

SUMMARY OF TENDER

Tajuk / Title **TERM CONTRACT FOR PREVENTIVE AND CORRECTIVE MAINTENANCE FOR MECHANICAL AND ELECTRICAL WORKS FOR MASJID UNIVERSITI, UNIVERSITI BRUNEI DARUSSALAM FOR A PERIOD OF ONE (1) YEAR**

Bil. Tawaran **UBD/Q/192/2026-[G]**

Tender No.

Bil. No.	Keterangan / Description	Unit Unit	Kadar Rate	Kuantiti Quantity	Jumlah /Amount (\$) (RM)
A	<u>SCHEDULE A (PREVENTIVE MAINTENANCE WORKS)</u>				
1	Provision of comprehensive, routine preventive maintenance (PM) services for all Mechanical and Electrical (M&E) installations at Masjid Universiti. The scope covers all monthly routine and not limited to the inspection, preventive maintenance, servicing, and cleaning of all air-conditioning systems including DX split units, ductwork, filters, evaporator coils, condensate drain pipes, and control panels as well as checking and all routine maintenance and not limited to the electrical distribution systems, DBs / MSBs, high-ceiling and normal lighting systems, power outlets, and ground systems; inside, outside and compound lighting system. The services shall include attendance in reporting breakdowns, faults and defect; troubleshooting, testing and rectification works; checking and restoring equipment to normal operating condition; and repeated attendance as required by the Client. The Contractor shall provide all necessary qualified supervision, skilled technicians, transport, specialised tools, testing equipment, and all required safe access equipment; including their own approved scaffolding, mobile staging towers, ladders, safety harnesses, and personal protective equipment (PPE); necessary to safely access and service high-level units, light fittings, and overhead ductwork. The erection, dismantling, and safety compliance of all scaffolding shall be fully borne by the Contractor. All assigned personnel MUST hold and maintain valid E01, E02, and M01 passes / certifications issued by the relevant authorities throughout the contract duration. The Contractor shall also provide 24/7 standby and on-call attendance during official university events, Friday prayers, or other events whenever requested by the Client. A written service / maintenance report shall be submitted after each servicing, inspection, breakdown attendance or maintenances visit, detailing the equipment attended to, condition / fault identified, works carried out, materials required for normal operation and recommendations. All works shall be carried out to the satisfaction of the Client in accordance with the contract requirement. (Note: All supply of replacement parts, major repairs, and corrective breakdown rectifications shall be added separately under Schedule B - Corrective Maintenance).	months	\$1,000	12	\$ 12,000.00
TOTAL AMOUNT					\$ 12,000.00

UNIVERSITI BRUNEI DARUSSALAM
NEGARA BRUNEI DARUSSALAM

UBD/Q/192/2026 - [G]

**TERM CONTRACT FOR PREVENTIVE AND CORRECTIVE MAINTENANCE FOR MECHANICAL AND
ELECTRICAL WORKS FOR UNIVERSITI BRUNEI DARUSSALAM MOSQUE FOR A PERIOD OF ONE (1) YEAR.**

Item	Description	Unit	Rate
	<u>SCHEDULE B</u> Supply all labour, equipment, materials and tools including transportation to do the following repairworks to its good working conditions and to current good practice and make good to all works distributed to match the existing or to S.O' s satisfaction as specified below or technically approved equivalent. All debris are to be taken to Contractors own dumping site / old fitting to be kept on site as per S.O instructions. The scope of work is the electrical maintenance and repair inclusive of troubleshooting, supply or replacement, installation, testing and commissioning of the electrical services. The scope of work shall include all necessary works and accessories required for a proper execution of work and proper functioning of all electrical services installation. All electrical works shall comply with the Brunei <u>Electrical Installation Requirements standards (EIR) or latest IEE wiring regulations. All materials / fittings offered as per DES/ DME / ABCi approved type only.</u>		
I	<u>PRELIMINARIES</u>		
II	<u>ELECTRICAL WORKS</u>		
A	<u>SWITCHES & ACCESSORIES (APPROVED TYPE ONLY)</u> To supply, replace, install c/w connection and termination.		
A-1	1 gang 1 way 5A switch	NO	\$ 5.00
A-2	2 gang 1 way 5A switch	NO	\$ 10.00
A-3	3 gang 1 way 5A switch	NO	\$ 18.00
A-4	4 gang 1 way 5A switch	NO	\$ 20.00
A-5	5 gang 1 way 5A switch	NO	\$ 25.00
A-6	1 gang 2 way 5A switch	NO	\$ 8.00
A-7	2 gang 2 way 5A switch	NO	\$ 12.00
A-8	Surface 3" x 3" blank cover plate	NO	\$ 2.00
A-9	Surface 3" x 6" blank cover plate	NO	\$ 3.00
A-10	Surface 3" x 3 " mounting box	NO	\$ 2.00
A-11	Surface 3" x 6" mounting box	NO	\$ 3.00
A-12	1 gang 1 way weatherproof switch	NO	\$ 100.00
A-13	2 gang 1 way weatherproof switch	NO	\$ 150.00
A-14	Ceiling fan regulator	NO	\$ 45.00
A-15	5A Ceiling Rose	NO	\$ 6.00
A-16	Fan Hook	No	\$ 20.00
A-17	Heavy duty Junction box c/w silicon/ gasket	No	\$ 45.00

Item	Description	Unit	Rate
B	<u>SWITCH SOCKET OUTLET</u> <u>(APPROVED TYPE ONLY)</u> To supply, replace faulty part and install c/w connection and termination.		
B-1	1x13A switch socket outlet	NO	\$ 14.00
B-2	1x13A metalclad switch socket outlet	NO	\$ 25.00
B-3	2x13A switch socket outlet	NO	\$ 25.00
B-4	2x13A metalclad switch socket outlet	NO	\$ 40.00
B-5	1x15A switch socket outlet	NO	\$ 20.00
B-6	1x15A metalclad switch socket outlet	NO	\$ 40.00
B-7	20A double pole switch	NO	\$ 28.00
B-8	20A metalclad switch socket outlet	NO	\$ 45.00
B-9	20A water heater switch	NO	\$ 25.00
B-10	13A Fuse Connection Unit	NO	\$ 25.00
B-11	45A Cooker Control Unit	NO	\$ 100.00
B-12	20A SPN Isolator	NO	\$ 85.00
B-13	30A SPN Isolator	NO	\$ 150.00
B-14	20A TPN Isolator	NO	\$ 150.00
B-15	32A / 35A TPN Isolator	NO	\$ 200.00
B-16	55A TPN Isolator	NO	\$ 300.00
B-17	16A SP 24 HRS spring reserve timer	NO	\$ 180.00
B-18	6A - 10A Photocell	NO	\$ 120.00
B-19	13A 3 Pin Plug Top	NO	\$ 20.00
B-20	15A 3 Pin Plug Top	NO	\$ 25.00

