

6 LANDSCAPE AND VISUAL IMPACT

6.1 Introduction

6.1.1 The EIA has recommended landscape and visual mitigation measures to be undertaken during both the construction and operational phases of the project. This section outlines the monitoring and audit of these measures.

6.2 Methodology and Criteria

6.2.1 The design, implementation and maintenance of landscape and visual mitigation measures should be checked to ensure that they are fully realised and that potential conflicts between the proposed landscape measures and any other project works and operational requirements are resolved at the earliest possible date and without compromise to the intention of the mitigation measures.

6.2.2 Site inspection and audit is necessary in the operation stage.

Table 6.1 - Monitoring Programme

Stage	Monitoring Task	Monitoring Report	Form of Approval	Frequency
Design	Monitoring of design works against the recommendations of the landscape and visual impact assessments within the EIA should be undertaken during detailed design and tender stages, to ensure that they fulfil the intentions of the mitigation measures. Any changes to the design, including design changes on site should also be checked.	Report by ER confirming that the design conforms to requirements of EP	Approved by Client	At Completion of Design Stage
Construction	Monitoring of the contractor's operations during the construction period.	Report on Contractor's compliance, by ET	Counter-signature of report by IEC	Weekly
Establishment Works	Monitoring of the planting works during the 12-month Establishment period after completion of the construction works.	Report on Contractor's compliance, by ET	Counter-signature of report by IEC	3 months

Design

6.2.3 The mitigation measures proposed within the EIA to mitigate the landscape and visual impacts of the scheme should be embodied into the detailed engineering design and landscape design drawings and contract documents. Designs should be checked to ensure that the measures are fully incorporated and that potential conflicts with civil engineering, geo-technical, structural, lighting, signage, drainage, underground utility and operational requirements are resolved prior to construction.

Construction & Establishment Period

- 6.2.4 The implementation of landscape construction works and subsequent maintenance operations during the 12-month establishment period must be supervised by fully qualified Landscape Resident Site Staff (Registered Landscape Architect or Professional Member of the Hong Kong Institute of landscape Architects).
- 6.2.5 Measures to mitigate landscape and visual impacts during construction should be checked to ensure compliance with the intended aims of the measures.
- 6.2.6 The progress of the engineering works shall be regularly reviewed on site to identify the earliest practical opportunities for the landscape works to be undertaken.

6.3 Baseline Monitoring

- 6.3.1 A one off survey shall be conducted prior to commencement of any construction works. A photographic record of the site at the time of the contractor's possession of the site shall be prepared by the Contractor and approved by the ER. The approved photographic Record shall be submitted to the Project proponent, ET, IEC and EPD for record.

6.4 Event and Action Plan

- 6.4.1 Should non-compliance of the landscape and visual impacts occur, actions in accordance with the action plan stated in **Table 6.2** should be carried out.

Table 6.2 - Event and Action Plan for Landscape and Visual Impact

EVENT ACTION LEVEL	ACTION			
	ET	IEC	ER	CONTRACTOR
Design Check	<ul style="list-style-type: none"> • Check final design conforms to the requirements of EP and prepare report. 	<ul style="list-style-type: none"> • Check report. • Recommend remedial design if necessary 	<ul style="list-style-type: none"> • Undertake remedial design if necessary 	
Non-conformity on one occasion	<ul style="list-style-type: none"> • Identify Source • Inform IEC and ER • Discuss remedial actions with IEC, ER and Contractor • Monitor remedial actions until rectification has been completed 	<ul style="list-style-type: none"> • Check report • Check Contractor's working method • Discuss with ET and Contractor on possible remedial measures • Advise ER on effectiveness of proposed remedial measures. • Check implementation of remedial measures. 	<ul style="list-style-type: none"> • Notify Contractor • Ensure remedial measures are properly implemented 	<ul style="list-style-type: none"> • Amend working methods • Rectify damage and undertake any necessary replacement

<p>Repeated Non-conformity</p>	<ul style="list-style-type: none"> • Identify Source • Inform IEC and ER • Increase monitoring frequency • Discuss remedial actions with IEC, ER and Contractor • Monitor remedial actions until rectification has been completed • If non-conformity stops, cease additional monitoring 	<ul style="list-style-type: none"> • Check monitoring report • Check Contractor's working method • Discuss with ET and Contractor on possible remedial measures • Advise ER on effectiveness of proposed remedial measures • Supervise implementation of remedial measures. 	<ul style="list-style-type: none"> • Notify Contractor • Ensure remedial measures are properly implemented 	<ul style="list-style-type: none"> • Amend working methods • Rectify damage and undertake any necessary replacement
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6.5 Mitigation Measures

6.5.1 The landscape and visual impact assessment of the EIA recommends a series on mitigation measures, as noted below:

Landscape and Visual Mitigation Measures projects during Construction Phase

CM1 – Minimised construction area and contractor's temporary works areas

CM2 – Control of night-time lighting and glare by hooding all lights

CM3 – Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours

CM4 – Reduction of construction period to practical minimum.

CM5 – Limitation of / Ensuring no run-off into surrounding landscape and adjacent water sea areas

CM6 – Temporary or advance landscape should be provided along the temporary access roads to the Cruise Terminal until such time as road D3 is open.

Landscape and Visual Mitigation Measures during Operation Phase

OM1 – All above ground structures shall be sensitively designed with regard to the form, material and finishes and shall respond to the existing and planned urban context.

OM2 – Streetscape elements shall be sensitively designed in a manner that responds to the existing and planned urban context.

OM3 – Attractive soft landscape in areas adjoining any visible structures such as tall buffer screen tree/shrub/ climber planting, vertical greening and roof greening where appropriate should be incorporated so as to provide a visual softening and greening effect and soften hard engineering structures and facilities.

- OM4 – Structure, ornamental tree/shrub/climber planting should be provided along roadside amenity strips to enhance the townscape quality, where space is available.
- OM5 – Appropriate design of street lighting to avoid glare and light pollution to surrounding areas..
- OM6 – Avoidance of excessive height and bulk of the associated landscaped deck to the central boulevard
- OM7 – Elegant engineering design, sensitive architectural and chromatic treatment and generous planting of the associated landscaped deck to the central boulevard. The form, color and surface detailing of these structures should be carefully considered to reduce their apparent height and bulk (visual weight).
- OM8 – Sensitive design of noise barriers & enclosures with greening (screen planting/climbers/green roofs) and chromatic measures
- OM9 – Compensatory Tree Planting for felled trees