

MAKLUMAT SPESIFIKASI KERJA (SKOP TERPERINCI)

Tajuk Projek : Cadangan Naiktaraf Dewan Kuliah 1 Dan Dewan Kuliah 2 Serta 3 Unit Ruang Parkir Berbumbung DI MASMED, UiTM Shah Alam, Selangor Darul Ehsan.

Keterangan : 3.1 - 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.		
A	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)	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	
B	INTERNAL LOW TENSION ELECTRICAL INSTALLATIONS		
	Sub-Switchboard (SSB), Lighting/Power Distribution Board (DB)		
2.1	Electrical Board		
	To supply, install, testing and commissioning of the followings Electrical boards complete with cable termination, Labelling/Schematic/Number for all wirings and all other necessary accessories, contactor, MCB, MCCB, RCCB & timer (if any) and associated works as per Specification and/or Tender Drawings		
2.1.1	To supply and install new 100A TPN MCCB Tap-off Unit (Metal Enclosure) complete with tinned copper busbar to accommodate multiple outgoing power source, complete with internal wiring and necessary accessories.	LS	
2.1.2	40A SPN Wall Mounted Distribution Board Power (Dewan Kuliah 2) c/w:- 1. Internal wiring 2. Residual Current Circuit Breaker (RCCB) 3. Miniature Circuit Breaker (MCB)	LS	
2.1.3	40A SPN Wall Mounted Distribution Board Power (Dewan Kuliah 3) c/w:- 1. Internal wiring 2. Residual Current Circuit Breaker (RCCB) 3. Miniature Circuit Breaker (MCB)	LS	
2.2	Main Cabling and Sub Main Cabling		

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BIL	KETERANGAN	UNIT	HARGA (RM)
	To supply, lay and install the following power cable complete with continuous protection conductor, cable lug and gland, cable bracket and support, cable trunking, riser, tray, conduit inclusive of earth wire and termination at both end and all other necessary accessories as per Specification and/or Drawings (The actual cable length must be measured on site by the Contractor)		
2.2.1	From New Tap-off unit 100A TPN MCCB using 2 x 1C x 10 mm ² PVC Cu. + 1 x 1C x 10 mm ² PVC Cu. E.C.C laid in Hot Dipped Galvanized Trunking complete with necessary accessories to :		
	a. New 40A SPN DB Power (Dewan Kuliah 2)	LS	
	b. New 40A SPN DB Power (Dewan Kuliah 3)	LS	
2.3	Light fittings, Switch Outlets and Final Sub-Circuit Wiring		
	To supply and install the following Sub-circuit wiring for lighting, switch socket outlets etc. complete with tag no., accessories as per Specification and/or Drawings		
2.3.1	To wire up lighting points using 2 x 1.5mm ² PVC Cu. Cable in Hot Dipped Galvanized Trunking/G.I. conduit complete with earth wire, back box, switches and necessary accessories.	LS	
2.3.2	To wire-up all 1 x 13A switch socket outlets using 2 x 2.5mm ² PVC Cu. cable in Hot Dipped Galvanized Trunking/ G.I conduit complete with earth wires, back box, socket and necessary accessories.(Ring & radial circuit)	LS	
2.3.3	To wire-up all self contained emergency lighting point using 2 x 1.5mm ² PVC Cu. cable in Hot Dipped Galvanized Trunking/ G.I conduit complete with earth wire, and all other necessary accessories.	LS	
2.3.4	To wire-up all self contained KELUAR Sign light point using 2 x 1.5mm ² PVC Cu. cable in Hot Dipped Galvanized Trunking/ G.I conduit complete with earth wire, and all other necessary accessories.	LS	
	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	LS	
2.3.5	New 12V LED surface type self-contained Emergency Light c/w rechargeable battery operation of minimum 3 hours.(Approved by BOMBA)	LS	
2.3.6	New Slim line design 'KELUAR' sign c/w Super Bright LED and rechargeable battery operation of minimum 3 hours.(Approved by BOMBA)	LS	
C	OTHERS		
1	All xlr wall panel, vga wall panel and all audio visual cable will be re-install on site, any modification and making good will be done to complete the works.	LS	
2	Testing and commissioning all new installation for electrical part.	LS	

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BIL	KETERANGAN	UNIT	HARGA (RM)
3	As Built Drawing layout schematic & single line diagram (c/w softcopy in AutoCAD)	LS	
JUMLAH (RM)			