

Note : **1. All prices are for a single Unit or Per Troubleshooting**
2. One - Time general air conditioner service

ITEM NO. : CONTROL VALVE AND BALANCING VALVE

ITEM NO.	PARTS DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	¢
1.1	Modulating control valves		
A	25mm screwed	850	00
B	32mm screwed	950	00
C	40mm screwed	1050	00
D	50mm screwed	1265	00
E	65mm flange end	1400	00
F	80mm flange end	1540	00
G	100mm flange end	1945	00
H	150mm flange end	2625	00
1.2	Balancing control valves		
A	25mm screwed	660	00
B	32mm screwed	710	00
C	40mm screwed	850	00
D	50mm screwed	950	00
E	65mm flange end	1100	00
F	80mm flange end	1350	00
G	100mm flange end	2650	00
H	150mm flange end	3100	00

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ITEM NO. : SPLIT AND PACKAGE UNIT

ITEM NO.	PARTS DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	¢
2.1	Thermistor including sensor for DX Split unit	75	00
2.2	Air Filter, soft foam/sponge type	120	00
2.3	Air Filter, hard PVC mesh frame type	190	00
2.4	Air Blower, Evaporator fan	250	00
2.5	Over load Relay, for compressor 32-amps	195	00
2.6	Fan motor Bearing		
	'6306	83	00
	'6308	98	00
	'6311	135	00
2.7	Filter Drier		
	EK 084	90	00
	EK306	120	00
	Alco 165 5/8"	125	00
	H-48	170	00
2.8	Capacitor running/starting		
	'2-5 MFD	25	00
	6-15 MFD	38	00
	16-29 MFD	48	00
	30-50 MFD	58	00
	51-70 MFD	68	00
2.9	Magnetic Contactor		
	LC1 D-09	80	00
	LC1 D-12	90	00
	LC1 D-18	125	00
	LC1 D-32	165	00
	LC1 D-42	170	00
	LC1 D-48	190	00
	LC3 D-65	393	00
2.10	Remote control for Split Unit	250	00
2.11	Universal remote with receiver board	210	00
2.12	High pressure switch D306XM	280	00
2.13	Low pressure switch D306XM	280	00
2.14	Service valve	168	00

ITEM NO.	PARTS DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	¢
2.15	Refrigerant piping connector coupling	70	00
2.16	Front cover	190	00
2.17	Flexible hose, ½ "dia. / m	38	00
2.18	Remote to wire type including necessary parts	450	00
2.19	Fully hermetic compressor for RAC R-22 any make c/w filter drier, service valve, motor protector, crankcase heater, capacitor + 9 months warranty including testing & commissioning		
a	7,000 Btu/hr – 11,000Btu/hr	585	00
b	12,000 Btu/hr – 17,000 Btu/hr	780	00
c	18,000 Btu/hr – 24,000 Btu/hr	880	00
2.20	Fully hermetic compressor for Split Unit R-22 any make c/w filter drier, service valve, motor protector, crankcase heater, capacitor + 9 months warranty including testing & commissioning		
a	8,000 Btu/hr – 12,000 Btu/hr	580	00
b	12,500 Btu/hr – 16,000 Btu/hr	780	00
c	16,500 Btu/hr – 24,000 Btu/hr	880	00
d	24,500 Btu/hr - 30,000 Btu/hr	940	00
e	30,500 Btu/hr - 38,000 Btu/hr	1100	00
f	38,500 Btu/hr - 48,000 Btu/hr	1365	00
2.21	Fan Blade for Condenser, Split Unit any make		
a	8,000 Btu/hr – 12,000 Btu/hr	250	00
b	12,500 Btu/hr – 16,000 Btu/hr	250	00
c	16,500 Btu/hr – 24,000 Btu/hr	284	00
d	24,500 Btu/hr - 30,000 Btu/hr	295	00
e	30,500 Btu/hr - 38,000 Btu/hr	395	00
f	38,500 Btu/hr - 48,000 Btu/hr	420	00
g	48,500 Btu/hr - 60,000 Btu/hr	550	00
h	65,000 Btu/hr - 72,000 Btu/hr	680	00
2.22	Micro-Computer Control for Split Unit any make		
a	8,000 Btu/hr – 10,000 Btu/hr	300	00
b	10,500 Btu/hr – 13,000 Btu/hr	340	00
c	13,500 Btu/hr – 18,000 Btu/hr	422	00
d	18,500 Btu/hr – 28,000 Btu/hr	460	00
e	28,500 Btu/hr - 38,000 Btu/hr	490	00
f	38,500 Btu/hr - 48,000 Btu/hr	560	00
2.23	Electronic Printed Circuit Boards for Split Unit any make (Non inverter)		
a	8,000 Btu/hr – 10,000 Btu/hr	300	00
b	10,500 Btu/hr – 13,000 Btu/hr	480	00

