

11.2 Air-Conditioning and Mechanical Ventilation Works

Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
1	Labour Rates					
	a)	Sheetmetal worker	per hr			\$ -
	b)	Pipe fitter	per hr			\$ -
	c)	Welder	per hr			\$ -
	d)	Electrician	per hr			\$ -
	e)	General Worker	per hr			\$ -
	f)	Supervisor	per hr			\$ -
	g)	Others (please specify)	per hr			\$ -
2	Air Conditioning System					
	2.1	VRV Air Conditioning System				
		Supply, installation, testing & commissioning of Air-Conditioning Unit Inclusive of Support and all associated ancillary accessories.				
	2.1.1	<u>VRV Condensing Unit</u>				
		Inverter drive condensing units including accessories				
		i) Total cooling capacity – 15 kW	No			\$ -
		ii) Total cooling capacity – 20 kW	No			\$ -
		iii) Total cooling capacity – 25 kW	No			\$ -
		iv)	No			\$ -
	2.1.2	<u>Direct Expansion Fan Coil Unit</u>				
		Inverter drive condensing units including air filters, thermostats and accessories				
		A) Ceiling cassette				
		i) 5.6 kW	No			\$ -
		ii) 6.5 kW	No			\$ -
		iii) 7.9 kW	No			\$ -
		iv) 9 kW	No			\$ -
		v) 12 kW	No			\$ -
		vi) 14 kW	No			\$ -

Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
3	Mechanical Ventilation System					
3.1	Supply/Exhaust air fans Supply and installation of mechanical fan inclusive of support, bellmouths, fan guards and all associated ancillary accessories					
3.1.1	Centrifugal Flow Fan					
	A)	Normal (non fire essential)				
	i)	200 Pa External Static Pressure				
		<u>Air Flow Rate</u>				
		1,500 CMH	no			\$ -
		2,500 CMH	no			\$ -
	ii)	500Pa External Static Pressure				
		<u>Air Flow Rate</u>				
		1,500 CMH	no			\$ -
		2,500 CMH	no			\$ -
3.1.2	Axial Flow Fan					
	A)	Normal (non fire essential)				
	i)	200 Pa External Static Pressure				
		<u>Air Flow Rate</u>				
		1,500 CMH	no			\$ -
		2,500 CMH	no			\$ -
	ii)	500 Pa External Static Pressure				
		<u>Air Flow Rate</u>				
		1,500 CMH	no			\$ -
		2,500 CMH	no			\$ -

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

Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
4	Pipeworks					
4.1	Refrigerant pipe complete with valves, fittings, insulation, supports and accessories					
4.1.1	Refrigerant Copper Pipe					
	i)	ø11 mm	m			\$ -
	ii)	ø15 mm	m			\$ -
	iii)	ø25 mm	m			\$ -
	iv)	ø32 mm	m			\$ -
5	Condensate Pipe					
	Condensate drain pipe with insulation inclusive of support and all other associated ancillary accessories					
5.1	Copper					
	i)	ø20 mm	m			0
	ii)	ø25 mm	m			0
	iii)	ø32 mm	m			0
	iv)	ø40 mm	m			0
5.2	uPVC					
	i)	ø20 mm	m			0
	ii)	ø25 mm	m			0
	iii)	ø32 mm	m			0
	iv)	ø40 mm	m			0
6	Acoustic and vibration control					
6.1	Vibration Isolator					
6.1.1	Unhoused Steel Spring					
	A)	50mm deflection				
	i)	capacity 0 - 50 kg	no			\$ -
	ii)	capacity 51 - 200 kg	no			\$ -
	B)	75mm deflection				
	i)	capacity 0 - 50 kg	no			\$ -
	ii)	capacity 51 - 200 kg	no			\$ -

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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
	6.1.2	Neoprene Hangers And Mounts				
	A)	8mm - 12mm				
	i)	capacity 0 - 50 kg	no			\$ -
	ii)	capacity 51 - 200 kg	no			\$ -
	iii)	capacity 201 - 500 kg	no			\$ -
7	Ductwork and Insulation					
	7.1	Rectangular Ductwork				
	7.1.1	Galvanised Steel w/o insulation				
	i)	Gauge 26 SWG (0.5 mm)	m ²			\$ -
	ii)	Gauge 24 SWG (0.6 mm)	m ²			\$ -
	iii)	Gauge 22 SWG (0.75 mm)	m ²			\$ -
	iv)	Gauge 20 SWG (0.9 mm)	m ²			\$ -
	7.1.2	Flexible duct with insulation				
	i)	150mm dia	m			\$ -
	ii)	175mm dia	m			\$ -
	iii)	200mm dia	m			\$ -
	iv)	225mm dia	m			\$ -
	v)	250mm dia	m			\$ -
	vi)	300mm dia	m			\$ -
	vii)	350mm dia	m			\$ -
	7.2	Access Panel				
		Access panel for ducts complete with gaskets, hinges, sash locks etc				
	i)	600mm x 450mm; uninsulated	no			\$ -
	ii)	600mm x 600mm; uninsulated	no			\$ -
	iii)	600mm x 450mm; insulated	no			\$ -
	iv)	600mm x 600mm; insulated	no			\$ -
	7.3	Painting	m ²			\$ -
	7.4	External Duct Plastering & Insolation	m ²			\$ -

Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
8	Grilles and diffusers					
	Supply and installation of grilles and registers inclusive of associated ancillary accessories					
	8.1	Grilles				
	8.1.1	Fixed Blade c/w VCD, of neck size				
		i) Area less than 0.2 m ²	m ²			\$ -
		ii) Area 0.2 m ² to 0.5 m ²	m ²			\$ -
		iii) Area larger than 0.5 m ²	m ²			\$ -
	8.1.2	Single Deflection c/w VCD, of neck size				
		i) Area less than 0.2 m ²	m ²			\$ -
		ii) Area 0.2 m ² to 0.5 m ²	m ²			\$ -
		iii) Area larger than 0.5 m ²	m ²			\$ -
	8.1.3	Egg Crate w/o VCD, of neck size				
		i) Area less than 0.2 m ²	m ²			\$ -
		ii) Area 0.2 m ² to 0.5 m ²	m ²			\$ -
		iii) Area larger than 0.5 m ²	m ²			\$ -
	8.2	External Louvers Inclusive of Insect Screen				
	8.2.1	External weatherproof louvers				
		i) Area less than 0.2 m ²	m ²			\$ -
		ii) Area 0.2 m ² to 0.5 m ²	m ²			\$ -
		iii) Area larger than 0.5 m ²	m ²			\$ -
9	Dampers					
	Supply and installation of damper inclusive of frame and other associated ancillary accessories.					
	9.1	Volume Control Damper (c/w manual lever)				
		i) Area 0.36 m ² (From Damper Size : 151x151mm to 600x600mm)	m ²			\$ -
		ii) Area 0.37 m ² to 1.32 m ² (From Damper Size : 601x601mm to 1150x1150mm)	m ²			\$ -

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WITHIN EXISTING SCHOOL COMPLEX OF SINGAPORE KOREAN INTERNATIONAL SCHOOL ON LOT 01950V MK15 AT 71 BUKIT
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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
10	Control panels complete with starters and BMS interfacing works					
	10.1	Starters				
		Motor starters complete with overload, single-phasing and under-voltage protection, fuses, auxiliary contacts, 'Start/Stop' pushbuttons and Manual/Off/Auto selector switch				
		i) up to 2.25 kW (DOL)	no			\$ -
	10.2	Control Panels				
		Supply and installation of LMCP c/w MCBs, MCCBs, busbar, ampere / voltage meters, indicators, relays, contactors, terminal blocks etc				
		i) below 2.2 kW	no			\$ -
11	Electrical power supply and control cabling complete with cable support system and accessories for the split air conditioning system					
	11.1	Control Cables				
		Supply and installation of control cables (115V and below) complete with conduits, trays, shaddles etc. The rate per point shall include the total number of cores and earth cables required per control point				
		i) Indication signal	pt			\$ -
		ii) On/Off & modulate control	pt			\$ -
		vi) Others	pt			\$ -
	11.2	Cables				
		Supply and installation of cables on vertical and/or horizontal cable support system (exclude cable support system) inclusive of CPC, cable ties, fixing cleats, cable lugs, terminations, jointing and associated ancillary accessories.				
		11.2.1 PVC Insulated Cable (without CPC)				
		i) 1 x 1C	m			\$ -
		ii) 2.5 mm ²	m			\$ -
		iii) 4 mm ²	m			\$ -
		iv) 6 mm ²	m			\$ -

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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
		11.2.2	PVC/PVC Insulated Cable (without CPC)			
		A)	1 x 1C			
		i)	2.5 mm ²	m		\$ -
		ii)	4 mm ²	m		\$ -
		iii)	6 mm ²	m		\$ -
		B)	1 x 2C			
		i)	2.5 mm ²	m		\$ -
		ii)	4 mm ²	m		\$ -
		iii)	6 mm ²	m		\$ -
		C)	1 x 3C			
		i)	2.5 mm ²	m		\$ -
		ii)	4 mm ²	m		\$ -
		iii)	6 mm ²	m		\$ -
		D)	1 x 4C			\$ -
		i)	2.5 mm ²	m		\$ -
		ii)	4 mm ²	m		\$ -
		iii)	6 mm ²	m		\$ -
		11.2.3	Fire-Rated Cable (without CPC)			
		A)	1 x 1C (without sheath)			
		i)	2.5 mm ²	m		\$ -
		ii)	4 mm ²	m		\$ -
		iii)	6 mm ²	m		\$ -
		B)	1 x 1C (with sheath)			
		i)	2.5 mm ²	m		\$ -
		ii)	4 mm ²	m		\$ -
		iii)	6 mm ²	m		\$ -
		C)	1 x 2C			
		i)	2.5 mm ²	m		\$ -
		ii)	4 mm ²	m		\$ -
		iii)	6 mm ²	m		\$ -

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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
		D)	1 x 3C			
		i)	2.5 mm ²	m		\$ -
		ii)	4 mm ²	m		\$ -
		iii)	6 mm ²	m		\$ -
		E)	1 x 4C			
		i)	1 mm ²	m		\$ -
		ii)	1.5 mm ²	m		\$ -
		iii)	2.5 mm ²	m		\$ -
		iv)	4 mm ²	m		\$ -
		v)	6 mm ²	m		\$ -
	11.2.4	PVC Control Cable (Twisted Screen)				
		A)	1 x 1C			
		i)	0.75 mm ²			
		ii)	1 mm ²	m		\$ -
		iii)	1.25 mm ²	m		\$ -
		iv)	1.5 mm ²	m		\$ -
		v)	2.5 mm ²	m		\$ -
		B)	1 x 2C			
		i)	0.75 mm ²	m		\$ -
		ii)	1 mm ²	m		\$ -
		iii)	1.25 mm ²	m		\$ -
		iv)	1.5 mm ²	m		\$ -
		v)	2.5 mm ²	m		\$ -
		C)	1 x 3C			
		i)	0.75 mm ²	m		\$ -
		ii)	1 mm ²	m		\$ -
		iii)	1.25 mm ²	m		\$ -
		iv)	1.5 mm ²	m		\$ -
		v)	2.5 mm ²	m		\$ -