Item	Description	Unit	Rate
C	<u>GENERAL LIGHTING POINT & POWER POINT</u>		
C-1	Wiring lighting point using 3x1.5mm2 pvc cable in conduit/ casing c/w 5A switch.	NO	\$ 45.00
C-2	Wiring fan point using 3x1.5mm2 pvc cable in conduit/ casing c/w 5A switch, fan hook when necessary.	NO	\$ 45.00
C-3	Wiring emergency point using 3x1.5mm2 pvc cable in conduit/casing.	NO	\$ 45.00
C-4	Wiring keluar sign point using 3x1.5mm2 pvc cable in conduit/casing.	NO	\$ 45.00
C-5	Wiring exhaust fan/wall fan point using 3x1.5mm2 pvc cable in conduit/casing c/w 5A switch	NO	\$ 45.00
C-6	Wiring heavy duty wall fan & exhaust fan using 3x2.5mm2 pvc cable in pvc conduit/casing c/w 20A switch	NO	\$ 100.00
C-7	Wiring indoor outdoor floodlight point using 3x2.5mm2 pvc cable in conduit/casing.	NO	\$ 100.00
C-8	Wiring high bay point using 3x2.5mm2 pvc cable in conduit/casing.	NO	\$ 100.00
C-9	Wiring lighting point with timer point using 3x1.5mm2 pvc cable in conduit/casing.	NO	\$ 140.00
C-10	Wiring lighting point with photocell using 3x1.5mm2 pvc cable in conduit/casing.	NO	\$ 140.00
C-11	Wiring power point using 3x2.5mm2 pvc cable in pvc conduit/casing c/w 1x13A S.S.O.	NO	\$ 70.00
C-12	2X13A S.S.O ditto	NO	\$ 80.00
C-13	Wiring a/c point using 3x4mm2 pvc cable in pvc conduit/casing c/w 20A DP Switch.	NO	\$ 200.00
C-14	Wiring cooker point using 3x6mm2 pvc cable in pvc conduit/casing c/w cooker unit.	NO	\$ 300.00
C-15	Wiring 20A SPN isolator point using 3x4mm2 pvc cable in pvc conduit/casing c/w 20A SPN isolator.	NO	\$ 300.00
C-16	Wiring 32A/35A TPN isolator point using 5x4mm2 pvc cable in conduit/casing c/w 30A/35A TPN isolator	NO	\$ 450.00

Item	Description	Unit	Rate
C-17	Wiring 32A SPN isolator point using 3x6mm2 pvc cable in conduit/casing c/w 32A SPN isolator.	NO	\$ 400.00
C-18	Wiring power point using 3x2.5mm2 pvc cable in conduit/casing c/w 1x13A S.S.O weatherproof.	NO	\$ 200.00
C-19	2x13A S.S.O weatherproof ditto	NO	\$ 230.00
C-20	Wiring lighting point using 3x1.5mm2 pvc cable in conduit/casing c/w 5A weatherproof switch	NO	\$ 120.00
C-21	2G 1W weatherproof ditto.	NO	\$ 160.00
C-22	Wiring water heater point using 3x4mm2 pvc cable in conduit/casing c/w water heater switch and 13A fuse connection unit	NO	\$ 230.00
C-23	Wiring water pump point using 3x2.5mm2 pvc cable in conduit/casing c/w 20 Dp Switch.	NO	\$ 200.00
C-24	Wiring water pump point using 3x2.5mm2 pvc cable in conduit/casing c/w 20A SPN weatherproof isolator	NO	\$ 250.00
C-25	Wiring 3 phase water pump using 5x6mm2 pvc cable in conduit/casing c/w 35A TPN weatherproof isolator	NO	\$ 600.00
C-26	Wiring telephone point c/w 2 pair cat-5 cable in pvc conduit/casing c/w telephone outlet.	NO	\$ 120.00
C-27	4 pair Ditto	NO	\$ 170.00
C-28	6 pair Ditto	NO	\$ 200.00
C-29	Wiring TV point c/w RG59 TV cable in PVC conduit/casing c/w TV outlet.	NO	\$ 200.00

Item	Description	Unit	Rate
D	<u>TO REPLACE FAULTY PART ACCESSORIES OF LIGHT FITTING / FAN / OTHERS</u>		
D-1	Clear ordinary 240V inside frosted or incandescent lamp with E27 or B22 base and candle lamp.		
i)	15W	NO	\$ 6.00
ii)	25W	NO	\$ 6.00
iii)	40W	NO	\$ 6.00
iv)	60W	NO	\$ 6.00
v)	75W	NO	\$ 8.00
vi)	100W	NO	\$ 8.00
D-2	Clear ordinary 240V inside frosted or incandescent lamp with E14 base candle lamp		
i)	15W	NO	\$ 10.00
ii)	25W	NO	\$ 10.00
iii)	40W	NO	\$ 10.00
D-3	12V 50W halogen bulb with 2 pin cable	NO	\$ 12.00
D-4	5W colour bulbs 240V 50Hz, with E27 or B22 base.	NO	\$ 3.00
D-5	15W Ditto	NO	\$ 4.00
D-6	LED light bulb c/w necessary accessories and modification if require		
i)	1W LED bulb with E27 or B22 base	NO	\$ 5.00
ii)	3W-4W LED bulb with E27 or B22 base	NO	\$ 6.00
iii)	8W LED bulb with E27 or B22 base	NO	\$ 7.00
iv)	8W 240V 2pin LED bulb	NO	\$ 5.00
v)	9W LED bulb	NO	\$ 9.00
vi)	12W-18W LED bulb c/w 30000 hrs lifespan		
	1. 590mm	NO	\$ 15.00
	2. 1200mm	NO	\$ 22.00
vii)	25W LED bulb	NO	\$ 24.00
D-7	25W reflector lamp 240V R50 type with E14 base.	NO	\$ 11.00
D-8	40W Ditto	NO	\$ 12.00
D-9	40W Ditto R63 type with E27 or B22 base.	NO	\$ 10.00
D-10	60W Ditto.	NO	\$ 10.00
D-11	75W Ditto.	NO	\$ 11.00
D-12	100W Ditto.	NO	\$ 12.50
D-13	60W PAR 38 spot and pressed glass reflector lamp 240V 50Hz with E27 base.	NO	\$ 27.00
D-14	80W Ditto.	NO	\$ 60.00
D-15	120W Ditto.	NO	\$ 70.00
D-16	70W tungsten double end type halogen lamp 240V.	NO	\$ 32.00
D-17	100W Ditto.	NO	\$ 35.00
D-18	150W Ditto.	NO	\$ 45.00
D-19	300W Ditto.	NO	\$ 55.00

Item	Description	Unit	Rate
D-20	9W 2 Pin PLC daylight/ warm white compact lamp	NO	\$ 15.00
D-21	11W Ditto.	NO	\$ 15.00
D-22	13W Ditto	NO	\$ 16.00
D-23	18W Ditto.	NO	\$ 20.00
D-24	26W Ditto.	NO	\$ 30.00
D-25	13W PLC daylight/warm white compact lamp with 4 pin base	NO	\$ 15.00
D-26	18W Ditto.	NO	\$ 20.00
D-27	26W Ditto.	NO	\$ 30.00
D-28	18W fluorescent tube 240v 50Hz.	NO	\$ 9.00
D-29	36W Ditto.	NO	\$ 9.00
D-30	65w Ditto.	NO	\$ 10.00
D-31	8w LED fluorescent tube 240v 50Hz	NO	\$ 23.00
D-32	13-16W LED fluorescent tube 240v 50Hz	NO	\$ 23.00
D-33	18-65W fluorescent S10 starter.	NO	\$ 3.50
D-34	18-65W fluorescent ballast 240v 50Hz.	NO	\$ 15.00
D-35	T5 9 - 13W fluorescent tube	NO	\$ 20.00
D-36	T5 9 - 13W fluorescent ballast	NO	\$ 35.00
D-37	Electronic Transformer for halogen lamp input: 240v 50Hz/60Hz output: 12V 20-50w	NO	\$ 50.00
D-38	11W PLC 240v 50Hz ballast.	NO	\$ 10.00
D-39	13W Ditto	NO	\$ 12.00
D-40	18W Ditto.	NO	\$ 15.00
D-41	26W Ditto.	NO	\$ 20.00
D-42	Fluorescent lamp holder for compact, lamp 240v, 50Hz.	NO	\$ 10.00
D-43	Fluorescent starter holder for compact, lamp 240v 50Hz	NO	\$ 10.00
D-44	E27 lamp holder base	NO	\$ 10.00
D-45	E40 lamp holder base	NO	\$ 20.00
D-46	B22 lamp holder base	NO	\$ 10.00
D-47	2 pin PLC holder	NO	\$ 10.00
D-48	4 pin PLC holder	NO	\$ 12.00
D-49	2 Pin 50w halogen holder	NO	\$ 10.00
D-50	9W E27/B22 energy-effective prismatic SL lamp 240v 50Hz	NO	\$ 30.00
D-51	13W Ditto.	NO	\$ 40.00
D-52	18W Ditto.	NO	\$ 45.00
D-53	26W Ditto.	NO	\$ 50.00
D-54	9W E27/B22 energy saver bulb cool daylight/warm white lamp 240v 50Hz	NO	\$ 20.00
D-55	11W Ditto.	NO	\$ 20.00
D-56	13W Ditto.	NO	\$ 20.00
D-57	18W Ditto.	NO	\$ 30.00
D-58	23W Ditto.	NO	\$ 35.00
D-59	35W Ditto.	NO	\$ 50.00
D-60	55W Ditto.	NO	\$ 60.00

