Purpose:

The purpose of this Technical Checklist is to assist the project EPO of the EA Division in reviewing the submitted EIA report to determine whether it meets the requirements of Annex 11 of the Technical Memorandum (TM) on EIA Process.

This Checklist only serves as an initial check of the EIA report and does not necessarily represent the final view of the Director under the EIA Ordinance.

To record the compliance status of the submitted information:

For information already provided, put " ✓".

For information not provided at all, put " _ "

For information not applicable, put " n/a ".

Contents of an EIA Report	Status	Remarks
	Yes No	
EXECUTIVE SUMMARY IN ENGLISH AND CHINESE Summary of main issues, findings, conclusions and recommendations	*	S3 and S5 of the ES.
INTRODUCTION		
- Background of the project	✓	S1.1
- Purpose of the EIA study	✓	S1.3
- The approach	*	Details of the approach for each environmental assessment are presented in Sections 3 to 10.
DESCRIPTION OF THE PROJECT		
- Key project requirements	✓	S2.3
- Site location and site history	✓	S2.2 and S2.4
- Nature, scope and benefits of the project	✓	S2.2 and S2.4
- Size or scale, shape and design of the project	✓	S2.4 and Figures 2.1
- Project timetable and phasing of the project	✓	S2.9, Appendix 2.1 and Appendix 3.1
- Means by which the project will be implemented	✓	S2.8 and S2.9
- Any related projects	✓	S2.10
 Type, scope, scale, frequency and duration of the construction, operational or decommissioning (if relevant) activities 	✓	S2.2, S2.4, S2.9 and Appendix 3.1
 Background and history of the project, including considerations given to different options, and the project's different siting or alignment 	√	S2.3, S2.5, S2.6, S2.8

Contents of an EIA Report	Status	Remarks
·	Yes No	
- Description of scenarios with or without the project	√	S2.3
ENVIRONMENTAL LEGISLATION, POLICIES, PLANS, STANDARDS AND CRITERIA		
- Applicable environmental ordinances and regulations	✓	\$3.2, \$4.2, \$5.2, \$6.2, \$7.2, \$8.2, \$9.2, \$10.2
- Applicable government environmental policies and plans	✓	Ditto
- Applicable environmental standards and criteria	✓	Ditto
- Other references	✓	S8.13, S10.11
DESCRIPTION OF THE ENVIRONMENT - Baseline environmental conditions	✓	S3.3, S4.3, S5.3, S6.3, S7.4, S7.5, S8.4, S8.5, S8.6, S9.4, S9.5, S10.4
- Environmental trends	✓	S3.3 and S5.3
DESCRIPTION OF ASSESSMENT METHODOLOGIES Assessment methodologies, assumptions and criteria, including sample calculations and input and output files of a typical model run for all mathematical modelling	√	S3.6, S4.6, S5.5, S6.4, S7.3, S7.6, S8.3, S9.3, S10.3, Appendix 13.1
IDENTIFICATION OF ENVIRONMENTAL IMPACTS Potential environmental impacts including the types, characteristics and estimated quantities of emissions, discharges, wastes, potential risks, disturbances or displacement associated with the activities relating to the project during construction, operation and decommissioning phases	✓	\$3.5, \$4.5, \$5.6, \$6.5, \$7.5, \$7.6, \$8.7, \$9.6, \$10.5
Description of resources or receivers which are vulnerable to change or environmental impacts	→	S3.4, S4.4, S5.4, S7.5, S8.6, S9.6, S10.4
PREDICTION AND EVALUATION OF ENVIRONMENTAL IMPACTS - Prediction of environmental impacts (including beneficial or adverse; direct or indirect; short term or long term; reversible or irreversible; transboundary; cumulative)	*	S3.7, S4.7, S5.6, S6.5, S7.7, S8.8, S9.6, S10.6, S10.7, S10.8
Evaluation of predicted environmental impacts against applicable environmental legislation, policies, plans, standards and criteria	√	

Contents of an EIA Report	Status	Remarks
	Yes No	
MITIGATION OF ADVERSE ENVIRONMENTAL IMPACTS - Measures to eliminate, reduce or remedy adverse environmental impacts	*	S3.8, S.4.8, S5.7, S6.6, S7.8, S8.9, S9.7, S10.9 and summarised in S12
DEFINITION AND EVALUATION OF DECIDIAL		and Appendix 13.2.
DEFINITION AND EVALUATION OF RESIDUAL ENVIRONMENTAL IMPACTS - Definition and evaluation of net environmental impacts with mitigation measures in place	√	S3.9, S4.6, S5.8, S6.7, S7.9, S8.10, S9.8
ENVIRONMENTAL MONITORING AND AUDIT Need for and scope of monitoring and audit	√	S3.10, S4.7, S5.9, S6.8, S7.10, S8.11, S10.10 and
- Environmental monitoring and audit requirements, if found to be necessary, and the related environmental monitoring and audit programme	✓	summarised in S11. Ditto
CONCLUSIONS AND RECOMMENDATIONS	✓	S13
SCHEDULE OF RECOMMENDED MITIGATION MEASURES - A schedule of all mitigation measures recommended in the EIA report, listing out what the mitigation measures are, by whom, when, where and to what requirements, and including the key environmental monitoring and audit requirements	*	S12
APPENDIX - Responses to comments received	✓	

Attachment 2 Checklists for TM s4.4, s4.3 & s4.5 over EIA Report Approval

Purpose:

The purpose of this Technical Checklist is to assist the project EPO of the EA Division in reviewing the submitted EIA report to determine whether it meets the requirements of TM s4.4, 4.3 & 4.5 of the Technical Memorandum (TM) on EIA Process.

This Checklist only serves as an initial check of the EIA report and does not necessarily represent the final view of the Director under the EIA Ordinance.

To record the compliance status of the submitted information:

For information already provide put "✓ "

For information not provided at all, put " - "

For information not applicable, put " n/a ".

NOTE: The adequacy of any technical information provided needs to be relied on the advice of the technical groups and the relevant authorities.

TM Section 4.4.—The Review of EIA Report

Steps in Review of EIA Report	Status		Remark
TM 4.4- Review of the EIA Report under the following steps			
	Yes	No	
TM s4.4.1 Compliance with SB and TM			Please refer to the details in
			the checklists for TM (Annex
Whether the coverage and approaches in the EIA Report	✓		11 & 20) and SB.
comply with SB and TM			
TM s4.4.2 Quality of EIA Report			
Whether the EIA is reviewed having regarded to Annex 20	✓		Please refer to the details in
and Section 4.3.			the checklists for TM (Annex
			20 and Section 4.3).
In particular, the following factors are considered:	✓		S2
(a) whether project scope and extent in the EIA cover all			
phases and key sequence of the project			
(b) whether information and description in the EIA are	✓		The information and
factually correct			description presented have
			been confirmed with the
			project proponent/engineer

Steps in Review of EIA Report	Status	Remark
TM 4.4- Review of the EIA Report under the following steps		
	Yes No	
		and relevant authorities to
		ensure the accuracy.
(c) whether assessment methodology and evaluation of	✓	S3.6, S4.6, S5.5, S6.4, S7.3,
predicted impacts are consistent with TM Annexes 12-19		S7.6, S8.3, S9.3, S10.3.
and 4-10 respectively		
(d) whether identification of environmental impacts are	✓	S3.5, S4.5, S5.6, S6.5, S7.5,
complete and whether all applicable criteria in Annexes		S7.6, S8.7, S9.6, S10.5.
4 to 10 are considered		
(e) whether assumption and methodology are adequate	✓	Key assumptions have been
		provided in Appendix 13.1.
		Methodology presented in
		S3.6, S4.6, S5.5, S6.4, S7.3,
		S7.6, S8.3, S9.3, S10.3.
(f) whether adverse impacts are avoided to maximum	✓	Adverse impacts are avoided
practicable extent		to maximum practicable extent
		by consideration of alternative
		schemes (S2.5, S2.6 and
		S2.8) and providing
		appropriate mitigation
		measures (S3.8, S4.8, S5.7,
		S6.6, S7.8, S8.9, S9.7, S10.9,
		and summarised in S12 and
		Appendix 13.2).
(g) whether assessment has considered and compared the_	✓	S2.3
various environmental benefits and dis-benefits with		
or without the project		
(h) whether lessons learned are incorporated	n/a	
(i) whether the EIA defined all environmental protection	√	Mitigation measures are
measures <u>necessary to avoid or reduce</u> the adverse		proposed in S3.8, S4.8, S5.7,
environmental impacts to within the criteria		S6.6, S7.8, S8.9, S9.7, S10.9,
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		and summarised in S12 and
		Appendix 13.2, and any
		residual impacts are reported
		in S3.9, S4.6, S5.8, S6.7, S7.9
		and S8.10.
		and So. To.

Steps in Review of EIA Report	Status	Remark
TM 4.4- Review of the EIA Report under the following steps		
	Yes No	
(j) for no applicable quantitative criteria whether the report	~	Ditto
has defined the <u>best practicable mitigation measures</u>		
(k) whether the report has assessed feasibility, practicability,	✓	Ditto
programming and effectiveness of mitigation measures		
(I) whether the report has assessed EM&A requirement	~	S3.10, S4.7, S5.9, S6.8,
		S7.10, S8.11, S10.10 and
		summarised in S11.
TM s4.4.3 Evaluation of Residual Impact		
(i.e. net environmental impacts after mitigation)		
Whether the following factors are considered:		
(a) the importance of residual impacts in terms of the following factors:		
(i) effect on public health and health of biota or risk to life	n/a	
	/ ·	S20 S46 S50 S67 S70
(ii) the magnitude of the adverse environmental impacts		\$3.9, \$4.6, \$5.8, \$6.7, \$7.9, \$8.10, \$9.8
(iii) the granular systems of the advance environmental	 	
(iii) the geographic extent of the adverse environmental	•	Ditto
impacts (iv) duration and frequency of adverse environmental	_	Ditto
(iv) duration and frequency of adverse environmental impacts	ľ	Ditto
(v) likely size of community or the environment that may be	✓	Ditto
affected by adverse impacts		
(vi) degree to which adverse environmental impacts are	✓	Ditto
reversible or irreversible		
(vii) the ecological context	✓	S8.10, S9.8
(viii) degree of disruption to sites of cultural heritage	n/a	
(ix) international and regional significance	n/a	
(x) both the likelihood and degree of uncertainty of adverse	✓	S3.9, S4.6, S5.8, S6.7, S7.9,
environmental impact		S8.10, S9.8
(b) degree of compliance with principles and criteria as		
listed:		
(i) ordinances and regulations applicable at the time of	✓	S3.2, S4.2, S5.2, S6.2, S7.2,
processing the applications		S8.2, S9.2, S9.8, S10.2.
(ii) guidelines, standards & criteria in EIAO TM	✓	Ditto
(iii) other published and adopted criteria in HK	✓	Ditto

Steps in Review of EIA Report	Status Remark
TM 4.4- Review of the EIA Report under the following steps	
	Yes No
(iv) other guidelines published by relevant authorities in	IK ✓ Ditto

