essential part of the executive summary of the EIA report.	
App A	Requirements for Air Quality Impact Assessment	
App A: 1	Background and Analysis of Activities	-
App A: 1(i)	Provision of background information relating to air quality relevant to the Project, e.g. description of the types of activities of the Project that may affect air quality during construction and operation stages of the Project.	Section 3.5
App A: 1(ii)	Provision of an account, where appropriate, of the considerations/measures that have been considered in the planning of the Project to abate the air pollution impact. The Applicant shall consider alternative construction methods/ phasing programmes, and alternative operation modes to minimize the air quality impact during construction and operation stages of the Project.	Section 2.2, 3.6.2
App A: 1(iii)	Presentation of background air quality levels in the assessment area for the purpose of evaluating cumulative air quality impacts during construction and operation stages of the Project.	Section 3.3
App A: 2	Identification of Air Sensitive Receivers (ASRs) and Examination of Emission/ Dispersion Characteristics	-
App A: 2(i)	Identification and description of existing, planned and committed ASRs that would likely be affected by the Project, including those earmarked on the relevant Outline Zoning Plans, Development Permission Area Plans, Outline Development Plans and Layout Plans and other relevant published land use plans, including plans and drawings published by Lands Department and any land use and development applications approved by the Town Planning Board. The Applicant shall select the assessment points of the identified ASRs that represent the worst impact point of these ASRs. A map clearly showing the location and description such as name of buildings, their uses and height of the selected assessment points shall be given. The separation distances of these ASRs from the nearest emission sources shall also be given.	Section 3.4 and Figure 3.1
App A: 2(ii)	Provision of a list of air pollutant emission sources, including any nearby emission sources which are likely to have impact related to the Project based on the analysis of the construction and operation activities in Section 1 above.	Sections 3.5.3 and 3.6

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	Confirmation regarding the validity of the assumptions adopted and the magnitude of the activities (e.g. volume of construction material handled, frequency of construction vehicles and barges transportation, etc.) shall be obtained from the relevant government departments / authorities and documented.	
App A: 2(iii)	The emissions from any concurrent projects identified as relevant during the course of the EIA study shall be taken into account as contributing towards the overall cumulative air quality impacts. The impact at the existing, committed and planned ASRs within the assessment area shall be assessed, based on the best information available at the time of assessment.	Section 3.7.1
App A: 3	Construction Phase Air Quality Impact	-
App A: 3(i)	The Applicant shall follow the requirements stipulated under the Air Pollution Control (Construction Dust) Regulation to ensure that construction dust impacts are controlled within the relevant standards as stipulated in Section 1 of Annex 4 of the TM. A monitoring and audit programme for the construction phase shall be devised to verify the effectiveness of the control measures proposed so as to ensure proper construction dust control.	Sections 3.8 and 3.9.
App A: 3(ii)	If the Applicant anticipates that the Project will give rise to significant construction dust impacts likely to exceed recommended limits in the TM at the ASRs despite the incorporation of the dust control measures proposed, a quantitative assessment should be carried out to evaluate the construction dust impact at the identified ASRs. The Applicant shall follow the methodology set out in Sections 4 to 6 below when carrying out the quantitative assessment.	Section 3.6.4
App A: 4	Quantitative Assessment Methodology	
App A: 4(i)	The Applicant shall apply the general principles enunciated in the modeling guidelines in Appendices A-1 to A-3 while making allowance for the specific characteristic of the Project. The Applicant must ensure consistency between the text description and the model files at every stage of submissions for review. In case of doubt, prior agreement between the Applicant and the Director on the specific modelling details should be sought.	No quantitative assessment required.