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Item	Description			Rate S\$			Total			
				Unit	Material	Labour/ Overheads/ Profits				
			D)	1 x 4C						
				i)	0.75 mm ²	m			\$	-
				ii)	1 mm ²	m			\$	-
				iii)	1.25 mm ²	m			\$	-
				iv)	1.5 mm ²	m			\$	-
				v)	2.5 mm ²	m			\$	-
			E)	1 x 5C						
				i)	0.75 mm ²	m			\$	-
				ii)	1 mm ²	m			\$	-
				iii)	1.25 mm ²	m			\$	-
				iv)	1.5 mm ²	m			\$	-
				v)	2.5 mm ²	m			\$	-
			12	Cable Containment						
				Supply and installation of cable trunking, ladder, tray and surface/conceal conduit inclusive of supporting brackets, fixing cleats, junction boxes, brass bushes, saddles, adapters, earthing link and all necessary accessories						
12.1	Conduit									
	12.1.1	Surface								
		A)		Galvanised Steel						
				i)	ø20	m			\$	-
				ii)	Ø25	m			\$	-
				iii)	ø32	m			\$	-
		B)		High Impact uPVC						
				i)	ø20	m			\$	-
				ii)	Ø25	m			\$	-
				iii)	ø32	m			\$	-
		12.1.2		Concealed (In Wall, Slab, Partition and RC)						
				A)	Galvanised Steel					
i)			ø20		m			\$	-	
ii)	Ø25		m				\$	-		
iii)	ø32	m				\$	-			

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Item	Description			Rate S\$			Total
				Unit	Material	Labour/ Overheads/ Profits	
			B)	High Impact uPVC			
				i)	Ø20	m	\$ -
				ii)	Ø25	m	\$ -
				iii)	Ø32	m	\$ -
			12.2	Trunking			
			12.2.1	Hot Dipped Galvanised Mild Steel			
				i)	50mm x 25mm	m	\$ -
				ii)	50mm x 50mm	m	\$ -
				iii)	75mm x 50mm	m	\$ -
				iv)	75mm x 75mm	m	\$ -
				v)	100mm x 50mm	m	\$ -
			12.2.2	Mild Steel Epoxy Coated			
				i)	50mm x 25mm	m	\$ -
				ii)	50mm x 50mm	m	\$ -
				iii)	75mm x 50mm	m	\$ -
				iv)	75mm x 75mm	m	\$ -
				v)	100mm x 50mm	m	\$ -
			12.2.3	High Impact uPVC			
				i)	50mm x 25mm	m	\$ -
				ii)	50mm x 50mm	m	\$ -
				iii)	75mm x 50mm	m	\$ -
				iv)	75mm x 75mm	m	\$ -
				v)	100mm x 50mm	m	\$ -
				vi)	100mm x 75mm	m	\$ -

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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
	12.3	Cable Tray				
	12.3.1	Hot Dipped Galvanised Mild Steel				
		i) 50mm wide	m			\$ -
		ii) 100mm wide	m			\$ -
		iii) 150mm wide	m			\$ -
		iv) 200mm wide	m			\$ -
	12.3.2	Mild Steel Epoxy Coated				
		i) 50mm wide	m			\$ -
		ii) 100mm wide	m			\$ -
		iii) 150mm wide	m			\$ -
		iv) 200mm wide	m			\$ -

11.3 Fire Protection Works

Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
1	Labour Rates					
1.1	Engineers		Per Hr			\$ -
1.2	Supervisors		Per Hr			\$ -
1.2	Pipe fitters		Per Hr			\$ -
1.3	Pipe welders		Per Hr			\$ -
1.4	Alarm system electricians		Per Hr			\$ -
2	Hose Reel System					
2.1	Hose reel pipe work complete with valves, fittings, support and all necessary accessories					
2.1.1	Aboveground Pipework Pipes inclusive all necessary fittings, brackets, bends, elbows, hangers, supports, wall chasing, paintings, trenches, excavation, back-filling, etc.					
	A)	Copper BS EN1057				
	a)	Light gauge (Table X)				
	i)	ø25 mm	m			\$ -
	ii)	ø50 mm	m			\$ -
	b)	Heavy gauge (Table Y)				
	i)	ø25 mm	m			\$ -
	ii)	ø50 mm	m			\$ -
	B)	Galvanised mild steel BS1387				
	a)	Medium gauge class B				
	i)	ø25 mm	m			\$ -
	ii)	ø50 mm	m			\$ -
	iii)	ø65 mm	m			\$ -

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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
	2.2	Hose reels without cabinet in compartment shaft complete with hoses, nozzles, hose guides and all necessary accessories				
	2.2.1	Hosereel (fixed type)				
		A)	Reinforced non-kink rubber hose	no		\$ -
	2.2.2	Hosereel (pivoted swing type)				
		A)	Reinforced non-kink rubber hose	no		\$ -
	2.3	Hose reels with steel cabinets complete with hoses, nozzles, hose guides and all necessary accessories				
	2.3.1	Hosereel (fixed type)				
		A)	Reinforced non-kink rubber hose	no		\$ -
	2.3.2	Hosereel (pivoted swing type)				
		A)	Reinforced non-kink rubber hose	no		\$ -
	2.3.3	Cabinet				
		A)	Mild steel	no		\$ -
		B)	Stainless steel	no		\$ -
3	Dry Riser System					
	3.1	Dry riser pipe work complete with valves, fittings, support and all necessary accessories				
	3.1.1	Pipework Pipes inclusive all necessary fittings, brackets, bends, elbows, hangers, supports, wall chasing, paintings, trenches, excavation, back-filling, etc.				
		A)	Galvanised mild steel BS1387			
		a)	Heavy gauge class B			
		i)	Ø100 mm	m		\$ -
		ii)	Ø150 mm	m		\$ -
		b)	Heavy gauge class C			
		i)	Ø100 mm	m		\$ -
		ii)	Ø150 mm	m		\$ -

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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
	3.2	Landing valves complete with standby hose, strap locks and all necessary accessories				
	3.2.1	Dry riser landing valve inclusive of strapped and padlock				
		A)	Flanged type	no		\$ -
		B)	Screwed type	no		\$ -
	3.2.2	Standby fire hose (saddle type)				
		A)	With mild steel cabinet	no		\$ -
		B)	With stainless steel cabinet	no		\$ -
	3.3	Fire service breeching inlet connection complete with cabinet and earthing				
	3.3.1	Breeching inlet				
		A)	2-way fire brigade breeching inlet			
		a)	Mild steel cabinet	no		\$ -
		b)	Stainless steel cabinet	no		\$ -
		B)	4-way fire brigade breeching inlet			
		a)	Mild steel cabinet	no		\$ -
		b)	Stainless steel cabinet	no		\$ -
	3.4	Fire-rated enclosure to dry riser pipework		m		\$ -
4	Fire Alarm System					
	4.1	Fire Alarm Panel complete with remote fire pumps/tanks status mimic section and alarm functions and 24V battery charger and batteries				
	4.1.1	Fire alarm panel				
		A)	Conventional fire alarm panel with minimum 18 zones module	no		\$ -
		B)	Conventional fire alarm zone card	no		\$ -
		C)	Colour zone chart (silkscreen c/w LED light, wiring)	no		\$ -
		D)	Colour zone chart (silkscreen)	no		\$ -

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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
	4.2	Manual call points, alarm bells, stode lights				
	4.2.1	Alarm bell				
		A)	150mm diameter (Indoor type)	no		\$ -
		B)	150mm diameter (overdoor type)	no		\$ -
	4.2.2	Breakglass push-button call button				
		A)	Indoor type	no		\$ -
		B)	Outdoor type	no		\$ -
	4.2.3	Strobe Light				
		A)	Indoor type	no		\$ -
		B)	Outdoor type	no		\$ -
	4.3	Detectors				
		4.3.1 Smoke detectors				
		A)	Smoke detector (ionisation)	no		\$ -
		B)	Smoke detector (Photo-electric)	no		\$ -
	4.4	Wiring for connecting to all field devices complete with cable support and containment system				
		4.4.1 Addressable type				
		A)	New			
			a)	breakglass push-button call point	pt	\$ -
			b)	alarm bell	pt	\$ -
			d)	smoke detector	pt	\$ -
	4.5	Mimic panels		no		\$ -
	4.6	Fire alarm signal complete with wiring, cable support and containment system to the following				
		4.6.1 Lift panel		no		\$ -
		4.6.2 Others (please specify)				
		A)				
		B)				
		C)				
	4.7	DECAM alarm transmission including all fees and charges payable during the Defects Liability / Maintenance Period		no		\$ -

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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
5	Air Release Valve					
	5.1	ø50 mm	no			\$ -
6	Drain Valve					
	6.1	ø25 mm	no			\$ -
	6.2	ø50 mm	no			\$ -
7	Electrical works					
	7.1	Cabling Supply and installation of cables on vertical and/or horizontal cable support system (exclude cable support system) inclusive of CPC, cable ties, fixing cleats, cable lugs, terminations, jointing and associated ancillary accessories				
	7.1.1	PVC insulated cable				
		A) 1 x 1C				
		i) 1.5 mm ²	m			\$ -
		ii) 2.5 mm ²	m			\$ -
	7.1.2	Fire-rated cable				
		(without CPC)				
		A) 1 x 1C				
		i) 1.5 mm ²	m			\$ -
		ii) 2.5 mm ²	m			\$ -
		iii) 1 x 4 mm ²	m			\$ -
		iv) 1 x 6 mm ²	m			\$ -
		v) 1 x 10 mm ²	m			\$ -
		(with CPC)				
		A) 1 x 2C				
		i) 1.5 mm ²	m			\$ -
		ii) 2.5 mm ²	m			\$ -
		iii) 1 x 4 mm ²	m			\$ -
		iv) 1 x 6 mm ²	m			\$ -
		v) 1 x 10 mm ²	m			\$ -

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

Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
		B)	1 x 3C			
			i)	1.5 mm ²	m	\$ -
			ii)	2.5 mm ²	m	\$ -
			iii)	1 x 4 mm ²	m	\$ -
			iv)	1 x 6 mm ²	m	\$ -
			v)	1 x 10 mm ²	m	\$ -
		C)	1 x 4C			
			i)	1.5 mm ²	m	\$ -
			ii)	2.5 mm ²	m	\$ -
			iii)	1 x 4 mm ²	m	\$ -
			iv)	1 x 6 mm ²	m	\$ -
			v)	1 x 10 mm ²	m	\$ -
	7.2	Cable Containment				
		Supply and installation of cable trunking, ladder, tray and surface/conceal conduit inclusive of supporting brackets, fixing cleats, junction boxes, brass bushes, saddles, adapters, earthing link and all necessary accessories				
	7.2.1	Conduit				
		A)	Surface			
			a)	Galvanised steel		
			i)	ø20	m	\$ -
			ii)	ø25	m	\$ -
			iii)	ø32	m	\$ -
		B)	Concealed (In Wall, Slab, Partition and RC)			
			a)	Galvanised steel		
			i)	ø20	m	\$ -
			ii)	ø25	m	\$ -
			iii)	ø32	m	\$ -

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
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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
		7.2.2	Trunking			
		A)	Hot dipped galvanised mild steel			
			i)	50mm x 25mm	m	\$ -
			ii)	50mm x 50mm	m	\$ -
			iii)	75mm x 50mm	m	\$ -
			iv)	100mm x 50mm	m	\$ -
			v)	150mm x 75mm	m	\$ -
		7.2.3	Cable tray			
		A)	Hot dipped galvanised mild steel			
			i)	50mm wide	m	\$ -
			ii)	100mm wide	m	\$ -
			iii)	150mm wide	m	\$ -
			iv)	200mm wide	m	\$ -
			v)	250mm wide	m	\$ -
			v)	300mm wide	m	\$ -
		7.2.4	Cable ladder			
		A)	Hot dipped galvanised mild steel			
			i)	300mm	m	\$ -
			ii)	450mm	m	\$ -

