

PROPOSED NEW ERECTION OF 2-STOREY SCHOOL BUILDING CONSISTING OF KINDERGARTEN AND TEACHING FACILITIES
WITHIN EXISTING SCHOOL COMPLEX OF SINGAPORE KOREAN INTERNATIONAL SCHOOL ON LOT 01950V MK15 AT 71
BUKIT TINGGI ROAD (BUKIT TIMAH PLANNING AREA).

BILL OF QUANTITIES

PROPOSED NEW ERECTION OF 2-STOREY SCHOOL BUILDING CONSISTING OF KINDERGARTEN AND TEACHING FACILITIES WITHIN EXISTING SCHOOL COMPLEX OF SINGAPORE KOREAN INTERNATIONAL SCHOOL ON LOT 01950V MK15 AT 71 BUKIT TINGGI ROAD (BUKIT TIMAH PLANNING AREA).

	GENERAL NOTE					
1	The Tenderer shall give a detailed breakdown of all pricings in accordance with the list of items stated hereafter.					
2	This Bill of Quantities may have been abbreviated to provide what is considered essential information to convey to tenderers the nature and extent of the works.					
3	The Bill of Quantities does not attempt to fully describe the required works to be carried out and tenderers must refer to drawings, descriptive schedules, catalogues and any other supporting information supplied and forming part of the Contract Documents.					
4	The Softscape Specifications and Bill of Quantities are for the guidance of tenderers to arrive at a lump sum offer for the whole of the Works shown on the Drawings and described in the Contract Documents. The Nominated Sub-Contractor upon award shall be solely responsible to determine to his satisfaction and extent of all works involved in the Bill of Quantities, as described in the Softscape Specifications, as shown in the drawings, allowed elsewhere or which deems necessary for proper execution and completion of the works. The Nominated Sub-Contractor shall not be entitled to any claim whatsoever arising due to lack of knowledge of any omissions of works in this aspect.					
5	The indicative quantities for works and materials shown in both the Bill of Quantities and drawings shall not form part of the Nominated Sub-Contract and shall be of no contractual effect. These indicative quantities are for GUIDANCE ONLY during tendering.					
6	For the avoidance of doubt, the Nominated Sub-Contractor shall be fully responsible to determine the quantities of the required works and shall be deemed to have satisfied himself as to the correctness and sufficiency of the Nominated Sub-Contract sum to cover all obligations and all necessary associated matters for the proper installation and completion of the required works.					

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S/N	ITEM	CODE	PROCURE SIZE (overall height x spread)	QTY	UNIT	UNIT RATE (\$\$)	TOTAL COST (\$\$)
	SUPPLY AND INSTALLATION OF SOFTSCAPE MATERIALS						
	Supply and install the following, including excavating, planting, backfilling of soil mix as specified or as shown, staking , fertilising, mulching with 50 mm approved mulch, watering, all as specified and all other maintenance required up to the Completion Date. Nominated Sub-Contractor shall allow for topping up of soil due to settlement before & after planting. (Rates inclusive of tree and palm pits 1000 x 1000 x 1000 mm)						
A	1ST STOREY - TREES & PALMS						
1	Pouteria obovata	Pob	3.5m OH (HS)	2	nos.		
					SUB-TOTAL		
	Supply and install the following, including excavating, planting, backfilling of soil mix as specified or as shown, staking , fertilising, mulching with 50 mm approved mulch, watering, all as specified and all other maintenance required up to the Completion Date. Nominated Sub-Contractor shall allow for topping up of soil due to settlement before & after planting.						
B	1ST STOREY - FEATURE PLANTS, SHRUBS & GROUNDCOVERS						
1	Osmoxylon lineare @250mm c/c	Oli	0.4m x 0.20m	416	nos.		
2	Axonopus compressus	Aco	Closed-turfing	100m²	m²		
					SUB-TOTAL		