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App A: 4(ii)	The Applicant shall identify the key/representative air pollution parameters (types of pollutants and averaging time concentrations) to be evaluated and provide explanation for selecting such parameters for assessing the impact from the Project.	
App A: 4(iii)	The Applicant shall calculate the overall cumulative air quality impact at the ASRs identified under Section 2 above and compare these results against the criteria set out in Section 1 of Annex 4 in the TM. The predicted air quality impacts (both unmitigated and mitigated) shall be presented in the form of summary table(s) and pollution contours, to be evaluated against the relevant air quality standards and on any effect they may have on the land use implications. Plans of a suitable scale should be used to present pollution contours to allow buffer distance requirements to be determined properly.	
App A: 5	<p><u>Mitigation Measures for Non-compliance</u></p> <p>The Applicant shall propose remedies and mitigating measures where the predicted air quality impact exceeds the criteria set in Section 1 of Annex 4 in the TM. These measures and any constraints on future land use planning shall be agreed with the relevant government departments/authorities and documented. The Applicant shall demonstrate quantitatively whether the residual impacts after incorporation of the proposed mitigating measures will comply with the criteria stipulated in Section 1 of Annex 4 in the TM.</p>	
App A: 6	<p><u>Submission of Model Files</u></p> <p>All input and output file(s) of the model run(s) shall be submitted to the Director in electronic format together with the submission of the EIA report.</p>	
App B	Requirements for Noise Impact Assessment	
App B: 1	Provision of Background Information and Existing Noise Levels	-
App B: 1(i)	The Applicant shall provide background information relevant to the Project, including relevant previous or current studies.	Section 4.3

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App B: 2	Identification of Noise Sensitive Receivers	-
App B: 2(i)	The Applicant shall refer to Annex 13 of the TM when identifying the NSRs. The NSRs shall include existing NSRs and planned/committed noise sensitive developments and uses earmarked on the relevant Outline Zoning Plans, Outline Development Plans, Layout Plans and other relevant published land use plans, including plans and drawings published by Lands Department and any land use and development applications approved by the Town Planning Board. Photographs of existing NSRs shall be appended to the EIA report.	Section 4.5.1, Figure 4-1
App B: 2(ii)	The Applicant shall select assessment points to represent the identified NSRs for carrying out quantitative noise assessment described below. A map showing the locations and descriptions such as name of building, use, and floor of the selected assessment points shall be given.	Section 4.5.1, Table 4.4 & Figure 4.1
App B: 3	Provision of an Emission Inventory of the Noise Sources	-
App B: 3(i)	The Applicant shall provide an inventory of noise sources including representative construction equipment for the purpose of carrying out the construction noise assessment. Confirmation of the validity of the inventory shall be obtained from the relevant government departments/authorities and documented in the EIA report.	Appendix 4A
App B: 4	Construction Noise Assessment	-
App B: 4(i)	The Applicant shall carry out assessment of noise impact from construction (excluding percussive piling) of the Project during daytime, i.e. 7 am to 7pm, on weekdays other than general holidays in accordance with methodology in paragraphs 5.3 and 5.4 of Annex 13 of the TM. The criteria in Table 1B of Annex 5 of TM shall be adopted in the assessment.	Sections 4.2, Table 4.1, 4.5, 4.6
App B: 4(ii)	If the unmitigated construction noise levels are found exceeding the relevant criteria, the Applicant shall propose practicable direct mitigation measures (including movable barriers, enclosures, quieter alternative methods, rescheduling and restricting hours of operation of noisy tasks) to minimize the impact. If the mitigated noise levels still exceed the relevant criteria, the duration of the noise exceedance at the affected NSRs shall be given.	Section 4.8

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App B: 4(iii)	The Applicant shall, as far as practicable, formulate a reasonable construction programme so that no work will be required in restricted hours as defined under the Noise Control Ordinance (NCO). In case the Applicant needs to evaluate whether construction works in restricted hours as defined under the NCO are feasible or not in the context of programming construction works, reference should be made to relevant technical memoranda issued under the NCO. In case the Applicant considers that there is an unavoidable need to conduct certain type of construction works during the restricted hours, justifications shall be provided with the assessment of the degree and duration of the noise impact. Regardless of the results of construction noise impact assessment for restricted hours, the Noise Control Authority will process Construction Noise Permit (CNP) application, if necessary, based on the NCO, the relevant technical memoranda issued under the NCO, and the contemporary conditions/situations. This aspect shall be explicitly stated in the EIA report.	Section 4.2.8
App B: 4(iv)	The assessment shall cover the cumulative noise impacts due to the construction works of the Project and other concurrent projects identified during the course of the EIA study.	Section 4.7.5
5	Assessment of Side Effects and Constraints	-
App B: 5(i)	The Applicant shall identify, assess and propose means to minimize any side effects and to resolve any potential constraints due to the inclusion of any recommended direct mitigation measures.	Section 4.8.3
App B: 6	Evaluation of Constraints on Planned Noise Sensitive Developments/Land uses	-
App B: 6(i)	For planned noise sensitive uses which will still be affected even with practicable direct mitigation measures in place, the Applicant shall propose, evaluate and confirm the practicability of additional measures within the planned noise sensitive uses and shall make recommendations on how these noise sensitive uses will be designed for the information of relevant parties.	No planned noise sensitive use (Section 4.5.2)
App B: 6(ii)	The Applicant shall take into account agreed environmental requirements/ constraints identified by the EIA study to	Section 4.7.6