ITEM NO	PARTS DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	¢
c	13,500 Btu/hr – 18,000 Btu/hr	580	00
d	18,500 Btu/hr - 28,000 Btu/hr	680	00
e	28,500 Btu/hr - 38,000 Btu/hr	780	00
f	38,500 Btu/hr - 48,000 Btu/hr	880	00
2.24	FCU Fan Scroll for Split Unit any make		
a	8,000 Btu/hr – 10,000 Btu/hr	300	00
b	10,500 Btu/hr – 13,000 Btu/hr	380	00
c	13,500 Btu/hr – 18,000 Btu/hr	420	00
d	18,500 Btu/hr - 28,000 Btu/hr	520	00
e	28,500 Btu/hr - 38,000 Btu/hr	580	00
f	38,500 Btu/hr - 48,000 Btu/hr	600	00
2.25	New Condenser Fan motor for Split Unit any make		
a	8,000 Btu/hr – 10,000 Btu/hr	220	00
b	10,500 Btu/hr – 13,000 Btu/hr	300	00
c	13,500 Btu/hr – 18,000 Btu/hr	400	00
d	18,500 Btu/hr - 28,000 Btu/hr	480	00
e	28,500 Btu/hr - 38,000 Btu/hr	590	00
f	38,500 Btu/hr - 48,000 Btu/hr	660	00
2.26	New Fan motor for RAC any make		
a	7,000 Btu/hr – 11,000 Btu/hr	220	00
b	12,000 Btu/hr – 17,000 Btu/hr	300	00
c	18,000 Btu/hr – 24,000 Btu/hr	400	00
2.27	New Fan Coil Unit Fan Motor for Split Unit any make		
a	8,000 Btu/hr – 10,000 Btu/hr	210	00
b	10,500 Btu/hr – 13,000 Btu/hr	290	00
c	13,500 Btu/hr – 18,000 Btu/hr	380	00
d	18,500 Btu/hr - 28,000 Btu/hr	415	00
e	28,500 Btu/hr - 38,000 Btu/hr	490	00
f	38,500 Btu/hr - 48,000 Btu/hr	550	00
2.28	To Rewind Fan Motor for Split Unit any make c/w bearings		
a	8,000 Btu/hr – 13,000 Btu/hr	210	00
b	13,500 Btu/hr – 18,000 Btu/hr	290	00
c	18,500 Btu/hr – 28,000 Btu/hr	380	00
d	28,500 Btu/hr - 38,000 Btu/hr	420	00
e	38,500 Btu/hr - 48,000 Btu/hr	510	00
2.29	To Rewind Fan Motor for RAC any make c/w bearings		
a	7,000 Btu/hr – 11,000 Btu/hr	210	00
b	12,000 Btu/hr – 17,000 Btu/hr	290	00
c	18,000 Btu/hr – 24,000 Btu/hr	380	00
2.30	To fabricate, supply & install Drip Tray for RAC	380	00

ITEM NO	PARTS DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	¢
2.31	Plug Top MK or approved equivalent		
a	13 amps	26	00
b	15 amps	27	00
c	20 amps	31	00
d	30 amps	44	00
2.32	3-core flexible cable suitable for the following rating		
a	15 amps	36	00
b	20 amps	39	00
c	30 amps	43	00
2.33	Refrigerant piping for Split Unit c/w Armaflex insulation and Denso tape		
a	Below 1 "	40	00
b	1½" – 2"	52	00
2.34	Replace Refrigerant piping insulation using Amaflex for Split Unit		
a	Below 1 "	40	00
b	1½" - 2 "	52	00
2.35	Metal Trunking		
a	2" x 2" x 6"	25	00
b	2" x 3" x 6"	28	00
c	2" x 4" x 6"	34	00
2.36	PVC Trunking		
a	2" x 2" x 6"	25	00
b	2" x 3" x 6"	28	00
c	2" x 4" x 6"	34	00
2.37	New Receiver for:-		
a	RAC's	170	00
b	Split Units	192	00
2.38	Flare nuts any size for Split Unit and RAC	16	00
2.39	Flare Union any size for Split Unit and RAC	20	00
2.40	Flare Elbow any size for Split Unit and RAC	25	00
2.41	Flare Tee any size for Split Unit and RAC	35	00
2.42	Air Curtains any makes		
a	Air flow 2" x throw	580	00
b	Air flow 3" x throw	750	00
c	Air flow 4" x throw	980	00
2.43	Freon R-22	150	00
2.44	Alteration of an opening as requested by the Department	75	00
2.45	Blanking off an opening using ½" thick painted plywood, properly fixed to cover the opening fully.	150	00