11.4 Plumbing and Sanitary Works

Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
1	Labour Rates					
	a)	Labourer	per hour			\$ -
	b)	Licensed Plumber	per hour			\$ -
	c)	Supervisor	per hour			\$ -
	d)	Engineer	per hour			\$ -
	e)	Welder	per hour			\$ -
2	Cold Water System					
	2.1	<u>Underground Pipe</u>				
	2.1.1	Underground pipes inclusive of excavation, haunching, bedding, backfilling, bakau piling, re-instatement of ground surfaces etc				
	A)	Copper - Heavy Gauge (Type Y)				
	i)	ø15 mm	m			\$ -
	ii)	ø22 mm	m			\$ -
	iii)	ø28 mm	m			\$ -
	iv)	ø32 mm	m			\$ -
	v)	ø42 mm	m			\$ -
	vi)	ø50 mm	m			\$ -
	2.1.2	Valve inclusive of all necessary joints / supports				
	A)	Gate Valve				
	i)	ø15 mm	no			\$ -
	ii)	ø20 mm	no			\$ -
	iii)	ø25 mm	no			\$ -
	iv)	ø32 mm	no			\$ -
	v)	ø40 mm	no			\$ -
	vi)	ø50 mm	no			\$ -

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
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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
		B)	Globe Valve			
		i)	ø15 mm	no		\$ -
		ii)	ø20 mm	no		\$ -
		iii)	ø25 mm	no		\$ -
		iv)	ø32 mm	no		\$ -
		v)	ø40 mm	no		\$ -
		vi)	ø50 mm	no		\$ -
		C)	Check Valve / Non-Return Valve			
		i)	ø15 mm	no		\$ -
		ii)	ø20 mm	no		\$ -
		iii)	ø25 mm	no		\$ -
		iv)	ø32 mm	no		\$ -
		v)	ø40 mm	no		\$ -
		vi)	ø50 mm	no		\$ -
		D)	Flexible Connector			
		i)	ø15 mm	no		\$ -
		ii)	ø20 mm	no		\$ -
		iii)	ø25 mm	no		\$ -
		iv)	ø32 mm	no		\$ -
		v)	ø40 mm	no		\$ -
		vi)	ø50 mm	no		\$ -
		E)	Rubber Expansion Joint			
		i)	ø50 mm	no		\$ -
		F)	Stainless Steel Expansion Joint			
		i)	ø50 mm	no		\$ -

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
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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
	2.2	<u>Aboveground Pipe</u>				
	2.2.1	Pipes inclusive of necessary fittings, brackets, bends, elbows, hangers, supports, wall chasing, painting etc				
	A)	Poly-propylene random (PPR) - PN 10				
		i)	ø20 mm	m		\$ -
		ii)	ø25 mm	m		\$ -
		iii)	ø32 mm	m		\$ -
		iv)	ø40 mm	m		\$ -
		v)	ø50 mm	m		\$ -
		vi)	ø63 mm	m		\$ -
	B)	Poly-propylene random (PPR) - PN 20				
		i)	ø16 mm	m		\$ -
		ii)	ø20 mm	m		\$ -
		iii)	ø25 mm	m		\$ -
		iv)	ø32 mm	m		\$ -
		v)	ø40 mm	m		\$ -
		vi)	ø50 mm	m		\$ -
		vii)	ø63 mm	m		\$ -
	C)	Copper - Heavy Gauge (Type Y)				
		i)	ø15 mm	m		\$ -
		ii)	ø22 mm	m		\$ -
		iii)	ø28 mm	m		\$ -
		iv)	ø32 mm	m		\$ -
		v)	ø42 mm	m		\$ -
		vi)	ø50 mm	m		\$ -

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
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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
3	Hot Water System					
3.1	Hot Water Heater					
3.1.1	Supply and delivery of water heaters complete with accessories					
A)	Electric storage water heaters					
i)	25 litres		no			\$ -
ii)	35 litres		no			\$ -
iii)	50 litres		no			\$ -
iv)	70 litres		no			\$ -
3.1.2	Take deliver and installation of water heaters complete with supports, safety outlet drain, wiring and accessories					
A)	Electric storage water heaters					
i)	25 litres		no			\$ -
ii)	35 litres		no			\$ -
iii)	50 litres		no			\$ -
iv)	70 litres		no			\$ -
3.2	Supply and installation of hot water supply and return pipe work, complete with fittings and insulation, re-circulating pump to points of usage					
3.2.1	Aboveground Pipe Aboveground pipes inclusive of excavation, haunching, bedding, backfilling, bakau piling, re-instatement of ground surfaces etc					
A)	Pre-insulated					
i)	ø15 mm		m			\$ -
ii)	ø22mm		m			\$ -
iii)	ø28 mm		m			\$ -
3.2.2	Pipe Insulation (exclude pipework)					
A)	25 mm Thick Close Cell Type					
i)	ø15 mm		m			\$ -
ii)	ø22mm		m			\$ -
iii)	ø28 mm		m			\$ -

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WITHIN EXISTING SCHOOL COMPLEX OF SINGAPORE KOREAN INTERNATIONAL SCHOOL ON LOT 01950V MK15 AT 71 BUKIT
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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
			B)	Fibreglass		
			i)	ø15 mm	m	\$ -
			ii)	ø22mm	m	\$ -
			iii)	ø28 mm	m	\$ -
			C)	Metal Jacketing		
			i)	ø15 mm	m	\$ -
			ii)	ø22mm	m	\$ -
			iii)	ø28 mm	m	\$ -
			3.3	Valve inclusive of all necessary joints / supports		
			A)	Gate Valve		
			i)	ø15 mm	no	\$ -
			ii)	ø20 mm	no	\$ -
			iii)	ø25 mm	no	\$ -
			iv)	ø32 mm	no	\$ -
			B)	Globe Valve		
			i)	ø15 mm	no	\$ -
			ii)	ø20 mm	no	\$ -
			iii)	ø25 mm	no	\$ -
			iv)	ø32 mm	no	\$ -
			C)	Check Valve / Non-Return Valve		
			i)	ø15 mm	no	\$ -
			ii)	ø20 mm	no	\$ -
			iii)	ø25 mm	no	\$ -
			iv)	ø32 mm	no	\$ -
			D)	Flexible Connector		
			i)	ø15 mm	no	\$ -
			ii)	ø20 mm	no	\$ -
			iii)	ø25 mm	no	\$ -
			iv)	ø32 mm	no	\$ -

Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
4	Sanitary Drainage System					
4.1	Underground Sanitary Drainage Underground pipes inclusive of excavation, haunching, bedding, backfilling, bakau piling, re-instatement of ground surfaces etc					
4.1.1	Supply and installation of sanitary drain lines, and accessories					
	A)	High density polyethylene				
	i)	ø80 mm	m			\$ -
	ii)	ø100 mm	m			\$ -
	iii)	ø150 mm	m			\$ -
	B)	Polypropylene				
	i)	ø80 mm	m			\$ -
	ii)	ø100 mm	m			\$ -
	iii)	ø150 mm	m			\$ -
	C)	Ductile iron cement lined				
	i)	ø80 mm	m			\$ -
	ii)	ø100 mm	m			\$ -
	iii)	ø150 mm	m			\$ -
	D)	Vitrified clay				
	i)	ø225 mm	m			\$ -
	ii)	ø300 mm	m			\$ -
4.2	Supply and installation of inspection chambers, hatch boxes, cast-iron covers, floor traps, gully traps, and accessories					
	Inspection chamber inclusive frame & cover, concrete benching, channels, excavation, backfilling with sand, good earth, bakau piling, and cover with the original finish of surface disturbed etc.					
4.2.1	Reinforced Concrete Inspection Chamber					
	A)	Heavy Duty				
	i)	≤ 2.5m	no			\$ -
	B)	Light Duty				
	i)	≤ 3m	no			\$ -

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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
	4.2.2	Precast Inspection Chamber				
	A)	Heavy Duty				
	i)	≤ 2.5m	no			\$ -
	B)	Light Duty				
	i)	≤ 3m	no			\$ -
	4.3	Inspection Chamber, Manhole Frame & Cover				
	4.3.1	Heavy duty cast iron double seal flat type cover with frame inclusive bedding & painting	no			\$ -
	4.3.2	Heavy duty recessed cover with frame inclusive bedding of size 600 x 450 mm (tiling by others)	no			\$ -
	4.3.3	Floor Trap, Gully Trap and Grating				
	A)	Grating				
	i)	uPVC	no			\$ -
	ii)	Stainless steel	no			\$ -
	B)	Gully trap inclusive grating and strainer bucket				
	i)	Garage gully with cast iron cover	no			\$ -
	ii)	Cast iron gully trap with cast iron cover	no			\$ -
	iii)	Cast iron gully trap stainless steel cover	no			\$ -
	C)	Floor waste / floor drain (without grating)				
	i)	uPVC	no			\$ -
	ii)	Stainless steel	no			\$ -
	D)	Floor trap (without grating)				
	i)	uPVC	no			\$ -
	ii)	Cast iron	no			\$ -
	E)	Urinal trap (without grating) Urinal trap inclusive of air tight and stainless steel cover				
	i)	uPVC	no			\$ -
	ii)	Cast iron	no			\$ -

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Item	Description	Rate S\$			Total
		Unit	Material	Labour/ Overheads/ Profits	
4.4	Piling for underground sanitary pipework and inspection chambers.				
4.4.1	Bakau piling for underground pipe works including concrete bedding, mesh , anchor block, haunching and sand bedding etc.				
A)	Bakau piling (80mm diameter) including BS mesh, concrete and sand base and associated accessories				
i)	2m deep	no			\$ -
ii)	3m deep	no			\$ -
iii)	4m deep	no			\$ -
iv)	5m deep	no			\$ -
v)	6m deep	no			\$ -
B)	Sewer connection from last IC to sewer manhole	no			\$ -
C)	CCTV inspection for sewer line condition	set			\$ -
4.5	Aboveground Sanitary Drainage				
4.5.1	Supply and installation of sanitary drainage system (aboveground), comprising soil, waste and vent pipes, floor drains, floor traps, fire stops and accessories connecting to inspection chambers				
A)	<u>Sanitary Drainage</u>				
a)	High density polyethylene				
i)	ø50 mm	m			\$ -
ii)	ø80 mm	m			\$ -
iii)	ø100 mm	m			\$ -
iv)	ø150 mm	m			\$ -
b)	uPVC SS213				
i)	ø50 mm	m			\$ -
ii)	ø80 mm	m			\$ -
iii)	ø100 mm	m			\$ -
iv)	ø150 mm	m			\$ -

