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- 13.5.7 The Contractor shall implement dust control measures (e.g. dust screens etc.).
- 13.5.8 The Contractor shall use cutting, grinding and sawing equipment with dust suppression water spray mechanisms.
- 13.5.9 The Contractor shall erect hoarding around dusty activities and at site boundary of minimum 1.8m height as per BCA guideline.
- 13.5.10 The Contractor shall not burn any wastes on site.
- 13.5.11 The Contractor shall revegetate earthworks and exposed areas/soil stockpiles.

13.6 Airborne Noise

- 13.6.1 The Contractor shall use the noise baseline monitoring results from CR2016 baseline noise monitoring data and apply for construction works on site based upon NEA guidelines for human criteria.
- 13.6.2 The Contractor shall develop and implement Noise Pollution Management Plan based on actual inventory and construction phase planned by Contractor.
- 13.6.3 Continuous noise monitoring shall be conducted at least two (2) strategic locations around all worksites as detailed in the **Appendix BE** of the Particular Specifications.
- 13.6.4 Noise barriers and additional noise mitigation measures are recommended in **Appendix BE** of the Particular Specifications based on preliminary estimation of construction methodology. These barrier locations are described in the Clauses 13.6.5.
- 13.6.5 The Contractor shall design, supply, erect, and dismantle the necessary noise barriers to meet the relevant authorities/agencies requirements along his construction worksite boundary subject to the Engineer's acceptance. The Contractor shall install LTA's standard 15m high TBM enclosure (one façade opening at northern side) at the boundary of Launch shaft worksite. The Contractor shall use the portable noise barrier close to the noisy equipment/ activities, whichever the equipment

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is applicable. Please refer to the **Appendix BE** of the Particular Specifications. This shall be subject to the Engineer's acceptance.

13.7 Ground-Borne Vibration

13.7.1 The Contractor shall develop a monitoring program to respond to community complaints about vibration throughout the construction phase and tunnel boring machine use.

13.7.2 The Contractor shall control construction vibration levels using best available techniques (BAT). The Contractor shall ensure that the vibration levels at Maju Forest and Clementi Forest (excluding the worksite area) do not exceed Peak Particle Velocity, PPV, 8 mm/s.

13.7.3 The Contractor shall ensure that the vibration levels at building receptors (excluding the worksite area) do not exceed Peak Particle Velocity, PPV, 15 mm/s, to prevent cosmetic damage.

13.8 Complaint Handling and Corrective Plan during Construction

13.8.1 During the construction, upon receipt of complaints, complaint investigation shall be carried out. Complaint investigation report and corrective action plan should be prepared and approved by the Authority within 24 h upon receipt of complaints. Refer to the **Appendix BE** of the Particular Specifications for details.

13.9 Deliverables

13.9.1 Plans/reports/records listed in the table below shall be documented by the Contractor and submitted to the Client on the frequency specified.

Phases	Document	Submission Milestones and Frequency	Action by
Pre-construction	Contract-specific EMMP (refer to Clause 13.1.4 - inputs from the environmental team) should include the following plans (but not limited to): <ul style="list-style-type: none"> Waste Management (Clause 13Error! Reference source not found.) 	Within <u>three (3) months</u> after award date	Environmental Consultant