TM Section 4.3- General Approaches and Methodologies for Assessment

Rev	view of EIA Report	Status	Remark
-	(Re: TM 4.4.2Whether the assessment methodologies		
	adopted in EIA report are having regard to the general		
	principles in TM Section 4.3.)	Yes No	
<u>TM</u>	4.3.1.(a) Description of Environment		
-	whether characteristics of environment are properly	✓	S3.3, S4.3, S5.3, S6.3,
	described and predicted		S7.4, S7.5, S8.4, S8.5,
			S8.6, S9.4, S9.5, S10.4.
-	whether baseline condition is adequate to determine	✓	Ditto
	existing conditions taking into account of natural		
	variations.		
<u>TM</u>	4.3.1(b) Impact Prediction		
Wh	ether the assessment methodologies shall be relevant to	✓	S3.6, S4.6, S5.5, S6.4,
the	issues to be addressed; shall be successful or acceptable		S7.3, S7.6, S8.3, S9.3,
by	recognized institutions, and shall be capable of:		S10.3, Appendix 13.1.
(i)	identifying potential harmful or beneficial impacts	✓	S3.5, S4.5, S5.6, S6.5,
			S7.5, S7.6, S8.7, S9.3,
			S10.5.
(ii)	identifying receivers, habitats or resources vulnerable to	✓	S3.4, S4.4, S5.4, S7.5,
	change		S8.6, S9.3, S10.4.
(iii)	defining project/environment interaction	✓	S3.5, S4.5, S8.8.
(iv)	examine the chain of events	n/a	
(v)	describe and predict various scenarios	✓	S3.6, S4.6, S5.5, S6.4,
			S8.8, S9.3, S10.3.
(vi)	predict the anticipated changes such that an evaluation	✓	Ditto
	can be made with respective to TM criteria		
TM	4.3.1(c) Impact Evaluation		
Wh	ether methodology for evaluating environmental impact		
sha	all be capable of addressing:		
(i)	the existing or projected environmental conditions without	✓	S3.3, S4.3, S5.3, S6.3,
	the project in place		S7.4, S7.5, S8.4, S8.5,
			S8.6, S9.3, S10.4.
(ii)	the projected environmental condition with the project	✓	S3.7, S4.7, S5.6, S6.5,
	and the sum total of others		S7.7, S8.8, S10.6, S10.7,
			S10.8.
(iii)	a differentiation of environmental impacts caused by the	✓	S3.7, S4.7, S8.8.

Rev	iew of EIA Report	Status		Remark
-	(Re: TM 4.4.2Whether the assessment methodologies			
	adopted in EIA report are having regard to the general			
	principles in TM Section 4.3.)	Yes	No	
	project and others			
(iv)	environmental impacts during different phases of	✓		S3.7, S4.7, S5.6, S6.5,
	construction and development			S7.7, S8.8, S9.6, S10.8
(v)	evaluation of seriousness of the residual environmental	✓		Ditto
	impacts			
TM	4.3.1(d) Impact Mitigation			
The	methodologies for mitigation shall give priority to			
avo	idance and <u>s<i>hall be capable of</i></u> :			
(i)	identifying and evaluation mitigation measures in order to	✓		S3.8, S4.8, S5.7, S6.6,
	avoid, reduce or remedy the impact			S7.8, S8.9, S9.3, S10.9
				and summarised in S12
				and Appendix 13.2.
(ii)	assessing the effectiveness of mitigation measures	✓		Ditto
(iii)	defining the residual impacts	✓		S3.9, S4.6, S5.8, S6.7,
				S7.9, S8.10

TM 4.5- Approval of an EIA Report

Approval of EIA Report	Status		Remark
TM 4.5- Approval of an EIA Report	Yes	No	
TM S.4.5.1 Approval of EIA report			
In approving EIA reports with or without conditions,			
considerations should be given to the following:			
(a) Whether the requirements in the EIA study brief have been	✓		Please refer to the details
met;			in the checklist for SB.
(b) Whether the quality of the EIA report meets the	✓		Please refer to the details
requirements set out in Section 4.4 of the EIA-TM and			in the checklist for TM 4.4.
the results and conclusions are technically sound and			
reliable;			
(c) Whether the EIA report addresses relevant	n/a		
environmental issues raised by the public and the			
Advisory Council on the Environment during the public			
inspection period; and			
(d) Whether all relevant environmental principles and	✓		Please refer to the details
criteria laid down in the EIA-TM can be met and the			in the checklists for TM
residual environmental impacts are within the relevant			(Annexes 11 & 20) and SB.
criteria, unless with sound environmental justifications			
and without long term serious environmental implications.			

Attachment 3 Technical Checklist (on TM Annex 20) to Review an EIA Report

Purpose:

The purpose of this Technical Checklist is to assist the project EPO of the EA Division in reviewing the submitted EIA report to determine whether it meets the requirements of Annex 20 of the Technical Memorandum (TM) on EIA Process

This Checklist only serves as an initial check of the EIA report and does not necessarily represent the final view of the Director under the EIA Ordinance.

To record the compliance status of the submitted information:

For information already provided, put " ✓".

For information not provided at all, put " _ "

For information not applicable, put "n/a ".

NOTE:

The adequacy of any technical information provided needs to be relied on the advice of the technical groups and the relevant authorities.

	TM Issues	Status	,	Remarks
		Yes N	lo ol	
1.	General Approach			
	Organisation of the Information			
1.1	Is information logically arranged in sections?	√		Please refer to S1.5 for the report structure.
1.2	Is the location of information identified in an index or table of contents?	√		A table of contents is provided.
1.3	When information from external sources has been introduced, has a full reference to the source been included?	√		Full references have been provided. S8.13, S10.11.
	Presentation of Information			
1.4	Has information and analysis been offered to support all conclusions drawn?	✓		S3 to S10
1.5	Has information and analysis been presented so as to be comprehensive to the non-specialist using maps, tables and graphical material as appropriate?	√		Preparation of maps, tables and graphic material follows EIA study brief No.ESB- 313/2019 and EIAO-TM.
1.6	Are all the important data and results discussed in an integrated fashion within the information?	√		Presentation of information follows EIA study brief No.ESB-313/2019 and EIAO-TM.

	TM Issues	Stat	us	Remarks
		Yes	No	
1.7	Has superfluous information (i.e. information not needed for the decision) been avoided?	V		Presentation of information follows EIA study brief No.ESB-313/2019 and EIAO-TM.
1.8	Has the information been presented in a concise form with a consistent terminology and are there logical links between different sections?	✓		Relevant cross references have been provided in respective sections.
	Presentation of Information			
1.9	Have prominence and emphasis been given to severe adverse impacts, to substantial environmental benefits, and to controversial issues?	✓		\$2.2, \$2.3, \$2.5, \$2.6, \$3.5, \$3.7, \$4.5, \$5.6, \$6.5, \$7.5, \$8.7, \$8.8, \$9.6, \$10.5.
1.10	Is the information objective?	✓		Presentation of information follows EIA study brief No.ESB-323/2019 and EIAO-TM.
	Public Concerns			
1.11	Does the information identify and address the main concerns of the general public and special interest groups (clubs, societies etc.) who may be affected by the project.	n/a		
1.12	2 Does the information take account of the main concerns of the relevant statutory or advisory bodies?	✓		Please refer to the our response to comments table.
2.	Description of the Project			
	Features of the Project			
2.1	Are the purpose(s) and objectives of the project explained?	✓		S1.3, S1.4
2.2	Are the nature and status of project decision(s), for which the EIA study is undertaken, clearly indicated?	✓		S1.1
2.3	Is the estimated duration of the construction phase, operational phase and, where appropriate, decommissioning phase given, together with the programme within these phases?	√		S2.9, Appendix 2.1 and Appendix 3.1
2.4	Is the design and size of the project described, using diagrams, plans and/or maps as necessary?	✓		S2.4, and Figures 2.1

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TM Issues	Status Yes No	Remarks
2.5 Are the methods of construction described?	7	\$2.8
Are the nature and methods of production or other types of activity involved in operation of the project described?	✓	S2.4
2.7 Has the land taken up by the project site(s), construction sites, and any associated access arrangements, auxiliary facilities and landscaping areas, been clearly shown on a scaled map?	✓	Figures 1.1
For a linear project, has the land corridor, vertical and horizontal alignment and need for tunnelling, and earthworks been described?	n/a	The Project is not a linear one.
2.9 Have the uses to which the project will be put been described and the different land use areas demarcated?	✓	S2.4
Residues and Emissions		
2.10 Have the types and quantities of waste matter, energy (noise, vibration, light, heat, radiation etc) and residual materials generated during construction and operation of the project, and the rate at which these will be produced, been estimated?	✓ 	S4.5, S6.5, S6.6
2.11 Have the ways in which it is proposed to handle and/or treat these wastes and residual materials prior to release/disposal been indicated, together with the routes by which they will eventually be disposed of to the environment?	✓	S6.6 and Table 6.3
2.12 Have any special or hazardous wastes which will be produced been identified as such and the methods for their disposal been described, as regards their likely main environmental impacts?	n/a	No specific or hazardous waste would be anticipated from this Project.
2.13 Have the means by which the quantities of residuals and wastes were estimated been indicated and has uncertainty been acknowledged and ranges provided where appropriate?	✓	S6.5, Table 6.2 and Table 6.3
3. Background and History of the Project		
3.1 Where appropriate does the information include reference to the consideration of the project's siting or alignment by the project proponent?	√	S2.4
3.2 Are the reasons for selecting the proposed project or its siting and alignment, and the part	✓	Ditto

	TM Issues	Stat Yes		Remarks
		res	No	
	environmental factors played in the selection, adequately described?			
3.3	Have the main environmental impacts of different siting or alignment options been compared clearly and objectively with those of the proposed project and with the likely future environmental conditions in the absence of the project?	√		S2.2, S2.3, S2.5, S2.6
4.	Description of the Environment			
	Description of the Area Occupied by and Surrounding the Project			
4.1	Have the areas expected to be significantly affected by the various aspects of the project been indicated with the aid of suitable maps?	✓		Figures 3.1, 3.2, 4.1, 5.1, 7.1, 8.3
4.2	Have the land uses on the site(s) and in the surrounding areas been described?	✓		\$3.3, \$4.3, \$5.3, \$6.3, \$7.4, \$7.5, \$8.4, \$8.5, \$8.6, \$9.4, \$10.4
4.3	Has the affected environment been defined broadly enough to include any potentially significant effects occurring away from the immediate areas of construction and operation?	✓		Assessment areas were defined based on the guidelines of the Study Brief.
	Baseline Conditions			
4.4	Have the components of the environment potentially affected by the project been identified and described sufficiently for the prediction of impacts?	✓		S3.3, S4.3, S5.3, S6.3, S7.4, S7.5, S8.4, S8.5, S8.6, S9.5, S10.4
4.5	Were the methods used to investigate the affected environment appropriate to the size and complexity of the assessment task?	✓		The methods used follow the guidelines of the Study Brief.
4.6	Has a prediction of the likely future environmental conditions in the absence of the project been developed?	✓		S2.3
4.7	Have existing technical data sources, including local records and studies carried out for environmental agencies and/or interest groups been searched?	✓		\$3.3, \$4.3, \$5.3, \$7.3 - \$7.5, \$7.6, \$8.4, \$8.5, \$8.6, \$9.4, \$9.5, \$10.4
4.8	Have local, regional and national plans and policies been reviewed and other data collected as necessary to predict future environmental conditions?	✓		S3.3, S5.3, S9.4

