

Appendix 9.1 Summary of Environmental Impacts

Sensitive Receivers / Assessment Points	Impact Prediction Results (Without Mitigation)	Key Relevant Standards/Criteria	Extents of Exceedance (Without Mitigation)	Impact Avoidance Measures/Mitigation Measures	Residual Impacts (After Implementation of Mitigation Measures)
<u>Air Quality - Construction Phase</u>					
ASRs located within 500m from the project boundary	<ul style="list-style-type: none"> Insignificant dust impact 	<ul style="list-style-type: none"> AQO & Annex 4 of TM-EIAO: <ul style="list-style-type: none"> -hr average TSP Concentration: 500 µg/m³ -24-hr average RSP Concentration: 100 µg/m³ (Number of exceedance allowed : 9) -Annual average RSP Concentration: 50 µg/m³ -24-hr Average FSP Concentration: 75 µg/m³ (Number of exceedance allowed : 9) -Annual average FSP Concentration: 35 µg/m³ 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Implementation of dust control measures as recommended in Air Pollution Control (Construction Dust) Regulation 	<ul style="list-style-type: none"> No residual impact
<u>Air Quality - Operation Phase</u>					
New Block and Block K of QMH	<ul style="list-style-type: none"> 4th Highest 10-min Average SO₂ Concentration: 256.8 µg/m³ 	<ul style="list-style-type: none"> AQO: <ul style="list-style-type: none"> - 10-min Average SO₂ Concentration: 500 µg/m³ (Number of exceedance allowed : 3) 	<ul style="list-style-type: none"> No exceedance of relevant AQO is predicted. 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> No residual impact
<u>Noise - Construction Phase</u>					
Wei Lun Hall (student hall)	<ul style="list-style-type: none"> No noise exceedance in NSR 	<ul style="list-style-type: none"> Annex 5 of TM-EIAO: 75 dB(A) stipulated in TM-EIAO for domestic premises from 0700 to 1900 hours on any day not being a Sunday or general holiday. 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> No residual impact

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<u>Noise - Operation Phase (Helicopter Noise)</u>					
NSRs located within 300m from the project boundary and areas potentially affected by the flight paths of helicopter	<ul style="list-style-type: none"> Predicted helicopter noise impacts are in the range of L_{max} 79 to 86dB(A) 	<ul style="list-style-type: none"> Annex 5 of TM-EIAO: L_{max} 85dB(A) for domestic premises, hostels, educational institutions, places of public worship, convalescences and homes for the aged, etc. from 0700 to 1900 hours 	<ul style="list-style-type: none"> Exceedance of the criterion by 1 dB(A) 	<ul style="list-style-type: none"> Setback of helipad; Adopt new GFS's helicopters; Operate helicopters within the proposed flight sectors; Quiet approaching/ departure procedures; Avoid using same flight sector for approaching and departure in each operation; Noise barriers and noise reducers at rooftop of the New Block in QMH. 	<ul style="list-style-type: none"> No residual impact
<u>Waste Management</u>					
Project area	<ul style="list-style-type: none"> Estimated quantity of waste generation <ul style="list-style-type: none"> - Inert C&D Materials: $0m^3$ - Non-inert C&D Materials: $340.8m^3$ - Chemical Waste: <1 litre - General Refuse: $0.3m^3$ 	<ul style="list-style-type: none"> TM-EIAO Annex 7 and Annex 15 	<ul style="list-style-type: none"> Not applicable 	<ul style="list-style-type: none"> The reuse/ recycling of all materials on-site shall be investigated prior to treatment/ disposal off-site; Good site practices shall be adopted from the commencement of works; All non-inert C&D materials that can be recycled or reused, shall be further segregated; The Contractor shall register as a Chemical Waste Producer if chemical wastes such as spent lubricants and paints are generated on-site; A sufficient number of covered bins shall be provided on-site for the containment of general refuse; Site specific induction training and tool-box talks should be provided to workers about the concepts of site cleanliness, environmental nuisance abatement and appropriate waste management procedures, including waste reduction, reuse and recycling. 	<ul style="list-style-type: none"> No residual impact

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<u>Ecology - Terrestrial</u>					
Avifauna, bats and surrounding habitats	<ul style="list-style-type: none"> Overlap between the proposed flight sector and bird appearance locations. 	<ul style="list-style-type: none"> Environmental Impact Assessment Ordinance - Technical Memorandum (TM-EIAO), Annexes 8 and 16; Country Parks Ordinance (Cap. 208) and its subsidiary legislation Wild Animals Protection Ordinance (Cap. 170) 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> No residual impact
<u>Visual</u>					
Residential premises, hiking trail	<ul style="list-style-type: none"> No direct line of sight from the VSRs to the helipad lights; Landing lights will be switched on to illuminate the helipad only during approaching and departure. The overall operation of landing lights takes 2 minutes approximately. 	<ul style="list-style-type: none"> Annex 10 and Annex 18 of the Technical Memorandum on EIA Process (TM-EIAO) 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> No residual impact