Technical Advice from Architectural Services Department

Steps of Processing
 Drawings and Estimates
 Common Problems

1. Five Steps of Processing

Step 1: Preliminary Assessment

Step 2: Arrangement for Joint Site Inspection

Step 3: Joint Site Inspection

Step 4: Budgetary Assessment

Step 5: Differences/Objections from Schools

Step 1: Preliminary Assessment

- EDB to complete Initial Screening.
- EDB to forward to ArchSD the DSS applications in batching.
- ArchSD to advise EDB of preliminary assessment.

Step 2: Arrangement for Joint Site Inspection

- EDB to arrange site inspection upon receipt of ArchSD's preliminary assessment.
- Outstanding information to be provided by the school 3 days prior to the joint site inspection.

Step 3: Joint Site Inspection

- EDB to lead the joint inspection and decide on supportability of items as required.
- Schools' representative to answer queries raised during site walk and provide further information immediately afterwards.

Step 4: Budgetary Assessment by ArchSD

- Based on the available information from schools and policy decision on supportability of items from EDB, ArchSD to proceed with detailed budgetary examination.
- ArchSD to report on the technically supported amount to EDB.

Step 5: Differences/ Objections from Schools

- Schools to provide justification/ substantiation in respect of each disputed item within reasonable time after receipt of EDB's advice.
- EDB/ ArchSD to further assess and decide on the final supportable level.
- ArchSD to complete within reasonable time.
- May repeat the above process once more, where necessary, as the final round.

2. Drawings and Estimates

Drawings

Drawings for each application item:

- 1) Layout plans with dimensions and location
- 2) Layout plans to scale
- 3) Highlight changes on plans

Estimates

 Details of the proposed works items should be clear and sufficient to facilitate cost estimates

ARCHITECTURAL SERVICES DEPARTMENT
SUBVENTED PROJECTS DIVISION
Estimate for DSS Major Repair Works

Item No.	Details of Works Items (description, locations, etc.)	Work Type	Justification	Qty	<u>Unit</u>	<u>Rate</u>		To be completed by EDB/ArchSD		
								Supported Amount (\$		Remarks
	Waterproofing works for main roof, roof and opper rooffloor (remedial and improvement):									
1.1	Demolition of existing rooffinishes and waterproofing membrane			1	Sop.	0	0			
1.2	Cennent wand screeding to fall			1	Sop.	0	0			
1.3	Laying of new waterproofing membrane			1	Sup.	0	0			
1.4	Laying of new polystrene insolation board			1	Sup.	0	0			
1.5	Paving of new roof bles			1	Sup.	0	0			
1.6	Pond test			1	Sum	0	0			
			Sob-total and symma				0			

3. Common problems

- 1. Unclear or ambiguous description of the scope of works
- 2. Estimates combined into a lump sum without relevant breakdowns

3. Inclusion of non/above-standard items

- 4. Inclusion of furniture and equipment (F & E) items
- 5. Slope repair works

1. Unclear or ambiguous description of the scope of works

• Example:

Description	Unit	Unit Rate	Amount
Replacement of existing air-conditioners in the Offices	5nos	\$4,100	\$20,500

Arch SD's comment:

Layout plan with indication of the exact locations of the air-conditioner and detailed work scope (e.g. the cooling capacity and type of air-conditioner) should be provided.

Proper Submission:

• Provide clear description of the scope of works (cont'd)

Description	Unit	Unit Rate	Amount
 (ii) To replace the existing air- conditioners in the General Office on G/F with window type A/C units (cooling only with cooling capacity @3.5kW) c/w all necessary supports, condensate drip pan, power supply connection and condensate drain pipe connected to nearest drain 	21105	\$3,500	\$7,000
Total			\$20,500

• Proper Submission:

• Provide clear description of the scope of works

Description	Unit	Unit Rate	Amount
(i)To replace the existing air-conditioners in the Staff Room on 2/F with window type A/C units (cooling only with cooling capacity @5.3kW) c/w all necessary supports, condensate drip pan, power supply connection and condensate drain pipe connected to nearest drain	3nos	\$4,500	\$13,500



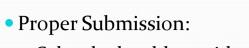
• Submit relevant layout plans to indicate locations of the air-conditioners.

2. Estimates combined into a lump sum without relevant breakdown

• Example:

Description	Unit	Unit Rate	Amount
Application of roof waterproof coat	ısum	\$890,000	\$890,000

Arch SD's comment: Schools/AP should provide the cost breakdown for waterproof coat.