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	TM Issues	Status	Remarks
<i>1</i> Q	Have relevant departments and agencies	Yes No	\$7.3, \$7.5, \$9.5
4.5	holding information on baseline environmental conditions been approached?		07.0, 07.0, 00.0
5.	Description of Impacts		
5.1	Have the direct and indirect/secondary effects of constructing, operating and, where relevant, after use or decommissioning of the project been considered (including both positive and negative effects)?	1	\$3.5, \$4.5, \$5.6, \$6.5, \$7.5, \$7.6, \$8.7, \$9.6, \$10.5
5.2	Does the information include consideration of whether effects will arise as a result of "consequential" development i.e. whether additional development, which it would be difficult to resist, will be included in the area, leading to further environmental effects? For a project with multiple stages, are the impacts caused by overlapping of different stages considered and determined?	n/a	No consequential development is anticipated.
5.3	Have the above types of impacts been investigated in so far as they affect the following:		
	- air and climate;	✓	S3
	- water and soils;	✓	S5
	- noise;	✓	S4
	- landscape;	\sqrt	S9
	- ecology;	√	S8
	historic and cultural heritage;land use;	n/a n/a	
	- impacts on people and communities;	n/a	
	- impacts on agriculture and fisheries activities.	n/a	
5.4	If any of the above are not of concern in relation to the specific project and its location is this clearly stated in the information?	n/a	The types of impacts investigated are in accordance with the EIA Study Brief.
5.5	Is the investigation of each type of impact appropriate to its importance for the decision, avoiding unnecessary information and concentrating on the key issues?	✓	S3.7, S4.7, S5.6, S6.5, S7.7, S8.8, S9.6, S10.6, S10.7, S10.8
5.6	Are impacts which may not be themselves significant, but which may contribute incrementally to a significant effect considered?	√	Ditto
5.7	Does the information include a description of the methods/approaches used to identify impacts	✓	\$3.6, \$4.6, \$5.5, \$6.4, \$7.3, \$7.6, \$8.3, \$9.3,

	TM Issues		Sta	tus	Remarks
			Yes	No	
	and the rationale for using them?				S10.3, Appendix 13.1
5.8	If the nature of the project is such that accidents are possible which might cause severe damage within the surrounding environment, has an assessment of the probability and likely consequences of such events been carried out and the main findings reported?	✓			S5.6, S10.8
	Magnitude of Impacts				
5.9	Are impacts described in terms of the nature and magnitude of the change occurring and the nature (location, number, value, sensitivity) of the affected receiver?	✓			\$3.7, \$4.7, \$5.6, \$6.5, \$7.7, \$8.8, \$9.6, \$10.6, \$10.7, \$10.8
5.10	Has the timescale over which the effects will occur been predicted such that it is clear whether impacts are short, medium or long term, temporary or permanent, reversible or irreversible?	√			Ditto
5.11	Where possible, have predictions of impacts been expressed in quantitative terms? Otherwise, have qualitative descriptions been defined?	✓			Ditto
5.12	Where quantitative predictions have been provided, is the level of uncertainty attached to the results described?	✓			Ditto
	Data and Methods				
5.13	Have the methods used to predict the nature, size and scale of impacts been described and are they appropriate to the importance of each projected impact?	✓			S3.6, S4.6, S5.5, S6.4, S7.3, S7.6, S8.3, S9.3, S10.3, Appendix 13.1
5.14	Are the data used to estimate the size and scale of the main impacts sufficient for the task, are they clearly described and have their sources been clearly identified?	√			\$3.6, \$4.6, \$5.5, \$6.4, \$7.5, \$7.6, \$8.3, \$9.3, \$10.3
6.	Mitigation				
	Description of Mitigating Measures				
6.1	Has the mitigation of significant negative impacts been considered and, where feasible, have specific measures been proposed to address each impact?	✓			S3.8, S4.8, S5.7, S6.6, S7.8, S8.9, S9.7, S10.9, and summarised in S12 and Appendix 13.2

	TM Issues	Status		Remarks	
		Yes	No		
6.2	Have the reasons for choosing the particular type of mitigation, and the other options available, been described?			Ditto	
6.3	Where mitigating measures are proposed, has the significance of any impact remaining after mitigation been described?	√		S3.8, S4.8, S5.7, S6.6, S7.8, S8.9, S9.7, S10.9	
6.4	Where appropriate, do mitigation methods considered include modification of project design, construction and operation, the replacement of facilities/resources, and the creation of new resources, as well as "end-of-pipe" technologies for pollution control?	✓		Precautionary designs are suggested to minimize air quality, noise and water quality, and landscape and visual impacts. S3.8, S4.8, S5.7	
6.5	Is it clear to what extent the mitigation methods will be effective?	✓		\$3.8, \$4.8, \$5.7, \$6.6, \$7.8, \$8.9, \$9.7, \$10.9	
6.6	Where the effectiveness is uncertain or depends on assumptions about operating procedures, climatic conditions, etc., or where there is a risk that mitigation will not work, is this made clear and has data been introduced to justify the acceptance of the assumptions?	✓		Ditto	
	Implementation of Mitigation Measures				
6.7	Have details of how the mitigation measures will be implemented and function over the time span for which they are necessary been presented? Does the report list out clearly what mitigation measures would be implemented, by whom, when, where and to what requirements? Is the responsibility for implementing the recommended mitigation measures clearly defined?	✓		S12	
	Environmental Effects of Mitigation				
6.8	Have any adverse environmental effects of mitigation measures been investigated and described?	n/a		No adverse environmental effects will be anticipated from mitigation measures.	
6.9	Has the potential for conflict between the benefits of mitigating measures and their adverse impacts been considered?	n/a		Ditto	
7.	Evaluation of Residual Impacts				
7.1	Have the available standards, assumptions and criteria which can be used to evaluate the impacts been discussed?	√		\$3.2, \$4.2, \$5.2, \$6.2, \$7.2, \$8.2, \$10.2	

	TM Issues	Status	Remarks
		Yes No	
7.2	Have the predicted impacts been compared to the available standards and criteria?	<u> </u>	\$3.7, \$4.7, \$5.6, \$6.5, \$7.7, \$8.8, \$10.8
7.3	Have the residual impacts, which are the net impacts with the mitigation measures in place, been described and evaluated against the available Government policies, standards and criteria?	✓	S3.9, S4.6, S5.8, S6.7, S7.9, S8.10. No adverse impacts would arise from the implementation of the proposed mitigation measures.
7.4	Have the residual impacts been discussed and evaluated in terms of the impact on the health and welfare of the local community and on the protection of environmental resources?	n/a	
7.5	Have the magnitude, location and duration of the residual impacts been discussed in conjunction with the value, sensitivity and rarity of the resource?	✓	S3.9, S4.6, S5.8, S6.7, S7.9, S8.10
7.6	Where there are no generally accepted standards or criteria for the evaluation of residual impacts, have alternative approaches been discussed and, if so, is a clear distinction made between fact, assumption and professional judgement?	~	Ditto
7.7	Have the residual impacts, if any, arising from the implementation of the proposed mitigation measures, been considered?	n/a	No adverse impacts would arise from the implementation of the proposed mitigation measures.
8.	Environmental Monitoring and Audit Proposals		
8.1	If impacts are uncertain, have monitoring arrangements been proposed to check the environmental impacts resulting from the implementation of the project and their conformity with the predictions made?	n/a	No uncertain impacts would be anticipated.
8.2	Does the scale of any proposed monitoring arrangements correspond to the potential scale and significance of deviations from expected impacts?	✓	S3.10, S4.7, S5.9, S6.8, S7.10, S8.11, S9.8, S10.10, and summarised in S11
8.3	Is the need for and the scope of the monitoring and audit requirements defined in the report?	√	Ditto
8.4	Does the report contain an Environmental Monitoring and Audit programme, as prescribed	✓	S11

A3 - 4

TM Issues	Status	Remarks
	Yes No	
in Annex 21, if it is found to be needed?		
9. <u>Difficulties Compiling the Information</u>		
9.1 Have any gaps in the required data been indicated and the means used to deal with them in the assessment been explained?	n/a	
9.2 Have any difficulties in assembling or analysing the data needed to predict impacts been acknowledged and explained?	n/a	
10. Executive Summary		
10.1 Does the executive summary contain at least a brief description of the project and the environment, an account of the main mitigation measures to be implemented by the developer, and a description of any remaining or residual impacts?	✓	S2, S3, S5 of ES
10.2 Have technical jargons been avoided as far as possible in the executive summary?	✓	-
10.3 Does the executive summary present the main findings of the assessment and cover	✓	S3 of ES
10.4 Does the executive summary include a brief explanation of the overall approach to the assessment?	✓	S3 of ES
10.5 Does the executive summary provide an indication of the confidence which can be placed in the results?	√	S3 of ES
10.6 Is the executive summary presented in both English and Chinese?	✓	Yes, the Executive Summary presented in both English and Chinese. (Chinese version to be provided later)

Attachment 4 Study Brief Checklist for the Project "Hung Shui Kiu Effluent Polishing Plant"

Study Brief	Remark
S.1.2 The proposed works of the Project comprises:	S2.3
(i) construction of a sewage treatment plant with a maximum capacity to treat	
Average Dry Weather Flow (ADWF) up to 90,000m³/day;	
(ii) construction of sludge treatment facilities for treating sludge generated from Hung	
Shui Kiu (HSK) Effluent Polishing Plant (EPP) and additional sludge generated from	
the San Wai Sewage Treatment Works (STW) and other nearby STWs;	
(iii) construction of facilities for receiving and co-digesting pre-treated food or organic	
wastes;	
(iv) construction of effluent discharge pipe connecting to the existing discharge tunnel	
of San Wai STW; and	
(v) associated ancillary works.	
The Project location is shown in Appendix A.	
S.1.3 The Project is a designated project by virtue of Item F.1 of Schedule 2, Part I of	S1.2
the EIAO, which specifies "Sewage treatment works with an installed capacity of	
more than 15 000 m³ per day". Based on the information provided in the Project	
Profile, the Project is also a designated project under Item G.4 of Schedule 2, Part I	
of the EIAO, which specifies "A waste disposal facility (excluding any refuse collection	
point), or waste disposal activity, for (a) refuse; or (b) chemical, industrial or special	
wastes') if pre-treated organic waste will be disposed and treated under the Project.	
S.1.4 Pursuant to section 5(7)(a) of the EIAO, the Director of Environmental	Noted
Protection (the Director) issues this EIA study brief to the Applicant to carry out an	
EIA study.	
S.1.5(i) - the overall acceptability of any adverse environmental consequences that	S13
are likely to arise as a result of the Project;	
S.1.5(ii) - the conditions and requirements for the detailed design, construction and	S3.8, S5.7, S6.6,
operation of the Project to mitigate against adverse environmental consequences	S7.8, S8.9, S9.7
wherever practicable; and	
S.1.5(iii) - the acceptability of residual impacts after the proposed mitigation	S3.9, S5.8, S6.7,
measures are implemented.	S7.9, S8.10, S9.8
S.2.1(i) - to describe the Project and associated works together with the requirements	S2
and environmental benefits for carrying out the Project;	
S.2.1(ii) - to identify and describe elements of community and environment likely to	S3.4, S4.4, S5.4,
be affected by the Project and/or likely to cause adverse impacts to the Project,	S6.3, S7.4, S7.5,
including both the natural and man-made environment and the associated	S8.6, S9.5, S9.6,
environmental constraints;	S10.4