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WITHIN EXISTING SCHOOL COMPLEX OF SINGAPORE KOREAN INTERNATIONAL SCHOOL ON LOT 01950V MK15 AT 71 BUKIT
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Item	Description			Rate S\$			Total
				Unit	Material	Labour/ Overheads/ Profits	
			c)	Polypropylene			
			i)	ø50 mm	m		\$ -
			ii)	ø80 mm	m		\$ -
			iii)	ø100 mm	m		\$ -
			iv)	ø150 mm	m		\$ -
		4.5.2	Supply and installation floor traps, gully traps and gratings inclusive associated accessories, final connection from roughed-in pipes				
			A)	Grating			
			i)	uPVC	no		\$ -
			ii)	Stainless steel	no		\$ -
			B)	Gully Trap Inclusive Grating and Strainer Bucket			
			i)	Garage gully with cast iron cover	no		\$ -
			ii)	Cast iron gully trap with cast iron cover	no		\$ -
			iii)	Cast iron gully trap stainless steel cover	no		\$ -
			C)	Floor Waste / Floor Drain (Without Grating)			
			i)	uPVC	no		\$ -
			iii)	Stainless steel	no		\$ -
			D)	Floor Trap (Without Grating)			
			i)	uPVC	no		\$ -
			ii)	Cast iron	no		\$ -
			E)	Urinal Trap (Without Grating)			
			i)	uPVC	no		\$ -
			ii)	Cast iron	no		\$ -

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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
5	Sanitary Wares and Fittings					
5.1	Taking delivery and installation of sanitary wares and fittings complete with supports, jointing and sealing compounds. (Sanitary wares and fittings shall be supplied by Others)					
	A)	Please specify				
	i)	Wash Basin c/w Mixer	no			\$ -
	ii)	Water Closet c/w Flush Valve	no			\$ -
	iii)	Shower c/w Mixer	no			\$ -
	iv)	Sink c/w Mixer	no			\$ -
	v)	Urinal c/w Flush Valve	no			\$ -
	vi)	Soap Holder	no			\$ -
	vii)	Paper Holder	no			\$ -
	viii)	Please specify	no			\$ -
	i)		no			\$ -
	ii)		no			\$ -
	iii)		no			\$ -

11.5 Electrical Works

Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
1	Labour Rates					
1.1	EMA License Electrical Worker - Engineer Grade		per hr			\$ -
1.2	EMA License Electrical Worker - Technician Grade		per hr			\$ -
1.3	EMA License Electrical Worker - Electrician Grade		per hr			\$ -
1.4	Electrician		per hr			\$ -
1.5	Supervisor		per hr			\$ -
1.6	Others (please specify)					
	i)		per hr			\$ -
	ii)		per hr			\$ -
	iii)		per hr			\$ -
2	LV Switchboards					
2.1	<u>MOULDED CASE CIRCUIT BREAKER/ MINIATURE CIRCUIT BREAKER</u>					
	Supply and installation of MCB/ MCCB in cubicle panel complete with thermal/magnetic trip etc.					
	Breaking Capacity of MCCB 36KA rms (SYM)					
	A)	415V, TPN				
	iii)	800AF, 700AT- 800AT	no.			\$ -
	iv)	600AF, 500AT- 600AT	no.			\$ -
	v)	400AF, 250AT- 400AT	no.			\$ -
	vi)	225AF, 100AT- 225AT	no.			\$ -
	vii)	100AF, 60AT- 100AT	no.			\$ -
	B)	415V, 4P				
	i)	1250AF, 1100AT-1250AT	no.			\$ -
	ii)	1000AF, 900AT-1000AT	no.			\$ -
	iii)	800AF, 700AT- 800AT	no.			\$ -
	iv)	600AF, 500AT- 600AT	no.			\$ -

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WITHIN EXISTING SCHOOL COMPLEX OF SINGAPORE KOREAN INTERNATIONAL SCHOOL ON LOT 01950V MK15 AT 71 BUKIT
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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
		Breaking Capacity of MCCB 22KA rms (SYM)				
	A)	415V, TPN				
	i)	800AF, 700AT- 800AT	no.			\$ -
	ii)	600AF, 500AT- 600AT	no.			\$ -
	iii)	400AF, 250AT- 400AT	no.			\$ -
	iv)	225AF, 100AT- 225AT	no.			\$ -
	v)	100AF, 60AT- 100AT	no.			\$ -
	B)	415V, 4P				
	i)	800AF, 700AT- 800AT	no.			\$ -
	ii)	600AF, 500AT- 600AT	no.			\$ -
	C)	250V, DP				
	i)	100AF,60AT-100AT	no.			\$ -
		Breaking Capacity of MCB 15KA rms (SYM)				
	A)	415V, TPN				
	i)	100A to 60A	no.			\$ -
	ii)	50A to 15A	no.			\$ -
	B)	415V, 4P				
	i)	100A to 60A	no.			\$ -
	ii)	50A to 15A	no.			\$ -
	C)	250V, DP				
	i)	100A to 60A	no.			\$ -
	ii)	50A to 15A	no.			\$ -
	D)	250V, SPN				
	i)	100A to 60A	no.			\$ -
	ii)	50A to 15A	no.			\$ -

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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
		Breaking Capacity of MCB 10KA rms (SYM)				
	A)	415V, TPN				
		i) 100A to 60A	no.			\$ -
		ii) 50A to 15A	no.			\$ -
	B)	415V, 4P				
		i) 100A to 60A	no.			\$ -
		ii) 50A to 15A	no.			\$ -
	C)	250V, DP				
		i) 100A to 60A	no.			\$ -
		ii) 50A to 15A	no.			\$ -
	D)	250V, SPN				
		i) 100A to 60A	no.			\$ -
		ii) 50A to 15A	no.			\$ -
		Breaking Capacity of MCB 6KA rms (SYM)				
	A)	415V, TPN				
		ii) 100AF, 60AT- 100AT	no.			\$ -
		iii) 50AF, 10AT- 50AT	no.			\$ -
	B)	415V, 4P				
		ii) 100AF, 60AT- 100AT	no.			\$ -
		iii) 50AF, 10AT- 50AT	no.			\$ -
	C)	250V, DP				
		i) 100AF, 60AT- 100AT	no.			\$ -
		ii) 50AF, 10AT- 50AT	no.			\$ -
	D)	250V, SPN				
		i) 100AF, 60AT- 100AT	no.			\$ -
		ii) 50AF, 10AT- 50AT	no.			\$ -

Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
3	Main and Sub-Main Distribution System					
	PVC Insulated Cable					
	A)	1 x 1C				
	i)	1.5 mm ²	m			\$ -
	ii)	2.5 mm ²	m			\$ -
	iii)	4 mm ²	m			\$ -
	iv)	6 mm ²	m			\$ -
	v)	10 mm ²	m			\$ -
	vi)	16 mm ²	m			\$ -
	vii)	25 mm ²	m			\$ -
	viii)	35 mm ²	m			\$ -
	ix)	50 mm ²	m			\$ -
	x)	70 mm ²	m			\$ -
	xi)	95 mm ²	m			\$ -
	xii)	120 mm ²	m			\$ -
	PVC / PVC Insulated Cable					
	A)	1 x 1C				
	i)	16 mm ²	m			\$ -
	ii)	25 mm ²	m			\$ -
	iii)	35 mm ²	m			\$ -
	iv)	50 mm ²	m			\$ -
	v)	70 mm ²	m			\$ -
	vi)	95 mm ²	m			\$ -
	vii)	120 mm ²	m			\$ -

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TINGGI ROAD

Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
	PVC / SWA / PVC Cable (Armoured)					
	A)	1 x 2C				
		i) 1.5 mm ²	m			\$ -
		ii) 2.5 mm ²	m			\$ -
		iii) 4 mm ²	m			\$ -
		iv) 6 mm ²	m			\$ -
		v) 10 mm ²	m			\$ -
		vi) 16 mm ²	m			\$ -
		vii) 25 mm ²	m			\$ -
		viii) 35 mm ²	m			\$ -
		ix) 50 mm ²	m			\$ -
		x) 70 mm ²	m			\$ -
		xi) 95 mm ²	m			\$ -
		xii) 120 mm ²	m			\$ -
	B)	1 x 3C				
		i) 1.5 mm ²	m			\$ -
		ii) 2.5 mm ²	m			\$ -
		iii) 4 mm ²	m			\$ -
		iv) 6 mm ²	m			\$ -
		v) 10 mm ²	m			\$ -
		vi) 16 mm ²	m			\$ -
		vii) 25 mm ²	m			\$ -
		viii) 35 mm ²	m			\$ -
		v) 50 mm ²	m			\$ -
		vi) 70 mm ²	m			\$ -
		vii) 95 mm ²	m			\$ -
		viii) 120 mm ²	m			\$ -

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

Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
	C)	1 x 4C				
		i) 10 mm ²	m			\$ -
		ii) 16 mm ²	m			\$ -
		iii) 25 mm ²	m			\$ -
		iv) 35 mm ²	m			\$ -
		v) 50 mm ²	m			\$ -
		vi) 70 mm ²	m			\$ -
		vii) 95 mm ²	m			\$ -
		viii) 120 mm ²	m			\$ -
		XLPE / PVC Cable				\$ -
	A)	1 x 1C				
		i) 16 mm ²	m			\$ -
		ii) 25 mm ²	m			\$ -
		iii) 35 mm ²	m			\$ -
		iv) 50 mm ²	m			\$ -
		v) 70 mm ²	m			\$ -
		vi) 95 mm ²	m			\$ -
		vii) 120 mm ²	m			\$ -
		XLPE / SWA / PVC Cable (Armoured)				
	A)	1 x 2C				
		i) 1.5 mm ²	m			\$ -
		ii) 2.5 mm ²	m			\$ -
		iii) 4 mm ²	m			\$ -
		iv) 6 mm ²	m			\$ -
		v) 10 mm ²	m			\$ -
		vi) 16 mm ²	m			\$ -
		vii) 25 mm ²	m			\$ -
		viii) 35 mm ²	m			\$ -
		ix) 50 mm ²	m			\$ -
		x) 70 mm ²	m			\$ -
		xi) 95 mm ²	m			\$ -
		xii) 120 mm ²	m			\$ -

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

Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
	B)	1 x 3C				
		i) 1.5 mm ²	m			\$ -
		ii) 2.5 mm ²	m			\$ -
		iii) 4 mm ²	m			\$ -
		iv) 6 mm ²	m			\$ -
		v) 10 mm ²	m			\$ -
		vi) 16 mm ²	m			\$ -
		vii) 25 mm ²	m			\$ -
		viii) 35 mm ²	m			\$ -
		ix) 50 mm ²	m			\$ -
		x) 70 mm ²	m			\$ -
		xi) 95 mm ²	m			\$ -
		xii) 120 mm ²	m			\$ -
	C)	1 x 4C				
		i) 10 mm ²	m			\$ -
		ii) 16 mm ²	m			\$ -
		iii) 25 mm ²	m			\$ -
		iv) 35 mm ²	m			\$ -
		v) 50 mm ²	m			\$ -
		vi) 70 mm ²	m			\$ -
		vii) 95 mm ²	m			\$ -
		viii) 120 mm ²	m			\$ -

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
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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
	Fire-Rated Cable					
	A)	1 x 1C (without sheath)				
		i) 1.5 mm ²	m			\$ -
		ii) 2.5 mm ²	m			\$ -
		iii) 4 mm ²	m			\$ -
		iv) 6 mm ²	m			\$ -
		v) 10 mm ²	m			\$ -
		vi) 16 mm ²	m			\$ -
		vii) 25 mm ²	m			\$ -
		viii) 35 mm ²	m			\$ -
		ix) 50 mm ²	m			\$ -
		x) 70 mm ²	m			\$ -
		xi) 95 mm ²	m			\$ -
		xii) 120 mm ²	m			\$ -
	B)	1 x 1C (with sheath)				
		i) 1.5 mm ²	m			\$ -
		ii) 2.5 mm ²	m			\$ -
		iii) 4 mm ²	m			\$ -
		iv) 6 mm ²	m			\$ -
		v) 10 mm ²	m			\$ -
		vi) 16 mm ²	m			\$ -
		vii) 25 mm ²	m			\$ -
		viii) 35 mm ²	m			\$ -
		ix) 50 mm ²	m			\$ -
		x) 70 mm ²	m			\$ -
		xi) 95 mm ²	m			\$ -
		xii) 120 mm ²	m			\$ -