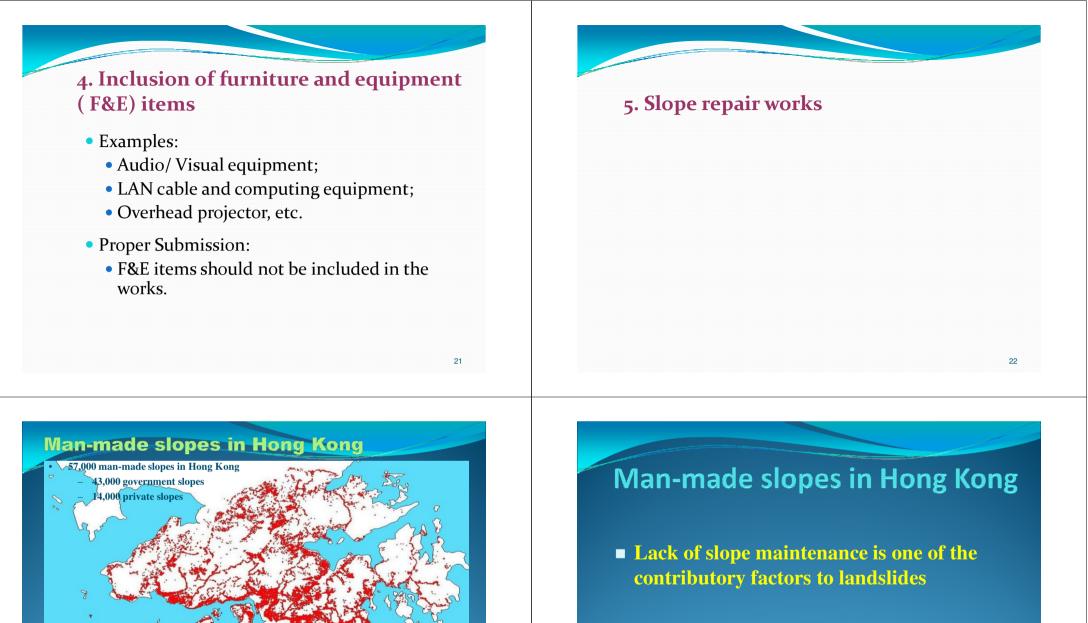
• Schools should provide roof warranty to show expiry of guarantee period.

• Example:

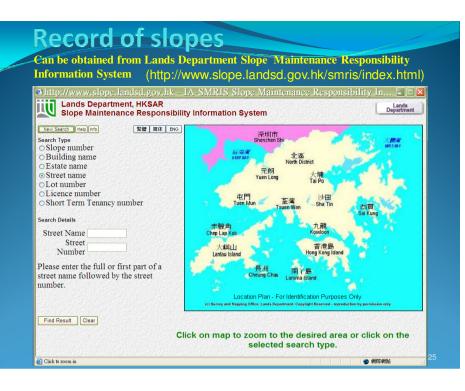
Description	Unit	Unit Rate	Amount	Remarks
Demolition of existing roof finishes and waterproofing membrane	1000 M ²	\$150	\$150,000	Water seepage and weathering of roof-top.
Cement sand screeding to fall	1000 m ²	\$200	\$200,000	
Laying of new waterproofing membrane	1000 M²	\$250	\$250,000	
Laying of new polystrene insulation board	1000 m ²	\$100	\$100,000	
Paving of new roof tiles	1000 m ²	\$180	\$180,000	-
Pond test	1 sum	\$10000	\$10,000	1
Total			\$890,000	



- Examples:
 - CCTV System;
 - Air-conditioning system/units in Dining Hall, etc.
- Proper Submissions:
 - Schools should follow the standard provision according to EDB's requirements

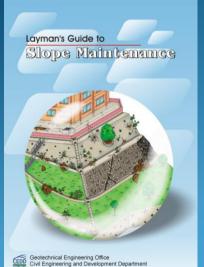


Regular maintenance is essential to the continued stability of all man-made slopes





Slope Maintenance



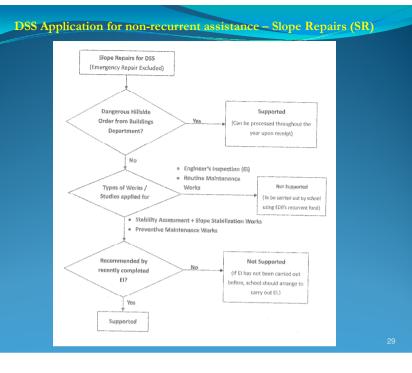
Maintenance Inspection

Routine Maintenance nspection (once every year)
Engineer Inspection for Maintenance (once every 5 years)