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	assess the development potential of concerned sites which shall be made known to the relevant parties.	
App C	Requirements for Water Quality Impact Assessment	
App C: 1	The Applicant shall identify and analyse physical, chemical and biological disruptions of marine, freshwater system(s) and coastal water arising from the construction and operation of the Project.	Section 5.6
App C: 2	The Applicant shall predict and assess any water quality impacts arising from the construction and operation of the Project including, but not limited to, excavations of sediments, site runoff, effluent and emergency discharges from the on-site wastewater treatment plant, and spillages of chemicals feedstocks, reagents, intermediate products and final products at site on the water system(s) and the sensitive receivers within the study area.	Section 5.6
App C: 3	The Applicant shall take into account and include likely different construction and operational stages or sequences of the Project in the assessment. The assessment shall have regard to the frequency, duration, volume and flow rate of the discharges and its pollutant and sediment loading to water system(s) within the study area. Essentially the water quality impact assessment shall address the following:	-
App C: 3(i)	collection and review of background information on the existing and planned water system(s) and their respective sensitive receivers which might be affected by the construction and operation of the Project;	Sections 5.3 & 5.4
App C: 3(ii)	characterisation of water and sediment quality of the water system(s) based on existing information or appropriate site surveys and tests;	Section 5.3
App C: 3(iii)	identification and analysis of existing and future activities and beneficial uses related to the water system(s) and identification of the water sensitive receivers. The Applicant shall refer to those developments and uses earmarked on the relevant Outline Zoning Plans and Layout Plans;	Sections 5.3 & 5.4
App C: 3(iv)	identification of pertinent water and sediment quality objectives, criteria and standards for the water system(s) and the sensitive receivers;	Section 5.2
App C: 3(v)	identification of any alterations or changes to bathymetry or flow regimes;	Sections

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		5.6.5 & 5.6.15
App C: 3(vi)	identification and evaluation of existing and future water and sediment pollution sources and loading, including point and non-point discharges generated during the construction and operational phases of the Project. An emission inventory on the quantities and characteristics of these existing and future pollution sources in the study area shall also be provided. Field investigation and laboratory tests, as appropriate, shall be conducted to fill in any relevant information gaps;	Section 5.6.14
App C: 3(vii)	evaluation, by review of historical experience on various aspects including on-site spill prevention and control facilities similar to the Project or by other means, of the potential impacts on the water system(s) and the sensitive receivers due to accidental spillages of chemicals, feedstocks, reagents, intermediate products and final products;	Section 5.7.1
App C: 3(viii)	prediction by desk top calculation or qualitative means of the impacts on the affected water system(s) and the sensitive receivers due to those alterations/changes identified in (v) above;	Sections 5.6.3 – 5.6.7, & 5.6.14
App C: 3(ix)	analysis of the provision of wastewater treatment facilities in terms of capacity and level of treatment to reduce pollution identified in (vi) above. Report on the adequacy of the existing/planned sewerage and sewage treatment for handling, treatment and disposal of wastewater arising from the Project;	Section 5.7.3
App C: 3(x)	recommendation of appropriate mitigation measures to avoid or minimise the impacts identified above. Development of effective pollution prevention and control measures to control and clean up accidental spillages of chemicals, feedstocks, reagents, intermediate products and final products; emergency overflow discharges; and malfunction of on-site wastewater treatment plant, so as to minimise the water and sediment quality impacts;	Section 5.7
App C: 3(xi)	development of effective management practices to reduce stormwater and non-point source pollution during the construction and operation phases of the Project; and	Section 5.7