Study Brief	Remark
S.2.1(iii) - to identify and quantify emission sources and determine the significance	S3.5, S4.5, S5.5,
of impacts on sensitive receivers and potential affected uses;	S6.5, S7.5, S8.7,
	S9.5, S9.6, S10.5
S.2.1(iv) - to identify and quantify contaminated land within any project area for	S7
development works, and to propose measures to avoid disposal in the first instance;	
S.2.1(v) - to identify and quantify any potential losses or damages to flora, fauna and	S8.7
natural habitats;	
S.2.1(vi) - to identify and evaluate any potential landscape and visual impacts and to	S9.5, S9.6, S9.7
propose measures to mitigate these impacts;	
S.2.1(vii) - to identify any potential hazard to life due to generation, storage,	S10.5
utilization, processing and transmission (if applicable) of biogas and other dangerous	
goods (DGs) during the operation phase of the Project and to propose measures to	
mitigate these impacts if required;	
S.2.1(viii) - to propose the provision of infrastructure or mitigation measures so as to	S3.8, S5.7, S6.6,
minimize pollution, environmental disturbance and nuisance during construction and	S7.8, S8.9, S9.7
operation of the Project;	
S.2.1(ix) - to investigate the feasibility, effectiveness and implications of the proposed	S3.9, S5.8, S6.7,
mitigation measures;	S7.9, S8.10, S9.7
S.2.1(x) - to identify, predict and evaluate the residual (i.e. after practicable mitigation)	S3.9, S5.8, S6.7,
environmental impacts and the cumulative effects expected to arise during the	S7.9, S8.10, S9.8,
construction and operation phases of the Project in relation to the sensitive receivers	S9.9
and potentially affected uses;	
S.2.1(xi) - to identify, assess and specify methods, measures and standards, to be	S3.8, S5.7, S6.6,
included in the detailed design, construction and operation of the Project which are	S7.8, S8.9, S9.7
necessary to mitigate these residual environmental impacts and cumulative effects	
and reduce them to acceptable levels;	
S.2.1(xii) - to design and specify the environmental monitoring and audit	S3.10, S4.7, S5.9
requirements; and	S6.8, S7.10,
	S8.11, S9.10,
	S10.10
S.2.1(xiii) - to identify any additional studies necessary to implement the mitigation	No additional
measures or monitoring and proposals recommended in the EIA report.	studies are
	required.
S.3.2.1(i) - environmental benefits and dis-benefits of different development options,	S2.5 – S2.8
design and construction methods of the Project with a view to deriving the preferred	
development option(s) that will avoid or minimize adverse environmental impact;	
S.3.2.1(ii) – potential air quality impact on air sensitive receivers (ASRs) due to the	S3
construction and operation of the Project, in particular arising from odour emissions	

Study Brief	Remark
from the operating STW and the co-digestion facility for imported organic wastes and	
construction dust during construction of the Project;	
S.3.2.1(iii) - potential noise impact on noise sensitive receivers (NSRs) due to the	S4
construction and operation of the Project, in particular arising from noise from the	
operating STW and the co-digestion facility for imported organic wastes and	
construction noise during construction of the Project;	
S.3.2.1(iv) – potential water quality impacts on water system(s) including the Deep	S5
Bay Water Control Zone/ North Western Water Control Zone and relevant water	
sensitive receivers, during construction and operation of the Project, in particular	
arising from the effluent discharge from the operating Hung Shui Kiu EPP;	
S.3.2.1(v) – potential waste management issues and impacts during construction and	S6
operation of the Project, in particular arising from handling and disposal of	
construction & demolition materials, sewage sludge and screenings;	
S.3.2.1(vi) - potential extent of land contamination within any project area for	S7
development works and relevant mitigation measures;	
S.3.2.1(vii) - potential ecological impact on ecological sensitive areas during	S8
construction and operation of the Project;	
S.3.2.1(viii) – potential landscape impact arising from the Project and potential visual	S9
impact arising from the above-ground structures of the Project;	
S.3.2.1(ix) - potential hazard to life due to generation, storage, utilization, processing	S10
and transmission (if applicable) of biogas and other DGs during operation of the	
Project;	
S.3.2.1(x) - potential cumulative impacts of the Project, through interaction or in	S2.10, S3.9, S4.6,
combination with other existing, committed and planned projects that may have a	S5.8, S6.7, S7.9,
bearing on the environmental acceptability of the Project.	S8.10, S9.8, S10.7
S.3.3.1 Purpose(s) and Objectives of the Project	S1, S2
The Applicant shall provide information on the purpose(s) and objectives of the	
Project, and describe the environmental benefits of the Project and scenarios with	
and without the Project.	
S.3.3.2 <u>Details of the Project</u>	S2
The Applicant shall indicate the nature and status of project decision(s) for which the	
EIA study is undertaken. The Applicant shall describe the proposed land uses,	
design, construction methods, sequence of construction works and other major	
activities involved in the Project, using diagrams, plans and/or maps as necessary.	
The estimated duration of the construction phase and operational phase of the	
Project together with the programme within these phases shall be given. The land	
taken by the Project site(s), construction sites and any associated access	
arrangements, auxiliary facilities and landscaping areas shall be shown on a scaled	

Study Brief	Remark
map. The uses of the Project shall be described and the different land use areas shall	
be demarcated as appropriate.	
S.3.3.3 Background and History of the Project	S1, S2
The Applicant shall provide information on the site location and site history of the	
Project, interactions with other projects including those related to the reuse of treated	
effluents, and the consideration of different development options, taking into account	
the principles of avoidance, minimizing and control of adverse environmental	
impacts. The options might include design, sewage treatment technologies, sludge	
treatment, co-digestion of organic waste, construction methods and sequence of	
construction works for the Project. The key reasons for selecting the preferred	
development option(s) and the part environmental factors played in the selection shall	
be described. The main environmental impacts of different development options shall	
be compared with those of the Project and with the likely future environmental	
conditions in the absence of the Project.	
S.3.4.1 The Applicant shall conduct the EIA study to address all environmental	S3 – S10
aspects of the activities as described in the scope as set out above. The assessment	
shall be based on the best and latest information available during the course of the	
EIA study.	
S.3.4.2 The Applicant shall include in the EIA report details of the construction	S2, Appendix 2.1
programme and methodologies. The Applicant shall clearly state in the EIA report the	
time frame and work programmes of the Project and associated works and other	
concurrent projects, and assess the cumulative environmental impacts from the	
Project and associated works with all interacting projects, including staged	
implementation of the Project and associated works.	
Air Quality Impact	S3.2
S.3.4.4.1 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.	
S.3.4.4.2 The study area for air quality impact assessment shall be defined by a	S3.4
distance of 500 meters from the boundary of the Project site or other project locations	
as identified in the EIA, which shall be extended to include major existing, planned	
and committed air pollutant emission sources that may have a bearing on the	
environmental acceptability of the Project. The assessment shall include the existing,	
planned and committed sensitive receivers within the study area as well as areas	
where air quality may be potentially affected by the Project. The assessment shall	
be based on the best available information at the time of the assessment.	
S.3.4.4.3 The assessment of air quality impact arising from the construction and	See below
operation of the Project shall be conducted in accordance with the technical	Checklist for

Study Brief	Remark
requirements in Appendix B of this EIA Study Brief.	Appendix B.
Noise Impact	S4.2
S.3.4.5.1 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.	
S.3.4.5.2 Assessment shall include construction noise and fixed noise sources	S4.4
impact assessments of the existing, committed and planned noise sensitive receivers	
(NSRs) earmarked on the relevant Outline Zoning Plans, Development Permission	
Area Plans, Outline Development Plans, Layout Plans and other relevant published	
land use plans, including plans and drawings published by the Lands Department	
and any land use and development applications approved by the Town Planning	
Board, in the vicinity of the Project.	
S.3.4.5.3 The noise impact assessment for the construction and operation of the	See below
Project shall follow the detailed technical requirements given in Appendix C.	Checklist for
	Appendix C.
Water Quality Impact	S5.2
S.3.4.6.1 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.	
S.3.4.6.2 The study area for the water quality impact assessment shall include areas	S5.3
within 500 metres from the boundary of the Project site and shall cover the Deep Bay,	
North Western and other affected Water Control Zones as designated under the	
Water Pollution Control Ordinance (Cap 358) and water sensitive receivers in the	
vicinity of the Project. The study area shall be extended to include other areas if they	
are found also being impacted during the course of the EIA study and have a bearing	
on the environmental acceptability of the Project.	
S.3.4.6.3 The water quality impact assessment for the construction and operation of	See below
the Project shall follow the detailed technical requirements given in Appendix D.	Checklist for
	Appendix D.
Waste Management Implication and Land Contamination	S6.2
S.3.4.7.1 The Applicant shall follow the criteria and guidelines for evaluating and	
assessing waste management implication as stated in Annexes 7 and 15 of the TM	
respectively.	
S.3.4.7.2 The assessment of the waste management implications arising from the	See below
construction and operation of the Project shall follow the detailed technical	Checklist for
requirements given in Appendix E.	Appendix E.
S.3.4.7.3 The Applicant shall follow the guidelines for evaluating and assessing	S7.2
potential land contamination issue as stated in Section 3.1 of Annex 19 of the TM.	
S.3.4.7.4 The assessment of the potential land contamination issue shall follow the	See below
detailed requirements given in Appendix E.	Checklist for

Study Brief	Remark
	Appendix E.
Ecological Impact (Terrestrial and Aquatic)	S8.2
S.3.4.8.1 The Applicant shall follow the criteria and guidelines for evaluating and	
assessing ecological impact as stated in Annexes 8 and 16 of the TM.	
S.3.4.8.2 The assessment area for the purpose of this ecological impact assessment	S8.3
shall include areas within 500m distance from the boundary of the Project and any	
associated works as well as any other 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 3.4.6.	
S.3.4.8.3 The ecological impact assessment for construction and operation of the	See below
Project shall follow the detailed technical requirements given in Appendix F.	Checklist for
	Appendix F.
Landscape and Visual Impacts	S9.2
S.3.4.9.1 The Applicant shall follow the criteria and guidelines as stated in Annexes	
10 and 18 of the TM respectively and the EIAO Guidance Note No. 8/2010 on	
"Preparation of Landscape and Visual Impact Assessment under the Environmental	
Impact Assessment Ordinance" for evaluating and assessing the landscape and	
visual impacts.	
S.3.4.9.2 The assessment area for landscape impact assessment shall include all	S9.5, Figure 9.3,
areas within a 500m distance from the site boundary of the Project. The assessment	9.5 & 9.7
area for the visual impact assessment shall be defined by the visual envelope of the	
Project.	
S.3.4.9.3 The landscape and visual impact assessments for construction and	See below
operation of the Project shall follow the detailed technical requirements given in	Checklist for
Appendix G.	Appendix G.
Hazard to Life	S10.2
S.3.4.10.1 The Applicant shall follow the criteria for evaluating hazard to life as	
stated in section 2 of Annex 4 of the TM.	
S.3.4.10.2 The hazard to life assessment shall follow the detailed technical	See below
requirements given in Appendix H of this EIA study brief.	Checklist for
	Appendix H.
Environmental Monitoring and Audit (EM&A) Requirements	S11
S.3.5.1 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 the EM&A requirements for the Project in	
the EIA study.	
S.3.5.2 Subject to the confirmation of the EIA study findings, the Applicant shall follow	Noted.
the guidelines for an EM&A programme as stated in Annex 21 of the TM.	