Item	Description	Unit	Rate
D-61	16W 2D lamp with 2 pin cap and built in starter switch.	NO	\$ 30.00
D-62	28W 2D with 4 pin cap.	NO	\$ 35.00
D-63	Ballast for 16W 2D lamp.	NO	\$ 18.00
D-64	Ballast for 28W 2D lamp.	NO	\$ 23.00
D-65	Capacitor for 16W/28W 2D lamp.	NO	\$ 18.00
D-66	Starter for 16/28W 2D lamp.	NO	\$ 8.00
D-67	Lamp holder for 16/28W 2D lamp.	NO	\$ 15.00
D-68	22W circular fluorescent tube.	NO	\$ 18.00
D-69	32W circular fluorescent tube.	NO	\$ 25.00
D-70	40W circular fluorescent tube.	NO	\$ 25.00
D-71	Circular fluorescent tube holder	NO	\$ 12.00
D-72	70W high pressure SON/T lamp 240V 50Hz.	NO	\$ 48.00
D-73	150W SON/T Ditto.	NO	\$ 55.00
D-74	250W SON/T Ditto.	NO	\$ 70.00
D-75	400W SON/T Ditto.	NO	\$ 85.00
D-76	70W metal halide lamp 240v, 50Hz.	NO	\$ 45.00
D-77	150W MH lamp Ditto.	NO	\$ 60.00
D-78	250W MH lamp Ditto.	NO	\$ 70.00
D-79	400W MH lamp Ditto.	NO	\$ 80.00
D-79i	1000W MH lamp Ditto.	NO	\$ 250.00
D-80	150W high mercury lamp 240v 50Hz.	NO	\$ 60.00
D-81	250W Ditto.	NO	\$ 80.00
D-82	400W Ditto.	NO	\$ 100.00
D-83	70W / 400W ignitor for high pressure lamp and MH lamp	NO	\$ 28.00
D-83i	1000W ignitor for high pressure and MH lamp	NO	\$ 85.00
D-84	70W ballast for high pressure lamp.	NO	\$ 50.00
D-85	150W Ditto.	NO	\$ 60.00
D-86	250W Ditto.	NO	\$ 90.00
D-87	400W Ditto.	NO	\$ 100.00
D-88	70W ballast for metal halide lamp	NO	\$ 50.00
D-89	150W Ditto.	NO	\$ 60.00
D-90	250W Ditto.	NO	\$ 90.00
D-91	400W Ditto.	NO	\$ 100.00
D-91i	1000W Ditto.	NO	\$ 250.00
D-92	15UF Capacitor for 70W floodlight	NO	\$ 38.00
D-93	20UF Capacitor for 150W floodlight	NO	\$ 45.00
D-94	25UF Capacitor for 250W floodlight	NO	\$ 48.00
D-95	32UF Capcitor for 400W floodlight	NO	\$ 50.00
D-95i	50-100UF Capacitor for 1000W floodlight	NO	\$ 100.00

Item	Description	Unit	Rate
D-96	35W LED PAR Lamp	NO	\$ 72.00
D-97	1 tube electronic ballast	NO	\$ 50.00
D-98	2 tube electronic ballast	NO	\$ 70.00
D-99	3 tube electronic ballast	NO	\$ 100.00
D-100	1.8UF - 3UF fan capacitor	NO	\$ 10.00
D-101	Linear LED Light 800-1200mm c/w accessories & driver		
i)	20W	NO	\$ 28.00
ii)	30W	NO	\$ 32.00
iii)	40W	NO	\$ 35.00
D-102	LED Strip Light Cover/Profile either surface mounted, recessed, ground & corner type c/w accessories	MTR	\$ 3.00
E	<u>SUPPLY AND INSTALLATION, CHECKING OF XLPE/SWA/PVC CABLE LAID UNDERGROUND and MAKING GOOD.</u>		
E-1	2C/1.5mm2 PVC/SWA/PVC cable	MTR	\$ 10.00
E-2	2C/2.5mm2 PVC/SWA/PVC cable	MTR	\$ 15.00
E-3	2C/4mm2 PVC/SWA/PVC cable	MTR	\$ 18.00
E-4	2C/6mm2 PVC/SWA/PVC cable	MTR	\$ 20.00
E-5	2C/10mm2 PVC/SWA/PVC cable	MTR	\$ 22.00
E-6	2C/16mm2 PVC/SWA/PVC cable	MTR	\$ 25.00
E-7	2C/25mm2 PVC/SWA/PVC cable	MTR	\$ 30.00
E-8	2C/35mm2 PVC/SWA/PVC cable	MTR	\$ 33.00
E-9	4C/2.5mm2 PVC/SWA/PVC cable	MTR	\$ 10.00
E-10	4C/4mm2 Ditto	MTR	\$ 15.00
E-11	4C/6mm2 Ditto	MTR	\$ 19.00
E-12	4C/10mm2 Ditto	MTR	\$ 27.00
E-13	4C/16mm2 Ditto	MTR	\$ 36.00
E-14	4C/25mm2 Ditto	MTR	\$ 48.00
E-15	4C/35mm2 Ditto	MTR	\$ 60.00
E-16	4C/50mm2 Ditto	MTR	\$ 80.00
E-17	4C/70mm2 Ditto	MTR	\$ 90.00
E-18	4C/95mm2 Ditto	MTR	\$ 120.00
E-19	4C/120mm2 Ditto	MTR	\$ 145.00
E-20	4C/150mm2 Ditto	MTR	\$ 170.00
E-21	4C/185mm2 Ditto	MTR	\$ 220.00
E-22	4C/240mm2 Ditto	MTR	\$ 295.00
E-23	1C/300mm2 XLPE/SWA/PVC	MTR	\$ 115.00
E-24	1C/400mm2 XLPE/SWA/PVC	MTR	\$ 160.00
E-25	1C/500mm2 XLPE/SWA/PVC	MTR	\$ 200.00
E-26	1C/300mm2 XLPE/AWA/PVC	MTR	\$ 130.00
E-27	1C/400mm2 XLPE/AWA/PVC	MTR	\$ 180.00
E-28	1C/500mm2 XLPE/AWA/PVC	MTR	\$ 220.00
E-29	To supply and install LT Straight Through Joint for PVC or XLPE armoured cable for the following sizes:-		
a	Up to 25mm2/2C	NO	\$ 150.00
b	Up to 25mm2/4C	NO	\$ 180.00
c	35 to 70mm2/4C	NO	\$ 250.00
d	95 to 150mm2/4C	NO	\$ 800.00
e	185 to 300mm2/4C	NO	\$ 1,000.00
f	300 to 500mm2/1C	NO	\$ 1,300.00
E-30	To hack and break existing pavement c/w encased mass concrete surround.	MTR	\$ 120.00
E-31	To cut and digging existing pavement.	MTR	\$ 100.00
E-32	Provide 50mm2 dia UPVC pipe sleeves.	MTR	\$ 40.00
E-33	100mm2 dia. Ditto	MTR	\$ 78.00
E-34	150mm2 dia. Ditto	MTR	\$ 90.00

