

MAKLUMAT SPESIFIKASI KERJA (SKOP TERPERINCI)

Tajuk Projek : PERKHIDMATAN PENYELENGGARAAN INFRASTRUKTUR SISTEM BEKALAN ELEKTRIK SERTA KERJA-KERJA BERKAITAN DI UiTM CAWANGAN PAHANG, PAHANG DARUL MAKMUR BAGI TEMPOH SATU (1) TAHUN

Keterangan : 3 - JADUAL KADAR HARGA SISTEM PENCEGAH KEBAKARAN

BIL	KETERANGAN	UNIT	HARGA (RM)
	To supply and install the following :		
A	CONVENTIONAL FIRE ALARM SYSTEM		
1	Manual Keyswitch	NOS	
2	Ampere Meter 24V/DC/5Amp	NOS	
3	Rotary Zone Selector Switch	NOS	
4	Smoke Detector c/w Base (Apollo)	NOS	
5	Alarm Bell Dia. 24VDC/150mm	NOS	
6	Recharged Wet Cell Battery Nife LCP	NOS	
7	Heat Detector c/w Base (Demco)	NOS	
8	Beacon Light c/w Stroke	NOS	
9	Buzzer 24VDC	NOS	
10	DC Volt Meter 0-30V	NOS	
11	AC Ampere meter 0-30A	NOS	
12	Manual Call Point/Breakglass	NOS	
13	Alarm Panel Push Button	NOS	
14	Supply & Fixed Charger Card - 20	NOS	
B	GAS SUPPRESSION SYSTEM (FM-200 / FE-13)		
1	Fixing Brackets	NOS	
2	Valve Assembly	NOS	
3	Burst Disc	NOS	
4	Low Pressure Switch	NOS	
5	Manual Actuator	NOS	
6	Pneumatic Actuator	NOS	
7	Electrical Actuator	NOS	
8	Flexible Discharge Hose	NOS	
9	Solenoid Adaptor	NOS	
10	Manifold Check Valve	NOS	
11	Manifold Bracket Assembly	NOS	
12	Flexible Pilot Hose	NOS	

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BIL	KETERANGAN	UNIT	HARGA (RM)
13	Male Adaptor	NOS	
14	Male Tee	NOS	
15	Male Elbow	NOS	
16	Pressure Switch	NOS	
17	Discharge Nozzle	NOS	
18	Normal/Discharged Indicator Light	NOS	
19	Battery Distil Water per Liter	NOS	
20	Alarm Panel Light Switch	NOS	
21	LED Indicator Light	NOS	
22	ISO/NOR/FAULT/ALARM Selector	NOS	
23	Supply Zone Card	NOS	
24	Supply O.S.C Card	NOS	
25	Repair Zone Card	NOS	
26	Repair Charger Card ? 3Amp	NOS	
27	Repair AC/DC Failure Card	NOS	
28	Repair Discharge Card	NOS	
29	Repair O.S.C. Card	NOS	
C	GAS SUPPRESSION SYSTEM (Co2)		
1	Solenoid Actuator (BBN)	NOS	
2	Hydraulic Discharged Hose c/w Check Valve	NOS	
3	Co2 Cylinder Head Valve	NOS	
4	Dia. 25mm Multijet Horn Discharged Nozzle	NOS	
5	Flanged Nozzle Horn	NOS	
6	Fan Type Nozzle	NOS	
7	Dia. 40mm Directional Valve	NOS	
8	45kg Co2 Cylinder	NOS	
9	Pilot Gas Cylinder	NOS	
10	Control Head c/w Solenoid & Control Head	NOS	
11	Pilot Bleed Vent	NOS	

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Keterangan : 3 - JADUAL KADAR HARGA SISTEM PENCEGAH KEBAKARAN