Study Brief	Remark
${\bf S.3.5.3\ The\ Applicant\ shall\ prepare\ a\ Project\ Implementation\ Schedule\ in\ the\ form\ of}$	S12
a checklist as shown in Appendix I of this EIA study brief. It shall contain the EIA study	
recommendations and mitigation measures with reference to the implementation	
programme.	
Presentation of Summary Information	S13
S.3.6.1 <u>Summary of Environmental Outcomes</u>	
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.	
S.3.6.2 <u>Summary of Environmental Impacts</u>	Appendix 13.2
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 essential part of the executive summary of the EIA	
report.	
S.3.6.3 <u>Documentation of Key Assessment Assumptions, Limitation of Assessment</u>	Appendix 13.1
Methodologies and related Prior Agreement(s) with the Director	
The EIA report shall contain a summary including the assessment methodologies and	
key assessment assumptions adopted in the EIA study, the limitations of these	
assessment(s) methodologies/assumptions, if any, plus relevant prior agreement(s)	
with the Director or other Authorities on individual environmental media assessment	
components. The proposed use of any alternative assessment tool(s) or	
assumption(s) have to be justified by the Applicant, with supporting documents based	
on cogent, scientific and objectively derived reason(s) before seeking the Director's	
agreement. The supporting documents shall be provided in the EIA report.	
S.3.6.4 <u>Summary of Alternative Mitigation Measures</u>	S13
The EIA report shall contain a summary of alternative development options and	
measures considered during the course of EIA study, including size/scale, design,	
construction methods and sequence of works for the Project, with a view to avoiding	
or minimizing and mitigating adverse environmental impacts. A comparison of the	
environmental benefits and dis-benefits of applying different development options,	
and/or mitigation measures shall be made. This summary shall cover the key impacts	
and shall also form an essential part of the executive summary of the EIA report.	

Study Brief	Remark
S.3.6.5 <u>Documentation of Public Concerns</u>	S2
The EIA report shall contain a summary of the main concerns of the general public,	
special interest groups and the relevant statutory or advisory bodies received and	
identified by the Applicant during the course of the EIA study, and describe how the	
relevant concerns have been taken into account.	
S.5.1 In preparing the EIA report, the Applicant shall refer to Annex 11 of the TM for	Noted.
the contents of an EIA report. The Applicant shall also refer to Annex 20 of the TM,	
which stipulates the guidelines for the review of an EIA report. When submitting the	
EIA report to the Director, the Applicant shall provide a summary, pointing out where	
in the EIA report the respective requirements of this EIA study brief and the TM (in	
particular Annexes 11 and 20) have been addressed and fulfilled.	
S.5.2 The Applicant shall supply the Director with hard and electronic copies of the	Noted.
EIA report and the executive summary in accordance with the requirements given in	
Appendix J. The Applicant shall, upon request, make additional copies of EIA	
report/documents available to the public, subject to payment by the interested parties	
of full costs of printing.	
APPENDIX B (Requirements for Air Quality Impact Assessment)	
Background and Analysis of Activities	S3.5
(i) - Provision of background information relating to air quality issues 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.	
(ii) - Provision of an account, where appropriate, of the consideration/ measures that	S3.5
have been taken into consideration during the planning of the Project to abate the air	
pollution impact. The Applicant shall consider alternative locations of the new	
treatment facilities, alternative treatment processes of STW and alternative	
construction methods to minimize the air quality impact	
during construction and operation stages of the Project.	
(iii) - Presentation of background air quality levels in the study area for the purpose	S3.3, S3.6
of evaluating cumulative air quality impacts during construction and operation stages	
of the Project.	
Identification of Air Sensitive Receivers (ASRs) and Examination of	S3.4
Emission/Dispersion Characteristics	
(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	

Study Brief	Remark
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.	
(ii) - Provision of a list of air pollution emission sources, including any nearby emission	S3.5
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. Confirmation	
regarding the validity of the assumptions adopted and the magnitude of the activities	
(e.g. volume of construction material handled, etc.) shall be obtained from the	
relevant government departments/authorities and documented.	
(iii) - The emissions from any concurrent projects identified as relevant during the	S3.5
course of the EIA study shall be taken into account as contributing towards the overall	
cumulative air quality impact. The impact as affecting the existing, committed and	
planned ASRs within the study area shall be assessed, based on	
the best information available at the time of assessment.	
Construction Phase Air Quality Impact	S3.9
(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 of the Project shall	
be devised to verify the effectiveness of the proposed control measures so as to	
ensure proper control of fugitive dust	
emission.	
(ii) - If the Applicant anticipates that the Project will give rise to significant construction	S3.8
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 earned out to evaluate the construction dust impact at the identified ASRs.	
The Applicant shall follow the methodology set out in Section 5 below when carrying	
out the quantitative assessment.	
(iii) - The applicant shall ensure that any odour emission resulting from the	S3.5
construction activities of the Project is properly controlled and meet the relevant	
criteria as stipulated in Section 1 of Annex 4 of the TM. A monitoring and audit	
programme for the construction phase of the Project shall be devised to verify the	
effectiveness of the proposed control measures so as to ensure proper odour	
emission control.	
Operational Phase Air Quality Impact	S3.5
(i) - The Applicant shall assess the expected air quality impact arising from the	

Study Brief	Remark
activities in the proposed Project site, including odour and gaseous emissions, if any,	
from the sewage treatment plant and associated facilities, and odour from transport	
of sludge and organic wastes, during the operational phase based on assumed	
reasonably worst case scenario under normal operating condition.	
(ii) - If the Applicant anticipates that the Project will give rise to significant operational	S3.6.3, S3.8
phase air quality impacts likely to exceed the recommended limits in the TM at the	
ASRs, a quantitative assessment should be carried out to evaluate the operational	
phase air quality impacts at the identified ASRs. The Applicant shall follow the	
methodology set out in Section 5 below when carrying out the quantitative	
assessment. A monitoring and audit programme for the operational stage shall be	
devised to verify the effectiveness of the control measures proposed so as to ensure	
proper operational odour control.	
Quantitative Assessment Methodology	S3.6
(i) - The Applicant shall apply the general principles enunciated in the modeling	
guidelines in Appendix B1 while making allowance for the specific characteristic of	
the Project. This specific methodology must be documented in such level of details,	
preferably assisted with tables and diagrams, to allow the readers of the EIA report	
to grasp how the model has been set up to simulate the situation under study without	
referring to the model input files. Detailed calculations of air pollutants emission rates	
for input to the model shall be presented in the EIA report. 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.	
(ii) - The Applicant shall identify the key/representative air pollution parameters (types	S3.5
of pollutants and averaging time concentrations) to be evaluated and provide	
explanation for selecting such parameters for assessing the impact from the Project.	
(iii) - The Applicant shall calculate the overall cumulative air quality impact at the	S3.7
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.	
(iv) - For the quantitative assessment of the odour emission impact upon the identified	S3.6.1, Appendix
ASRs, the odour emission strength/ rates shall be based on the results of odorous	3.7
air sampling/ measurement conducted directly at the odour emission sources within	
the assessment area as defined in Section 3.4.4.2. The details of such odorous air	

sampling/ measurement, including the methodology and calculation of the odour emission strength/rates, shall be presented in the EIA report. Mitigation Measures for Non-compliance 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. Submission of Model Files All input and output files of the model run(s), including those files for the generation of pollution contours as well as the emissions calculation worksheets, shall be submitted to the Director in electronic format together with the submission of the EIA report. APPENDIX C (Requirements for Noise Impact Assessment) Description of the Noise Environment S.1.1 - The Applicant shall describe the prevailing noise environment in the EIA report. S.1.2 - The Applicant shall conduct prevailing background noise surveys to determine the standards for evaluating noise impact from fixed noise source. The respective noise environment should be documented in the EIA report. Construction Noise Impact Assessment Construction Noise Impact Assessment Construction Noise Impact Assessment Methodology S.2.1.1 - The Applicant shall carry out construction noise impact assessment (excluding percussive piling) of the Project during daytime, i.e. 7am 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. Identification of Construction Noise Impact assessment Area and Noise Sensitive Receivers (NSRs) S.2.2.1(a) - The Applicant shall propose the assessment area for agreement of the Director before commencing the assessment shall generally include are	Study Brief	Remark
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Construction Noise Impact Assessment Construction Noise Impact Assessment Methodology S.2.1.1 - The Applicant shall carry out construction noise impact assessment (excluding percussive piling) of the Project during daytime, i.e. 7am 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. Identification of Construction Noise Impact Identification of Assessment Area and Noise Sensitive Receivers (NSRs) S.2.2.1(a) - The Applicant shall propose the assessment area for agreement of the Director before commencing the assessment. The assessment area for the construction noise impact assessment shall generally include areas within 300 metres from the boundary of the Project and the works of the Project. S.2.2.1(b) - The Applicant shall identify all existing NSRs in the assessment area and select assessment points to represent identified NSRs for carrying out quantitative construction noise impact assessment described below.	the standards for evaluating noise impact from fixed noise source. The respective	
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Director before commencing the assessment. The assessment area for the construction noise impact assessment shall generally include areas within 300 metres from the boundary of the Project and the works of the Project. S.2.2.1(b) - The Applicant shall identify all existing NSRs in the assessment area and select assessment points to represent identified NSRs for carrying out quantitative construction noise impact assessment described below.	Identification of Assessment Area and Noise Sensitive Receivers (NSRs)	
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metres from the boundary of the Project and the works of the Project. S.2.2.1(b) - The Applicant shall identify all existing NSRs in the assessment area and select assessment points to represent identified NSRs for carrying out quantitative construction noise impact assessment described below.	Director before commencing the assessment. The assessment area for the	
S.2.2.1(b) - The Applicant shall identify all existing NSRs in the assessment area and select assessment points to represent identified NSRs for carrying out quantitative construction noise impact assessment described below.	construction noise impact assessment shall generally include areas within 300	
S.2.2.1(b) - The Applicant shall identify all existing NSRs in the assessment area and select assessment points to represent identified NSRs for carrying out quantitative construction noise impact assessment described below.	metres from the boundary of the Project and the works of the Project.	
construction noise impact assessment described below.		S4.4
construction noise impact assessment described below.	select assessment points to represent identified NSRs for carrying out quantitative	
S.2.2.1(c) - The assessment points shall be confirmed with the Director prior to the S4.4	construction noise impact assessment described below.	
	S.2.2.1(c) - The assessment points shall be confirmed with the Director prior to the	S4.4

