

BAHAGIAN E - JADUAL KADAR HARGA

BIL	KETERANGAN KERJA	UNIT	HARGA (RM)
1	To supply, install, testing and commissioning compressor of split unit air conditioning system as per technical specification:		
	a) 7,500 - 13,000 Btu/hr (1.0-1.5HP)	nos	
	b) 18,000 - 24,000 Btu/hr (2.0-2.5HP)	nos	
	c) 28,000 - 35,000 Btu/hr (3.0-3.5HP)	nos	
	d) 40,000 Btu/hr (4.0 HP)	nos	
	e) 50,000 Btu/hr (5.0 HP)	nos	
	f) 60,000 Btu/hr (6.0 HP)	nos	
	g) 75,000 - 80,000 Btu/hr (7.5-8.0HP)	nos	
	h) 100,000 Btu/hr (10 HP)	nos	
	l) 200,000 Btu/hr (20 HP)	nos	
	j) 300,000 Btu/hr (30 HP)	nos	
	k) 400,000 Btu/hr (40 HP)	nos	
	l) 500,000 Btu/hr (50 HP)	nos	
2	To complete dismantle split unit air conditioning system and relocate/reinstall inclusive new control and power wiring, pipings and all related works:		
	a) 7,500 - 13,000 Btu/hr (1.0-1.5HP)	nos	
	b) 18,000 - 24,000 Btu/hr (2.0-2.5HP)	nos	
	c) 28,000 - 35,000 Btu/hr (3.0-3.5HP)	nos	
	d) 40,000 Btu/hr (4.0 HP)	nos	
	e) 50,000 Btu/hr (5.0 HP)	nos	
	f) 60,000 Btu/hr (6.0 HP)	nos	
	g) 100,000 Btu/hr (10 HP)	nos	
3	To clear drain pipe blockage by flashing- up with nitrogen gas	L/s	
4	a) To top-up Refrigerant per kg.		
	i. R-12	kg	
	ii. R-22	kg	
	iii. R-410 A	kg	
	b) To top-up Refrigerant R-22 :		
	i. 1.0 - 1.5 Hp	per refill	
	ii. 2.0 - 2.5 Hp	per refill	
	iii. 3.0 - 3.5 Hp	per refill	
	iv. 4.0 Hp	per refill	
	v. 5.0 Hp	per refill	
	vi. 6.0 Hp	per refill	
5	Supply 13.5kg R-22 gas (disposable type) cylinder storage	nos	
6	Aluminium Foil c/w fibre glass insulation of thickness 2" 2lb.	m ²	
7	SWG Aluminium drain pan c/w insulation:		
	a) 18" x 22"	nos	
	b) 16" x 20"	nos	
8	Diffuser grill 2" x 2"	nos	
9	G.I bracket for duct support	set	
10	To replace Compressor Terminal Wire of all size of Compressor.	nos	
11	Water Heater & Cooler Parts (Water Cooler Machine) :-		

	a) Motor Fan	Set	
	b) Compressor	Set	
	c) Heater	Set	
	d) Filter	Set	
12	Kitchen Hood parts :-		
	a) Motor Fan	Set	
	b) Ducting	Set	
13	To replace filter dryer (Danfoss) :		
	a) 3/8"	nos	
	b) 1/2"	nos	
	c) 5/8"	nos	
	d) 3/4"	nos	
14	To replace electrical contactor for motor		
	a) 10 Amp	nos	
	b) 15 Amp	nos	
	c) 20 Amp	nos	
	d) 30 Amp	nos	
15	Thermoflex Pipe Insulation :		
	a) Pipe Diameter 1/4"	Meter	
	b) Pipe Diameter 3/8"	Meter	
	c) Pipe Diameter 1/2"	Meter	
	d) Pipe Diameter 3/4"	Meter	
	e) Pipe Diameter 1"	Meter	
16	Compressor Capacitor :		
	a) 25 uf	nos	
	b) 30 uf	nos	
	c) 35 uf	nos	
	d) 40 uf	nos	
	e) 45 uf	nos	
17	Condenser Fan Capacitor		
	a) 2.5 uf	nos	
	b) 3.0 uf	nos	
	c) 3.5 uf	nos	
	d) 4.0 uf	nos	
	e) 4.5 uf	nos	
18	Polyurathane injection pipe insulation		
	a) Diameter 1/4"	Meter	
	b) Diameter 3/8"	Meter	
	c) Diameter 1/2"	Meter	
	d) Diameter 3/4"	Meter	
19	To replace capillary tube c/w strainer:		
	a) 1.0 hp	nos	
	b) 1.5 hp	nos	
	c) 2.0 hp	nos	
	d) 2.5 hp	nos	
	e) 3.0 ke atas	nos	
20	Polyurathane injection pipe insulation		
	a) Diameter 1"	Meter	
21	To replace standard air filtering element for:		

