

MAKLUMAT SPESIFIKASI KERJA (SKOP TERPERINCI)

Tajuk Projek : CADANGAN MENAIKTARAF BILIK-BILIK TANDAS DI ARAS 2, 3 DAN 4 SERTA KERJA-KERJA LAIN YANG BERKAITAN DI BANGUNAN AKADEMIK 2, KOMPLEKS AL-FARABI, ARSHAD AYUB GRADUATE BUSINESS SCHOOL (AAGBS), UiTM SHAH ALAM

Keterangan : 5.1 - Kerja-Kerja Elektrikal

BIL	KETERANGAN	UNIT	HARGA (RM)
	ELECTRICAL NOTE :		
	All electrical installation, fittings, cables, protection devices, wiring accessories, LV Board and others should comply with Electrical Material Approval List (EMAL) & Electrical Specification Standard (LS-1), (LS-2), (LS-3), (LS-4), (LS-5) by JKR.		
	Quantity stated in the BQ is an approximate only and for the purpose pricing document. Contractor must ensure that all Work completed and the fully function on site according to satisfaction of S.O as per drawing and/or specification given.		
	If there is any equipment and installation as it considers necessary for proper functionality of the entire system but not specified in the bill of quantity, the contractor is obliged to ensure that all equipment and installations are properly installed in accordance with JKR standard and UiTM Electrical Engineer approval and all costs must be borne by the contractor.		
	Contractor's to submit non returnable samples of all fittings to UiTM for comment and approvals		
1	Existing items		
1.1	To isolate and dismantle the existing following items:- i) Distribution Board (DB's) and all outgoing cables (if any) ii) M.S Trunking, G.I Conduit and all accessories (if any) iii) Electrical fitting's (if any)		
	A. Tandas Awam dan OKU (Aras 2)	LS	
	B. Staf Pantri (Aras 2)	LS	
	C. Tandas Staf Lelaki (Aras 3)	LS	
	D. Tandas Staf Wanita (Aras 4)	LS	
1.2	Contractor shall ensure all modification and making good on existing floors, walls and ceilings that are affected to complete electrical works.	LS	
A	TANDAS AWAM DAN OKU (ARAS 2)		
2	Light fittings, Switch Outlets and Final Sub-Circuit Wiring		
	To supply and install the following Sub-circuit wiring if any for lighting, switch socket outlets, switches, MCB, timer (if any) etc. complete with tag no, accessories as per Specification and/or Drawing subject to UiTM Electrical Engineer Approval		
2.1	To wire up lighting point using 2 x 1C 1.5mm ² PVC Cu. Cable in Hot Dipped Galvanised Trunking/G.I conduit concealed mounted complete with earth wire, switches, dimmer, timer, ceiling rose etc and necessary accessories	LS	
2.2	To wire up all 1 x 13A switch socket outlets using 2 x 1C 2.5mm ² PVC Cu. Cable in, Hot Dipped Galvanised Trunking/G.I conduit surface/concealed in wall complete with metalclad/flush boxes, earth wire, switches, and necessary accessories	LS	

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Keterangan : 5.1 - Kerja-Kerja Elektrikal