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commencement of the quantitative construction noise impact assessment and may	
be varied subject to the best and latest information available during the course of the	
EIA study.	
S.2.2.1(d) - A map showing the location and description such as name of building,	S4.4
use, and floor of each and every selected assessment point shall be given.	
Photographs of existing NSRs shall be appended to the EIA report.	
Inventory of Noise Sources	S4.5
S.2.2.2 - The Applicant shall identify and quantify an inventory of noise sources for	
representative construction equipment for the purpose of construction noise impact	
assessment.	
Prediction and Evaluation of Construction Noise Impact	S4.5
Phases of Construction	
S.2.3.1 - The Applicant shall identify representative phases of construction that would	
have noticeable varying construction noise emissions at existing NSRs at the	
assessment area for agreement of the Director before commencing the construction	
noise impact assessment.	
Scenarios	S4.6
S.2.3.2 - The Applicant shall quantitatively assess the construction noise impact, with	
respect to criteria set in Annex 5 of the TM, of unmitigated scenario and mitigated	
scenario at different phases of construction of the Project.	
Prediction of Noise Impact	S4.6
S.2.3.3(a) - The Applicant shall present the predicted noise levels in Leq (30 min)	
dB(A) at the selected assessment points at various representative floor levels (in m	
P.D.) on tables and plans of suitable scale.	
S.2.3.3(b) - The assessment shall cover the cumulative construction noise impact	S4.5
resulting from the construction works of the Project and other concurrent projects	
identified during the course of the E1A study on existing NSRs within the assessment	
area.	
S.2.3.3(c) - The potential construction noise impact under different phases of	S4.6
construction shall be quantified by estimating the total number of dwellings,	
classrooms and other noise sensitive receivers that will be exposed to noise impact	
exceeding the criteria set in Annex 5 in the TM.	
S.2.3.3(d) - The Applicant shall, as far as practicable, formulate a reasonable	S4.5
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. Regardless of the results of	

Study Brief	Remark
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 should be explicitly stated in the	
noise chapter and the conclusions and recommendations chapter in EIA report.	
Mitigation of Construction Noise Impact	S4.6
Direct Mitigation Measures	
S.2.4.1 - Where the predicted construction noise impact exceeds the criteria set in	
Table 1 B of Annex 5 of the TM, the Applicant shall consider and evaluate direct	
mitigation measures including but not limited to, movable barriers, enclosures, quieter	
alternative methods, re-scheduling, restricting hours of operation of noisy tasks, etc.	
The feasibility, practicability, programming and effectiveness of the recommended	
mitigation measures shall be assessed. Any direct mitigation measures	
recommended should be well documented in the report. Specific reasons for not	
adopting certain direct mitigation measures to reduce the noise to a level meeting the	
criteria in the TM or to maximize the protection for the NSRs as far as possible should	
be clearly substantiated and documented in the EIA report.	
Evaluation of Residual Construction Noise Impact	N/A
S.2.5 - Upon exhaust of direct mitigation measures, if the mitigated noise impact still	
exceeds the relevant criteria in Annex 5 of the TM, the Applicant shall identify, predict,	
evaluate the residual construction noise impact in accordance with section 4.4.3 of	
the TM and estimate the total number of existing dwellings, classrooms and other	
noise sensitive elements that will be exposed to residual noise impact exceeding the	
criteria set in Annex 5 in the TM.	
Fixed Noise Sources Impact Assessment	S4
Fixed Noise Sources Impact Assessment Methodology	
S.3.1 - The Applicant shall carry out fixed noise sources impact assessment from the	
Project in accordance with the methodology in paragraph 5.2 of Annex 13 of the TM.	
Identification of Fixed Noise Sources Impact	S4.4
Identification of Assessment Area and Noise Sensitive Receivers (NSRs)	
S.3.2.1(a) - The Applicant shall propose the assessment area for agreement of the	
Director before commencing the assessment. The assessment area for the fixed	
noise impact shall generally include areas within 300 metres from the boundary of	
the Project and the works of the Project.	
S.3.2.1(b) - The Applicant shall identify all existing, committed and planned NSRs in	S4.4
the assessment area and select assessment points to represent identified NSRs for	
carrying out fixed noise sources impact assessment described below.	
S.3.2.1(c) - The assessment points shall be confirmed with the Director prior to the	S4.

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commencement of the quantitative fixed noise sources impact assessment and may	
be varied subject to the best and latest information available during the course of the	
El A study.	
S.3.2.1(d) - A map showing the location and description such as name of building,	S.4.4
use, and floor of each and every selected assessment point shall be given.	
Photographs of existing NSRs shall be appended to the EIA report.	
S.3.2.1(e) - For planned noise sensitive land uses without committed site layouts, the	S4.4
Applicant should use the relevant land use and planning parameters and conditions	
to work out representative site layouts for fixed noise sources impact assessment	
purpose. However, such parameters and conditions together with the representative	
site layouts and any constraints identified shall be confirmed with the relevant	
responsible parties including Planning Department and Lands Department.	
Inventory of Noise Sources	S4.5
S.3.2.2(a) - The Applicant shall identify and quantify an inventory of noise sources for	
fixed noise sources impact assessment. The inventory of noise sources shall include,	
but not limited to noise associated with any permanent and temporary industrial noise	
sources.	
S.3.2.2(b) - The Applicant shall provide document or certificate, with a methodology	N/A
accepted by recognized national/international organisation, for the sound power level	
of each type of fixed noise sources.	
S.3.2.2(c) - Validity of the inventory shall be confirmed with the relevant government	N/a
departments/authorities and documented in the EIA report.	
Prediction and Evaluation of Fixed Noise Sources Impact	S4.6
Scenarios	
S.3.3.1(a) - The Applicant shall quantitatively assess the fixed noise sources impact	
of the Project, with respect to the criteria set in Annex 5 of the TM, of unmitigated	
scenario and mitigated scenario at assessment year of various operation modes	
including, but not limited to,	
(i) the worst operation mode which represents the maximum noise emission in	
connection of identified noise sources of the Project; and	
(ii) any other operation modes as confirmed with the Director.	
S.3.3.1(b) - Validity of the above operation modes shall be confirmed with relevant	N/A
departments/authorities and documented in the EIA report.	
Prediction of Noise Impact	S4.6
S.3.3.2(a) - The Applicant shall present the predicted noise levels in Leq (30 min)	
dB(A) at the selected assessment points at various representative floor levels (in m	
P.D.) on tables and plans of suitable scale.	
S.3.3.2(b) - The assessment shall cover the cumulative fixed noise sources impact	S4.6

ssociated with the operation of the Project on existing, committed and planned SRs within the assessment area.	
SRs within the assessment area.	
3.3.2(c) - The potential fixed noise sources impact under different scenarios shall Section 2.3.3.2(c)	54.6
e quantified by estimating the total number of dwellings, classrooms and other noise	
ensitive receivers that will be exposed to noise impact exceeding the criteria set in	
nnex 5 in the TM.	
itigation of Fixed Noise Sources Impact	N/A
rect Mitigation Measures	
3.4.1 - Where the predicted fixed noise sources impact exceeds the criteria set in	
ble 1A of Annex 5 of the TM, the Applicant shall consider and evaluate direct	
itigation measures including but not limited to noise barrier/enclosure, screening by	
oise tolerant buildings, etc. The feasibility, practicability, programming and	
fectiveness of the recommended mitigation measures shall be assessed. Any direct	
itigation measures recommended shall be well documented in the report. Specific	
asons for not adopting certain direct mitigation measures to reduce the noise to a	
vel meeting the criteria in the TM or to maximize the protection for the NSRs as far	
possible should be clearly substantiated and documented in the EIA report.	
valuation of Residual Fixed Noise Sources Impact	N/A
3.5 - Upon exhaust of direct mitigation measures, if the mitigated noise impact still	
ceeds the relevant criteria in Annex 5 of the TM, the Applicant shall identify, predict,	
valuate the residual fixed noise sources impact in accordance with section 4.4.3 of	
e TM and estimate the total number of existing dwellings, classrooms and other	
oise sensitive elements that will be exposed to residual noise impact exceeding the	
iteria set in Annex 5 in the TM	
PPENDIX D (Requirements for Water Quality Impact Assessment)	
The Applicant shall identify and analyse physical, chemical and biological S	S5.3. S5.4
sruptions of the water system(s) arising from the construction and operation of the	
roject.	
The Applicant shall predict, quantify and assess any water quality impacts arising S	S5.5, S5.6
om the construction and operation of the Project by appropriate mathematical	
odelling and/or other techniques proposed by the Applicant and approved by the	
rector. The mathematical modelling requirements are set out in Appendix D-I.	
ossible impacts due to dredging, fill extraction, backfilling, transportation	
nddisposal of dredged materials, other marine works activities, effluent discharge,	
ermal/cooling water and biocide discharge, overflow of sewage pumping stations	
nd site runoff shall include changes in hydrology, flow regime, sediment erosion and	
eposition patterns, morphological change of seabed profile, water quality and	
ediment quality. The prediction shall include possible different construction stages	

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or sequences of the Project. Affected sensitive receivers shall be identified by the	
assessment tool with indications of degree of severity.	
3. The assessment shall include, but not be limited to the following:	S5.6
(i). the water quality impacts during the construction and the commissioning of the	
effluent discharge pipe connecting to the existing NWNT Effluent Tunnel;	
(ii). the assessment on operation stage shall have regard to the frequency, duration,	S5.6
volume and flow rate of the discharges and its pollutant. The assessment shall also	
cover the capacity of the NWNT Effluent Tunnel and its associated outfall;	
(iii). the water quality impacts of temporary and accidental discharges at the EPP	S5.6
during construction and operation stages of the Project to the surrounding water	
bodies such as Deep Bay, North Western and other affected Water Control Zones.	
The assessment shall also take into account when the NWNT Effluent Tunnel and its	
associated outfall are not in operation;	
(iv). the water quality impacts of chemical spillage during construction and operation	S5.6
stages of the Project in particular the accidental spillage associated with transfer and	
storage of chemicals during operation of the Project; and	
(v). the water quality impacts during the receiving and co-digesting organic waste.	S5.6
4. The Applicant shall address water quality impacts due to the construction phase	S5.3
and operational phase of the Project. Essentially, the assessment shall address the	
following :	
(i). collect and review background information on affected existing and planned water	
systems, their respective catchments and sensitive receivers which might be affected	
by the Project;	
(ii). characterize water quality of the water systems and sensitive receivers, which	S5.3, S5.4
might be affected by the Project based on existing best available information and	
through appropriate site survey and tests when existing data are insufficient;	
(iii). identify and analyse relevant existing and planned future activities, beneficial	S5.5
uses and water sensitive receivers related to the affected water system(s). The	
Applicant should refer to, inter alia, those developments and uses earmarked on the	
relevant Outline Zoning Plans, Development Permission Area Plans, Outline	
Development Plans and Layout Plans, and any other relevant published land use	
plans;	
(iv). identify pertinent water quality objectives and establish other appropriate water	S5.2
quality criteria or standards for the water system(s) and the sensitive receivers	
identified in (i), (ii) & (iii) above;	
(v). review the specific construction methods and configurations, and operation of the	S5.5, S5.6
Project to identify and predict the likely water quality impacts arising from the Project;	
(vi). identify any alternation of any water courses, natural streams, ponds, wetlands,	S5.4