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App C: 3(xii)	evaluation and quantification of residual impacts on the water system(s) and the sensitive receivers with regard to the appropriate water quality criteria, standards or guidelines.	Section 5.8
App D	Requirements for Assessment of Waste Management Implication	
App D: 1	Analysis of Activities and Waste Generation	-
App D: 1(i)	The Applicant shall identify the quantity, quality and timing of the wastes arising as a result of the construction and operation (if any) activities of the Project based on the sequence, duration, method and process of these activities e.g. any dredged/excavated sediment/mud, construction and demolition materials, floating refuse and other wastes which will be generated during construction and operational (if any) stages.	Sections 6.4.3 – 6.4.20, Table 6.2
App D: 1(ii)	The Applicant shall adopt appropriate design, general layout, construction methods and programme to minimize the generation of public fill/inert construction and demolition (C&D) materials and maximize the use of public fill / inert C&D materials for other construction works.	Sections 6.4.1 and 6.7.1 – 6.7.3
App D: 2	Proposal for Waste Management	-
App D: 2(i)	Prior to considering the disposal options for various types of wastes, opportunities for reducing waste generation, on-site or off-site re-use and recycling shall be fully evaluated. Measures that can be taken in the planning and design stages e.g. by modifying the design approach and in the construction stage for maximizing waste reduction shall be separately considered;	Section 6.4.1
App D: 2(ii)	The Applicant shall consider alternative project designs/ measures to avoid/ minimize floating refuse accumulation / entrapment and measures/ proposals for the potential floating refuse problem, e.g. regular collection of the floating refuse along the coast. Regarding the potential trapping of floating refuse along the shoreline of the Project, the Applicant shall estimate as far as practicable the amount of floating refuse to be found/trapped along the shoreline of the Project in construction stage and after the completion of the Project (if any). The Applicant shall develop an effective plan / design to avoid/ minimize the trapping of floating refuse. If floating refuse	Section 6.4.17 & 6.4.18

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	problem is identified and needs to be dealt with, the Applicant shall propose appropriate measures to deal with this floating refuse in a proper and acceptable manner e.g. to collect, recycle, reuse, store, transport and dispose of;	
App D: 2(iii)	After considering the opportunities for reducing waste generation and maximizing re-use, the types and quantities of the wastes required to be disposed of as a consequence shall be estimated and the disposal methods/ options for each type of wastes shall be described in detail. The disposal methods/ options recommended for each type of wastes shall take into account the result of the assessment in Section 2 (v) below;	Sections 6.4.3 – 6.4.20, Table 6.2
App D: 2(iv)	The EIA report shall state clearly the transportation routings and the frequency of the trucks/ vessels involved, any barging point or conveyor system to be used, the stockpiling areas and the disposal outlets for the wastes identified; and	Section 6.4.9
App D: 2(v)	<p>The impact caused by handling (including stockpiling, labelling, packaging & storage), collection, transportation and re-use/ disposal of wastes shall be addressed and appropriate mitigation measures shall be proposed. This assessment shall cover the following areas:</p> <ul style="list-style-type: none"> - potential hazard; - air and odour emissions; - noise; - wastewater discharge; - ecology; and - public transport. 	Section 6.4.9, 6.5.9, 6.7.3 point 1
App D: 3	Dredging/Excavation, Filling and Dumping	-
App D: 3(i)	Identification and quantification as far as practicable of all dredging/ excavation, fill extraction, filling, reclamation, sediment/mud transportation and disposal activities and requirements shall be conducted. Potential fill source and dumping ground to be involved shall also be identified. Field investigation, sampling and chemical and	Sections 6.4.11, 6.4.12