Item	Description	Unit	Rate
E-35	Excavation of cable trench approx. 750mm wide x 750mm deep of soft ground c/w backfilling and making good.	MTR	\$ 15.00
E-36	Supply and installation of pvc cable in metal trunking (Metal trunking separate).		
a	2x1C/10mm2 + 10mm2 ECC cable.	MTR	\$ 10.00
b	2x1C/16mm2 + 10mm2 ECC cable.	MTR	\$ 16.00
c	2x1C/25mm2 + 16mm2 ECC cable.	MTR	\$ 24.00
d	2x1C/35mm2 + 25mm ECC cable.	MTR	\$ 30.00
e	2x1C/50mm2 + 35mm2 ECC cable.	MTR	\$ 40.00
f	4x1C/10mm2 + 10mm2 ECC cable.	MTR	\$ 30.00
g	4x1C/16mm2 + 10mm2 ECC cable.	MTR	\$ 40.00
h	4x1C/25mm2 + 16mm2 ECC cable.	MTR	\$ 52.00
i	4x1C/35mm2 + 25mm2 ECC cable.	MTR	\$ 64.00
j	4x1C/50mm2 + 35mm2 ECC cable.	MTR	\$ 85.00
k	4x1C/70mm2 + 50mm2 ECC cable.	MTR	\$ 95.00
l	4x1C/95mm2 + 70mm2 ECC cable.	MTR	\$ 130.00
m	4x1C/120mm2 + 95mm2 ECC cable.	MTR	\$ 150.00
E-37	Supply and installation of pvc insulated (GREEN) Earth Wire		
a	1 x16mm2	MTR	\$ 10.00
b	1x25mm2	MTR	\$ 15.00
c	1x35mm2	MTR	\$ 20.00
d	1x50mm2	MTR	\$ 25.00
e	1x70mm2	MTR	\$ 35.00
f	1x95mm2	MTR	\$ 45.00
g	1x120mm2	MTR	\$ 60.00
E-38	Supply and installation of metal trunking/pvc trunking c/w bracket support.		
a	50mm x 25mm	MTR	\$ 25.00
b	50mm x 50mm	MTR	\$ 26.00
c	75mm x 50mm	MTR	\$ 26.00
d	100mm x 50mm	MTR	\$ 35.00
e	100mm x 75mm	MTR	\$ 40.00
f	100mm x 100mm	MTR	\$ 48.00
g	75mm x 150mm	MTR	\$ 60.00

Item	Description	Unit	Rate
E-39	Supply and installation of cable tray c/w tray earth link and other accessories c/w bracket support.		
a	50mm	MTR	\$ 10.00
b	75mm	MTR	\$ 18.00
c	100mm	MTR	\$ 25.00
d	150mm	MTR	\$ 33.00
e	200mm	MTR	\$ 40.00
f	250mm	MTR	\$ 52.00
E-40	Disconnect and dismantle and remove existing, underground cable trunking, cable tray.	MTR	\$ 15.00
E-41	To check, rectify, mega faulty part of cable per length.	LOT	\$ 450.00
E-42	Supply and install main 'Earth' electrode 16 mm dia x 3.6 m copper clad steel core rod c/w brass copper clamp, identification tag with the word 'ELECTRICAL EARTH - DO NOT REMOVE' and hot dip galvanised inspection pit fitted with hinged cover.	LOT	\$ 600.00
F	<u>DISTRIBUTION BOARD COMPONENTS AND OTHER ACCESSORIES</u>		
F-1	6A - 32A MCB's	NO	\$ 20.00
F-2	40A 2P RCD/30MA	NO	\$ 120.00
F-3	63A 2P RCD/30MA	NO	\$ 150.00
F-4	100A 2P RCD/30MA	NO	\$ 250.00
F-5	40A 4P RCD/30MA	NO	\$ 180.00
F-6	63A 4P RCD/30MA	NO	\$ 250.00
F-7	100A 4P RCD/30MA	NO	\$ 250.00
F-8	Earth leakage relay c/w shuntrip	NO	\$ 900.00
F-9	Earth fault relay c/w shuntrip	NO	\$ 1,200.00
F-10	Over current relay	NO	\$ 1,800.00
F-11	Ammeter	NO	\$ 100.00
F-12	Voltmeter	NO	\$ 100.00
F-13	Ammeter selector switch 6 position rotary switch	NO	\$ 150.00
F-14	Voltmeter selector switch 6 position rotary switch	NO	\$ 150.00
F-15	10A 2 pole MCB (10KA)	NO	\$ 80.00
F-16	20A 2 pole MCB (10KA)	NO	\$ 90.00
F-17	30A 2 pole MCB (10KA)	NO	\$ 100.00
F-18	40A 2 pole MCB (10KA)	NO	\$ 120.00
F-19	80A 2 pole MCB (10KA)	NO	\$ 180.00
F-20	100A 2 pole MCB (10KA)	NO	\$ 200.00

Item	Description	Unit	Rate
F-21	40A TPN MCCB (10KA)	NO	\$ 180.00
F-22	80A TPN MCCB (10KA)	NO	\$ 300.00
F-23	100A TPN MCCB (25KA)	NO	\$ 500.00
F-24	150A TPN MCCB (25KA)	NO	\$ 800.00
F-25	200A TPN MCCB (25KA)	NO	\$ 850.00
F-26	250A TPN MCCB (25KA)	NO	\$ 950.00
F-27	300A TPN MCCB (36KA)	NO	\$ 1,350.00
F-28	400A TPN MCCB (50KA)	NO	\$ 1,500.00
F-29	500A TPN MCCB (50KA)	NO	\$ 2,000.00
F-30	600A TPN MCCB (50KA)	NO	\$ 3,500.00
F-31	800A TPN MCCB (50KA)	NO	\$ 4,500.00
F-32	1000A ACB (50KA)	NO	\$ 9,500.00
F-33	2000A ACB (50KA)	NO	\$ 18,000.00
F-34	2500A ACB (50KA)	NO	\$ 25,000.00
F-35	Metal enclosure for all type MCCB c/w neutral link	NO	\$ 600.00
F-36	60A Neutral Link with insulated base	NO	\$ 20.00
F-37	100A Neutral Link with insulated base	NO	\$ 30.00
F-38	63A Cut Out fuse with base	NO	\$ 100.00
F-39	100A Cut Out fuse with base	NO	\$ 120.00
F-40	63A TPN sealing chamber cut-out fuse	NO	\$ 300.00
F-41	100A TPN sealing chamber cut-out fuse	NO	\$ 350.00
F-42	Cable lug 4mm2 - 16mm2	NO	\$ 15.00
F-43	Cable lug - 16mm2 - 35mm2	NO	\$ 25.00
F-44	Cable lug - 50mm2 - 120mm2	NO	\$ 40.00
F-45	Cable lug - 150mm2 - 240mm2	NO	\$ 60.00
F-46	20A 3 Pole Contactor	NO	\$ 95.00
F-47	40A 3 Pole Contactor	NO	\$ 120.00
F-48	63A 3 pole Contactor	NO	\$ 150.00
F-49	80A 3 pole Contactor	NO	\$ 200.00
F-50	100A 3 pole Contactor	NO	\$ 300.00
F-51	2A - 5A HRC Fuse Link	NO	\$ 20.00
F-52	60A HRC Fuse Link	NO	\$ 50.00
F-53	100A HRC Fuse Link	NO	\$ 80.00
F-54	100A copper busbar for 1 pole MCB	NO	\$ 38.00
F-55	40A TPN MCCB in metal enclosure Distribution board c/w 3xRCD/30MA 18 ways MCB.	NO	\$ 480.00
F-56	63A TPN MCCB 18 ways Ditto	NO	\$ 700.00
F-57	100A TPN MCCB 18 ways Ditto	NO	\$ 1,000.00