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flow regimes of water bodies, catchment types or areas, erosion or sedimentation	
due to the Project and any other hydrological changes in the study area;	
(vii). identify and quantify existing and likely future water pollution sources, including	S5.6
point discharges and non-point sources to surface water runoff, sewage from	
workforce and polluted discharge generated from the Project;	
(viii). provide an emission inventory on the quantities and characteristics of those	S5.6
existing and future pollution sources in the study area. Field investigation and	
laboratory test, shall be conducted as appropriate to fill relevant information gaps;	
(ix). predict and quantify the water quality impacts arising from those alternations and	S5.6
changes identified in (vi) to (viii) above. The prediction shall take into account and	
include possible different construction and operation stages of the Project. The use	
of disinfection shall be carefully evaluated;	
(x). assess the cumulative impacts due to other related concurrent and planned	S5.9
projects, activities or pollution sources within the study area that may have a bearing	
on the environmental acceptability of the Project;	
(xi). analyze the provision and adequacy of existing and planned future facilities to	S5.6
reduce pollution arising from the point and non-point sources identified in (vii) above;	
(xii). develop effective infrastructure upgrading or provision, contingency plan, water	S5.7
pollution prevention and mitigation measures to be implemented during construction	
and operation stages, including emergency sewage discharge in the case of sewage	
treatment works and sewage pumping stations, so as to reduce the water quality	
impacts to within standards. Effluent generated from the Project shall require	
appropriate collection, treatment and disposal in considering the stressed condition	
within Deep Bay catchment. Requirements to be incorporated in the Project contract	
document shall also be proposed;	
(xiii). investigate and develop best management practices to reduce storm water and	S5.7
non-point source pollution as appropriate;	
(xiv). evaluate and quantify residual impacts on water system(s) and the sensitive	S5.8
receivers with regard to the appropriate water quality objectives, criteria, standards	
or guidelines;	
(xv). evaluate, predict and characterize the effluent characteristics of the Project with	S5.6
different levels of treatment and disinfection processes. The Applicant shall predict	
the effluent characteristics by making reference to the influent characteristics from	
both sewage and organic waste, anticipated performance of the treatment and	
disinfection process at the proposed EPP, the finding of previous studies, and	
conducting additional samplings and tests if needed;	
(xvi). devise mitigation measures to avoid or minimize the impacts identified above.	S5.7, S5.8
The residual water quality impacts of the water systems with regard to the relevant	

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water quality objectives, criteria, standards or guidelines shall be assessed and			
quantified using appropriate mathematical models set out in Appendix D-I to this EI A			
study brief; and			
(xvii). recommend appropriate m	itigation measures, including a co	ontingency plan, to	S5.7
minimize the duration and impa	ct of temporary and accidental	discharges during	
operation stage of the Project.			
APPENDIX D-1 (Hydrodynamic	and Water Quality Modelling F	Requirements)	
Modelling software general			S5.5
1. The modelling software sha	all be fully 3-dimensional capa	able of accurately	
simulating the stratified condition	n, salinity transport, and effects o	of wind and tide on	
the water body within the model	area.		
2. The modelling software shall	consist of hydrodynamic, water	quality, sediment	S5.5
transport, thermal and particle	dispersion modules. All modules	s shall have been	
proven with successful application	ons locally and overseas.		
3. The hydrodynamic, water quali	ity, sediment transport and therma	al modules shall be	S5.5
strictly mass conserved at all leve	els.		
4. An initial dilution model shall be	e used to characterize the initial m	ixing of the effluent	N/A
discharge, and to feed the terminal level and size of the plume into the far field water			
quality modules where necessary. The initial dilution model shall have been proven			
with successful applications locally and overseas.			
Model details – Calibration & Validation		S5.5	
1. The models shall be properly calibrated and validated against applicable existing			
and/or newly collected field data before their use in this study in the Hong Kong			
waters, the Pearl Estuary and the Dangan (Lerna) Channel. The field data set for			
calibration and validation shall be agreed with EPD.			
2. Tidal data shall be calibrated and validated in both frequency and time domain		S5.5	
manner.			
3. For the purpose of calibration and validation, the model shall run for not less than		S5.5	
15 days of real sequence of tide (excluding model spin up) in both dry and wet			
seasons with due consideration of the time required to establish initial conditions.			
4. In general the hydrodynamic n	nodels shall be calibrated to the f	ollowing criteria:	S5.5
Criteria	Level of fitness with field data		
• tidal elevation (@)	< 8 %		
maximum phase error at high	< 20 minutes		
water and low water			
maximum current speed	< 30 %		
deviation			
maximum phase error at	< 20 minutes		

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peak speed			
maximum direction error at	< 1 5 degrees		
peak speed			
maximum salinity deviation	< 2.5 ppt		
@ Root mean square of the err	or including the mean and fluctu	ating components	
shall meet the criteria at no less	than 80% of the monitoring sta	tions in the model	
domain			
5. The Applicant shall be respon-	sible for acquiring/developing an	d calibration of the	S5.5
models for use in this study the	mselves. They may make refere	nce to the models	
developed under the Update on 0	Cumulative Water Quality and Hy	drological Effect of	
Coastal Developments and Up	grading of Assessment Tool (A	greement No. CE	
42/97). They may also propose to	o use other models subject to ag	reement with EPD.	
Model details - Simulation			S5.6
1. The water quality modelling	results shall be qualitatively exp	plainable, and any	
identifiable trend and variations	in water quality shall be reprodu	ced by the model.	
The water quality model shall be	able to simulate and take accour	nt of the interaction	
of dissolved oxygen, phytoplank	kton, organic and inorganic nitro	ogen, phosphorus,	
silicate, BOD, temperature, susp	ended solids, contaminants relea	se of dredged and	
disposed material, air-water exc	hange, E. coli and benthic proce	esses. It shall also	
simulate salinity. Salinity results s	imulated by hydrodynamic model	s and water quality	
models shall be demonstrated to	be consistent.		
2. The sediment transport modu	ule for assessing impacts of sec	diment loss due to	N/A
marine works shall include the p	•		
values of the modelling parameters shall be agreed with EPD. Contaminants release			
and DO depletion during dredgin			
3. The models shall at least co	ver Deep Bay, the Pearl Estuary	y and the Dangan	S5.5
Channel to incorporate all major i	nfluences on hydrodynamic and v	water quality. A fine	
grid model may be used for detai	led assessment of this study. It sh	nall either be linked	
to a far field model or form part	of a larger model by gradual gr	id refinement. The	
coverage of the fine grid model	shall be properly designed suc	h that it is remote	
enough so that the boundary con	ditions will not be affected by the	project. The model	
coverage area shall be agreed w	ith EPD.		
4. In general, grid size at the area	a affected by the project shall be	less than 400 m in	S5.5
open waters and less than 75 m	around sensitive receivers. The	grid shall also be	
able to reasonably represent coa	astal features existing and propo	sed in the project.	
The grid schematization shall be	agreed with EPD.		
5. The Applicant shall submit a W	,		S5.5
before proceeding to modelling a	ssessment. The Plan shall at leas	st demonstrate that	

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the models meet the requirements as set out under the sections of Modelling software	
general, Model details - Calibration & Validation and Model details - Simulation in this	
Appendix.	
Modelling assessment	S5.5, S5.6
1. The assessment shall include the construction and operation phases of the project.	
Where appropriate, the assessment shall also include maintenance dredging.	
Scenarios to be assessed shall cover the baseline condition and scenarios with	
various different options proposed by the Applicant in order to quantify the	
environmental impacts and improvements that will be brought about by these options.	
Corresponding pollution load, bathymetry and coastline shall be adopted in the model	
set up.	
2. Hydrodynamic, sediment transport and thermal modules, where appropriate, shall	S5.5
be run for (with proper model spin up) at least a real sequence of 15 days spring-	
neap tidal cycle in both the dry season and the wet season. Water quality module	
shall be run for (with proper model spin up) at least a complete year incorporating	
monthly variations in Pearl River discharges, solar radiation, water temperature and	
wind velocity in the operational stage.	
3. For assessing temporary discharges via the emergency outfall, the Applicant shall	S5.6
estimate discharge loading, pattern and duration. The worst case scenario shall	
include discharge near slack water of neap tide. A period of at least 15 days spring-	
neap cycle in wet season, but long enough for recovery of the receiving water, shall	
be simulated. Detailed methodology shall be agreed with EPD.	
4. The results shall be assessed for compliance of Water Quality Objectives.	S5.6
5. The impact on all sensitive receivers shall be assessed.	S5.6
6. Cumulative impacts due to other projects, activities or pollution sources within a	S5.6
boundary to the agreement of EPD shall also be predicted and quantified.	
7. All modelling input data and results shall be submitted in digital media to EPD when	Noted.
requested.	
APPENDIX E (Requirements for Assessment of Waste Management Implication	
and Land Contamination)	
1. Analysis of Activities and Waste Generation	S6.5, S6.6
The Applicant shall identify the quantity, quality and timing of the wastes arising as a	
result of the construction and operation 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, sewage sludge, screening, grits, chemical waste and other wastes which will	
be generated during construction and operation stages. The Applicant shall adopt	
appropriate design, general layout, construction methods and programme to	

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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.	
2. Proposal for Waste Management	S6.6
(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	
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;	
(ii) - After considering the opportunities for reducing waste generation and maximizing	S6.6
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. The disposal methods/options recommended for each	
type of wastes shall take into account the result of the assessment in section 2 (iv)	
below;	
(iii) - The EIA report shall state the transportation routings and the frequency of the	S6.6, Table 6.2
trucks/vessels involved, any barging point or conveyor system to be used, the	
stockpiling areas and the disposal outlets for the wastes identified; and	
(iv) - The impact caused by handling (including stockpiling, labelling, packaging &	S6.6
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:	
- potential hazard;	
- air and odour emissions;	
- noise;	
- wastewater discharge; and	
- public transport.	
3. Land Contamination	S7.4, S7.5
3.1 The Applicant shall identify the potential land contamination site(s) within the	
Project Area (Appendix A refers) and, if any, within the boundaries of associated	
areas (e.g. work areas) of the Project.	
3.2 The Applicant shall provide a clear and detailed account of the present land use	S7.5
(including description of the activities, chemicals and hazardous substances handled,	
with clear indication of their storage and location, by reference to a site layout plan)	
and a complete past land uses history, in chronological order, in relation to possible	
land contamination (including accident records and change of land use(s) and the	
like).	
3.3 If any contaminated land uses is identified, the Applicant shall carry out the land	Appendix 7.1
3.3 If any contaminated land uses is identified, the Applicant shall carry out the land	Appendix 7.1

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contamination assessment as detailed from sub-section (i) to (iii) below and propose	
measure to avoid disposal-:	
(i) During the course of the EIA study, the Applicant shall submit a Contamination	
Assessment Plan (CAP) to the Director for endorsement prior to conducting an actual	
contamination impact assessment of the land or site(s). The CAP shall include	
proposal with details on representative sampling and analysis required to determine	
the nature and the extent of the contamination of the land or site(s). Alternatively, the	
Applicant may refer to other previously agreed and still relevant and valid CAP(s) for	
the concerned site(s).	
(ii) Based on the endorsed CAP, the Applicant shall conduct a land contamination	S7.8, Appendix 7.1
impact assessment and submit a Contamination Assessment Report (CAR) to the	
Director for endorsement. If land contamination is confirmed, a Remedial Action Plan	
(RAP) to formulate viable remedial measures with supporting documents, such as	
agreement by the relevant facilities management authorities, shall be submitted to	
the Director for approval. The Applicant shall then clean up the contaminated land or	
site(s) according to the approved RAP, and a Remediation Report (RR) to	
demonstrate adequate clean-up should be prepared and submitted to the Director for	
endorsement prior to the commencement of any development or redevelopment	
works within the Project Area. The CAP, CAR and RAP shall be documented in the	
EIA report.	
(iii) If there are potential contaminated sites which are inaccessible for conducting	
sampling and analysis during the course of the EIA study, e.g. due to site access	
problem, the Applicant's CAP shall include :	
a) a review of the available and relevant information;	S2 and S3 of
	Appendix 7.1
b) an initial contamination evaluation of these sites and possible remediation	S5 of Appendix 7.1
methods;	
c) a confirmation of whether the contamination problem at these sites would be	S5 of Appendix 7.1
surmountable;	
d) a sampling and analysis proposal which shall aim at determining the nature	S4 of Appendix 7.1
and the extent of the contamination of these sites; and	
e) where appropriate, a schedule of submission of revised or supplementary	S6 of Appendix 7.1
CAP, CAR, RAP and RR as soon as these sites become accessible.	
APPENDIX F (Requirements for Ecological Impact Assessment (Terrestrial and	
Aquatic))	
1. In the ecological impact assessment, the Applicant shall examine the flora, fauna	S8.3, S8.4, S8.5,