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	<p>biological laboratory tests to characterize the sediment / mud concerned shall be conducted as appropriate. The ranges of parameters to be analyzed; the number, type and methods of sampling; sample preservation; chemical and biological laboratory test methods to be used shall be agreed with the Director (with reference to Section 4.4.2(c) of the TM) prior to the commencement of the tests and documented in the EIA report for consideration. The categories of sediment/mud which are to be disposed of in accordance with a permit granted under the Dumping at Sea Ordinance (DASO) shall be identified by both chemical and biological tests and their quantities shall be estimated. If the presence of any serious contamination of sediment/mud which requires special treatment/disposal is confirmed, the Applicant shall identify the most appropriate treatment and / or disposal arrangement and demonstrate its feasibility. The Applicant shall provide supporting document, such as agreement by the relevant facilities management authorities, to demonstrate the viability of any treatment/disposal plan;</p>	
App D: 3(ii)	<p>Identification and evaluation of the best practicable dredging/excavation methods, treatment methods, reuse/recycling options and construction programme to minimize dredging / excavation and dumping requirements and demand for fill sources based on the criterion that existing sediment / mud shall be left in place and not to be disturbed as far as possible and the inert C&D materials shall be used to maximum practicable extent for reclamation works.</p>	Sections 6.4 & 6.7
App D: 4	Land Contamination	-
App D: 4(i)	<p>The Applicant shall identify all land lots and sites within the site boundary of the Project which, due to their past or present land uses, are potential contaminated sites. A detailed account of the present activities and all past land uses history in relation to possible land contamination shall be provided.</p>	Section 6.5
App D: 4(ii)	<p>The list of potential contaminants which are anticipated to be found in these potential contaminated sites shall be provided and the relevant remediation options shall be presented.</p>	Section 6.5

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App E	Requirements for Ecological Impact Assessment (Terrestrial and Aquatic)	
App E: 1	The assessment area for the purpose of terrestrial ecological assessment shall include all areas within 500 metres from the Project boundary and any areas likely to be impacted by the Project. For aquatic ecology, the assessment area shall be the same as the water quality impact assessment described in section 3.4.5.2 in the Study Brief.	Section 7.3.1
App E: 2	The Applicant shall examine the flora, fauna and other components of the ecological habitats within the assessment area. The aim shall be to protect, maintain or rehabilitate the natural environment. In particular, the Project shall avoid or minimise impacts on recognized sites of conservation importance and other ecological sensitive areas. The assessment shall identify and quantify as far as possible the potential ecological impacts associated with the Project, both directly by physical disturbance and indirectly by changes of water quality and hydrodynamic regime to the natural environment and the associated wildlife groups and habitats / species including its construction as well as the subsequent operation, management and maintenance phase.	Sections 7.4 – 7.7, 7.9 & 7.11
App E: 3	The assessment shall include the followings:	-
App E: 3(i)	Review of the findings of relevant studies / surveys and collate the available information regarding the ecological characters of the assessment area	Sections 7.4.1 – 7.4.12
App E: 3(ii)	Evaluation of information collected and identify of any information gap relating to the assessment of potential ecological impact to the natural environment	Section 7.4.13
App E: 3(iii)	Carrying out necessary field surveys (the duration of which shall be at least 4 months covering the wet season) and investigations to verify the information collected in (ii) above, to fill the information gaps identified and to fulfill the objectives of the EIA study. The field surveys shall include but not be limited to flora, fauna and any other habitats/species of conservation importance	Section 7.5
App E: 3(iv)	Establishment of the general ecological profile of the Study Area based on data of relevant previous studies / surveys and results of the ecological field surveys, and description of the characteristics of each habitat found;	-