ITEM NO	PARTS DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	¢
2.46	Materials for repairing leaks, to provide all the required materials to repair any leaks as instructed by the designated officer.	480	00
2.47	To supply and install metal support brackets for RAC and Split type air conditioning where the brackets shall be rigidly fixed and painted to match the external wall of the building (for ducting & condensing unit various size)	380	00
2.48	To construct an opening where it should be rigid and correctly size at a location as requested by the designated officer of the department. The type of walls are as follows:		
a	On Timber/Wooden wall	275	00
b	Within Louvers/NACO window frame	295	00
c	On brick or concrete wall less than 6 inch thick	358	00
d	On brick or concrete wall 6 to 12 " thick	390	00
e	On fixed glass window frame or on window with frame	530	00
2.49	To supply, install, excavate and making good etc.....of concealed drain pipes as follows:		
a	On concrete floor only	276	00
b	On concrete floor with mosaic tiles	380	00
2.50	To install Drip Tray for newly installed RAC units c/w associated materials and workmanship. Where possible the PVC pipe shall be fixed with saddles and where PVC pipes crosses the walkway etc.....it should be installed flushed to the walkway.	480	00
2.51	To replace a compressor with another working compressor salvaged from a written-off unit, including all necessary related works. The works shall also include testing of the unit repainting of the unit using two coats of red lead oxide paint and a final coat to match the original colour. The price should only be chargeable as labour charge.	880	00
2.52	Materials for system chocked elimination to provide all the required materials as instructed by the designated officer.	1280	00
2.53	To supply and replace the following :		
a	DOL starter for Room airconditioning unit	280	00
b	15 Amps Switched socket outlet	86	00
c	20 Amps DP Switch	98	00
d	Compressor Overload Protector	105	00
e	Thermistor sensor	220	00
f	Air swing motor for RAC/Split	220	00
g	Blower Scroll for Room Air-condition unit	325	00
h	Blower Scroll for Split Unit	490	00
i	Compressor terminal clip with wiriness assembly	175	00

ITEM NO	PARTS DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	¢
2.54	To supply and replace the following :		
a	DOL starter for Room airconditioning unit	380	00
b	15 Amps Switched socket outlet	86	00
c	20 Amps DP Switch	98	00
d	Compressor Overload Protector	105	00
e	Thermistor sensor	220	00
f	Air swing motor for RAC/Split	220	00
g	Blower Scroll for Room Air-condition unit	285	00
h	Blower Scroll for Split Unit	390	00
i	Compressor terminal clip with wiriness assembly	175	00
2.55	To supply and replace the following :		
a	MCCB 40 to 80 SP/TP	180	00
b	MCCB 80 to 150 TP	220	00
c	ELCB 40 to 80 SP/TP	240	00
d	ELCB 80 to 150 TP	290	00
e	Weather proof Isolator Switch 20Amps DP/TP	145	00
f	Weather proof Isolator Switch 32Amps DP/TP	155	00
g	MCB 16 Amps SP/TP	165	00
h	MCB 32-40 Amps SP/TP	190	00
i	Sub Distribution Board Metal Enclosure	790	00
j	Sub Distribution Board PVC Enclosure	610	00
k	Copper capillary tube size to unit under repair	168	00
l	3 way copper drier/strainer	300	00
m	Unit (plant no.) tag	20	00
n	Time Delay relay	173	00
2.56	Dismantling of existing faulty unit and send to store or as instructed by S.O.		
a	Room Air Conditioning Unit	85	00
b	Split air conditioning unit	275	00
2.57	To supply and terminate 3C x 4mm ² in PVC surface casing/conduit for the nearest Sub DB to unit isolator (per meter)	28	00
2.58	To supply and terminate 5C x 4mm ² in PVC surface casing/conduit from the nearest Sub DB to unit isolator (per meter)	40	00
2.59	To supply and terminate 2C x 2.5mm ² in PVC surface casing/conduit	30	00
2.60	Modify split unit control using digital thermostat with 3 speed fan control, modification of control wiring c/w supply of controller and wiring etc.	580	00
2.61	Repositioning/collect and install RAC unit of various capacities as instructed by S.O.	200	00
2.62	Repositioning/collect and install Split unit of various capacities as instructed by S.O.	450	00
2.63	Modify blower/fan motor end plate bush to bearing c/w machining	580	00
2.64	Painting of condensing unit/room air conditioning unit with anti rust coat and final coat with suitable colour.	300	00