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and other components of the ecological habitats within the assessment area. The	S8.7, S8.8
aim shall be to protect, maintain or rehabilitate the natural environment. In particular,	
the	
Project shall avoid or minimise impacts on recognised sites of conservation	
importance and other ecologically sensitive areas such as the mitigation wetlands	
reprovisioned under the Deep Bay Link project. The assessment shall identify and	
quantify as far as possible the potential ecological impacts to the natural environment	
and the associated wildlife groups and habitats/species arising from the Project	
including its construction and operation phases as well as the subsequent	
management and maintenance of the proposals.	
2. The assessment shall include the followings:	S8.4
(i) - Review of the findings of relevant studies/surveys and collection of the available	
information regarding the ecological characters of the assessment area;	
(ii) - Evaluation of information collected and identification of any information gap	S8.4
relating to the assessment of potential ecological impact, and determine the	
ecological field surveys and investigations that are needed for an impact assessment	
as required in the following sections;	
(iii) - Carrying out necessary field surveys of at least 4 months and investigations to	S8.3
verify the information collected in (ii) above, to fill the information gaps identified and	
to fulfill the objectives of the EIA study;	
(iv) - Establishment of the general ecological profile of the assessment area based	S8.4, S8.5, S8.6,
on data of relevant previous studies/surveys and results of the ecological field	Figure 8.3,
surveys, if any, and description of the characteristics of each habitat found. Major	Appendix 8.1
information to be provided shall include :	
a) description of the physical environment, including all recognized sites of	
conservation importance and other ecologically sensitive areas, and	
assessment of whether these sites/areas will be affected by the Project or not;	
b) habitat maps of suitable scale (1:1000 to 1:5000) showing the types and	
locations of habitats/species in the assessment area;	
c) ecological characteristics of each habitat type such as size, vegetation, type,	
species present, dominant species found, species diversity and abundance,	
community structure, seasonal pattern, ecological value and inter-	
dependence of the habitats and species, and presence of any features of	
ecological importance;	
d) representative colour photos of each habitat type and any important ecological	
features identified; and	
e) species found that are rare, endangered and/or listed under local legislation,	
international conventions for conservation of wildlife/habitats or red data	

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books.	
(v) - Investigation and description of the existing wildlife uses of the various habitats	S8.5, S8.6
with special attention to those wildlife groups and habitats with conservation interests,	
including but not limited to:	
a) natural and man-made wetland habitats including mitigation wetlands and watercourses;	
b) waterbirds and wetland-dependent birds species roosting and/or feeding in	
the wetland habitats above; and	
c) any other habitats or species identified as having special conservation	
interests by this study.	C0 7
(vi) - Using suitable methodology and considering also other projects in the vicinity of	S8.7
the Project area reasonably likely to occur at the same time, identification and	
quantification as far as possible of any direct, indirect, on-site, off-site, primary,	
secondary and cumulative ecological impacts, such as destruction of habitats,	
reduction of species abundance/diversity, loss of roosting, breeding and feeding	
grounds, reduction of ecological carrying capacity, loss in ecological linkage and	
function, habitat fragmentation and any other possible disturbance caused by the	
Project, and in particular the followings :	
a) noise, glare, dust and other human disturbance to wildlife in particular	
waterbirds and sensitive wetland habitats in the vicinity such as mitigation	
wetlands and watercourses during construction and operation phases;	
b) indirect ecological impacts due to changes in the water quality and hydrology	
as a result of surface run-off, discharge of treated effluent and any associated	
disinfection activities, temporary sewage overflow, accidental discharge of	
untreated sewage, etc. in the mitigation wetlands, watercourses and other	
wetland habitats in the assessment area during construction and operation	
phases; and	
c) cumulative impacts due to the Hung Shui Kiu Development which will cause	
direct loss of habitats within the boundary of the Project.	
(vii) - Evaluation of ecological impact based on the best and latest information	S8.8
available during the course of the EIA study, using quantitative approach as far as	
practicable and covering construction and operation phases of the Project as well as	
the subsequent management and maintenance requirement of the Project;	
(viii) - Recommendations for possible alternatives and practicable mitigation	S8.9
measures, such as restriction of works at specified season or time, adoption of	
appropriate construction methods and/or programme, to avoid, minimize and/or	
compensate for the adverse ecological impacts identified during construction and	
operation of the Project;	

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(ix) - Evaluation of the feasibility and effectiveness of the recommended mitigation	S8.9
measures and definition of the scope, type, location, implementation arrangement,	
resources requirement, subsequent management and maintenance of such	
measures;	
(x) Determination and quantification as far as possible of the residual ecological	S8.10
impacts after implementation of the proposed mitigation measures;	
(xi) Evaluation of the significance and acceptability of the residual ecological impacts	S8.10
by making reference to the criteria in Annex 8 of the TM; and	
(xii) Review of the need for and recommendation on any ecological monitoring	S8.11
programme required.	
APPENDIX G (Requirements for Landscape and Visual Impact Assessments)	
1. The Applicant shall review relevant plan(s) and/or studies which may identify areas	Noted
of high landscape value and recommend country park, coastal protection area, green	
belt and conservation area designations. Any guidelines on 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.	
2. The Applicant shall describe, appraise, analyse and evaluate the existing and	S9.5, S9.6
planned landscape resources and character of the assessment area. A system shall	Figure 9.3-9.6
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. 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.	

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3. The Applicant shall assess the visual impacts of the Project. Clear illustration	S9.5, S9.6
including mapping of visual impact is required. The assessment shall include the	Figure 9.7-9.8
following:	
(i) - identification and plotting of visual envelope of the Project;	
(ii) - appraisal of existing visual resources and character as well as the future outlook	
of the visual system of the assessment area;	
(iii) - identification of the key groups of existing and planned sensitive receivers within	
the visual envelope with regard to views from ground level, sea level and elevated	
vantage points;	
(iv) - description of the visual compatibility of the Project with the surrounding and the	
planned setting, and its obstruction and interference with the key views of the study	
areas;	
(v) - 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 so as to demonstrate the effectiveness of the	
proposed mitigation measures;	
4. The Applicant shall evaluate the merits of preservation in totality, in parts or total	S9.6, S9.7
destruction of existing landscape and the establishment of a new landscape	Figure 9.9-9.14
character area. In addition, alternative location, 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 visual quality. The	
Applicant shall recommend mitigation measures to minimize adverse effects	
identified above, including provision	
of a master landscape plan.	
5. The mitigation measures shall also include the preservation of vegetation,	S9.7, S12
transplanting trees in good condition and value, provision of screen planting, re-	Figure 9.9-9.14
vegetation of disturbed lands, compensatory planting, woodland restoration, design	
of structure, provision of finishes to structure, colour scheme and texture of material	
used and any measures to mitigate the impact on the existing and planned land use	
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 operation 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.	

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6. Annotated illustration materials such as colour perspective drawings, plans and	Figure 9.1-9.14
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.	
APPENDIX H (Requirements for Hazard to Life Assessment)	
1. The Applicant shall investigate methods to avoid and/or minimize biogas risk during	S10.5 – S10.9
the operation stage of the Project. The Applicant shall carry out hazard assessment	
to evaluate potential hazard to life due to biogas. The hazard assessment shall	
include the following:	
(i) Identify hazardous scenarios associated with the generation, storage, utilization,	
processing and transmission (if applicable) of biogas due to the Project and then	
determine a set of relevant scenarios to be included in a Quantitative Risk	
Assessment (QRA);	
(ii) Execute a QRA of the set of hazardous scenarios determined in sub-section (i)	
above, expressing population risks in both individual and societal terms;	
(iii) Compare individual and societal risks with the criteria for evaluating hazard to life	
stipulated in Annex 4 of the TM; and	
(iv) Where the Annex 4 of the TM cannot be met, identify and assess practicable and	
cost-effective risk mitigation measures.	
2. The methodology to be used in the hazard assessment shall be consistent with	S10.3.2.1
previous studies having similar issues (e.g. Yuen Long EPP and Development of	
Organic Waste Treatment Facilities, Phase 2).	
APPENDIX I (Implementation Schedule of Recommended Mitigation	
Measures)	

EIA EM&A Recommended Objectives of the implement of the measure When to what implement of the implement of the measure? S12	
Measures Recommended the measure the or	
Measure & measure? measure? standards	
Main for	
Concerns to the measure	
address	
achieve	
APPENDIX J (Requirements for EIA Report Documents)	
The Applicant shall supply the Director with the following number of copies of the Noted.	
EIA report and the executive summary:	
(i) - 30 copies of the EIA report and 30 copies of the bilingual (in both English and	
Chinese) executive summary as required under section 6(2) of the EIAO to be	
supplied at the time of application for approval of the EIA report.	
(ii) - When necessary, addendum to the EIA report and the executive summary Noted.	
submitted in item (i) above as required under section 7(1) of the EIAO, to be supplied	
upon advice by the Director for public inspection.	
(iii) - 20 copies of the EIA report and 50 copies of the bilingual (in both English and Noted.	
Chinese) executive summary with or without Addendum as required under section	
7(5) of the EIAO, to be supplied upon advice by the Director for consultation with the	
Advisory Council on the Environment.	
To facilitate public inspection of EIA report via EIAO Internet Website, the Applicant Noted.	
shall provide electronic copies of both the EIA report and the executive summary	
prepared in HyperText Markup Language (HTML) and in Portable Document Format	
(PDF), unless otherwise agreed by the Director. For both of the HTML and PDF	
versions, a content page capable of providing hyperlink to each section and sub-	
section of the EIA report and the executive summary shall be included in the	
beginning of the document. Hyperlinks to figures, drawings and tables in the EIA	
report and the executive summary shall be provided in the main text from where	
respective references are made. The EIA report, including drawings, tables, figures	
and appendices shall be viewable by common web-browsers including Internet	

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Explorer 8, Firefox 23, Chrome and Safari 8 or later versions as agreed by the	
Director, and support languages including Traditional Chinese, Simplified Chinese	
and English.	
3. The electronic copies of the EIA report and the executive summary shall be	Noted.
submitted to the Director at the time of application for approval of the EIA report.	
4. When the EIA report and the executive summary are made available for public	Noted.
inspection under section 7(1) of the EIAO, the content of the electronic copies of the	
EIA report and the executive summary must be the same as the hard copies and the	
Director shall be provided with the most updated electronic copies.	
5. To promote environmentally friendly and efficient dissemination of information, both	Noted.
hardcopies and electronic copies of future EM&A reports recommended by the EIA	
study shall be required and their format shall be agreed by the Director.	