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	major information to be provided shall include :	
App E: 3(iv)a	description of the physical environment, including all recognized sites of conservation importance, and assessment of whether these sites will be affected by the Project or not;	Section 7.6
App E: 3(iv)b	habitat maps of suitable scale (1:1000 to 1:5000) showing the types and locations of habitats and species of conservation interest in the assessment area;	Figure 7.2
App E: 3(iv)c	ecological characteristics of each habitat type such as extent, substrate, size, type, species present, dominant species found, species diversity and abundance, community structure, ecological value and inter-dependence of the habitats and species, and presence of any features of ecological importance;	Sections 7.6 & 7.8, and Appendix 7B
App E: 3(iv)d	Representative colour photos of each habitat type and any important ecological features identified; and	Appendix 7A
App E: 3(iv)e	Species found that are rare, endangered and/or listed under local legislation, international conventions for conservation of wildlife/ habitats or red data books.	Section 7.7 and Appendix 7B
App E: 3(v)	Investigation and description of the existing wildlife uses of the various habitats with special attention to those wildlife groups and habitats with conservation interest, including (a) Natural stream courses, rivers and associated riparian habitats; (b) Woodlands; (c) Vertebrates including avifauna (e.g. ardeids) and fish (e.g. estuarine species); (d) Macroinvertebrates (e.g. crustaceans); and (e) Any other habitats/species identified as having special conservation interest by this EIA study.	Section 7.7
App E: 3(vi)	Using suitable methodology (including but not limited to those adopted in other relevant EIA studies in Hong Kong) and considering also other works activities from other projects reasonably likely to occur at the same time, identification and quantification as far as possible of any direct (e.g. loss of habitats due to various elements such as	Sections 7.9 & 7.10

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	excavation works and other associated works of the Project), indirect (e.g. changes in water qualities, hydrodynamics properties, hydrology, accidental discharge of untreated sewage, noise and other disturbance generated by the construction and operational activities etc), on-site, off-site, primary, secondary and cumulative ecological impacts such as destruction of habitats, reduction of species abundance / diversity, loss of feeding and breeding grounds, reduction of ecological carrying capacity and habitat fragmentation.	
App E: 3(vii)	Evaluation of ecological impact based on the best and latest information available during the course of the EIA study, using quantitative approach as far as practicable and covering construction and operational phases of the Project;	Section 7.10
App E: 3(viii)	Recommendations for possible and practicable mitigation measures to avoid, minimize and/or compensate for the adverse ecological impacts identified during construction and operation of the Project;	Section 7.11
App E: 3(ix)	Evaluation of the feasibility and effectiveness of the recommended mitigation measures and definition of the scope, type, location, implementation arrangement, resources requirement, subsequent management and maintenance of such measures;	Section 7.11
App E: 3(x)	Determination and quantification as far as possible of the residual ecological impacts after implementation of the proposed mitigation measures;	Section 7.12
App E: 3(xi)	Evaluation of the significance and acceptability of the residual ecological impacts by making reference to the criteria in Annex 8 of the TM and determine if off-site mitigation measures are necessary to mitigate the residual impacts and if affirmative, guidelines and requirements laid down in Annex 16 of the TM should be followed ; and	Section 7.12
App E: 3(xii)	Review of the need for and recommendation on any ecological monitoring programme required.	Section 7.13
App F	Requirements for landscape and Visual Impact Assessments	
App F: 1	The Applicant shall review relevant plan(s) and/or studies which may identify areas of high landscape value and recommend country park, coastal protection area, green belt and conservation area designations. Any guidelines on	Section 8.5.3

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	<p>landscape and urban design strategies and frameworks that may affect the appreciation of the Project shall also be reviewed. The aim is to gain an insight to the future outlook of the area affected so as to assess whether the Project can fit into the surrounding setting. Any conflict with the statutory town plan(s) and any published land use plans shall be highlighted and appropriate follow-up action shall be recommended.</p>	
App F: 2	<p>The Applicant shall describe, appraise, analyse and evaluate the existing and planned landscape resources and character of the assessment area. A system shall be derived for judging landscape and visual impact significance. Annotated oblique aerial photographs and plans of suitable scale showing the baseline landscape character areas and landscape resources and mapping of impact assessment shall be extensively used to present the findings of impact assessment. Descriptive text shall provide a concise and reasoned judgment from a landscape and visual point of view. The sensitivity of the landscape framework and its ability to accommodate change shall be particularly focused on. The Applicant shall identify the degree of compatibility of the Project with the existing and planned landscape setting, recreation and tourism related uses, and scenic spot. The landscape impact assessment shall quantify the potential landscape impact as far as possible so as to illustrate the significance of such impacts arising from the proposed development. Clear mapping of the landscape impact is required. Where applicable, broad-brush tree survey shall be carried out and the impacts on existing trees shall be addressed. Cumulative landscape and visual impacts of the Project with other committed and planned developments shall be assessed.</p>	<p>Sections 8.4.2 – 8.4.3, 8.5.1 – 8.5.5, 8.6.1 – 8.6.3 and 8.8; Table 8.5; Figures 8.3 - 8.6, 8.9 & 8.10; Appendix 8B</p>
App F: 3	<p>The Applicant shall assess the visual impacts of the Project. Clear illustration including mapping of visual impact is required. The assessment shall include the following:</p>	-
App F: 3(i)	<p>identification and plotting of visual envelope of the Project;</p>	<p>Section 8.5.6 & Figure 8.7.2</p>
App F: 3(ii)	<p>identification of the key groups of existing and planned sensitive receivers including, but not limited to, travelers to</p>	<p>Section 8.5.7,</p>