Note: **1. All prices are for a single item inclusive, all cost of installation etc.**
2. Warranty on replace or repairs : each replace or repair carried out shall be to the satisfaction of the S.O and shall guaranteed against faulty material or poor workmanship for a period of NINE (9) months

ITEM NO. 5 : AIR CONDITIONING SPARE PARTS FOR CHILLERS

ITEM NO	DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	cts
1.	Cartridge Refrigerant Filter Carrier or York or any make	1820	00
2.	Cartridge Oil Filter Carrier or York or any make	780	00
3.	Chiller Anti Recycle. Timer Carrier or York or any make	989	00
4.	Chiller Cartridge Dehydrator Carrier or York or any make	1210	00
5.	Chiller High Temperature Control or any make	2100	00
6.	Chiller High Pressure Control Carrier or York or any make	2250	00
7.	Chiller Low Temperature Control Carrier or York or any make	1959	00
8.	Chiller Low Pressure Control Carrier or York or any make	2100	00
9.	Chiller High Pressure control Carrier or York or any make	2650	00
10.	Chiller Fuse Control Carrier or York or any make	380	00
11.	Chiller Fuse Control Carrier or York or any make	380	00
12.	Chiller Hi-Pressure Control Carrier or York or any make	2650	00
13.	Chiller Hi-Pressure Control Carrier or York or any make	2740	00
14.	Chiller Hi-Pressure Control 60 – 100 Psig or any make	2740	00
15.	Chiller Lo-Pressure Control 0 – 60 Psig or any make	2990	00
16.	Chiller Current Module Control Carrier or York or any make	9,528	00
17.	Chiller Temperature Module Control Carrier or York or any make	2960	00
18.	Chiller Module Control Carrier or York or any make	9,510	00
19.	Chiller Oil Pressure Control Carrier or any make	2850	00
20.	Chiller PHP Control Carrier or York or any make	2850	00
21.	Chiller Water Temp. Sensor Control Carrier or York or any make	3420	00
22.	Chiller Flow Switch Carrier or York or any make	2312	00
23.	Chiller Flow Switch 110 – 220v 12inches Sensor	2410	00
24.	Chiller HDT Temperature Carrier or York or any make	1850	00
25.	Chiller Heater Carrier or York or any make	1840	00

ITEM NO	DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	cts
26.	Chiller Oil Pump Carrier or York or any make	2,430	00
27.	Chiller Prv Motor Actuator Carrier or York or any make	2,090	00
28.	Chiller Prv Motor Actuator Carrier or York or any make	2,090	00
29.	Chiller Water Element Control (LET)	1880	00
30.	Chiller Purge CYC Counter Carrier or York or any make	1600	00
	SLIP RING INDUCTION MOTOR & A		
32.	Motor, TECO DW250 55kw	17,917	00
33.	Motor, brook DW180lbd 18.6 /15 kw (whole Assy)	12,639	00
34.	Motor TECO DW200LBD 22 kw	13,549	00
35.	Motor TECO DW180M 15 kw	12,730	00
36.	Motor TECO DW200LX 22 kw	13,549	00
37.	Motor TECO DW225 45 kw	17,380	00
38.	Motor Cramptan DW180L 15 kw	12,639	00
39.	Motor for Cooling Towers 30Hp	32,800	00
40.	Motor for Cooling Towers 15Hp	32,000	00
41.	Motor for AHU 2 – 5 Hp	11,500	00
42.	Motor for AHU 6 – 10 Hp	12,000	00
43.	Motor for AHU 11– 15 Hp	12,300	00
44.	Motor for AHU 16 – 20Hp	12,900	00
45.	Motor for AHU 21 – 25 Hp	13,500	00
46.	Motor for Barrel Fan 380/240V 50Hz 0.5 – 1 Kw	2850	00
47.	Motor for Barrel Fan 380/240V 50Hz 1.25 – 2 Kw	3,050	00
48.	Motor for Barrel Fan 380/240V 50Hz 2 Kw above	5,200	00
49.	Magnetic Contractor		
a.	15 - 35 Amps	180	00
b.	36 - 55 Amps	210	00
c.	56 - 75 Amps	280	00
d.	76 - 55 Amps	310	00
e.	96 - 115 Amps	380	00
f.	116 - 135 Amps	464	00