Item	Description	Unit	Rate
F-58	40A TPN MCCB in metal enclosure Distribution Board c/w 3xRCD/30MA 21 ways MCB's.	NO	\$ 550.00
F-59	63A TPN MCCB 21 ways Ditto	NO	\$ 800.00
F-60	100A TPN MCCB 21 ways Ditto	NO	\$ 1,300.00
F-61	40A TPN MCCB 24 ways Ditto	NO	\$ 680.00
F-62	63A TPN MCCB 24 ways Ditto	NO	\$ 1,000.00
F-63	63A TPN MCCB 36 ways Ditto	NO	\$ 1,500.00
F-64	100A TPN MCCB 24 ways Ditto	NO	\$ 1,800.00
F-65	100A TPN MCCB 36 ways Ditto	NO	\$ 2,000.00
F-66	150A TPN MCCB 24 ways Ditto	NO	\$ 3,000.00
F-67	150A TPN MCCB 36 ways Ditto	NO	\$ 3,200.00
F-68	40A SPN MCCB in metal enclosure Distribution Board c/w 1 no. RCD/30MA, 8 ways MCB's	NO	\$ 380.00
F-69	60A SPN MCB - 8 ways Ditto	NO	\$ 480.00
F-70	40A SPN MCB - 10 ways Ditto	NO	\$ 420.00
F-71	63A SPN MCB - 10 ways Ditto	NO	\$ 580.00
F-72	40A SPN MCB - 12 ways Ditto	NO	\$ 550.00
F-73	63A SPN MCB - 12 ways Ditto	NO	\$ 680.00
F-74	40A TPN MCCB in metal enclosure Distribution Board c/w 3xRCD/30MA 18 ways MCB, timer, photocell, contactor, 2A fuse.	NO	\$ 850.00
F-75	63A TPN MCCB - 18 WAYS Ditto	NO	\$ 1,500.00
F-76	63A TPN MCCB - 24 WAYS Ditto	NO	\$ 2,000.00
F-77	63A TPN MCCB - 36 WAYS Ditto	NO	\$ 2,200.00
F-78	40A TPN MCCB - 24 WAYS Ditto	NO	\$ 1,300.00
F-79	100A TPN MCCB - 24 WAYS Ditto	NO	\$ 3,300.00
F-80	100A TPN MCCB - 36 WAYS Ditto	NO	\$ 3,500.00
F-81	40A SPN MCCB - 10 WAYS Ditto	NO	\$ 680.00
F-82	63A SPN MCCB - 10 WAYS Ditto	NO	\$ 950.00
F-83	40A SPN MCCB - 12 WAYS Ditto	NO	\$ 1,000.00
F-84	63A SPN MCCB - 12 WAYS Ditto	NO	\$ 1,200.00
F-85	CT Meter 200A to 1200A liase with DES	NO	\$ 4,000.00
F-86	Single Phase Prepaid Meter liase with DES	NO	\$ 500.00
F-87	Three Phase Prepaid Meter liase with DES	NO	\$ 800.00
F-88	Digital Type Trip Unit for ACB incorporated multi functional time setting and multi functional curve setting for IDMTL Earth Fault Relay and IDMTL Overcurrent Relay, include program as per site condition, modification, connection of all control wirings, control cable for current transformers, control tray and shunt trip coil c/w necessary works and accessories required.		
a	For ACB less than 1600A	NO	\$ 18,000.00
b	For ACB more than 1800A	NO	\$ 20,000.00
F-89	Padlock and chain for main switch room / transformer room	NO	\$ 150.00
F-90	Standard Electrical Safety Signages	NO	\$ 150.00

Item	Description	Unit	Rate
G	<u>LIGHT FITTING, FANS & OTHERS (APPROVED TYPE ONLY)</u> Supply, delivery and install as follows:-		
G-1	1x18W fluorescent surface batten fitting c/w day light tube, 240v 50Hz ballast, capacitor, starter etc.	NO	\$ 30.00
G-2	1x36W Ditto	NO	\$ 35.00
G-3	1x65W Ditto	NO	\$ 100.00
G-4	1X8W LED fluorescent surface batten fitting c/w day light tube	NO	\$ 35.00
G-5	1x16W Ditto	NO	\$ 38.00
G-6	2x16W Ditto	NO	\$ 55.00
G-7	2x18W fluorescent surface batten fitting c/w daylight tube, 240v 50Hz, ballast, capacitor, starter etc.	NO	\$ 48.00
G-8	2x36W Ditto	NO	\$ 55.00
G-9	2x65W Ditto	NO	\$ 130.00
G-10	1x18W metal reflector surface fluorescent batten fitting c/w daylight tube, 240v 50Hz, ballast, capacitor, starter etc	NO	\$ 38.00
G-11	1x36W Ditto	NO	\$ 45.00
G-12	2x18W Ditto	NO	\$ 65.00
G-13	2x36W Ditto	NO	\$ 70.00
G-14	3x36W Ditto	NO	\$ 120.00
G-15	4X36w Ditto	NO	\$ 150.00
G-16	2x18W Surface mirror louver type fluorescent fitting c/w daylight tube, 240v 50Hz, ballast, capacitor, starter etc.	NO	\$ 80.00
G-17	3x18W Ditto	NO	\$ 140.00
G-18	4x18W Ditto	NO	\$ 180.00
G-19	2x36W Ditto	NO	\$ 135.00
G-20	3x36W Ditto	NO	\$ 160.00
G-21	4x36W Ditto	NO	\$ 180.00
G-22	2x18W recessed type fluorescent fitting c/w daylight tube, 240v 50Hz, ballast, capacitor, starter etc.	NO	\$ 90.00
G-23	3x18w Ditto	NO	\$ 140.00
G-24	4x18W Ditto	NO	\$ 188.00
G-25	2x36W Ditto	NO	\$ 135.00
G-26	3x36W Ditto	NO	\$ 160.00
G-27	4x36W Ditto	NO	\$ 180.00
G-28	1x18W Surface IP54 weatherproof fluorescent fitting c/w daylight tube, 240v 50Hz ballast, capacitor, starter etc.	NO	\$ 65.00
G-29	2x18W Ditto	NO	\$ 100.00
G-30	1x36W Ditto	NO	\$ 80.00
G-31	2x26W Ditto	NO	\$ 120.00
G-32	150W High bay fitting with polycarbonate reflector, 240v 50Hz mercury bulbs, control gear, ignitor, capacitor and chain.	NO	\$ 350.00
G-33	250W Ditto	NO	\$ 460.00
G-34	400W Ditto	NO	\$ 550.00

Item	Description	Unit	Rate
G-35	150W High bay fitting with polycarbonate reflector, 240v 50Hz metal halide lamp, control gear, ignitor, capacitor and chain.	NO	\$ 380.00
G-36	250W Ditto	NO	\$ 450.00
G-37	400W Ditto	NO	\$ 520.00
G-38	50W LED Compound lighting complete with bracket (design to be approved by S.O)	NO	\$ 620.00
G-39	70W Ditto	NO	\$ 700.00
G-40	90W Ditto	NO	\$ 820.00
G-41	100W Ditto	NO	\$ 890.00
G-42	70W metal halide lamp Ditto	NO	\$ 250.00
G-43	150W Ditto	NO	\$ 380.00
G-44	250W Ditto	NO	\$ 490.00
G-45	400W Ditto	NO	\$ 550.00
G-46	32W Surface circular fluorescent fitting c/w 32W circular tube, 240V 50Hz ballast, capacitor, starter.	NO	\$ 85.00
G-47	1x40W Ditto.	NO	\$ 100.00
G-48	40W Ceiling mounted surface round type light fitting E27 c/w 60W GLS lamp.	NO	\$ 85.00
G-49	60W Ditto	NO	\$ 90.00
G-50	80W Ditto	NO	\$ 100.00
G-51	100W Ditto	NO	\$ 140.00
G-52	40W wall mounted surface type c/w GLS lamp E27.	NO	\$ 100.00
G-53	60W Ditto	NO	\$ 120.00
G-54	80W Ditto	NO	\$ 160.00
G-55	100W Ditto	NO	\$ 200.00
G-56	1x60W Ceiling mounted/wall mounted prismatic bulkhead fitting 240V 50Hz, ballast, lamp starter etc.	NO	\$ 65.00
G-57	1x80W Ditto	NO	\$ 75.00
G-58	1x100W Ditto	NO	\$ 85.00
G-59	1x120W Ditto	NO	\$ 90.00
G-60	PAR 38 type Spotlight fitting c/w 80W lamp 240v, 50Hz.	NO	\$ 80.00
G-61	PAR 38 - 120W Ditto.	NO	\$ 110.00
G-62	60W Obstruction light mounted on roof/high level IP54 cast aluminium alloy, aviation. Red/Yellow glass 240v 50Hz lamp with bayonet base.	NO	\$ 2,800.00
G-63	1x18W emergency light fitting c/w 2hr battery duration.	NO	\$ 120.00
G-64	2x8W emergency sign fitting c/w 2 hrs battery duration.	NO	\$ 130.00
G-67	1x13W PLC downlight fitting c/w 2 pin lamp.	NO	\$ 60.00
G-68	1x18W Ditto	NO	\$ 75.00
G-69	1x26W Ditto	NO	\$ 90.00
G-70	2x9W Ditto	NO	\$ 70.00