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S/N	ITEM	CODE	PROCURE SIZE (overall height x spread)	QTY	UNIT	UNIT RATE (S\$)	TOTAL COST (S\$)
C	2ND STOREY - FEATURE PLANTS, SHRUBS & GROUNDCOVERS						
1	Zamioculcas zamiifolia @250mm c/c	Zza	0.25m x 0.25m	128	nos.		
2	Vernonia elliptica @200mm c/c	Vel	1m length bushy from base x min. 3 shoots	200	nos.		
3	Adiantum latifolium @250mm c/c	Ala u/p Pen	0.30m x 0.20m	128	nos.		
4	Pteris ensiformis @250mm c/c		0.25m x 0.20m	128	nos.		
					SUB-TOTAL		

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S/N	ITEM	CODE	PROCURE SIZE (overall height x spread)	QTY	UNIT	UNIT RATE (\$)	TOTAL COST (\$)
D	ROOF TERRACE - FEATURE PLANTS, SHRUBS & GROUNDCOVERS						
1	Calliandra surinamensis @400mm c/c	Csu u/p Psa	0.50m x 0.30m	42	nos.		
2	Piper sarmentosum @150mm c/c		0.20m x 0.15m	270	nos.		
3	Leea rubra @700mm c/c	Lru u/p Psa	0.80m x 0.60m	26	nos.		
4	Piper sarmentosum @150mm c/c		0.20m x 0.15m	585	nos.		
5	Tarenna fragrans @1m c/c	Tfr u/p Oli	1.50m x 0.80m	3	nos.		
6	Osmoxylon lineare @250mm c/c		0.40m x 0.25m	144	nos.		
7	Tabernaemontana divaricata @1m c/c	Tdi u/p Oli	1.50m x 0.80m	5	nos.		
8	Osmoxylon lineare @250mm c/c		0.40m x 0.25m	192	nos.		
9	Neomarica longifolia @250mm c/c	Nlo	0.40m x Min 15 lvs	240	nos.		
10	Strophanthus gratus @300mm c/c	Sgr	0.50m x 0.25m	48	nos.		
11	Orthosiphon aristatus @250mm c/c	Oar	0.25m x 0.20m	112	nos.		
12	Rhapis multifida @800mm c/c	Rmu	1.50m x Min 8. trunks	14	nos.		
13	Pseuderanthemum flava @300mm c/c	Pfl	0.40m x 0.25m	96	nos.		
14	Thaumatococcus daniellii @300mm c/c	Tda	1.60m x Min 6 lvs	144	nos.		
15	Schefflera arboricola 'Variegata' @300mm c/c	Sav	0.40m x 0.25m	96	nos.		
16	Calathea crotalifera @500mm c/c	Ccr	1.50m x Min 6 lvs	20	nos.		
17	Phyllanthus cochinchinensis @200mm c/c	Pco	0.25m x 0.15	225	nos.		
18	Vernonia elliptica @200mm c/c	Vel	1m length bushy from base x min. 3 shoots	175	nos.		
					SUB-TOTAL		

Tenderers are deemed to have thoroughly read the specifications which serve as a set of directions for the installation of the landscape works at the time of tender, and fully aware of his obligations.

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E	FIRST STOREY - SOIL MIX				
1	ASM - Approved soil mix shall comply to standard cs A03:2013/Item 2.1.3 (3 Parts of Top soil, 2 Parts of Compost and 1 Part of Sand - by dry weight)	38	m3		
				SUB-TOTAL	
F	2ND STOREY - SOIL MIX				
1	ASM - Approved soil mix shall comply to standard cs A03:2013/Item 2.1.3 (3 Parts of Top soil, 2 Parts of Compost and 1 Part of Sand - by dry weight)	12	m3		
				SUB-TOTAL	
G	ROOF TERRACE - SOIL MIX				
1	ASM - Approved soil mix shall comply to standard cs A03:2013/Item 2.1.3 (3 Parts of Top soil, 2 Parts of Compost and 1 Part of Sand - by dry weight)	51	m3		
				SUB-TOTAL	
H	2ND STOREY - CELLULAR DRAINAGE MODULE WITH GEOTEXTILE FILTER FABRIC				
1	Installation of UNISEAL Interlocking Sub-surface cellular drainage modules (PlanterCell DC30) or equivalent, overlay with INSUFELT polyester synthetic fibres or similar approved drainage mats overlay with approved filter fabric to all closed bottom and all sides of planters, and over all planting structures and over-slabs.	53	m2		
				SUB-TOTAL	
I	ROOF TERRACE - CELLULAR DRAINAGE MODULE WITH GEOTEXTILE FILTER FABRIC				
1	Installation of UNISEAL Interlocking Sub-surface cellular drainage modules (PlanterCell DC30) or equivalent, overlay with INSUFELT polyester synthetic fibres or similar approved drainage mats overlay with approved filter fabric to all closed bottom and all sides of planters, and over all planting structures and over-slabs.	270	m2		
				SUB-TOTAL	