	a) 1.0 hp	nos	
	b) 1.5 hp	nos	
	c) 2.0 hp	nos	
	d) 2.5 hp	nos	
22	Flexible duct c/w fibre glass insulation of thickness 2" 2 lb.		
	a) 6" dia	Meter	
	b) 8" dia	Meter	
	c) 10" dia	Meter	
	d) 12" dia	Meter	
23	Supply and install new rectangular ducting c/w fibreglass insulation 2" 2lb.		
	a) 1.0 x 0.5 meter	Meter	
	b) 1.5 x 1.0 meter	Meter	
	c) 2.0 x 1.5 meter	Meter	
	d) 2.5 meter and above	Meter	
24	To replace external drain water pump	nos	
25	Supply 13.5kg R-407c gas (disposable type) cylinder storage	nos	
26	Supply 13.5kg R-410a gas (disposable type) cylinder storage	nos	
27	Jammed Nut		
	a) 1/2"	nos	
	b) 1/4"	nos	
	c) 3/4"	nos	
	d) 5/8"	nos	
	e) 1"	nos	
28	Flare Nut		
	a) 1/2"	nos	
	b) 1/4"	nos	
	c) 3/4"	nos	
	d) 5/8"	nos	
	e) 1"	nos	
29	To replace Hermatic Rotary / Reciprocating Compressor:		
	a) 1.0 hp	nos	
	b) 1.5 hp	nos	
	c) 2.0 hp	nos	
	d) 2.5 hp	nos	
	d) 3.0 hp	nos	
30	To replace overload compressor:		
	a) 1.0 hp	nos	
	b) 1.5 hp	nos	
	c) 2.0 hp	nos	
31	Service valve of all size	nos	
32	Testing/Measuring Devices:		
	a) Megger Tester 1000 Amp	nos	
	b) Digital/laser thermometer	nos	
	c) Digital Multi Tester	nos	
33	G.I Conduit		
	a) 1/2"	Meter	
	b) 3/4"	Meter	
	c) 1"	Meter	

34	Flexible Conduit		
	a) 1/2"	Meter	
	b) 3/4"	Meter	
	c) 1"	Meter	
35	Galvanised trunking:		
	a) 1" x 2"	Meter	
	b) 2" x 2"	Meter	
	c) 2" x 4"	Meter	
	d) 3" x 4"	Meter	
36	PVC trunking		
	a) 1" x 2"	Meter	
	b) 2" x 2"	Meter	
	c) 2" x 4"	Meter	
	d) 3" x 4"	Meter	
	e) 5" x 4"	Meter	
37	PVC cable		
	a) 1.5 mm ²	Meter	
	b) 2.5 mm ²	Meter	
	c) 4.0 mm ²	Meter	
	e) 6.0 mm ²	Meter	
38	To replace control relay 240 V AC		
	a) 8 pin	nos	
	b) 12 pin	nos	
39	To replace control relay 24 V DC		
	a) 8 pin	nos	
	b) 12 pin	nos	
40	To replace timer relay		
	a) 60 second	nos	
	b) 60 minit	nos	
	c) 24 hours	nos	
	e) 7 days	nos	
41	To replace MCB		
	a) 32 A	nos	
	b) 24 A	nos	
	c) 20 A	nos	
	d) 16 A	nos	
	e) 10 A	nos	
	f) 5 A	nos	
42	To replace MCCB		
	a) 200 A TPN	nos	
	b) 150 A TPN	nos	
	c) 100 A TPN	nos	
	d) 75 A TPN	nos	
	e) 60 A TPN	nos	
	f) 40 A TPN	nos	
	h) 30 A TPN	nos	
43	To replace Isolator		
	a) 75 A TPN	nos	
	b) 60 A TPN	nos	