ITEM NO	DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	cts
50.	Coil Voltage 220V		
a.	15 - 35 Amps	88	00
b.	36 - 55 Amps	90	00
c.	56 - 75 Amps	90	00
d.	76 - 55 Amps	90	00
e.	96 - 115 Amps	110	00
f.	116 - 135 Amps	110	00
51.	Coil Voltage		
a.	15 - 35 Amps	110	00
b.	36 - 55 Amps	110	00
c.	56 - 75 Amps	110	00
d.	76 - 55 Amps	110	00
e.	96 - 115 Amps	120	00
f.	116 - 135 Amps	120	00
52.	To rewind Motors c/w resurfacing, new Bearings, Mounting, Rotor & Stator any Rpm & 1Ph or 3Ph 240/415V 50Hz		
a.	5 – 7.5 Hp	1150	00
b.	10 – 15 Hp	1,450	00
c.	16 – 29 Hp	2100	00
d.	30 – 40 Hp	2650	00
e.	41 – 50 Hp	3150	00
f.	51 – 60 Hp	3550	00
g.	61 – 75 Hp	4800	00
53.	Re- winding of Semi-hermatic Compressor c/w new gaskets, overloads & other necessary parts		00
a.	10 – 15 TR	3,500	00
b.	20 – 25 TR	3,660	00
c.	30 – 60 TR	4,930	00
d.	61 – 75 TR	6,540	00
54.	COMPRESSOR MOTOR WHOLE ASSY.c/w THERMISETER THERMOSTAT 415V, 3PH, 50Hz		
a.	Compressor Motor Carrier or York KA13-0075-CAG	5,960	00
b.	Compressor Motor 10TR any brand	5,960	00

ITEM NO	DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	cts
55.	REFRIGERANT GAS, etc.....		
a.	Refrigerant R11 /Kg	33	00
b.	Refrigerant R12 /Kg	24	00
c.	Refrigerant R22 /Kg	33	00
d.	Refrigerant R134a,407,404,410A /Kg	48	00
e.	Nitrogen /Kg	18	00
56.	COMPRESSOR OIL (YORK/SUNISO/CARRIER) suitable for refrigerant systems R11,R12, R22 & R134a / litre	150	00
57.	Moisture & Liquid Indicator (Sight Glass)		
a.	3/8 " - 1/2 "	182	00
b.	5/8 " - 1 1/8 "	157	00
58.	Re-insulation of Ducting with 2"/2lbs. Fiber glass c/w aluminum foil	480	00
59.	To fabricate, supply & install Ducting c/w 2"/2lbs. Fiber glass & aluminum foil	580	00
60.	To fabricate, supply & install Ducting aeroflex	580	00
61.	Re-insulation of AHU panel with 1 " thick Aeroflex or Superlon	610	00
62.	Re-insulation of AHU panel with 2 " thick Aeroflex or Superlon	655	00
63.	Re-insulation of suction line and drain line with Aeroflex / Superlon c/w denso tape	282	00
64.	Re-insulation of Chilled water pipe or other approved pipe insulation c/w 22G Aluminum sheet cladding & painting wall thickness 3" density 2 lbs / m ²		
a.	Pipe size 3 – 5 "dia	480	00
b.	Pipe size 6 – 9 " dia	480	00
c.	Pipe size 10 – 12 " dia	510	00
d.	Pipe size below 3 " dia. (with approved insulation for indoor use, 1 1/2 " - 2 " thick c/w vapour barrier). Aeroflex / Superlon / m ²	150	00
65.	Re-insulation of Chilled water pipe c/w pre-formed polystyrene foam pipe insulation with steel wire mesh and and hard setting cement for pipe size greater than 3 " / m ²	420	00
66.	Liquid line solenoid valve c/w solenoid coil (24/110/240V 50Hz) Any size	650	00
67.	Hand valves for Refrigerant line size less than 2" / m ²	120	00
68.	PVC drain pipe c/w fittings (bends, elbows, traps, tees etc...)		
a.	Pipe size below 1 1/2 " dia.	180	00
b.	Pipe size 1 5/8 " - 2 " dia.	180	00
c.	Pipe size 2 1/4 " - 4 " dia.	220	00
69.	G.I drain pipe c/w fittings (bends,elbows, traps, tees welding & brazing etc.... 1/2 " - 3 "	250	00

