

4 COST ESTIMATE

4.1 Unit Cost

The unit construction cost in December 1998 for each type of barriers/enclosures per metre run was employed in estimating the construction cost of the proposed mitigation measures. The unit cost is given in Table 4.1.

Table 4.1 – Unit Construction Cost in December 1998 Prices for Barriers/Enclosures per Linear Metre

Type of Barrier		Foundation	Unit Cost (HK\$)
Vertical Barrier	3m vertical height	On footing	17,595
		On pile	21,505
	4m vertical height	On footing	24,150
		On pile	26,910
	5m vertical height	On footing	31,510
		On pile	37,260
Bend-top Barrier	Type A ⁽¹⁾	On footing	37,605
		On pile	43,700
	Type B ⁽²⁾	On footing	47,840
		On pile	51,980
Semi-enclosure		On pile	150,765
Full Enclosure		On pile	476,100
Remarks: *Average value for approx. 15m span semi-enclosure (1) 4.5m high with 1.5m cantilever 45° inclined (2) 5m high with 2m cantilever 45° inclined Notes : 1. All rates are at December 1998 prices based on recently returned tenders 2. Contingencies and Price Fluctuation beyond December 1998 are not included. 3. All rates are included 15% for General Preliminaries.			

4.2 Total Cost

The total cost of construction includes the direct construction cost (capital cost) and indirect cost for providing utilities, street furniture and traffic diversion (assuming 30% of the capital cost for major diversion, 20% of the capital cost for medium diversion and 10% of the capital cost for minor diversion).

Direct Cost (Capital Cost) = Unit Price of a recommended barrier * length of the recommended barrier
 Indirect Cost = Percentage (depends on the traffic diversion) of the Capital Cost