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WITHIN EXISTING SCHOOL COMPLEX OF SINGAPORE KOREAN INTERNATIONAL SCHOOL ON LOT 01950V MK15 AT 71 BUKIT
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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
	C)	1 x 2C (with shealth)				
		i) 1.5 mm ²	m			\$ -
		ii) 2.5 mm ²	m			\$ -
		iii) 4 mm ²	m			\$ -
		iv) 6 mm ²	m			\$ -
		v) 10 mm ²	m			\$ -
		vi) 16 mm ²	m			\$ -
		vii) 25 mm ²	m			\$ -
		viii) 35 mm ²	m			\$ -
	D)	1 x 4C (with shealth)				
		i) 1 mm ²	m			\$ -
		ii) 1.5 mm ²	m			\$ -
		iii) 2.5 mm ²	m			\$ -
		iv) 4 mm ²	m			\$ -
		v) 6 mm ²	m			\$ -
		vi) 10 mm ²	m			\$ -
		vii) 16 mm ²	m			\$ -
		viii) 25 mm ²	m			\$ -
		ix) 35 mm ²	m			\$ -
		x) 50 mm ²	m			\$ -
		xi) 70 mm ²	m			\$ -
		xii) 95 mm ²	m			\$ -
		xiii) 120 mm ²	m			\$ -

Item	Description	Rate S\$			Total
		Unit	Material	Labour/ Overheads/ Profits	
4	<u>CABLE CONDUITS / TRUNKINGS / TRAYS / LADDERS</u> Vertical and/or horizontal cable ladder, tray, trunking, surface/concealed conduit inclusive of supporting brackets, fixing cleats, junction boxes, brass bushes, saddles, adapters, earthing link, accessories, etc.				
	A) Cable Ladder				
	Mild steel epoxy coated				
	i) 300 mm wide	m			\$ -
	ii) 450 mm wide	m			\$ -
	iii) 600 mm wide	m			\$ -
	Hot-dipped galvanised mild steel				
	i) 300 mm wide	m			\$ -
	ii) 450 mm wide	m			\$ -
	iii) 600 mm wide	m			\$ -
	B) Cable Tray				
	Mild steel epoxy coated				
	i) 50 mm wide	m			\$ -
	ii) 100 mm wide	m			\$ -
	iii) 150 mm wide	m			\$ -
	iv) 200 mm wide	m			\$ -
	v) 250 mm wide	m			\$ -
	vi) 300 mm wide	m			\$ -
	vii) 450 mm wide	m			\$ -
	viii) 600 mm wide	m			\$ -

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
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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
		Hot-dipped galvanised mild steel				
		i) 50 mm wide	m			\$ -
		ii) 100 mm wide	m			\$ -
		iii) 150 mm wide	m			\$ -
		iv) 200 mm wide	m			\$ -
		v) 250 mm wide	m			\$ -
		vi) 300 mm wide	m			\$ -
		vii) 450 mm wide	m			\$ -
		viii) 600 mm wide	m			\$ -
	C)	Trunking				
		Mild steel epoxy coated				
		i) 50 x 25 mm	m			\$ -
		ii) 50 x 50 mm	m			\$ -
		iii) 75 x 50 mm	m			\$ -
		iv) 75 x 75 mm	m			\$ -
		v) 100 x 50 mm	m			\$ -
		vi) 100 x 75 mm	m			\$ -
		vii) 100 x 100 mm	m			\$ -
		viii) 150 x 75 mm	m			\$ -
		ix) 150 x 100 mm	m			\$ -
		x) 200 x 75 mm	m			\$ -
		xi) 200 x 100 mm	m			\$ -

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WITHIN EXISTING SCHOOL COMPLEX OF SINGAPORE KOREAN INTERNATIONAL SCHOOL ON LOT 01950V MK15 AT 71 BUKIT
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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
		Hot -Dipped Galvanised steel				
	i)	50 x 25 mm	m			\$ -
	ii)	50 x 50 mm	m			\$ -
	iii)	75 x 50 mm	m			\$ -
	iv)	75 x 75 mm	m			\$ -
	v)	100 x 50 mm	m			\$ -
	vi)	100 x 75 mm	m			\$ -
	vii)	100 x 100 mm	m			\$ -
	viii)	150 x 75 mm	m			\$ -
	ix)	150 x 100 mm	m			\$ -
	x)	200 x 75 mm	m			\$ -
	xi)	200 x 100 mm	m			\$ -
	D)	Conduits				
		Galvanised steel				
	i)	ø20 mm	m			\$ -
	ii)	ø25 mm	m			\$ -
	iii)	ø32 mm	m			\$ -
		High impact uPVC				
	i)	ø20 mm	m			\$ -
	ii)	ø25 mm	m			\$ -
	iii)	ø32 mm	m			\$ -
		Steel Flexible with uPVC over-sheath				
	i)	ø20 mm	m			\$ -
	ii)	ø25 mm	m			\$ -
	iii)	ø32 mm	m			\$ -

Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
5	Distribution Board					
	A)	Distribution Board MCB distribution board inclusive enclosure, neutral & earth terminal block clamping rails, comb bar (exclude MCB and protective devices) etc.				
		60A DP Main Switch				
	i)	6 ways	no.			\$ -
	ii)	8 ways	no.			\$ -
	iii)	10 ways	no.			\$ -
	iv)	12 ways	no.			\$ -
	v)	18 ways	no.			\$ -
		60A TPN Main Switch				
	i)	12 ways	no.			\$ -
	ii)	18 ways	no.			\$ -
	iii)	24 ways	no.			\$ -
	iv)	36 ways	no.			\$ -
		100A DP Main Switch				
	i)	6 ways	no.			\$ -
	ii)	8 ways	no.			\$ -
	iii)	10 ways	no.			\$ -
	iv)	12 ways	no.			\$ -
	v)	18 ways	no.			\$ -
		100A TPN Main Switch				
	i)	12 ways	no.			\$ -
	ii)	18 ways	no.			\$ -
	iii)	24 ways	no.			\$ -
	iv)	36 ways	no.			\$ -

Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
6	Residual Current Circuit Breakers (RCCB) in any switchboard, distribution board inclusive of all connections, additional space, etc.					
		30 mA Sensitivity				
	i)	40 A, 2-pole, 230V	no.			\$ -
	ii)	63 A, 2-pole, 230V	no.			\$ -
	iii)	100 A, 2-pole, 230V	no.			\$ -
	iv)	40 A, 4-pole, 400V	no.			\$ -
	v)	63 A, 4-pole, 400V	no.			\$ -
	vi)	100 A, 4-pole, 400V	no.			\$ -
		100 mA Sensitivity				
	i)	40 A, 2-pole, 230V	no.			\$ -
	ii)	63 A, 2-pole, 230V	no.			\$ -
	iii)	100 A, 2-pole, 230V	no.			\$ -
	iv)	40 A, 4-pole, 400V	no.			\$ -
	v)	63 A, 4-pole, 400V	no.			\$ -
	vi)	100 A, 4-pole, 400V	no.			\$ -
		300 mA Sensitivity				
	i)	40 A, 2-pole, 230V	no.			\$ -
	ii)	63 A, 2-pole, 230V	no.			\$ -
	iii)	100 A, 2-pole, 230V	no.			\$ -
	iv)	40 A, 4-pole, 400V	no.			\$ -
	v)	63 A, 4-pole, 400V	no.			\$ -
	vi)	100 A, 4-pole, 400V	no.			\$ -

Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
7	Final Circuit Wiring					
	7.1	Final circuits for lightings				
		A) Lighting Point Inclusive of wiring, earth wire, conduit and/or trunking, saddles, fittings, terminations, connectors, ceiling rose, etc. but excluding lighting switch				
		Surface				
		In uPVC conduit - PVC cable				
		i) Wired in 2x 1.5 mm ² + E in conduit and/or trunking from DB	pt			\$ -
		ii) Wired in 2x 2.5 mm ² + E in conduit and/or trunking from DB	pt			\$ -
		iii) Wired in 3x 1.5 mm ² + E in conduit and/or trunking from DB and controlled by a dimmer control	pt			\$ -
		iv) Wired in 3x 2.5 mm ² + E in conduit and/or trunking from DB and controlled by a dimmer control	pt			\$ -
		In GI conduit - PVC cable				
		i) Wired in 2x 1.5 mm ² + E in conduit and/or trunking from DB	pt			\$ -
		ii) Wired in 2x 2.5 mm ² + E in conduit and/or trunking from DB	pt			\$ -
		iii) Wired in 3x 1.5 mm ² + E in conduit and/or trunking from DB and controlled by a dimmer control	pt			\$ -
		iv) Wired in 3x 2.5 mm ² + E in conduit and/or trunking from DB and controlled by a dimmer control	pt			\$ -

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TINGGI ROAD

Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
			In GI conduit - FR cable			
		i)	Wired in 2x 1.5 mm ² + E in conduit and/or trunking from DB	pt		\$ -
		ii)	Wired in 2x 2.5 mm ² + E in conduit and/or trunking from DB	pt		\$ -
		iii)	Wired in 3x 1.5 mm ² + E in conduit and/or trunking from DB and controlled by a dimmer control	pt		\$ -
		iv)	Wired in 3x 2.5 mm ² + E in conduit and/or trunking from DB and controlled by a dimmer control	pt		\$ -
		Concealed				
			In uPVC conduit - PVC cable			
		i)	Wired in 2x 1.5 mm ² + E in conduit and/or trunking from DB	pt		\$ -
		ii)	Wired in 2x 2.5 mm ² + E in conduit and/or trunking from DB	pt		\$ -
		iii)	Wired in 3x 1.5 mm ² + E in conduit and/or trunking from DB and controlled by a dimmer control	pt		\$ -
		iv)	Wired in 3x 2.5 mm ² + E in conduit and/or trunking from DB and controlled by a dimmer control	pt		\$ -

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TINGGI ROAD

Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
			In GI conduit - PVC cable			
		i)	Wired in 2x 1.5 mm ² + E in conduit and/or trunking from DB	pt		\$ -
		ii)	Wired in 2x 2.5 mm ² + E in conduit and/or trunking from DB	pt		\$ -
		iii)	Wired in 3x 1.5 mm ² + E in conduit and/or trunking from DB and controlled by a dimmer control	pt		\$ -
		iv)	Wired in 3x 2.5 mm ² + E in conduit and/or trunking from DB and controlled by a dimmer control	pt		\$ -
			In GI conduit - FR cable			
		i)	Wired in 2x 1.5 mm ² + E in conduit and/or trunking from DB	pt		\$ -
		ii)	Wired in 2x 2.5 mm ² + E in conduit and/or trunking from DB	pt		\$ -
		iii)	Wired in 3x 1.5 mm ² + E in conduit and/or trunking from DB and controlled by a dimmer control	pt		\$ -
		iv)	Wired in 3x 2.5 mm ² + E in conduit and/or trunking from DB and controlled by a dimmer control	pt		\$ -
	B)	External Light Point				
		In uPVC pipe - PVC/SWA/PVC cable (New)				
		i)	Wired in 2x 2.5 mm ² + E in conduit and/or trunking from DB	pt		\$ -