	c) 40 A TPN	nos	
	d) 30 A TPN	nos	
	e) 100 A TPN	nos	
	f) 150 A TPN	nos	
	g) 200 A TPN	nos	
44	To replace electrical contactor for motor		
	a) 10 Amp	nos	
	b) 15 Amp	nos	
	c) 20 Amp	nos	
	d) 30 Amp	nos	
45	To replace indicating (pilot) light bulb c/w housing	nos	
46	To replace wire cable in metal conduit or trunking c/w fittings per meter run		
	a) 4 x 1.5mm ² PVC c/w earthing	Meter	
	b) 4 x 2.5mm ² PVC c/w earthing	Meter	
	c) 4 x 4.0mm ² PVC c/w earthing	Meter	
	d) 4 x 6.0mm ² PVC c/w earthing	Meter	
	e) 4 x 10.0mm ² PVC c/w earthing	Meter	
47	To replace wire cable in metal conduit or trunking c/w fittings per meter run		
	a) 4 x 16.0mm ² PVC c/w earthing	Meter	
	b) 4 x 25.0mm ² PVC c/w earthing	Meter	
	c) 4 x 35.0mm ² PVC c/w earthing	Meter	
48	To replace solenoid valve		
	a) Up to 1.0" pipe dia.	nos	
	b) 1.1" to 1.5" pipe dia.	nos	
	c) 1.6"to 2.0" pipe dia.	nos	
49	To replace		
	a) Volt Meter	nos	
	b) Ammeter	nos	
50	To replace Switches		
	a) Toggle Switch	nos	
	b) On/Off Push Button	nos	
51	PLC (On/Off module) all type Air Cond Board	set	
52	To replace new Blower Fan Motor c/w testing and commissioning.		
	a) up to 12,000 Btu/hr	nos	
	b) 13,000 ~ 15,000 Btu/hr	nos	
	c) 18,000 ~ 20,000 Btu/hr	nos	
	d) 22,000 ~ 25,000 Btu/hr	nos	
	e) 28,000 ~ 30,000 Btu/hr	nos	
	f) 40,000 ~ 50,000 Btu/hr	nos	
	g) 60,000 Btu/hr	nos	
	h) 70,000 Btu/hr	nos	
	i) 80,000 Btu/hr	nos	
	j) 100,000 Btu/hr	nos	
53	To replace new Condenser Fan Motor c/w testing and commissioning:		
	a) up to 12,000 Btu/hr	nos	
	b) 13,000 ~ 15,000 Btu/hr	nos	
	c) 18,000 ~ 20,000 Btu/hr	nos	

	d) 22,000 ~ 25,000 Btu/hr	nos	
	e) 28,000 ~ 30,000 Btu/hr	nos	
	f) 40,000 ~ 50,000 Btu/hr	nos	
	g) 60,000 Btu/hr	nos	
	h) 70,000 Btu/hr	nos	
	i) 80,000 Btu/hr	nos	
	j) 100,000 Btu/hr	nos	
54	To complete dismantle split unit air conditioning system and transport to the store as directed by the S.O.:		
	a) WCSU	nos	
	b) 1.0 hp	nos	
	c) 1.5 hp	nos	
	d) 2.0 hp	nos	
	e) 2.5 hp	nos	
55	To complete dismantle WCSU / split unit air conditioning system and relocate/reinstall inclusive new related works :		
	a) 1.0 hp	nos	
	b) 1.5 hp	nos	
	c) 2.0 hp	nos	
	d) 2.5 hp	nos	
	e) 3-6 hp	nos	