BIL	KETERANGAN	UNIT	HARGA (RM)
2.3	To wire up exhaust ventilation fan point 2 x 1C 1.5mm ² PVC Cu. Cable in Hot Dipped Galvanised Trunking/G.I conduit concealed mounted complete with earth wire, switches, dimmer, timer, ceiling rose etc and necessary accessories	LS	
3	Light fittings, Switch Outlets and Final Sub-Circuit Wiring		
	To supply and install each of the following types of electrical fittings complete with tubes, bulb, brackets (if any) and all other necessary accessories as per Specification and/or Drawings subject to UiTM Electrical Engineer Approval		
3.1	2 X 18W T8 LED Diffused Batten Light Fitting c/w frosted diffuser, tube and housing made from good quality mild steel sheet of minimum thickness 0.50mm. The electronic ballast (non dimmable) and lamp shall have minimum 3 years and 2 years warranty from manufacturer	LS	
3.2	2 X 8.5W T8 LED Diffused Batten Light Fitting c/w frosted diffuser, tube and housing made from good quality mild steel sheet of minimum thickness 0.50mm. The electronic ballast (non dimmable) and lamp shall have minimum 3 years and 2 years warranty from manufacturer	LS	
3.3	1 X 9W Surface Mounted Retrofit LED Bulb c/w frosted diffuser, bulb and housing made from good quality mild steel sheet of minimum thickness 0.50mm.(non dimmable) and bulb shall have minimum 3 years and 2 years warranty from manufacturer	LS	
3.4	Steel Type 2 Speed Motor Ceiling Mounted Exhaust Vantilation Fan consist of 194CFM, 480RPM~570RPM, 28W, 34dB, 240V/50Hz c/w reverse flow prevention shutter, thermal safety fuse, blade and housing made from good quality material.	LS	
B	STAF PANTRI (ARAS 2)		
2	Light fittings, Switch Outlets and Final Sub-Circuit Wiring		
	To supply and install the following Sub-circuit wiring if any for lighting, switch socket outlets, switches, MCB, timer (if any) etc. complete with tag no, accessories as per Specification and/or Drawing subject to UiTM Electrical Engineer Approval		
2.1	To wire up lighting point using 2 x 1C 1.5mm ² PVC Cu. Cable in Hot Dipped Galvanised Trunking/G.I conduit concealed mounted complete with earth wire, switches, dimmer, timer, ceiling rose etc and necessary accessories	LS	
2.2	To wire up lighting point using 2 x 1C 1.5mm ² PVC Cu. Cable in Hot Dipped Galvanised Trunking/G.I conduit concealed mounted complete with earth wire, switches, dimmer, timer, ceiling rose etc and necessary accessories (LED Strip Light)	LS	
2.3	To wire up lighting point using 2 x 1C 1.5mm ² PVC Cu. Cable in Hot Dipped Galvanised Trunking/G.I conduit concealed mounted complete with earth wire, switches, dimmer, timer, ceiling rose etc and necessary accessories (Pandent Light)	LS	

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Keterangan : 5.1 - Kerja-Kerja Elektrikal

BIL	KETERANGAN	UNIT	HARGA (RM)
2.4	To wire up all 1 x 13A switch socket outlets using 2 x 1C 2.5mm ² PVC Cu. Cable in, Hot Dipped Galvanised Trunking/G.I conduit surface/concealed in wall complete with metalclad/flush boxes, earth wire, switches, and necessary accessories	LS	
2.5	To wire up all 2 x 13A switch socket outlets using 2 x 1C 2.5mm ² PVC Cu. Cable in, Hot Dipped Galvanised Trunking/G.I conduit surface/concealed in wall complete with metalclad/flush boxes, earth wire, switches, and necessary accessories	LS	
3	Light fittings, Switch Outlets and Final Sub-Circuit Wiring		
	To supply and install each of the following types of electrical fittings complete with tubes, bulb, brackets (if any) and all other necessary accessories as per Specification and/or Drawings subject to UiTM Electrical Engineer Approval		
3.1	1 X 9W Surface Mounted Retrofit LED Bulb c/w frosted diffuser, bulb and housing made from good quality mild steel sheet of minimum thickness 0.50mm.(non dimmable) and bulb shall have minimum 3 years and 2 years warranty from manufacturer	LS	
3.2	New Flexible LED Strip Light c/w Aluminium Track Holder & Cover consist of Colour temperature (K) : 2700 - 3000, Lumen (lm) : ? 450, LED Power (w) : ? 8, Beam Angle (°) : ?100, Lifetime (hours) : ? 25,000, Separate Control Gear, Necessary accessories for proper functionality	LS	
3.3	New Retrofit LED pendant light consist of a hand-blown opal glass shade in an organic, asymmetrical form, suspended by adjustable steel cables, with a soft diffused glow, available in sizes ranging from 300mm to 400mm in diameter.	LS	
C	TANDAS STAF LELAKI (ARAS 3)		
2	Light fittings, Switch Outlets and Final Sub-Circuit Wiring		
	To supply and install the following Sub-circuit wiring if any for lighting, switch socket outlets, switches, MCB, timer (if any) etc. complete with tag no, accessories as per Specification and/or Drawing subject to UiTM Electrical Engineer Approval		
2.1	To wire up lighting point using 2 x 1C 1.5mm ² PVC Cu. Cable in Hot Dipped Galvanised Trunking/G.I conduit concealed mounted complete with earth wire, switches, dimmer, timer, ceiling rose etc and necessary accessories	LS	
2.2	To wire up all 1 x 13A switch socket outlets using 2 x 1C 2.5mm ² PVC Cu. Cable in, Hot Dipped Galvanised Trunking/G.I conduit surface/concealed in wall complete with metalclad/flush boxes, earth wire, switches, and necessary accessories	LS	
2.3	To wire up exhaust ventilation fan point 2 x 1C 1.5mm ² PVC Cu. Cable in Hot Dipped Galvanised Trunking/G.I conduit concealed mounted complete with earth wire, switches, dimmer, timer, ceiling rose etc and necessary accessories	LS	
3	Light fittings, Switch Outlets and Final Sub-Circuit Wiring		