Item	Description	Rate S\$			Total
		Unit	Material	Labour/ Overheads/ Profits	
	C) SWITCHES				
	Switches inclusive accessories, etc				
	Impact Resistant Polycarbonate (White)				
	i) 10 A, 1-way 1-gang	no.			\$ -
	ii) 10 A, 2-way 1-gang	no.			\$ -
	iii) 10 A, 1-way 2-gang	no.			\$ -
	iv) 10 A, 2-way 2-gang	no.			\$ -
	v) 10 A, 1-way 3-gang	no.			\$ -
	vi) 10 A, 2-way 3-gang	no.			\$ -
	vii) 10 A, 1-way 4-gang	no.			\$ -
	viii) 10 A, 2-way 4-gang	no.			\$ -
	ix) 20A DP switch	no.			\$ -
	x) 20A DP switch with pilot light	no.			\$ -
	xi) 32A DP switch	no.			\$ -
	Metalclad				
	i) 10 A, 1-way 1-gang	no.			\$ -
	ii) 10 A, 2-way 1-gang	no.			\$ -
	iii) 10 A, 1-way 2-gang	no.			\$ -
	iv) 10 A, 2-way 2-gang	no.			\$ -
	v) 10 A, 1-way 3-gang	no.			\$ -
	vi) 10 A, 2-way 3-gang	no.			\$ -
	vii) 10 A, 1-way 4-gang	no.			\$ -
	viii) 10 A, 2-way 4-gang	no.			\$ -
	ix) 20A DP switch	no.			\$ -
	x) 20A DP switch with pilot light	no.			\$ -
	xi) 32A DP switch	no.			\$ -
	Weatherproof				
	i) 10 A, 1-way 1-gang	no.			\$ -
	ii) 10 A, 2-way 1-gang	no.			\$ -
	iii) 10 A, 1-way 2-gang	no.			\$ -
	iv) 10 A, 2-way 2-gang	no.			\$ -

Item	Description	Rate S\$			Total
		Unit	Material	Labour/ Overheads/ Profits	
7.2	Final circuits for small power and electrical isolators				
	A) Power Point Inclusive of wiring, earth wire, conduit and/or trunking, saddles, fittings, terminations, etc include switch socket outlets and isolators				
	Surface				
	In uPVC conduit - PVC cable				
	i) For 13 A S/S/O, 2x 2.5 mm ² cables + E in conduit and/or trunking	pt			\$ -
	ii) For twin 13 A S/S/O, 2x 2.5 mm ² cables + E in conduit and/or trunking	pt			\$ -
	iii) For 13 A S/S/O, 2x 4 mm ² cables + E in conduit and/or trunking in radial circuit	pt			\$ -
	iv) For twin 13 A S/S/O, 2x 4 mm ² cables + E in conduit and/or trunking in radial circuit	pt			\$ -
	v) For 13 A S/S/O, 2x 4 mm ² cables + E in conduit and/or trunking in ring circuit	pt			\$ -
	vi) For twin 13 A S/S/O, 2x 4 mm ² cables + E in conduit and/or trunking in ring circuit	pt			\$ -
	vii) For Water heater point	pt			\$ -
	viii) For 15A DP weather proof isolator	pt			\$ -
	ix) For 20A DP weather proof isolator	pt			\$ -
	x) For 20A 4P weather proof isolator	pt			\$ -
	xi) For 30A DP weather proof isolator	pt			\$ -
	xii) For 30A 4P weather proof isolator	pt			\$ -

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Item	Description		Rate S\$			Total			
			Unit	Material	Labour/ Overheads/ Profits				
			In GI conduit - PVC cable						
			i)	For 13 A S/S/O, 2x 2.5 mm ² cables + E in conduit and/or trunking	pt			\$	-
			ii)	For twin 13 A S/S/O, 2x 2.5 mm ² cables + E in conduit and/or trunking	pt			\$	-
			iii)	For 13 A S/S/O, 2x 4 mm ² cables + E in conduit and/or trunking in radial circuit	pt			\$	-
			iv)	For twin 13 A S/S/O, 2x 4 mm ² cables + E in conduit and/or trunking in radial circuit	pt			\$	-
			v)	For 13 A S/S/O, 2x 4 mm ² cables + E in conduit and/or trunking in ring circuit	pt			\$	-
			vi)	For twin 13 A S/S/O, 2x 4 mm ² cables + E in conduit and/or trunking in ring circuit	pt			\$	-
			vii)	For Water heater point	pt			\$	-
			viii)	For 15A DP weather proof isolator	pt			\$	-
			ix)	For 20A DP weather proof isolator	pt			\$	-
			x)	For 20A 4P weather proof isolator	pt			\$	-
			xi)	For 30A DP weather proof isolator	pt			\$	-
			xii)	For 30A 4P weather proof isolator	pt			\$	-

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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
		In GI conduit - FR cable				
		i) For 13 A S/S/O, 2x 2.5 mm ² cables + E in conduit and/or trunking	pt			\$ -
		ii) For twin 13 A S/S/O, 2x 2.5 mm ² cables + E in conduit and/or trunking	pt			\$ -
		iii) For 13 A S/S/O, 2x 4 mm ² cables + E in conduit and/or trunking in radial circuit	pt			\$ -
		iv) For twin 13 A S/S/O, 2x 4 mm ² cables + E in conduit and/or trunking in radial circuit	pt			\$ -
		v) For 13 A S/S/O, 2x 4 mm ² cables + E in conduit and/or trunking in ring circuit	pt			\$ -
		vi) For twin 13 A S/S/O, 2x 4 mm ² cables + E in conduit and/or trunking in ring circuit	pt			\$ -
		vii) For Water heater point	pt			\$ -
		viii) For 15A DP weather proof isolator	pt			\$ -
		ix) For 20A DP weather proof isolator	pt			\$ -
		x) For 20A 4P weather proof isolator	pt			\$ -
		xi) For 30A DP weather proof isolator	pt			\$ -
		xii) For 30A 4P weather proof isolator	pt			\$ -

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WITHIN EXISTING SCHOOL COMPLEX OF SINGAPORE KOREAN INTERNATIONAL SCHOOL ON LOT 01950V MK15 AT 71 BUKIT
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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
		Concealed				
		In uPVC conduit - PVC cable				
		i) For 13 A S/S/O, 2x 2.5 mm ² cables + E in conduit and/or trunking	pt			\$ -
		ii) For twin 13 A S/S/O, 2x 2.5 mm ² cables + E in conduit and/or trunking	pt			\$ -
		iii) For 13 A S/S/O, 2x 4 mm ² cables + E in conduit and/or trunking in radial circuit	pt			\$ -
		iv) For twin 13 A S/S/O, 2x 4 mm ² cables + E in conduit and/or trunking in radial circuit	pt			\$ -
		v) For 13 A S/S/O, 2x 4 mm ² cables + E in conduit and/or trunking in ring circuit	pt			\$ -
		vi) For twin 13 A S/S/O, 2x 4 mm ² cables + E in conduit and/or trunking in ring circuit	pt			\$ -
		vii) For Water heater point	pt			\$ -
		viii) For 15A DP weather proof isolator	pt			\$ -
		ix) For 20A DP weather proof isolator	pt			\$ -
		x) For 20A 4P weather proof isolator	pt			\$ -
		xi) For 30A DP weather proof isolator	pt			\$ -
		xii) For 30A 4P weather proof isolator	pt			\$ -

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Item	Description		Rate S\$			Total			
			Unit	Material	Labour/ Overheads/ Profits				
			In GI conduit - PVC cable						
			i)	For 13 A S/S/O, 2x 2.5 mm ² cables + E in conduit and/or trunking	pt			\$	-
			ii)	For twin 13 A S/S/O, 2x 2.5 mm ² cables + E in conduit and/or trunking	pt			\$	-
			iii)	For 13 A S/S/O, 2x 4 mm ² cables + E in conduit and/or trunking in radial circuit	pt			\$	-
			iv)	For twin 13 A S/S/O, 2x 4 mm ² cables + E in conduit and/or trunking in radial circuit	pt			\$	-
			v)	For 13 A S/S/O, 2x 4 mm ² cables + E in conduit and/or trunking in ring circuit	pt			\$	-
			vi)	For twin 13 A S/S/O, 2x 4 mm ² cables + E in conduit and/or trunking in ring circuit	pt			\$	-
			vii)	For Water heater point	pt			\$	-
			viii)	For 15A DP weather proof isolator	pt			\$	-
			ix)	For 20A DP weather proof isolator	pt			\$	-
			x)	For 20A 4P weather proof isolator	pt			\$	-
			xi)	For 30A DP weather proof isolator	pt			\$	-
			xii)	For 30A 4P weather proof isolator	pt			\$	-

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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
		In GI conduit - FR cable				
	i)	For 13 A S/S/O, 2x 2.5 mm ² cables + E in conduit and/or trunking	pt			\$ -
	ii)	For twin 13 A S/S/O, 2x 2.5 mm ² cables + E in conduit and/or trunking	pt			\$ -
	iii)	For 13 A S/S/O, 2x 4 mm ² cables + E in conduit and/or trunking in radial circuit	pt			\$ -
	iv)	For twin 13 A S/S/O, 2x 4 mm ² cables + E in conduit and/or trunking in radial circuit	pt			\$ -
	v)	For 13 A S/S/O, 2x 4 mm ² cables + E in conduit and/or trunking in ring circuit	pt			\$ -
	vi)	For twin 13 A S/S/O, 2x 4 mm ² cables + E in conduit and/or trunking in ring circuit	pt			\$ -
	vii)	For Water heater point	pt			\$ -
	viii)	For 15A DP weather proof isolator	pt			\$ -
	ix)	For 20A DP weather proof isolator	pt			\$ -
	x)	For 20A 4P weather proof isolator	pt			\$ -
	xi)	For 30A DP weather proof isolator	pt			\$ -
	xii)	For 30A 4P weather proof isolator	pt			\$ -

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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
		B)	Switch Socket Outlet			
			Switch socket outlet inclusive mounting boxes and frames and accessories (excluding wiring)			
		i)	13 A	pt		\$ -
		ii)	13 A Twin	pt		\$ -
		iii)	13 A inclusive neon indicator	pt		\$ -
		iv)	13 A Twin inclusive neon indicator	pt		\$ -
		v)	13 A Metal-clad	pt		\$ -
		vi)	13 A Twin Metal-clad	pt		\$ -
		vii)	13 A Weatherproof	pt		\$ -
		xi)	13 A inclusive neon indicator and 100mA sensitivity residual current operated circuit breaker	pt		\$ -
		xii)	13 A inclusive neon indicator and 30mA sensitivity residual current operated circuit breaker	pt		\$ -
		xiii)	DP switch	pt		\$ -
		xiv)	Fused connection unit	pt		\$ -
			Surface mounting industrial type socket outlet inclusive plug			
			SPN + E			
		i)	16 A	pt		\$ -
		ii)	32 A	pt		\$ -
		iii)	63 A	pt		\$ -
		iv)	125 A	pt		\$ -

Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
			TPN + E			
		i)	16 A	pt		\$ -
		ii)	32 A	pt		\$ -
		iii)	63 A	pt		\$ -
		iv)	125 A	pt		\$ -
8	Earth Leakage Relay (ELR) in any switchboard, distribution board inclusive of all connections, additional space, etc.					
		i)	1-10A Adjustable	no.		\$ -
9	Lighting Installation					
	9.1	Supply and Installation of Lighting				
		A)	Emergency light fittings			
			Light Fittings Light fittings including taking delivery, testing, mass concrete foundation, bracket supports, lamps, starters etc			
			Emergency Light Fitting (UFO)	no.		\$ -
			Emergency Light Fitting (Mickey Mouse)	no.		\$ -
			Emergency Light Fitting (Mickey Mouse) WP Type	no.		\$ -
			EXIT Light Fitting	no.		\$ -
			EXIT Light Fitting (WP Type)	no.		\$ -

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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
		B)	Light Fittings complete with LED Driver,wiring accessories, etc			
		i)	40W LED surface mount light	no.		\$ -
		ii)	40W LED surface mount light (External)	no.		\$ -
		iii)	25W Bollard Light (External)	no.		\$ -
		iv)	10W LED Linear Light	no.		\$ -
		v)	20W LED Linear Light	no.		\$ -
		vi)	15W LED Recessed Downlight	no.		\$ -
		vii)	35W LED Surface Downlight	no.		\$ -
		viii)	38W LED Panel Light	no.		\$ -
		C)	Motion Sensor Control Supply, installation, testing and commissioning of recessed/surface mounted motion sensor control, complete with by-pass switch control, wiring accessories, etc.		no.	\$ -
		D)	Photo-cell Sensor Control Supply, installation, testing and commissioning of recessed/surface mounted photo-cell sensor control, complete with by-pass switch control, wiring accessories, sensor pre-set control, etc.		no.	\$ -

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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
10	Fans					
	10.1	Ceiling Mounted fans				
		A) Ceiling / Oscillating Fan				
		i) Supply and installation of ceiling fan c/w suspension rod, fixing, termination and all necessary accessories (excluding wiring)	no.			\$ -
		ii) Supply and installation of fan speed regulator (excluding wiring)	no.			\$ -
		iii) Supply and installation of oscillating fan c/w fittings, terminations and all necessary accessories (excluding wiring)	no.			\$ -
		iv) Wiring for fan and speed regulator using 2x2.5mm ² /1C PVC cables in surface / concealed GI conduit / trunking	no.			\$ -
	10.2	Wall Mounted fans				
		A) Oscillating Fan				
		i) Supply and installation of oscillating fan c/w fittings, terminations and all necessary accessories (excluding wiring)	no.			\$ -
		ii) Wiring for fan and speed regulator using 2x2.5mm ² /1C PVC cables in surface / concealed GI conduit / trunking	no.			\$ -

Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
11	Telephone Cabling System					
	11.1	Telecommunication cables including cable trays, conduits, trunking c/w brackets and accessories.				
		Cat 6				
		i) 2-core	m			\$ -
		ii) 4-core	m			\$ -
		iii) 8-core	m			\$ -
		iv) 12-core	m			\$ -
		v) 16-core	m			\$ -
		vi) 24-core	m			\$ -
		Micro Singlemode Fibre Optics				
		i) 2-core	m			\$ -
		ii) 4-core	m			\$ -
		iii) 8-core	m			\$ -
		iv) 12-core	m			\$ -
		v) 16-core	m			\$ -
		vi) 24-core	m			\$ -
		Micro Multimode Fibre Optics				
		i) 2-core	m			\$ -
		ii) 4-core	m			\$ -
		iii) 8-core	m			\$ -
		iv) 12-core	m			\$ -
		v) 16-core	m			\$ -
		vi) 24-core	m			\$ -

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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
	11.2	Faceplate and accessories				
	A)	Data Socket				
		Plastic				
		i)	Socket (Single)	no.		\$ -
		ii)	Socket (Twin)	no.		\$ -
		Metalclad				
		i)	Socket (Single)	no.		\$ -
		ii)	Socket (Twin)	no.		\$ -
	B)	Telephone Socket				
		Plastic				
		i)	Telephone socket (Single)	no.		\$ -
		ii)	Telephone socket (Twin)	no.		\$ -
		Metalclad				
		i)	Telephone socket (Single)	no.		\$ -
		ii)	Telephone socket (Twin)	no.		\$ -
	11.3	Equipment such as DP and accessories				
	A)	Distribution Panel (DP)				
		i)	6-pairs	no.		\$ -
		ii)	12-pairs	no.		\$ -
		iii)	20-pairs	no.		\$ -
	11.4	Patch panels and accessories				
	A)	Patch Panel				
		i)	16 port	no.		\$ -
		ii)	24 port	no.		\$ -
		iii)	48 port	no.		\$ -

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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
12	Security System					
	12.1	CCTV System				
		A) Application softwares complete with servers, workstations, firewall softwares and accessories				
		i) Servers	no.			\$ -
		ii) Storage (TB)	no.			\$ -
		iv) Software/licences/firewall and accessories	no.			\$ -
		v) Workstations and associated hardware	no.			\$ -
		vi) 21" LED monitor	no.			\$ -
		B) Camera Brackets/Poles/Accessories				
		i) External	no.			\$ -
		ii) Internal	no.			\$ -
		C) CCTV Camera with associated lens and housing				
		i) General Surveillance HD Fixed Indoor type	no.			\$ -
		ii) General Surveillance HD Fixed Outdoor type	no.			\$ -
		D) Cat 6A F/UTP patch cord inclusive of accessories for IP devices connection	no.			\$ -

Item	Description	Rate S\$			Total
		Unit	Material	Labour/ Overheads/ Profits	
13	Public Address System				
13.1	System equipment including equipment paging console, rack, amplifier, tuner, CD player, fault monitoring panel, UPS and all necessary hardware and software				
	A) PA Controller System Fault Monitoring Panel				
	i) Radio FM/AM Tuner	no.			\$ -
	ii) BGM Player and Recorder	no.			\$ -
	iii) Pre-recorder Message Player	no.			\$ -
	iv) Emergency Voice Logging Machine	no.			\$ -
	v) Compact Disc Rack	no.			\$ -
	vi) P A Equipment Rack	no.			\$ -
	vii) 50 W Power Amplifier	no.			\$ -
	viii) 100 W Power Amplifier	no.			\$ -
	ix) 200 W Power Amplifier	no.			\$ -
	x) 350 W Power Amplifier	no.			\$ -
	xi) 400 W Power Amplifier	no.			\$ -
	xii) Volume control switch inclusive cable supporting system, associated accessories, terminations, etc.	no.			\$ -
	xiii) Interface box for local reinforcement system inclusive cable supporting system, associated accessories, terminations, etc.	no.			\$ -
	xiv) Microphone Receptacle Outlet	no.			\$ -
	xv) Mixer (no. of channels:)	no.			\$ -

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Item	Description			Rate S\$			Total
				Unit	Material	Labour/ Overheads/ Profits	
	13.2	Indoor and outdoor speakers including all necessary housing, mounting bracket, etc.					
		i)	Ceiling Mounted Speaker	no.			\$ -
		ii)	Box Speaker	no.			\$ -
		iii)	Horn Speaker	no.			\$ -
	13.3	Power, data and control cabling systems					
		A)	Speaker point inclusive cable supporting system, associated accessories, terminations, etc.				
		i)	PVC insulated signal cable	no.			\$ -
		ii)	FR signal cable	no.			\$ -
14	PWD Intercom System						
	14.1	Remote PWD intercom Complete with Controls Wiring in Conduit/Trunkings and All Necessary Accessories		no.			\$ -
	14.2	Master PWD intercom panel complete with standby battery and charger, LED status and handsets, etc including controls wiring in conduit/trunkings and all necessary accessories		no.			\$ -
	14.3	Interfacing to Public Address System (PA)		no.			\$ -

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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
15	Lightning Protection System					
	15.1	Roof conductors and air terminals including accessories				
		i) 25 x 3 mm thk hard-drawn copper tape inclusive fixing accessories	m			\$ -
		ii) 25 x 3 mm thk hard-drawn copper tape concealed inclusive fixing accessories	m			\$ -
		iii) 25 x 3 mm thk hard-drawn aluminium tape inclusive fixing accessories	m			\$ -
		iv) 25 x 3 mm thk hard-drawn aluminium tape concealed inclusive fixing accessories	m			\$ -
		v) ø8 mm bare solid copper conductor for air finial	no.			\$ -
		vi) Exothermic welded jointing of earth point to re-bar	no.			\$ -
		vii) 1-core green / yellow PVC insulated copper conductor cable inclusive jointing, fixing, connections, labelling, etc.				
		a) 70 mm ² / 1-core	m			\$ -
		b) 95 mm ² / 1-core	m			\$ -
		c) 120 mm ² / 1-core	m			\$ -
		viii) Bi-metallic connectors	m			\$ -

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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
15.2	Equipotential bonding to outdoor / external metallic parts					
	i)	25 x 3 mm thk hard-drawn copper tape inclusive fixing accessories	m			\$ -
	ii)	25 x 3 mm thk hard-drawn copper tape concealed inclusive fixing accessories	m			\$ -
	iii)	25 x 3 mm thk hard-drawn aluminium tape inclusive fixing accessories	m			\$ -
	iv)	25 x 3 mm thk hard-drawn aluminium tape concealed inclusive fixing accessories	m			\$ -
	v)	ø8 mm bare solid copper conductor for air finial	m			\$ -
	vi)	Exothermic welded jointing of earth point to re-bar	m			\$ -
	vii)	1-core green / yellow PVC insulated copper conductor cable inclusive jointing, fixing, connections, labelling, etc.				
	a)	70 mm ² / 1-core	m			\$ -
	b)	95 mm ² / 1-core	m			\$ -
	c)	120 mm ² / 1-core	m			\$ -
	viii)	Bi-metallic connectors	m			\$ -
16	Standby Generator System					
16.1	Outdoor type diesel generator inclusive sound proof & weatherproof enclosure, control panel and associated accessories:					
	i)	25 kVA	no.			\$ -
	ii)	30 kVA	no.			\$ -
	iii)	40kVA	no.			\$ -
	iv)	50kVA	no.			\$ -

11.6 Lift Works

Item	Description	Rate S\$			Total
		Unit	Material	Labour/ Overheads/ Profits	
1	Passenger Lift				
1.1	Passenger lift Complete with traction machine, lift car and hoist way equipment, control panels, UPS, landing doors, hall fixtures, wiring etc as per fixtures, wiring etc per requirements of technical specification and drawings				
1.1.1	Traction Machine (please specify)				
	i)	no			\$ -
	ii)	no			\$ -
	iii)	no			\$ -
1.1.2	Lift Car				
	A) Lift Car Kick Plate / Skirting				
	i) Stainless steel (non-directional)	per lift			\$ -
	B) Car Door				
	i) Stainless steel (non-directional)	per lift			\$ -
	ii) Stainless steel hairline (directional)	per lift			\$ -
	iii) Stainless steel mirror/polished	per lift			\$ -
	iv) Stainless steel etched	per lift			\$ -
	v) Spray painted	per lift			\$ -
	vi) Epoxy powder- coated	per lift			\$ -
	vii) Laminated glass with frame	per lift			\$ -
	viii) Laminated glass without frame	per lift			\$ -
	C) Lift Car Front-Return Panel				
	i) Stainless steel (non-directional)	per lift			\$ -
	ii) Stainless steel hairline (directional)	per lift			\$ -
	iii) Stainless steel mirror/polished	per lift			\$ -
	iv) Stainless steel etched	per lift			\$ -
	v) Spray painted	per lift			\$ -
	vi) Epoxy powder- coated	per lift			\$ -