Maintenance Works

(http://www.cedd.gov.hk/hkss Downloading Area)





Types of Works Not Supported under Non-recurrent Assistance

Routine slope maintenance works (e.g. Repair cracked / damaged chunam / shotcrete surface, remove unplanned vegetations, clearance of blocked drainage channels / catchpits, repair damaged channels / catchpits, clear blocked weepholes in retaining walls etc.)

Engineer Inspection (EI) of slopes / retaining walls located within school boundaries to be carried out by Registered Geotechnical Engineers

Cracked/Damaged Chunam Surface



Repair Cracked Chunam Surface



Removal of Unplanned Vegetation





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Vegetated Surface Erosion



Well-Maintained Shotcrete Surface







Well-maintained Vegetated Surface



Repair of Pointing





Well-maintained Retaining Wall



Well-Maintained Stone-Pitched Surface



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Surface Channel Blocked by Rubbish





Surface Channel Blocked by Overgrown Vegetation





Surface Channel Blocked by Fallen Leaves





Cracked Surface Channel





Blocked Catchpit Inlet



Catchpit Blocked by Rubbish



Properly Maintained Surface Channel





Routine Maintenance Works

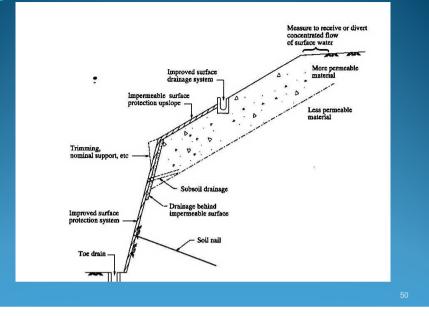


Types of Works / Studies Supported under Non-recurrent Assistance

Stability Assessment by Registered Geotechnical Engineer + Slope stabilization works

- Preventive maintenance works
 - Soil slopes improved surface protection on slope and upslope, surface drainage channels, subsoil drainage, soil nails etc.
 - Rock slopes concrete buttress, rock dowels, steel wire meshes, scaling or dentition etc.

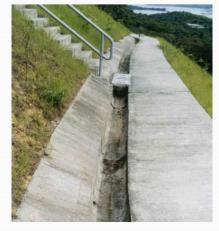
Typical Preventive Maintenance Works for Soil Slope





Surface Drainage

Surface Protection





Examples of Preventive Maintenance Works for Soil Slope

Regrading and Surface Protection





Examples of Preventive Maintenance Works for Soil Slope

Subsurface Drainage



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Examples of Preventive-Maintenance Works for Soil Slope

Structural Support (Soil nails)



Edici drain Relicf drain

Examples of Preventive Maintenance Works for Rock Slope



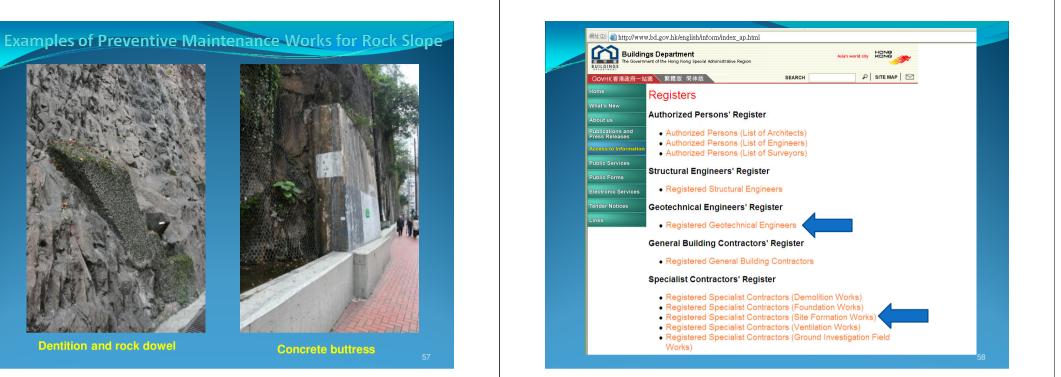
Steel meshes and shotcrete surface



Rock dowel and steel meshes

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Questions & Answers

Thank You