56	To replace PC Board for Non -Inverter		
	a) 1.0 hp	nos	
	b) 1.5 hp	nos	
	c) 2.0 hp	nos	
	d) 2.5 hp	nos	
57	To replace Auto/Off/Manual Selector Switch	nos	
58	To replace Compressor Terminal Wire of all size of Compressor. (Non Popular item)	nos	
59	To replace Thermostat:		
	a) Conventional operated Thermostat	nos	
	b) Electronic operated Thermostat	nos	
60	To replace overload compressor:		
	a) 1.0 Hp	nos	
	b) 1.5 Hp	nos	
	C) 2.0 Hp	nos	
61	To replace complete set new Auto-trans switch board c/w On/Off push button, isolator and other accessories:		
	a) 5.0 KW to 6.0 KW	nos	
	b) 6.1 KW to 7.0 KW	nos	
	c) 7.1 KW to 8.0 KW	nos	
	d) 8.1 KW to 10.KW	nos	
62	Refrigerant Copper Pipe :		
	a) Diameter 3/8"	Meter	
	b) Diameter 1/4"	Meter	
	c) Diameter 1/2"	Meter	
	d) Diameter 5/8"	Meter	
	e) Diameter 3/4"	Meter	
	f) Diameter 1" (hard copper)	Meter	
	g) Diameter 1 1/8 (hard copper)	Meter	
63	To replace PC Board for Non -Inverter		
	a) 1.0 hp	nos	
	b) 1.5 hp	nos	
	c) 2.0 hp	nos	
	d) 2.5 hp	nos	
64	To replace Sight glass:		
	a) 3/8"	nos	
	b) 1/2"	nos	
65	To replace PVC drain pipe		
	a) Diameter 1/2"	nos	
	b) Diameter 3/4"	nos	
	c) Diameter 1"	nos	
	d) Diameter 1 1/2"	nos	
66	To replace 18 Amp D.O.L starter set	nos	
67	To replace hand valve 3/8"	nos	
68	To replace high/low pressure switch	nos	
69	To replace G.I pipe work including fittings, supports, painting and removing defective area excluding valve per feet run for drain pipe c/w vapor seal:		
	a) 3/4"	Meter	
	b) 1"	Meter	

	c) 1 1/4"	Meter	
	d) 1 1/2"	Meter	
	e) 1 3/4"	Meter	
	f) 2"	Meter	
70	To replace all types WCPU parts:-YORK		
	a) Panel Grille	nos	
	b) Blower	nos	
	c) Coil	nos	
	d) Control Panel	nos	
	e) motor	nos	
	f) Compressor	nos	
	g) Condensor	nos	
71	(YORK EWM/EWS/EWE/EWH Water Cooled Package)		
72	To do overhaul c/w chemical cleaning		
	a) wall mounted type	nos	
	b) ceiling exposed/ suspended type	nos	
	c) ceiling cassette type	nos	
73	To do overhaul c/w chemical cleaning for indoor & outdoor WCSU	nos	
75	To replace Blower Fan Belt for all size :		
	a) Panel Grill / Filter	nos	
	b) Blower Wheel	nos	
	c) Run capacitor	nos	
	d) Control Panel	nos	
	e) Blower motor	nos	
76	To repair all types WCPU parts:- YORK		
	a) Filter	nos	
	b) Blower Wheel	nos	
	c) Run capacitor	nos	
	d) Control Panel	nos	
	e) Blower motor	nos	
	(YORK EWM/EWS/EWE/EWH Water Cooled Package)		
77	To replace Thermostat:		
	a) Conventional operated Thermostat	nos	
	b) Electronic operated Thermostat	nos	
78	To replace electrical contactor for motor		
	a) 10 Amp	nos	
	b) 15 Amp	nos	
	c) 20 Amp	nos	
	d) 30 Amp	nos	
79	Compressor Capacitor		
	a) 25 uf	nos	
	b) 30 uf	nos	
	c) 35 uf	nos	
	d) 40 uf	nos	
	e) 45 uf	nos	
80	Condenser Fan Capacitor		
	a) 2.5 uf	nos	
	b) 3.0 uf	nos	
	c) 3.5 uf	nos	

	d) 4.0 uf	nos	
	e) 4.5 uf	nos	
81	Compressor overload (external)		
	a) 7,500 Btu/hr	nos	
	b) 9,000 ~ 10,000 Btu/hr	nos	
	c) 12,000 ~ 13,000 Btu/hr	nos	
82	Replace propeller fan blade:		
	a) 7,500 ~ 13,000 Btu/hr	nos	
	b) 18,000 ~ 24,000 Btu/hr	nos	
	c) 28,000 ~ 35,000 Btu/hr	nos	
	d) 40,000 Btu/hr	nos	
	e) 50,000 Btu/hr	nos	
	f) 60,000 Btu/hr	nos	
	g) 75,000 ~ 80,000 Btu/hr	nos	
	h) 100,000 Btu/hr	nos	
83	Replace Condenser Fan Motor:		
	a) 7,500 ~ 13,000 Btu/hr	nos	
	b) 18,000 ~ 24,000 Btu/hr	nos	
	c) 28,000 ~ 35,000 Btu/hr	nos	
	d) 40,000 Btu/hr	nos	
	e) 50,000 Btu/hr	nos	
	f) 60,000 Btu/hr	nos	
84	Remote control (wired) (c/w cable & installation)		
	a) Acson/York	nos	
	b) Topaire	nos	
	c) Carrier	nos	
	d) Daikin	nos	
	e) LG	nos	
85	Remote control (wireless)		
	a) Acson/York	nos	
	b) Topaire	nos	
	c) Carrier	nos	
	d) Daikin	nos	
	e) LG	nos	
	e) Compatible (After Market Brand)	nos	
86	To replace standard air filtering element for:		
	a) 7,500 ~ 13,000 Btu/hr	Set	
	b) 18,000 ~ 24,000 Btu/hr	Set	
	c) 28,000 ~ 35,000 Btu/hr	Set	
	d) 40,000 Btu/hr	Set	
	e) 50,000 Btu/hr	Set	
	f) 60,000 Btu/hr	Set	
	g) 75,000 ~ 80,000 Btu/hr	Set	
	h) 100,000 Btu/hr	Set	
87	To replace stainless steel electrode sensor for Water Tank	Set	
88	To replace Floatless Relay for Water Tank	Set	
89	Thermistor/Sensor (Suction Air Temp)	Set	
90	Thermistor/Sensor (Liquid Time Temp)	Set	
91	Thermistor/Sensor (Gas Line Temp)	Set	