Item	Description	Unit	Rate
G-71	2x13W Ditto	NO	\$ 100.00
G-72	2x18W Ditto	NO	\$ 110.00
G-73	2x26W Ditto	NO	\$ 120.00
G-74	1X13W down light fitting c/w E27 energy saving lamp	NO	\$ 30.00
G-75	1X18W Ditto	NO	\$ 38.00
G-76	1x26W Ditto	NO	\$ 40.00
G-77	2x18W Ditto	NO	\$ 60.00
G-78	6W LED Down Light	NO	\$ 30.00
G-79	12W LED Down Light	NO	\$ 50.00
G-80	18W LED Down Light	NO	\$ 58.00
G-81	2x9W PLC Surface circular/wall fitting c/w lamp 240v 50Hz ballast etc.	NO	\$ 78.00
G-82	2x11W Ditto	NO	\$ 90.00
G-83	2x18W Ditto	NO	\$ 110.00
G-84	1x50W Halogen downlight c/w 12v transformer, 50W halogen lamp etc.	NO	\$ 100.00
G-85	10W LED Floodlight Die Cast Aluminium finished c/w control box	NO	\$ 40.00
G-86	20W Ditto	NO	\$ 80.00
G-87	40W Ditto	NO	\$ 150.00
G-88	60W Ditto	NO	\$ 220.00
G-89	90W Ditto	NO	\$ 350.00
G-90	180W Ditto	NO	\$ 650.00
G-91	220W Ditto	NO	\$ 800.00
G-92	1.5m (56/60 inch) dia ceiling fan c/w regulator including rod including rod modification as instructed by S.O.	NO	\$ 105.00
G-93	22" stand fan	NO	\$ 180.00
G-94	25 inch dia industrial wall fan.	NO	\$ 360.00
G-95	16 inch dia. Wall fan	NO	\$ 200.00
G-96	20 inch dia. Wall fan	NO	\$ 300.00
G-97	16 inch dia. Auto fan	NO	\$ 250.00
G-98	6 inch dia. Glass mounted exhaust fan c/w cutting glass	NO	\$ 90.00
G-99	8 inch dia. Glass mounted exhaust fan c/w cutting glass	NO	\$ 120.00
G-100	8 inch dia wall mounted exhaust fan.	NO	\$ 130.00
G-101	10 inch Ditto	NO	\$ 150.00
G-102	12 inch Ditto	NO	\$ 190.00
G-103	16 inch Ditto	NO	\$ 350.00

Item	Description	Unit	Rate
G-104	18 inch heavy duty exhaust fan c/w auto shutter	NO	\$ 650.00
G-105	20 inch Ditto	NO	\$ 750.00
G-106	6 inch dia. Electric school bell 240v 50Hz.	NO	\$ 250.00
G-107	Water heater 30 litres c/w connection with valve, tap, pipe etc.	NO	\$ 450.00
G-108	Water heater 15 litres c/w connection with valve, tap, pipe etc.	NO	\$ 330.00
G-109	Instant water heater 3K W, 240V c/w connection with valve, tap, pipe etc.	NO	\$ 350.00
G-110	Door bell with transformer 240V/4,8,12 volt.	NO	\$ 120.00
G-111	Door bell with 1.5v battery operation.	NO	\$ 110.00
G-112	150W SON/T Street lighting lantern c/w 150W lamp. IP54 240V 50Hz, Ignitor, ballast, capacitor etc.	NO	\$ 450.00
G-113	250W Ditto	NO	\$ 550.00
G-114	70W compound lighting globe, IP54 240V 50Hz, c/w lamp, ballast, ignitor 150W. (Complete Set)	NO	\$ 480.00
G-115	Solar Type Garden light complete with its concrete footing.	NO	\$ 480.00
G-116	<u>Ducted Exhaust Fan</u> Galvanized steel sheet Cabinet In-Line Fan for ducted type exhaust fan c/w necessary duct works to existing duct and connector	NO	\$ 1,500.00
G-117	Stainless steel bracket for UPVC pipe c/w rod, bolt and nut	MTR	\$ 45.00
G-118	<u>SOLAR FLOODLIGHT</u> Solar LED Floodlight fitting c/w accessories		
i)	200W-300W	NO	\$ 450.00
ii)	300W-500W	NO	\$ 700.00
G-119	LED Flexible Neon Strip Light c/w accessories, connector, cover/profile (surface mounted, recessed, ground & corner) & controller. (color as S.O approved)	MTR	\$ 15.00
G-120	10" 50W LED recessed downlight with CCT of 5000K-6000K with IP rating preferable IP61, non-dim, comes with its driver, 50k hour lifespan	NO	\$ 290.00

Item	Description	Unit	Rate
	<u>WATER PUMP SYSTEM</u>		
G-121	1HP Single phase water pump Hydraulic Electronic System Automatic Control c/w fittings, piping and necessary works required	NO	\$ 325.00
G-122	1 HP Single phase water pump c/w fittings, piping and necessary works required	NO	\$ 800.00
G-123	1.5 Hp Single phase water pump c/w fittings, piping and necessary works required	NO	\$ 1,000.00
G-124	3phase, 3kw to 4kw vertical multistage heavy duty water pumpset c/w fittings, piping and necessary works required	NO	\$ 5,000.00
G-125	Booster pumpset c/w fittings, piping and necessary works required	NO	\$ 3,380.00
G-126	Submersible auto pump aprox 1.5kW / 2 hp 220V/50Hz 1P 68 speed 2850 r/min c/w desludging and emptying well work and necessary works, pipe works and electrical connection.	NO	\$ 2,300.00
G-127	Aprox 5.0 kW / 3 ph / 400V/50Hz, 4 pole IP68, 30L/s at 9m head DITTO	NO	\$ 10,000.00
G-128	Pressure tank 100 Litres c/w piping and necessary work required	NO	\$ 850.00
G-129	300 Litres Ditto	NO	\$ 1,400.00
G-130	500 Litres Ditto	NO	\$ 2,200.00
G-131	20 - 25UF pump capacitor	NO	\$ 100.00
G-132	Pump PLC c/w programming & setting	NO	\$ 2,200.00
G-133	Pump pressure controller c/w necessary works	NO	\$ 800.00
G-134	Pump pressure switch c/w necessary works	NO	\$ 175.00
G-135	Float switch c/w hanger		\$ 195.00
G-136	Water level sensor c/w necessary works	NO	\$ 175.00
G-137	One way valve c/w necessary works required	NO	\$ 230.00
G-138	4 core/ 3mm2 Armoured Cable c/w accessories required	MTR	\$ 100.00
G-139	Cable tray c/w necessary works	MTR	\$ 50.00
G-140	Motor pump bearing	NO	\$ 180.00
G-141	Pump coupling set	SET	\$ 450.00
G-142	Rubber bush	SET	\$ 50.00
G-143	Soft Starter for 30KW pump motor	NO	\$ 1,800.00
G-144	Pressure gauge meter	NO	\$ 150.00
G-145	Waterpump housing zinc covers c/w accessories	NO	\$ 50.00
G-146	Pump water seal leak c/w seal back, bearing and necessary	NO	\$ 900.00
G-147	Water pump instrumentation c/w revolving light	NO	\$ 1,000.00
G-148	Water pump control panel c/w PLC, soft starter, ammeter voltmeter, selector switches, ELR, Indicating light, soft starter controller / time and pressure base controller	NO	\$ 3,000.00
G-149	40A TPN Floor Standing control panel IP54 c/w necessary accessories and works required for a proper installation.	NO	\$ 5,000.00