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Keterangan : 5.1 - Kerja-Kerja Elektrikal

BIL	KETERANGAN	UNIT	HARGA (RM)
	To supply and install each of the following types of electrical fittings complete with tubes, bulb, brackets (if any) and all other necessary accessories as per Specification and/or Drawings subject to UiTM Electrical Engineer Approval		
3.1	2 X 8.5W T8 LED Diffused Batten Light Fitting c/w frosted diffuser, tube and housing made from good quality mild steel sheet of minimum thickness 0.50mm. The electronic ballast (non dimmable) and lamp shall have minimum 3 years and 2 years warranty from manufacturer	LS	
3.2	1 X 9W Surface Mounted Retrofit LED Bulb c/w frosted diffuser, bulb and housing made from good quality mild steel sheet of minimum thickness 0.50mm.(non dimmable) and bulb shall have minimum 3 years and 2 years warranty from manufacturer	LS	
3.3	12" Wall Mounted Exhaust Ventilation Fan consist of 727CFM, 925RPM~1085RPM, 31.8W~38.8W, 45dB, 240V/50Hz c/w shutter, thermal safety fuse, q-blade and housing made from good quality material.	LS	
D	TANDAS STAF WANITA (ARAS 4)		
2	Light fittings, Switch Outlets and Final Sub-Circuit Wiring		
	To supply and install the following Sub-circuit wiring if any for lighting, switch socket outlets, switches, MCB, timer (if any) etc. complete with tag no, accessories as per Specification and/or Drawing subject to UiTM Electrical Engineer Approval		
2.1	To wire up lighting point using 2 x 1C 1.5mm ² PVC Cu. Cable in Hot Dipped Galvanised Trunking/G.I conduit concealed mounted complete with earth wire, switches, dimmer, timer, ceiling rose etc and necessary accessories	LS	
2.2	To wire up all 1 x 13A switch socket outlets using 2 x 1C 2.5mm ² PVC Cu. Cable in, Hot Dipped Galvanised Trunking/G.I conduit surface/concealed in wall complete with metalclad/flush boxes, earth wire, switches, and necessary accessories	LS	
2.3	To wire up exhaust ventilation fan point 2 x 1C 1.5mm ² PVC Cu. Cable in Hot Dipped Galvanised Trunking/G.I conduit concealed mounted complete with earth wire, switches, dimmer, timer, ceiling rose etc and necessary accessories	LS	
3	Light fittings, Switch Outlets and Final Sub-Circuit Wiring		
	To supply and install each of the following types of electrical fittings complete with tubes, bulb, brackets (if any) and all other necessary accessories as per Specification and/or Drawings subject to UiTM Electrical Engineer Approval		
3.1	2 X 8.5W T8 LED Diffused Batten Light Fitting c/w frosted diffuser, tube and housing made from good quality mild steel sheet of minimum thickness 0.50mm. The electronic ballast (non dimmable) and lamp shall have minimum 3 years and 2 years warranty from manufacturer	LS	

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Keterangan : 5.1 - Kerja-Kerja Elektrikal

BIL	KETERANGAN	UNIT	HARGA (RM)
3.2	1 X 9W Surface Mounted Retrofit LED Bulb c/w frosted diffuser, bulb and housing made from good quality mild steel sheet of minimum thickness 0.50mm.(non dimmable) and bulb shall have minimum 3 years and 2 years warranty from manufacturer	LS	
3.3	12" Wall Mounted Exhaust Vantilation Fan consist of 727CFM, 925RPM~1085RPM, 31.8W~38.8W, 45dB, 240V/50Hz c/w shutter, thermal safety fuse, q-blade and housing made from good quality material.	LS	
4	OTHERS		
4.1	Testing and commissioning all new installation for electrical part.	LS	
4.2	As Built Drawing layout schematic & single line diagram (c/w softcopy in AutoCAD)	LS	
JUMLAH (RM)			