92	To replace new Blower Fan Motor c/w testing and commissioning.		
	a) 7,500 ~ 13,000 Btu/hr	nos	
	b) 18,000 ~ 24,000 Btu/hr	nos	
	c) 28,000 ~ 35,000 Btu/hr	nos	
	d) 40,000 Btu/hr	nos	
	e) 50,000 Btu/hr	nos	
	f) 60,000 Btu/hr	nos	
	g) 75,000 ~ 80,000 Btu/hr	nos	
93	To replace new Condenser Fan Motor c/w testing and commissioning.		
	a) 7,500 ~ 13,000 Btu/hr	nos	
	b) 18,000 ~ 24,000 Btu/hr	nos	
	c) 28,000 ~ 35,000 Btu/hr	nos	
	d) 40,000 Btu/hr	nos	
	e) 50,000 Btu/hr	nos	
	f) 60,000 Btu/hr	nos	
	g) 75,000 ~ 80,000 Btu/hr	nos	
94	Front Casing for all model of Wall Type Split Unit:		
	a) 1.0 Hp	nos	
	b) 1.5 Hp	nos	
	c) 2.0 Hp	nos	
	d) 2.5 Hp	nos	
	e) 3.0 Hp	nos	
95	To replace louver motor for Wall Type Split Unit:	nos	
	a) 1.0 Hp	nos	
	b) 1.5 Hp	nos	
	c) 2.0 Hp	nos	
	d) 2.5 Hp	nos	
96	To replace new aluminium drain pan for cooling coil per sq feet c/w insulation	Sq. ft	
97	To replace external drain water pump	nos	
98	To replace new pulley, single slot:		
	a) Below 1" shaft dia	nos	
	b) 1.1" to 1.5" shaft dia	nos	
	c) 1.6" to 2.0" shaft dia	nos	
	d) 2.1" to 2.5" shaft dia	nos	
99	To overhaul water pump including replacement of bearings, mechanical seal, re-machine shaft/impeller and alignment ;		
	i. Up to 3.0 Hp	nos	
	i. 3.0Hp to 7.5Hp	nos	
	ii. 7.6Hp to 15.0Hp	nos	
	iii. 15.1Hp to 20.0Hp	nos	
	iv. 20.1Hp to 30.0Hp	nos	
	v. 30.1Hp and above	nos	
100	To replace new Expansion Valve:		
	a) 5.0 tons	nos	
	b) 6.0 tons	nos	
	c) 7.0 tons	nos	
	d) 8.0 tons	nos	
	e) 9.0 tons	nos	
101	To replace Blower Fan Belt for all size	nos	