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	Mui Wo, recreational visitors such as hikers from Butterfly Hill, workers in resort nearby, ferry passengers (with regard to views from sea level) and residents in the vicinity of the project within the visual envelope with regard to views from ground level and elevated vantage points;	Table 8.4 and Figures 8.7.2 & 8.11
App F: 3(iii)	description of the visual compatibility of the Project with the surrounding and the planned setting, and its obstruction and interference with the key views within the visual envelope;	Sections 8.7.5 & 8.10.2
App F: 3(iv)	identification of the severity of visual impacts in terms of distance, nature and number of sensitive receivers. The visual impacts of the Project with and without mitigation measures shall be included and illustrated so as to demonstrate the effectiveness of the proposed mitigation measures across time; and	Section 8.7.6, Tables 8.4, 8.9 & 8.10 and Figures 8.12.1 – 8.16
App F: 3(v)	evaluations and explanations of the factors considered in arriving the significance thresholds of visual impact.	Section 8.7
App F: 4	The Applicant shall evaluate the merits of preservation in totality, in parts or total destruction of existing landscape and the establishment of a new landscape character area if it will be affected by the Project. In addition, alternative site layout, design, built form and construction method that will avoid or reduce the identified landscape and visual impacts shall be evaluated for comparison before adopting other mitigation or compensatory measures to alleviate the impacts. The mitigation measures proposed shall not only be concerned with damage reduction but shall also include consideration of potential enhancement of existing landscape and compatibility of design with surrounding area in order to enhance the visual quality. The Applicant shall recommend mitigation measures to minimize adverse effects identified above, including provision of a master landscape plan.	Sections 8.4.2 & 8.6.4, Tables 8.6 & 8.7 and Figure 8.17
App F: 5	The mitigation measures shall also include design of structure, conservation of topsoil or rock for use, colour scheme and texture of material used and any measures to mitigate the impact on the existing and planned land use	Section 8.6.4, Tables 8.6 &

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	<p>and visually sensitive receivers. Parties shall be identified for the on going management and maintenance of the proposed mitigation works to ensure their effectiveness throughout the construction phase and operational phase of the Project, associated works, supporting facilities and essential infrastructures. A practical programme and funding proposal for the implementation of the recommendation measures shall be provided.</p>	<p>8.7 and Figure 8.17</p>
<p>App F: 6</p>	<p>Annotated illustration materials such as colour perspective drawings, plans and section/elevation diagrams, annotated oblique aerial photographs, photographs taken at vantage points, and computer-generated photomontage shall be adopted to fully illustrate the landscape and visual impacts of the Project. In particular, the landscape and visual impacts of the Project with and without mitigation measures from representative viewpoints, particularly from views of the most severely affected visually sensitive receivers (i.e. worst case scenario), shall be properly illustrated in existing and planned setting at four stages (existing condition, Day 1 with no mitigation measures, Day 1 with mitigation measures and Year 10 with mitigation measures) by computer-generated photomontage so as to demonstrate the effectiveness of the proposed mitigation measures. Computer graphics shall be compatible with Microstation DGN file format. The Applicant shall record the technical details in preparing the illustration, which may need to be submitted for verification of the accuracy of the illustration.</p>	<p>Figures 8.12.1 – 8.16</p>