Item	Description	Unit	Rate
H	<u>TO DISMANTLE AND REMOVE OLD FITTING / RE-POSITION, RE-INSTALL BACK C/W CONNECTION AND TERMINATION AS PER INSTRUCTED BY S.O</u>		
H-1	Floodlight.	NO	\$ 80.00
H-2	Compound light/Street lighting lantern.	NO	\$ 130.00
H-3	High bay fitting.	NO	\$ 100.00
H-4	Ceiling fan	NO	\$ 15.00
H-5	All surface/recessed type fluorescent fitting.	NO	\$ 20.00
H-6	Recessed type downlight.	NO	\$ 15.00
H-7	Wall fan/Auto fan	NO	\$ 15.00
H-8	Exhaust fan/Industrial fan	NO	\$ 20.00
H-9	Electric school bell	NO	\$ 20.00
H-10	Water heater	NO	\$ 50.00
H-11	TV antenna.	NO	\$ 200.00
H-12	Compound/ Street lighting pole less than 8 mtr high	NO	\$ 250.00
H-13	HDG Street lighting pole more than 8 mtr high (include crane work)	NO	\$ 500.00

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

ITEM NO. : SPLIT UNIT AND FAN COIL UNIT

ITEM NO.	PARTS DESCRIPTION	RATE	
	(As described below or approved equivalent)	\$	¢
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
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	1 1/8" – 2"	52	00
2.34	Replace Refrigerant piping insulation using Amaflex for Split Unit		
a	Below 1 "	40	00
b	1 1/8 " - 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	480	00
b	Air flow 3" x throw	650	00
c	Air flow 4" x throw	880	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 1/2" 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.	400	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)	280	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.	380	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.	780	00
2.52	Materials for system choked 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	650	00
b	MCCB 80 to 150 TP	850	00
c	RCD 40 SP/TP	890	00
d	RCD 63 TP	380	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 and standing unit	275	00
2.57	To supply and terminate 3C x 4mm2 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 4mm2 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 2.5mm2 in PVC surface casing/conduit	30	00
2.60	Modify split unit control using digital thermostat with 3 speed fan control,	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	480	00
2.64	Painting of condensing unit/room air conditioning unit with anti-rust coat and final coat with suitable colour.	250	00

ITEM NO	DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	cts
50.	Coil Voltage 220V		
a.	15 - 35 Amps	88	00
b.	16 - 35 Amps	90	00
c.	17 - 35 Amps	90	00
d.	18 - 35 Amps	90	00
e.	19 - 35 Amps	110	00
f.	20 - 35 Amps	110	00
51.	Coil Voltage		
a.	15 - 35 Amps	110	00
b.	15 - 35 Amps	110	00
c.	15 - 35 Amps	110	00
d.	15 - 35 Amps	110	00
e.	15 - 35 Amps	120	00
f.	15 - 35 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	1450	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		
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		
a.	Compressor Motor Carrier or York KA13-0075-CAG	5,960	00
b.	Compressor Motor 10TR any brand	5,960	00

FSR/14/25

ITEM NO	DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	cts
55.	REFRIGERANT GAS, etc.....		
a.	Refrigerant R11 /Kg	33	00
b.	Refrigerant R32 /Kg	40	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 AHU panel with 1 " thick Aeroflex or Superlon	610	00
59.	Re-insulation of AHU panel with 2 " thick Aeroflex or Superlon	655	00
60.	Re-insulation of suction line and drain line with Aeroflex / Superlon c/w denso tape	282	00
61.	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	400	00
b.	Pipe size 6 – 9 " dia	400	00
c.	Pipe size 10 – 12 " dia	450	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
62.	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
63.	Liquid line solenoid valve c/w solenoid coil (24/110/240V 50Hz) Any size	650	00
64.	Hand valves for Refrigerant line size less than 2" / m ²	120	00
65.	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
66.	G.I drain pipe c/w fittings (bends,elbows, traps, tees welding & brazing etc.... 1/2 " - 3 "	250	00

FSR/15/25

ITEM NO	DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	cts
67.	Power cable 3 phase from isolator to outdoor unit in PVC flexible conduit and accesories	280	00
68.	Power cable and control cable from FCU to outdoor unit in PVC flexible conduit and accesories	170	00
69.	Vacuum the system prior to gas fill-up	130	00
70.	Dial Pressure gauge 3 – 4 inch dia. 0 – 60 psig	325	00
71.	Compressor unloader solenoid coil 120/240 VAC 50Hz York or equivalent	985	00
72.	Refrigerant Suction line filter Drier		
a.	1/2 " - 5/8" ODF	270	00
b.	3/4 " - 7/8" ODF	289	00
c.	1/8 " - 5/8 " ODF	320	00
73.	To supply deliver and install Split Unit/Standing Unit/Wall mounted unit c/w outdoor unit:		
a.	Split Unit 1.5 hp c/w outdoor and accesories	1200	00
b.	Cassette type unit 3-5hp c/w outdoor unit and accesories	3900	00
c.	Wall Mounting Unit 5.5hp c/w outdoor unit	3700	00
d.	Standing split unit 5.5hp c/w outdoor unit	3800	00
e.	Aircooler 80-100L	480	00
f.	Aircooler 20-30L	300	00
74.	Supply & install Cooling Tower Intake Louvers		
a.	Kuken 300, 400, 1000	1890	00
75.	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
76.	Cooling Tower Infill		
a.	Kuken 300, 400, 1000	3900	00

ITEM NO	DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	cts
77.	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
78.	Air Vent ½ “ dia.	395	00
79.	Air Vent 1 “ dia.	395	00
80.	Single PVC cable surface wiring in GI Metal Conduit with Trunking breaking rate 600VAC b50Hz		
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
81.	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
82.	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
83.	Replaceable Air Pre-Filters, as above in Roll Form 2"thick and approx 65 ft.	1500	00
84.	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
85.	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
86.	Fine Dust filters LUWA FP-85-P305	260	00
87.	Fine Dust filters LUWA FP-85-P610	360	00
88.	Ultra Fine V- filters LUWA 412350070	380	00
89.	Bearing over 4 " including holes (pillow, block, flange and others)	1780	00
90.	Resurfacing of Shaft for AHU motors	8780	00
91.	Resurfacing of Shaft for Pump motors	9780	00
92.	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
93.	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
94.	Valve Butterfly 300 R22 S3 compressors part no.022-08848-000	1800	00
95.	Shim motor mounting part n. 066-87439-000	780	00
96.	Shim motor mounting part n. 066-92388-000	780	00
97.	Shim motor mounting part n. 066-92389-000	890	00
98.	Compressor S3 Oil separator part no. 376-74210-000 / litres	195	00
99.	Cooler with standard compant water boxes DB (cooler code)		
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
100	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
101	Packing 1250 GPM Crane	800	00
102	ACR Smart Reader Data Logger	950	00
103	AHU air filter		
a.	filter with frame	85	00
b.	filter without frame	65	00
104	Alpha Cell HEPA Filters ACG2-122412 Size 12' x 24' x 11.5'	1490	00
105	Supply and install Screw Chiller Solenoid Coil Part No.951A0056H03 (451850)	2312	00
106	Fan motor DX Condensing Unit P/N. 024-18397-700	7377	00
107	S.C.R. controller for Solid Sate Starter	2815	00