102	To replace cooling tower Fan Blade (Complete set) :-		
	i. 40 Ton	nos	
	ii. 50 Ton	nos	
	iii. 60 Ton	nos	
	iv. 80 Ton	nos	
	v. 100 Ton	nos	
	vi. 125 Ton	nos	
	vii. 175 Ton	nos	
	viii. 300 Ton	nos	
103	To replace cooling tower gear box Oil per liter, SEA 90	Liter	
104	To replace cooling tower motor (Complete set) :-		
	iii. 60 Ton	nos	
	iv. 80 Ton	nos	
	v. 100 Ton	nos	
	vi. 125 Ton	nos	
	vii. 175 Ton	nos	
	viii. 200 Ton	nos	
105	To replace Cooling tower Parts:-		
	a) V-Belt And Pulley System	nos	
	b) Fan Assembly	nos	
	c) Ladder	nos	
	d) Cold Water Basin Frame	nos	
	e) Internal Piping	meter	
	f) Repair All FRP related parts	m2	
	g) Motor (Weather Proof TEFC Type)	nos	
106	To overhaul water pump including replacement of bearings, mechanical seal, re-machine shaft/impeller and alignment ;		
	i. 0.5 Hp	nos	
	ii. 8.0 Hp	nos	
	ii. 50.0 Hp	nos	
107	To Replace Back Pull out Centrifugal Pumps DIN 24255 (50Hp) parts:		
	a) Gasket Ring	nos	
	b) Gasket	nos	
	c) Oil Seal	nos	
108	To replace cooling tower gear box Oil per liter, SEA 90	nos	
109	Water Heater & Cooler Parts (Water Cooler Machine) :-		
	a) Filter	nos	
110	Hourly allowance to stand-by during special event <u>within office hour</u> (as directed or requested by the S.O.):		
	a) Engineer	psn/hr	
	b) Supervisor/Technician	psn/hr	
	c) Skill worker/Formen	psn/hr	
	d) Non-Skill works	psn/hr	
111	Hourly allowance to stand-by during special event <u>after office hour</u> (as directed/request by the S.O.)		
	a) Engineer	psn/hr	
	b) Supervisor/Technician	psn/hr	
	c) Skill worker/Formen	psn/hr	
	d) Non-Skill works	psn/hr	

112	Hourly allowance to stand-by during special event <u>during weekend or public holiday</u> (as directed/request by the S.O.)		
	a) Engineer	psn/hr	
	b) Supervisor/Technician	psn/hr	
	c) Skill worker/Formen	psn/hr	
	d) Non-Skill works	psn/hr	
113	To complete dismantle split unit air conditioning system and transport to Store as directed by the S.O.:		
	a) 7,500 ~ 13,000 Btu/hr	nos	
	b) 18,000 ~ 24,000 Btu/hr	nos	
	c) 28,000 ~ 35,000 Btu/hr	nos	
	d) 40,000 Btu/hr	nos	
	e) 50,000 Btu/hr	nos	
	f) 60,000 Btu/hr	nos	
114	To Replace Back Pull out Centrifugal Pumps DIN 24255 (50Hp) parts:		
	a) Dowel	nos	
	b) Casing Gasket	nos	
	c) Drain Plug	nos	
	d) Vent Plug	nos	
	e) Gasket Ring	nos	
	f) Impeller	nos	
	g) Gauge Plug	nos	
	h) Gasket Plug	nos	
	i) Latern Ring	nos	
	j) Gland	nos	
	k) Bearing Housing	nos	
	l) Gasket	nos	
	m) Bearing Cover	nos	
	n) Shaft	nos	
	o) Grease Nipple	nos	
	p) Oil Seal	nos	
	q) Stud	nos	
	r) Nut	nos	
	s) Hex.Screw	nos	
115	To Replace End Suction Centrifugal :		
	a) 6" diameter	nos	
	b) 8" diameter	nos	
	c) 10" diameter	nos	
116	To Replace Butterfly Valve :		
	a) 6" diameter	nos	
	b) 8" diameter	nos	
	c) 10" diameter	nos	
117	To Replace Flange Valve :		
	a) 6" diameter	nos	
	b) 8" diameter	nos	
	c) 10" diameter	nos	
118	To Replace Rubber Bellow Pipe :		
	a) 6" diameter	nos	
	b) 8" diameter	nos	
	c) 10" diameter	nos	