ITEM NO	DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	cts
70.	Hi Pressure Cut out seitch 0 – 400 psig auto/manual reset	686	00
71.	Lo Pressure Cut out seitch 0 – 400 psig auto/manual reset	684	00
72.	Oil Pressure Control switch auto/manual reset	886	00
73.	Dial Pressure gauge 3 – 4 inch dia. 0 – 60 psig	325	00
74.	Compressor unloader solenoid coil 120/240 VAC 50Hz York or equivalent	985	00
75.	Refrigerant Suction line filter Drier		
a.	½ “ - ⅝” ODF	270	00
b.	¾ “ - ⅞” ODF	289	00
c.	⅞ “ - 1” ODF	320	00
76.	Replaceable Core Type Filter Drier Shell only		00
a.	C485 ⅝” ODF	300	00
b.	C487 ⅞” ODF	350	00
c.	C489G 1⅞ “ ODF	400	00
d.	C9611G 1⅜ “ ODF	400	00
e.	C9613G 1⅝ “ ODF	480	00
f.	C19217 2⅞ “ ODF	480	00
77.	Supply & install Cooling Tower Intake Louvers		00
a.	Kuken 300, 400, 1000	1890	00
78.	Gate Valve		00
a.	3 “ dia.	480	00
b.	4 “ dia.	480	00
c.	5 “ dia.	660	00
d.	8 “ dia.	750	00
e.	10 “ dia.	880	00
f.	12 “ dia.	950	00
g.	14 “ dia.	1080	00
79.	Cooling Tower Infill		
a.	Kuken 300, 400, 1000	3900	00

ITEM NO	DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	cts
80.	Strainer Whole Assembly		
a.	Strainer ½ “	250	00
b.	Strainer ⅝”	280	00
c.	Strainer 2 “	290	00
d.	Strainer 3 “	320	00
e.	Strainer 4 “	340	00
81.	Air Vent ½ “ dia.	395	00
82.	Air Vent 1 “ dia.	395	00
83.	Single PVC cable surface wiring in GI Metal Conduit with Trunking breaking rate 600VAC b50Hz		00
a.	1.5 mm ²	15	00
b.	2.5 mm ²	15	00
c.	4 mm ²	18	00
d.	6 mm ²	20	00
e.	10 mm ²	25	00
f.	16 mm ²	30	00
g.	25 mm ²	37	00
h.	35 mm ²	47	00
i.	50 mm ²	57	00
84.	4-Core Armoured cable PVC/SWA/PVC, XPLE wiring on heavy gauge Epoxy coated G.I. metal trunking c/w aluminum, saddles, steel brackets, gland, cable lug, shrinking insulation, etc..... rating: 1000VAC, 3Ph, 50Hz		
a.	1.5 mm ²	150	00
b.	2.5 mm ²	150	00
c.	4 mm ²	180	00
d.	6 mm ²	240	00
e.	10 mm ²	250	00
f.	16 mm ²	250	00
g.	25 mm ²	270	00
h.	35 mm ²	295	00
i.	50 mm ²	320	00
j.	70 mm ²	380	00
k.	95 mm ²	425	00
l.	120 mm ²	398	00
m.	150 mm ²	415	00
n.	185 mm ²	435	00
o.	240 mm ²	488	00