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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
		D)	Lift Car Walls			
		i)	Stainless steel (non-directional)	per lift		\$ -
		ii)	Stainless steel hairline (directional)	per lift		\$ -
		iii)	Stainless steel mirror/polished	per lift		\$ -
		iv)	Stainless steel etched	per lift		\$ -
		v)	Spray painted	per lift		\$ -
		vi)	Epoxy powder- coated	per lift		\$ -
		vii)	Laminated glass with frame	per lift		\$ -
		viii)	Laminated glass without frame	per lift		\$ -
		E)	Handrail (3-sides)			
		i)	Stainless steel (non-directional)	per lift		\$ -
		ii)	Stainless steel hairline (directional)	per lift		\$ -
		F)	Car Floor			
		i)	Heavy duty vinyl tile	per lift		\$ -
		ii)	Checkered steel plate	per lift		\$ -
		iii)	Checkered steel plate with enamel finishes	per lift		\$ -
		iv)	Marble	per lift		\$ -
		v)	Granite	per lift		\$ -
		vi)	Ceramic Tile	per lift		\$ -
		vii)	Rubber studded tile	per lift		\$ -

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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
			G)	Car Ceiling		
			i)	Perforated metal (steel)	per lift	\$ -
			ii)	Painted sheet steel	per lift	\$ -
			iii)	Patterned acrylic plate with aluminium frame	per lift	\$ -
			iv)	Half-mirror acrylic plate with aluminium frame	per lift	\$ -
			v)	Aluminium louver with aluminium frame	per lift	\$ -
			vi)	Silk screen finishes on transparent acrylic with aluminium frame	per lift	\$ -
			vii)	Stainless steel mirror	per lift	\$ -
			viii)	Stainless steel hairline	per lift	\$ -
			H)	Car Call Button		
			i)	Micro-touch button	no	\$ -
			ii)	Vandal-proof micro-touch button	no	\$ -
			iii)	Stainless steel micro-touch button	no	\$ -
			iv)	Tactile braille plate	no	\$ -
			v)	By-pass / floor lock out key switch	no	\$ -
			I)	Car Operating Panel Face Plate		
			i)	Stainless steel (non-directional)	per lift	\$ -
			ii)	Stainless steel hairline (directional)	per lift	\$ -
			iii)	Stainless steel mirror/polished	per lift	\$ -
			iv)	Stainless steel etched	per lift	\$ -
			v)	Spray painted	per lift	\$ -
			vi)	Epoxy powder- coated	per lift	\$ -
			J)	Car Operating Panel for Handicap (horizontal)	no	\$ -
			K)	Car Operating Panel complete with car call button and face plate	no	\$ -
			L)	Keypad Operating Panel	no	\$ -
			M)	Car Position Indicator and Travel Directional Arrow	no	\$ -
			N)	Car Arrival Chime	no	\$ -

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Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
	1.1.3	Lift Landing				
		A) Landing Door				
		i) Stainless steel (non-directional)	per landing			\$ -
		ii) Stainless steel hairline (directional)	per landing			\$ -
		iii) Stainless steel mirror/polished	per landing			\$ -
		iv) Stainless steel etched	per landing			\$ -
		v) Spray painted	per landing			\$ -
		vi) Epoxy powder- coated	per landing			\$ -
		vii) Full height fire-rated laminated glass door with	per landing			\$ -
		viii) Full height fire-rated laminated glass door without	per landing			\$ -
		ix) Full height non fire-rated laminated glass door with	per landing			\$ -
		x) Full height non fire-rated laminated glass door with	per landing			\$ -
		B) Landing Door Frame				
		a) 2' x 2' narrow jamb				
		i) Stainless steel (non-directional)	per landing			\$ -
		ii) Stainless steel hairline (directional)	per landing			\$ -
		iii) Stainless steel mirror/polished	per landing			\$ -
		iv) Stainless steel etched	per landing			\$ -
		v) Epoxy powder- coated	per landing			\$ -
		b) Full wall jamb				
		i) Stainless steel (non-directional)	per landing			\$ -
		ii) Stainless steel hairline (directional)	per landing			\$ -
		iii) Stainless steel mirror/polished	per landing			\$ -
		iv) Stainless steel etched	per landing			\$ -
		v) Spray painted	per landing			\$ -
		vi) Epoxy powder- coated	per landing			\$ -

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

Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
		C)	Landing Transom Panel			
		i)	Stainless steel (non-directional)	per landing		\$ -
		ii)	Stainless steel hairline (directional)	per landing		\$ -
		iii)	Stainless steel mirror/polished	per landing		\$ -
		iv)	Stainless steel etched	per landing		\$ -
		v)	Spray painted	per landing		\$ -
		vi)	Epoxy powder- coated	per landing		\$ -
		D)	Hall Call Button			
		i)	Micro-touch button	per landing		\$ -
		ii)	Vandal-proof micro-touch button	per landing		\$ -
		iii)	Stainless steel micro-touch button	per landing		\$ -
		iv)	Tactile braille plate	per landing		\$ -
		E)	Hall Call Button Faceplate	per landing		\$ -
		F)	Hall Position Indicator Button Faceplate			
		i)	Stainless steel (non-directional)	per landing		\$ -
		ii)	Stainless steel hairline (directional)	per landing		\$ -
		iii)	Stainless steel mirror/polished	per landing		\$ -
		iv)	Stainless steel etched	per landing		\$ -
		v)	Spray painted	per landing		\$ -
		vi)	Epoxy powder- coated	per landing		\$ -
		G)	Illuminated Hall Lantern	per landing		\$ -

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WITHIN EXISTING SCHOOL COMPLEX OF SINGAPORE KOREAN INTERNATIONAL SCHOOL ON LOT 01950V MK15 AT 71 BUKIT
TINGGI ROAD

Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
		H)	Illuminated Hall Lantern Face Plate			
			i)	Stainless steel (non-directional)	per landing	\$ -
			ii)	Stainless steel hairline (directional)	per landing	\$ -
			iii)	Stainless steel mirror/polished	per landing	\$ -
			iv)	Stainless steel etched	per landing	\$ -
			v)	Spray painted	per landing	\$ -
			vi)	Epoxy powder- coated	per landing	\$ -
		I)	Hall Landing Arrival Chime		per landing	\$ -
		1.1.4	Hoist way equipment			
		A)	Guard rail (please specify)			
			i)		m	\$ -
			ii)		m	\$ -
			iii)		m	\$ -
		1.2	Lift finishes as per specification			
		A)	Wall finishes		per lift	\$ -
		B)	Floor finishes		per lift	\$ -
		C)	Ceiling finishes including light fittings complete with cabling, cable support system and necessary accessories		per lift	\$ -
		1.3	Interfacing works with other services and systems including all necessary accessories as required		item	\$ -
		1.4	Lighting and switch socket outlet as specified for lift shaft and lift pit			
		1.4.1	Supply and installation of lighting point complete with light fixture, switch, wiring, cable support system and accessories		no	\$ -
		1.4.2	Supply and installation of switched fused connection unit complete with wiring, cable support system and accessories		no	\$ -
		1.4.3	Supply and installation of 13A switched socket outlet complete with wiring, cable support system and accessories		no	\$ -

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TINGGI ROAD

Item	Description	Rate S\$			Total
		Unit	Material	Labour/ Overheads/ Profits	
1.5	Cabling works for power distribution system including all necessary cable trays, trunkings, GI conduits, flexible conduits as required				
	1.5.1 Control panel (please specify)				
	i)	m			\$ -
	ii)	m			\$ -
	iii)	m			\$ -
	1.5.2 Supply and installation of fireproof cables (SS299 CWZ rating) in trunking (exclude trunking) with cable tie, termination etc				
	i) 1.5 mm2	m			\$ -
	ii) 2.5 mm2	m			\$ -
	1.5.3 Conduits				
	A) G.I. conduits, surface mounted inclusive of conduit boxes, saddles, joints and accessories				
	i) 20mm dia	m			\$ -
	ii) 25mm dia	m			\$ -
	iii) 32mm dia	m			\$ -
	iv) 38mm dia	m			\$ -
	B) Flexible conduits, PVC sheathed, inclusive of adaptors, couplars and other accessories				
	i) 20mm dia	m			\$ -
	ii) 25mm dia	m			\$ -
	iii) 32mm dia	m			\$ -
	1.5.4 Trunking complete with elbow, tee, cross joint, cover plate, earth link etc				
	i) 50mm x 50mm	m			\$ -
	ii) 75mm x 50mm	m			\$ -
	iii) 100mm x 50mm	m			\$ -
	iv) 150mm x 50mm	m			\$ -
	v) 200mm x 50mm	m			\$ -
	vi) 200mm x 100mm	m			\$ -

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TINGGI ROAD

Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
	1.5.5	Cable trays inclusive of all mounting bracket and accessories etc				
	i)	50mm	m			\$ -
	ii)	75mm	m			\$ -
	iii)	100mm	m			\$ -
	iv)	150mm	m			\$ -
	1.6	Communication travelling control cable include all necessary accessories as required for CCTV, AV, Access Control Reader, PA and TV				
	1.6.1	Control cable				
	i)	Intercom control cable - 5 pairs	m			\$ -
	ii)	Intercom control cable - 10 pairs	m			\$ -
	iii)	Intercom control cable - 25 pairs	m			\$ -
	iv)	DC control cable - 10 core	m			\$ -
	v)	DC control cable - 20 core	m			\$ -
	vi)	DC control cable - 50 core	m			\$ -
	vii)	DC control cable - 100 core	m			\$ -
	viii)	Signal control cable - 2 pairs	m			\$ -
	ix)	Signal control cable - 5 pairs	m			\$ -
	x)	Signal control cable - 10 pairs	m			\$ -
	1.6.2	Co-axial cable				
	i)	RG 6	m			\$ -
	ii)	RG 11	m			\$ -
	iii)	RG 59	m			\$ -
	1.6.3	Cat 6 (STP)				

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TINGGI ROAD

Item	Description		Rate S\$			Total
			Unit	Material	Labour/ Overheads/ Profits	
	1.7	Canvas padding protection necessary for lift car interior complete with hooks after completion	item			\$ -
	1.8	Optional items				
	A)	Associated builder's works				
		i) trimmer beams	no			\$ -
		ii) separator beams	no			\$ -
		iii) brackets	no			\$ -
		iv) hoisting hooks	no			\$ -
		v) cast-in plates (supply only) for CD shelter wall where necessary	no			\$ -
		vi) catladder	no			\$ -
	B)	Automatic Rescue Device (ARD)				\$ -
	1.9	Any other works or equipment not covered by the above items but are required in the specification and drawings to complete the works as whole (If not stated and allowed herein shall be deemed to be included in the breakdown items)	item			
		i)				\$ -
		ii)				\$ -
		iii)				\$ -
2	Lift Supervisory System					
	2.1	Lift supervisory panel (mimic panel) complete with wiring, indication lights, key switches and necessary accessories	item			\$ -
	2.2	Lift intercom system complete with wiring, master intercom console, slave intercom handset etc	item			\$ -
	2.3	Cabling work from lift motor rooms to main lift supervisory panel and repeater panel complete with cable support system, excavation, MCT, etc.	item			\$ -
3	Testing and Commissioning					
	3.1	Passenger lift	item			\$ -
	3.2	Lift supervisory system	item			\$ -