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S/N	ITEM	CODE	PROCURE SIZE (overall height x spread)	QTY	UNIT	UNIT RATE (\$)	TOTAL COST (\$)
J	1ST STOREY - SUBSOIL DRAINAGE SYSTEM						
1	Installation of 150mm diameter HDPE perforated, corrugated flexible prefabricated pipes and wrap around and secured with non-woven geotextile filter fabric or similar approved subsoil drainage system, and backfill with washed granite chippings and wrapped over the top of the backfilled gravels with non-woven geotextile filter fabric for all required areas as shown in landscape drawing.			60	m run		
					SUB-TOTAL		

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P	DEFECTS LIABILITY PERIOD				UNIT RATE (\$\$/MTH)	LUMP SUM COST (\$\$)
1	In addition to the Nominated Sub-Contractor's obligations during the Defects Liability Period, the Nominated Sub-Contractor shall allow here for maintaining and establishing all plantings for a period of twelve (12) months from the Completion Date for all the required works.					
2	Include supply of all necessary labour, transport, equipment and materials to maintain all landscaped areas as specified below:					
3	Contractor shall provide a maintenance record log book for the record and signing off for the maintenance work done. The Record log book shall be kept by the development management.					
4	Mowing, mulching, watering, weeding, aeration or forking, top dressing of lawn, fertilising and pest/disease control for all planting areas as required.					
5	Pruning for all trees, palms, feature plants, shrubs, hedges and groundcovers and selective pruning of flowering plants.					
6	Stakings, guyings and adjustment for all necessary trees.					
7	Topping up of soil mix and compost due to soil settlement and cultivation of soil due to compaction of soil as required, to maintain finished soil levels.					
8	Replacement of all dead, damaged, diseased, rejected and missing plants.					
9	General housekeeping for all landscaped areas including removal of all rubbish and construction debris, fallen leaves, branch clippings, and any other undesirable objects.					
10	Any other procedures necessary to ensure vigorous and healthy growth of all plants, all as described in the Softscape Specifications.					
11	Allow for a one time extensive touching up of the entire landscape area prior to end DLP handing over					
12	Contractor shall provide minimum 1 full time gardener (or more, that is necessary to complete the requirement as stated above) and supported by a maintenance float team every fortnightly					
					SUB-TOTAL	

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S/N	COST SUMMARY	SUB-TOTAL COST (\$\$)	
A	1ST STOREY - TREES AND PALMS		
B	1ST STOREY - FEATURE PLANTS, SHRUBS & GROUNDCOVERS		
C	2ND STOREY - FEATURE PLANTS, SHRUBS & GROUNDCOVERS		
D	ROOF TERRACE - FEATURE PLANTS, SHRUBS & GROUNDCOVERS		
E	1ST STOREY - SOIL MIX		
F	2ND STOREY - SOIL MIX		
G	ROOF TERRACE - SOIL MIX		
H	2ND STOREY - CELLULAR DRAINAGE MODULE WITH GEOTEXTILE FILTER FABRIC		
I	ROOF TERRACE - CELLULAR DRAINAGE MODULE WITH GEOTEXTILE FILTER FABRIC		
J	1ST STOREY - SUBSOIL DRAINAGE SYSTEM		
K	GENERAL AND OTHER WORKS		
L	DEFECTS LIABILITY PERIOD - TWELVE (12) MONTHS		
		GRAND TOTAL (\$\$)	

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