FSR/19/25

ITEM NO	DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	cts
108	VAV motor	450	00
109	Variable Speed Drive 4kW 5.3hp	3650	00
110	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
111	Air Filter for FCU duct Concealed c/w frame	220	00
112	Thermistor	890	00
113	Microprocessor Board	9200	00
114	C.P.C. Sensor	2800	00
115	Relay Board	3500	00
116	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
117	Semi Hermetic compressor (Carrier) D6E4265-275-299 (R134A)	45000	00
118	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
119	To rewind stator coil for Compressor York/Carrier or any brand		
a.	40Hp – Upwards	5100	00

120.	To rewind condensing fan motors 1.0Hp 415V with new bearing	780	00
121.	AIR HANDING UNIT brand York/Daikin/Carrier or any make		
a.	AHU smoke detector	1800	00
b.	Air Filter	380	00
c.	Motorized Actuator Valve for AHU	2500	00
d.	Temperature sensor for AHU	3100	00
e.	Pressure gauge for AHU	970	00

FSR/20/25

ITEM NO	DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	cts
122	AHU belting with any types and size	95	00
123	FAN COIL UNIT brand York/Daikin/Carrier or any make		
a.	Motorized Valve actuator	450	00
b.	Digital Thermostat c/w accesories	500	00
124.	Fuses up to include 100Amps (HRC) and re-wireable	38	00
125	Condensing Motor Bearing	178	00
126	Indicator bulbs of all type for switch board	105	00
127	Water pump gland packing/shaft seal/mechanical seal	4500	00
128	Filter Drier Core H48	484	00
129	Compressor Oil 3GS / litres	150	00
130	Piston Ring (Coil /Compression)	690	00
131	Suction Valve Plate Assy	780	00
132	Discharge Valve Plate	890	00
133	Expansion Valve : 70TR to upwards	8500	00
134	Thermistor Sensor	890	00
135	Discharge Transducer	2800	00
136	Suction Transducer	2800	00
137	Suction Valve Spring	260	00
138	Discharge Valve Spring	3890	00
139	Piston Assy	1900	00
140	Connection Rod Assy	350	00
141	Pump Bearing	300	00
142	Pump Motor Bearing	3900	00
143	Pump Mechanical Seal	2800	00
144	Overhauling Gasket Set	1900	00
145	Water Flow Switch	2500	00
146	Descaling chiller barrel c/w gasket set and chemical (upto200 ton)	5800	00
147	Descaling chiller barrel c/w gasket set and chemical (above 2 00 ton)	6800	00
148	Annual servicing chiller c/w gasket set and oil (up to 500 ton) by manufacture specialist	25000	00
149	Overhauling of chilled/ conditioning water pump c/w bearing , mechanical seal etc	10800	00

FSR/21/2

ITEM NO	DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	cts
150	Pulley 4"-12"	1650	00
151	Cassette type FCU Drain Pump	200	00
152	Replace GI Pipe c/w fittings ¾" - 2 " / metre	180	00
153	Inverter PCB/Outdoor		
a.	4 HP	620	00
b.	5 HP	670	00
c.	6 HP	750	00
154	Compressor PCB		
a.	4 HP	780	00
b.	5 HP	830	00
c.	6 HP	880	00
155	Inverter FCU PCB/ Indoor		
a.	4 HP	680	00
b.	5 HP	800	00
c.	6 HP	880	00
156	Rewind electric motor for AHU and chiller condensing fan motor as per HP:		
a.	1 - 4	1150	00
b.	5 - 10	2580	00
c.	11 - 15	3000	00
d.	16 -29	3500	00
e.	30 - 40	4800	00
f.	41 - 50	6500	00
g.	51 - 60	7800	00
h.	61 - 75	9900	00
i.	76 - 90	14900	00
j.	91 - 110	16000	00
k.	111 - 125	18900	00
157	Supply and install new fan motor for chilled water FCU, c/w new bracket and blower fan	690	00
158	Refill refrigerant R32 per kg	65	00
159	DAIKIN VRV		
	<u>MASTER SYSTEM</u>		
a.	Inverter fan PC board	2800	00
b.	Inverter compressor PC board	5850	00
c.	Power supply noise filter PC board	2850	00
	<u>SLAVE SYSTEM</u>		
a.	Inverter PC board	2800	00
b.	Inverter compressor PC board	5850	00
c.	Master PC board	4500	00
d.	Noise filter PC board	2850	00

ITEM NO	DESCRIPTION (As described below or approved equivalent)	RATE	
		\$	cts
160	To supply and replace electric motor bearings for any size	300	00
161	To supply and replace pillow block bearings for any size	300	00
162	To supply and replace digital timer for AHU	400	00
163	To supply and replace welded copper refrigerant ball valves (insulation valves) for 1 FCU - 2 valves, size 3/8" x 5/8"	480	00
164	To supply and replace thermistors (indoor sensors) for 1 FCU - 3 sets (Daikin VRV, Mitsubishi VRV, or equivalent)	600	00
165	To supply and replace thermistors (outdoor sensors) for 1 condensing unit - 5 to 7 sets (Daikin VRV, Mitsubishi VRV, or equivalent)	1200	00
166	To supply and replace electronic expansion valve (EEV)	400	00
167	To supply and replace variable speed drive (VSD)		
	i) 3 kw and 4 hp VSD	2800	00
	ii) 5.5 kw and 7.5 hp VSD	4500	00
	iii) 11 kw and 15 hp VSD	5000	00
	iv) 22 kw and 30 hp VSD	9000	00
	VRV (Mitsubishi)		
168	To supply and replace main control board	4500	00
169	To supply and replace noise filter power supply board	3800	00
170	To supply and replace solenoid motorized valve	800	00
171	To supply and replace temperature sensors	1200	00
172	To supply and replace inverter fan board	3500	00
173	To supply and replace inverter compressor board	5850	00
174	To supply and replace terminal block transmission / communication board	3600	00

Item	Description	Unit	Rate
III	We, the undersigned, are willing to contract for and perform mechanical electrical maintenance and repair works to Masjid Universiti, Universiti Brunei Darussalam (UBD) as may be ordered from time to time for a period of ONE (1) year or not exceeding \$50,000.00 commencing from the date of award of quotation and at rates contained herein at: PLUS / MINUS % (per Centum)* Delete as necessary and insert the necessary % (N.B): If none stated then it would assumed to be "NIL") <u>Percentum only applicable for Schedule B of this Term contract</u> Contractor MUST have qualified electricians registered with Department of Electrical Services to do electrical installation and maintenance work. Approved and valid technical Pass Card MUST be attached together. The rate for the works are inclusive of necessary : 1. Insurances 2. Site supervisor and management 3. Site security 4. Programme chart (Contractors should make subsequent revisions as directed by S.O) 5. Catalogue / Samples of equipment, accessories and fittings necessary 6. Preparation of shop drawing and coordination 7. Progress photographs 8. Disconnect, dismantle and removal from site unused/damaged existing electrical cable, trunking, conduit, switches, board, light fitting and other accessories and requirement as directed by S.O 9. Repaint and make good wall and ceiling causes from the removal and dismantling of existing wiring and light fitting. 10. Prepare shop drawing as built drawing, testing and commissioning and liason with DES for approval upon completion of works 11. All the electrical fittings, cables , switchboard and etc must be DES Approved Vendor 12. Warning and Signages 13. Fire prevention 14. All labour charges for workforce, equipment, supervisions, transportation and all necessary consumables to complete the works as per instructed by S.O		