ITEM NO	DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	cts
85.	310 Replaceable Air Pre-Filters, disposable, adhesive coated fiber glass with resistance not less than 80%		
a.	24" X 24" X 2 "	998	00
b.	12" X 24 X 2 "	848	00
86.	Replaceable Air Pre-Filters, as above in Roll Form 2"thick and approx 65 ft. long by 6 ft wide or offer.	1500	00
87.	Medium Efficiency Filter Ultra fine glass fiber media suitably supported and reinforced, initial resistance (clean) shall be 4"w.g.@ 500Rpm air velocity dust spot efficiency 85% suitable for insulation in AAF ASTROSEAL or as approved by BESS.		
a.	24" X 24" X 12 "	780	00
b.	24" X 12" X 12 "	720	00
88.	High Efficiency filter HEPA type in metal frame water proofed, fire retardant, efficiency not less than 95% by DOP initial resistance not less than 1"w.g.		
a.	24" X 24" X 12 "	895	00
b.	24" X 12" X 12 "	780	00
89.	Fine Dust filters LUWA FP-85-P305	260	00
90.	Fine Dust filters LUWA FP-85-P610	360	00
91.	Ultra Fine V- filters LUWA 412350070	380	00
92.	Bearing over 4 " including holes (pillow, block, flange and others)	1780	00
93.	Resurfacing of Shaft for AHU motors	8780	00
94.	Resurfacing of Shaft for Pump motors	9780	00
95.	Materials for repairing leaks. To provide all the required materials to repair all leaks, install new compressor c/w oil & gas or overhaul to working order as instructed by designated officer, Labour charge are no chargeable.	18000	00
96.	Cooling Tower (LBC 1000, 400, 300)		
a.	Repair Cooling Tower Basin leaks with fiber glass and resin (whole)	3600	00
b.	Float valve c/w float assembly	4900	00
	Spares for York Screw Chiller R22 Model No. YSDBDA S35 CFA. Capacity 250 TR	6800	00
97.	Valve Butterfly 300 R22 S3 compressors part no.022-08848-000	1800	00
98.	Shim motor mounting part n. 066-87439-000	780	00
99.	Shim motor mounting part n. 066-92388-000	780	00
100.	Shim motor mounting part n. 066-92389-000	890	00
101.	Compressor S3 Oil separator part no. 376-74210-000 / litres	195	00
102.	Cooler with standard compant water boxes DB (cooler code)		00
a.	1 pass channel (gasket type). /m	680	00
b.	2 pass channel (gasket type). /m	888	00
c.	3 pass channel (gasket type). /m	1800	00

ITEM NO	DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	cts
103	Condenser with standard compant water boxes DA (condenser code)		
a.	1 pass channel (gasket type) / m	680	00
b.	2 pass channel (gasket type) / m	880	00
104	Packing 1250 GPM Crane	800	00
105	ACR Smart Reader Data Logger	950	00
106	Camfil Absolute Filters Type MDEPA, Air velocity 0.186 m ³ /S 670 m ³ /h, 250Pa		
a.	Size 457mm x 457mm x 150mm	920	00
b.	Size 610mm x 610mm x 150mm	1310	00
107	Alpha Cell HEPA Filters ACG2-122412 Size 12' x 24' x 11.5'	1490	00
108	Supply and install Screw Chiller Solenoid Coil Part No.951A0056H03 (451850)	2312	00
111	Fan motor DX Condensing Unit P/N. 024-18397-700	7377	00
112	S.C.R. controller for Solid Sate Starter	2815	00

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ITEM NO	DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	cts
113	Local Interface Device CES013C036	898	00
114	S.C.R.	898	00
130	Thermostatic Expansion Valve		
a.	5 – 10 TR	1805	00
b.	11 – 30 TR	2805	00
c.	31 – 50 TR	3300	00
d.	51 – 75 TR	4800	00
e.	76 – 96 TR	5500	00
115	Electronic Expansion Valve (Carrier Chiller) Mod no: 30GT120-910	8900	00
116	Thermistor	890	00
117	Microprocessor Board	9200	00
118	C.P.C. Sensor	2800	00
119	Relay Board	3500	00
120	Compressor Service Valve		
a.	½ - ¾ “	685	00
b.	7/8 - 1 1/8 ”	785	00
c.	1 3/8 - 2 1/8 ”	854	00
121	Semi Hermetic compressor (Carrier) D6E4265-275-299 (R134A)	45000	00
122	York / Carrier / Daikin Air Cooled Chiller		00
a.	York/carrier / Daikin Compressor 70-85 TR Complete set	98,000	00
b.	Power Relay Board	3500	00
c.	Microprocessor Board	9200	00
d.	Transducer Oil, LP, HP	2900	00
e.	Condenser Fan Speed Controller	200	00
123	To rewind stator coil for Compressor York/Carrier or any brand		
a.	40Hp – Upwards	5100	00
124.	To rewind condensing fan motors 1.0Hp 415V with new bearing	780	00
125.	AIR HANDING UNIT brand York/Daikin/Carrier or any make		
a.	AHU smoke detector	1800	00
b.	Air Filter	380	00
c.	Actuator for AHU	3884	00
d.	Temperature sensor for AHU	3100	00
e.	Pressure gauge for AHU	970	00