BIL	KETERANGAN	UNIT	HARGA (RM)
12	Dia. 20mm Multijet/Horn Discharged Nozzle	NOS	
13	Co2 Pyrocharged	NOS	
14	6? Alarm Bell (Demco)	NOS	
15	Heat Detector (Demco)	NOS	
16	Single LED Flashing Warning Light	NOS	
17	Double LED Flashing Warning Light	NOS	
18	Fire Curtain c/w Drop Weight (4.5m x 2.4m)	NOS	
19	Tripping Device c/w Solenoid for Fire Curtain	NOS	
20	Manual Release/Isolate Switch (Yellow)	NOS	
21	Manual Release Switch	NOS	
22	Aluminium Alloy-Manual Key Switch	NOS	
23	Plastic Manual Key Switch	NOS	
24	Smoke Detector (Appolo)	NOS	
D	FIRE ALARM PANEL		
1	2 Zones (Weather Proof)	NOS	
2	4 Zones (Weather Proof)	NOS	
3	6 Zones (Weather Proof)	NOS	
4	8 Zones (Weather Proof)	NOS	
5	10 Zones (Weather Proof)	NOS	
6	12 Zones (Weather Proof)	NOS	
7	Supply & Fixed Mimic Diagram (1 ? 10 Zones) + Box	SET	
E	BATTERY		
1	12V 7.2AH Maintenance Free Dry Fit Battery	NOS	
2	12V 12AH Maintenance Free Dry Fit Battery	NOS	
3	Wiring for Bell Point, Glass Breaker, Heat & Smoke Detector using 2 x 1.5mm ² PVC (meter run)		
3.1	Surface G.I conduit	METER	
3.2	Concealed G.I conduit	METER	
4	Wiring for Bell Point, Glass Breaker, Heat & Smoke Detector using 2 x 2.5mm ² PVC (meter run)		
4.1	Surface G.I conduit	METER	

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Keterangan : 3 - JADUAL KADAR HARGA SISTEM PENCEGAH KEBAKARAN

BIL	KETERANGAN	UNIT	HARGA (RM)
4.2	Concealed G.I conduit	METER	
5	Wiring for Bell Point, Glass Breaker, Heat & Smoke Detector using 2 x 2.5mm ² PVC with earth wire (meter run)		
5.1	Surface G.I conduit	METER	
5.2	Concealed G.I conduit	METER	
5.3	Surface PVC pipe	METER	
6	Supply and install ABC dry powder fire extinguisher 9.0kg c/w bracket, Chop ?HAK MILIK UiTM?	NOS	
7	Supply and install Co2 fire extinguisher 2.7 kg c/w bracket, Chop ?HAK MILIK UiTM?	NOS	
8	Inspect, service and test panel of the complete manual and automatic fire alarm system.	LOT	
9	Inspect, service and test panel of the complete Sprinkler System	LOT	
10	Inspect, service and test panel of the complete manual and automatic CO2 fire protection system.	LOT	
11	Inspect, service and renew Bomba Certificate of Co2 2.7 kg fire extinguisher.	NOS	
12	Inspect, service and renew Bomba Certificate of ABC (Dry Powder) 9.0 kg fire extinguisher.	NOS	
13	To supply and install ?KELUAR? Sign and Emergency Light :-		
13.1	LED ?KELUAR Sign (3 hour)	NOS	
13.2	LED Emergency Light (3 hour)	NOS	
14	To refill fire suppression gas:		
14.1	Co2	KG	
14.2	Fe-13	KG	
14.3	FM-200	KG	
14.4	AF 11E (Hartindo)	KG	
14.5	IG 55 (Agronite)	KG	
F	AIR COND SYSTEM		
1	Membekal, memasang dan mengujilari Air Cond termasuk G.I conduit, trunking, cable tray, earthing system, D.O.L starter dan lain-lain aksesori yang berkaitan.		
1.1	10,000 - 15000 BTU/hr c/w cable 2 x 2.5mm sq. pvc + earth system	SET	
1.2	18,000 - 20,000 BTU/hr c/w cable 2 x 4mm sq. pvc + earth system	SET	

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Keterangan : 3 - JADUAL KADAR HARGA SISTEM PENCEGAH KEBAKARAN

BIL	KETERANGAN	UNIT	HARGA (RM)
1.3	22,000 - 25,000 BTU/hr c/w cable 2 x 4mm sq. pvc + earth system	SET	
2	DB alternate c/w timer control for 2 unit air cond, contactor, digital timer etc.	LUMP SUM	
JUMLAH (RM)			