119	To Replace New Transformer :		
	a) 5.5 kW - 415V	nos	
	b) 5.7 kW - 415V	nos	

120	To supply and install NEW unit of aircond including piping and wiring and all accessories (Brand Acson or equivalent)		
	<i>a) Wireless remote Wall Mounted</i>		
	i. 9,500 btu/hr	nos	
	ii. 12,000 btu/hr	nos	
	iii. 18,000 btu/hr	nos	
	iv. 22,000 btu/hr	nos	
	v. 30,000 btu/hr	nos	
	<i>b) Wireless remote Ceiling Cassete</i>		
	i. 9,500 btu/hr	nos	
	ii. 12,500 btu/hr	nos	
	iii. 18,500 btu/hr	nos	
	iv. 24,000 btu/hr	nos	
	v. 30,000 btu/hr	nos	
	vi. 36,000 btu/hr	nos	
	vii. 42,000 btu/hr	nos	
	viii. 48,000 btu/hr	nos	
	<i>c) Wireless remote Ceiling Exposed</i>		
	i. 18,500 btu/hr	nos	
	ii. 23,500 btu/hr	nos	
	iii. 29,500 btu/hr	nos	
	iv. 36,000 btu/hr	nos	
	v. 42,000 btu/hr	nos	
	vi. 46,000 btu/hr	nos	
	vii. 55,000 btu/hr	nos	
	<i>d) Wireless remote Floor Standing</i>		
	i. 28,000 btu/hr	nos	
	ii. 29,000 btu/hr	nos	
	iii. 36,000 btu/hr	nos	
	iv. 42,000 btu/hr	nos	
	v. 45,000 btu/hr	nos	
	vi. 55,000 btu/hr	nos	
	<i>e) Copper Tube Refrigerant pipe c/w fittings (additional price for new installation more than 10 feet length)</i>		
	i. 1/4"	m	
	ii. 3/8"	m	
	iii. 1/2"	m	
	iv. 5/8"	m	
	v. 7/8"	m	
	vi. 1"	m	
	vii. 1 1/8"	m	
	viii. 1 3/8"	m	
	ix. 1 5/8"	m	
	x. 2 1/8"	m	

121	To supply Air Curtain		
	a) Surface coverage 3' X 8'	nos	
	b) Surface coverage 3' X 10'	nos	
	c) Surface coverage 4' X 8'	nos	
	d) Surface coverage 4' X 10'	nos	
	e) Surface coverage 4' X 12'	nos	
	SISTEM PENGHAWA DINGIN AHU		
122	To modified Heat Exchanger c/w pipe capacity :		
	a) 4-10 Hp	set	
	b) 15-20 Hp	set	
	c) 25-30 Hp	set	
123	To replace access door	nos	
124	To replace plehum fans	nos	
125	To replace centifugal fans	nos	
126	To replace inlef rings	nos	
127	To replace scaled-for-life bearing	nos	
128	To replace forward curve impeller	nos	
129	To replace backward curve impeller	nos	
130	To replace chilled water coils	nos	
131	To replace direct expansion coils	nos	
132	To replace hot water coils	nos	
133	To replace steam coils	nos	
134	To replace full range isolator	nos	
135	To replace full range filter	nos	
136	To replace cooling coil copper tube	nos	
137	To modified capillary tube all size for AHU system	nos	
138	To replace new compressor for AHU system c/w modification tube and pipe	nos	
139	To request specialist AHU system for checking and re-confirm problem AHU system	nos	
140	To modification and welding ACC AHU system	nos	
141	To check discharge compression pressure	nos	
142	To reduce load to design kW value	nos	
143	To inspect surface and clean	nos	
144	To repair refrigerant leak, add refrigerant	nos	
145	To determine flow and adjust correctly belt tension	nos	
146	To inspect thermostat and replace if necessary	nos	
147	To determine the couse of restriction and repair	nos	
148	To inspect surface and clean, check evaporator drive	nos	
149	To re-evacuate refrigerant system and charge with new refrigerant	nos	
150	To bleed of excess refrigerant	nos	
151	To readjust o replace	nos	
152	To check electrical supply, contactors, wires and retify fault	nos	
153	To check refrigerant charge (fix leak), add if necessary	nos	
154	To check that crankcase heater is functioning properly	nos	
155	To replace protector	nos	
156	To apply belt dressing	nos	
	COOLING TOWER SYSTEM		

157	To supply manpower, tools, materials and equipment to perform descaling condense coil work, flush condensor coil with water, clean unit strainer, check unit refrigerant charge (top up if necessary), check unit run ampere, record unit performance and testing/commissioning.		
	i. Water Cooled Package Unit (WCPU)	nos	
	ii. Water Cooled Split Unit (WCSU)	nos	
158	To supply, deliver, replace and testing/commissioning PVC Infill for Cooling Tower.		
	i. Cooling Tower - 100 HRT (one set)	nos	
	ii. Cooling Tower - 125 HRT (one set)	nos	
	iii. Cooling Tower - 300 HRT (one set)	nos	
159	To supply and install piping component :		
	i. ON/OFF Electric Actuator Motorized Valve 250mm	nos	