ITEM NO	DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	cts
126	AHU belting with any types and size	118	00
127	FAN COIL UNIT brand York/Daikin/Carrier or any make		
a.	Valve actuator	600	00
b.	FCU smoke detector	490	00
128.	Fuses up to include 100Amps (HRC) and re-wireable	38	00
129	Condensing Motor Bearing	178	00
130	Indicator bulbs of all type for switch board	105	00
131	Water pump gland packing/shaft seal/mechanical seal	4500	00
132	Filter Drier Core H48	484	00
133	Compressor Oil 3GS / litres	150	00
134	Piston Ring (Coil /Compression)	690	00
135	Suction Valve Plate Assy	780	00
136	Discharge Valve Plate	890	00
137	Expansion Valve : 70TR to upwards	8500	00
138	Thermistor Sensor	890	00
139	Discharge Transducer	2800	00
140	Suction Transducer	2800	00
141	Suction Valve Spring	260	00
142	Discharge Valve Spring	3890	00
143	Piston Assy	1900	00
144	Connection Rod Assy	350	00
145	Pump Bearing	300	00
146	Pump Motor Bearing	3900	00
147	Pump Mechanical Seal	2800	00
148	Overhauling Gasket Set	1900	00
149	Water Flow Switch	2500	00
150	Descaling chiller barrel c/w gasket set and chemical (upto200 ton)	5800	00
151	Descaling chiller barrel c/w gasket set and chemical (above 2 00 ton)	6800	00
152	Annual servicing chiller c/w gasket set and oil (upto 500 ton) by manufacture specialist	25000	00
153	Overhauling of chilled/ cond water pump c/w bearing , mech seal etc	10800	00

ITEM NO	DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	cts
154	Control Valve (2 way)		
A	25 mm screwed	1,350	00
B	32 mm screwed	1,680	00
C	40 mm screwed	2,228	00
D	50 mm screwed	2,598	00
E	65 mm flange end	3,888	00
F	80 mm flange end	4,232	00
G	100 mm flange end	4,378	00
H	150 mm flange end	4,598	00
155	Check Valve		
A	25 mm screwed	1,025	00
B	32 mm screwed	1,485	00
C	40 mm screwed	2,198	00
D	50 mm screwed	2,530	00
E	65 mm flange end	2,852	00
F	80 mm flange end	3,728	00
G	100 mm flange end	4,000	00
H	150 mm flange end	4,250	00
156	Control Valve (Three way)		
A	25 mm screwed	1,472	00
B	32 mm screwed	1,980	00
C	40 mm screwed	2,185	00
D	50 mm screwed	2,472	00
E	65 mm flange end	2,890	00
F	80 mm flange end	3,312	00
G	100 mm flange end	3,832	00
H	150 mm flange end	4,580	00
157	Thermostat	580	00

ITEM NO	DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	cts
158	Pulley 4"-12"	1650	00
159	Cassette type FCU Drain Pump	200	00
160	Replace GI Pipe c/w fittings ¾" - 2 " / metre	180	00
161	Inverter PCB/Outdoor		
A	4 HP	620	00
B	5 HP	670	00
C	6 HP	750	00
162	Compressor PCB		
A	4 HP	780	00
B	5 HP	830	00
C	6 HP	880	00
163	Inverter FCU PCB/ Indoor		
A	4 HP	680	00
B	5 HP	800	00
C	6 HP	880	00

I / we, the undersigned, are willing to contract for Minor Airconditioning Corrective Works at Universiti Brunei Darussalam as may be ordered from time to time for the period of **one(1) year** or when the contract amount is not exceeding **fifty thousand Brunei dollar(\$50,000.00)**, which ever come first.

*** (+) PLUS / (-) MINUS% (.....PERCENTUM)**

Defects liability period shall be **6 months**

Contract period:

One (1) year or when the contract amount is not exceeding fifty thousand Brunei dollar (\$50,000.00), which ever come first

Validity Offer:

6 (Six) Months (from the date of quotation)

From:



Contract / Address:

(Official Chop / Signature)

.....

Tel. (off):

.....

H/phone:

.....

Class / Category:

Fax. No:

