

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.

<b>Phases</b>	<b>Document</b>	<b>Submission Milestones and Frequency</b>	<b>Action by</b>
Pre-construction	Contract-specific EMMP (refer to <b>Clause 13.1.4</b> - inputs from the environmental team) should include the following plans (but not limited to): <ul style="list-style-type: none"> <li>Waste Management (<b>Clause 13.1.6</b>)</li> <li>Vector Control (<b>Clause 13.1.7</b>)</li> </ul>	Within one (1) month after award date	Environmental Consultant

Phases	Document	Submission Milestones and Frequency	Action by
	<ul style="list-style-type: none"> <li>• Surface Water (<b>Clause 13.3</b>)</li> <li>• Soil and Groundwater (<b>Clause 13.4</b>)</li> <li>• Air and Dust (<b>Clause 13.5</b>)</li> <li>• Airborne Noise (<b>Clause 13.6</b>)</li> <li>• Ground-borne Vibration (<b>Clause 13.7</b>)</li> <li>• Complaint handling and corrective action plans (<b>Clause 13.8</b>)</li> </ul>		
	Site environmental control programme ( <b>Clause 13.1.5</b> )	As per latest requirement in Code of Practice for Environmental Control Officers from NEA.	
Construction	Monthly monitoring report for waste management, vector control ( <b>Clauses 13.1.6 and 13.1.7</b> ), surface water, soil and groundwater, air and dust, airborne noise, ground-borne vibration ( <b>Clauses 13.3 to 13.7</b> )	End of each month	Environmental Consultant
	Complaint investigation report and corrective action plan ( <b>Clause 13.8</b> )	Within 24 h upon receipt of complaints	Environmental Consultant
	Site environmental control report ( <b>Clause 13.1.5</b> )	As per latest requirement in Code of Practice for Environmental Control Officers from NEA	

NOT IN USE

**13.13**      **NOT IN USE**