

**JADUAL TAWARAN HARGA &
PEMATUHAN SKOP KERJA
DAN SPESIFIKASI TEKNIKAL**

JADUAL TAWARAN HARGA

PERKHIDMATAN PENGGANTIAN BATERI UPS UNTUK MAJLIS PERBANDARAN HULU SELANGOR

Bil	Item	Kuantiti (Unit) (a)	Kos Seunit Sebulan (RM) (b)	Jumlah Kos Sebulan (RM) (a x b) = c	Jumlah Kos Setahun (RM) (c x 12) = d
1.	External battery cabinet for LiebertITA2,2U	12 unit			
2.	Vertiv VE Rack, Model: SR-V061120SF-42Ux600Wx1100D, Front single & Rear split Mesh Door, with Side Panels, RAL7021 Black	1 unit			
3.	Labour to install Rack and Battery at site	1 LOT			
JUMLAH KESELURUHAN					
JUMLAH KESELURUHAN (TERMASUK SST 8%)					

(Tanda tangan **Penyebut harga**)

Nama Penuh : _____
 No K/P : _____
 Alamat : _____

No. Telefon : _____

(Tanda tangan **Saksi**)

Nama Penuh : _____
 No K/P : _____
 Alamat : _____

No. Telefon : _____

LAMPIRAN E – JADUAL PEMATUHAN SKOP KERJA & SPESIFIKASI TEKNIKAL

PERKHIDMATAN PENGGANTIAN BATERI UPS UNTUK MAJLIS PERBANDARAN HULU SELANGOR

Arahan : Petender **WAJIB** mengisi setiap ruangan **Keakuran** dan **Cadangan Petender** dengan menyatakan cadangan spesifikasi yang ditawarkan. Petender hanya dibenarkan menanda **satu** pilihan sahaja di ruangan **Keakuran**. Lampirkan juga sekiranya pembekal mempunyai spesifikasi lain atau lebih baik daripada spesifikasi minimum yang diberikan.

BIL	BUTIRAN-BUTIRAN	KEPERLUAN SPESIFIKASI MINIMUM	KEAKURAN		CADANGAN PETENDER
			YA	TIDAK	
		Requirements			
1		To supply, delivery and install external battery cabinet for Liebert ITA2, 2U			
		Model: ITA-BCI0020K01 battery module			
		Dimensions (W × D × H): 430mm × 650mm × 85mm			
		Weight: About 51kg			
		There shall be two battery ports and a battery output breaker on the rear panel of the battery module			
		Two installation modes are available: tower installation and rack installation.			
		The battery must be integrated back into the existing ITA2 20kVA UPS in Smart Row at site. SN: 21012 01753 21830 20021			
		The supplier must perform an onload test on the new UPS battery and provide a complete UPS battery onload test report.			
		Shall provide labour to install Battery at site			

BIL	BUTIRAN-BUTIRAN	KEPERLUAN SPESIFIKASI MINIMUM	KEAKURAN		CADANGAN PETENDER
			YA	TIDAK	
		The supplier must provide Vertiv certified Service Personnel (valid appointment letter from the principal) to carry out the work of opening, supplying, installing and testing UPS batteries at site.			
		The supplier must provide Vertiv certified Authorised Service Provider Certificate.			
		The software needs to be configured by the Vertiv Authorised Service Provider			
		The supplier shall submit the Service Report certified by Vertiv Authorised Service Provider upon completion of work.			
		Shall include 1 year support warranty			
2	PARAMETERS	Battery Type: Sealed, lead-acid, maintenance-free battery			
		Battery Capacity: 12V/9AH			
		Battery Cell No: 16			
		Rated Voltage: 192Vdc			
		ENVIROMENTAL CONDITIONS			
		Operating Temperature: 0°C ~ 50°C			
		Storage Temperature: -25°C ~ +50°C			
		Relative Humidity: 5% RH ~ 95% RH (non-condensing)			
		Altitude: 3000m, no derating			

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			YA	TIDAK	
3	INSTALLATION ENVIRONMENT	<ul style="list-style-type: none"> - Well-ventilated, avoid direct sunlight - Far away from water, heat source, flammable and explosive substances - Free of dust, volatile gas, corrosive materials and excessive salt 			
4	BATTERY RACK	To supply, delivery and install rack for battery			
		i. Brand: Vertiv			
		ii. Model: VE Rack - SR-V061120SF			
		Dimension: 42Ux600Wx1100D			
		The rack shall hold a static load of up to 1,600kg.			
		The rack shall support 75% open high perforated doors for optimal air flow.			
		The rack shall have convenient tool-less installation of cable and air flow management, fast deployment leveling feet and heavy duty caster wheels for easy movement			
		The rack shall have a minimum of IP 20 rating for protection against touch, ingress of foreign bodies.			
		The rack shall conform to EIA-310 Standard for Cabinets, Racks, Panels and Associated Equipment and accommodate industry standard 19" rack mount equipment.			
		The rack shall conform to standard below: <ul style="list-style-type: none"> • Safety Standard: EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013 • EMC Standard: EN 55032:2012 EN 5502+B94+B58 			

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			YA	TIDAK	
		<p>All parts of the rack shall be powder coated to RAL 7021 (Dark Grey) color:</p> <ul style="list-style-type: none"> • Powder coating process shall be accomplished by an Automatic spraying lines. • The powder coating process shall include anti-rust phosphorylation, pure water cleaning and electrostatic spraying. • All powder coated components shall be tested and comply to the following ASTM standard: ASTM-B117, ASTM D3363, ASTM D3359 and ASTM D522. 			
		Other parts such as top cover, side panels, and doors shall be constructed from steel.			
		The rack system shall provide 4 pieces 19" mounting rail: Steel with 2.0mm thickness.			
		The vertical mounting rails shall be easily adjustable to allow different mounting depths.			
		Distance between front mounting rail and front door : 85mm			
		The rack system shall include at least 50 sets of M6 caged nuts and screws for the mounting of equipment inside the unit.			
		The front and rear door shall open a minimum of 160 degrees to allow easy access to the interior.			
		Split rear doors are provided for increased service clearance.			
		The side panels should be able to be removed without tools using easy quarter-turn lock for fast access to cabling and equipment.			
		The rack system shall provide a minimum 75% of perforation with Meshed areas for the front door and split rear doors.			

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			YA	TIDAK	
		The rack system shall include front door lock and rear door lock that are keyed the same; three keys are included			
		The rack system shall both protect the user from mechanical hazards and generally meet the requirements for a mechanical enclosure (stability, mechanical strength, aperture sizes, etc.).			
		Shall provide labour to install Rack at site			
		Shall include 1 year support warranty			

Nota:

- 1) Sila lengkapkan dengan jelas ruangan Spesifikasi Yang Ditawarkan Oleh Penyebutharga.
- 2) Gunakan lampiran sekiranya ruangan tidak mencukupi.
- 3) Semua maklumat **WAJIB** dilengkapkan. Kegagalan Penyebut harga memberikan maklumat yang lengkap boleh menyebabkan tawaran tersebut tidak dipertimbangkan.