

SCHEDULE OF RATES FOR ELECTRICAL INSTALLATION WORKS IN SARAWAK 2016



*JKR Sarawak
December 2016*

Notes to tenderers:

1. This is only a cover page for this document. Please obtain the full set from the JKR Sarawak webpage or any JKR Sarawak office.
2. The “Location Factor from base at Kuching City” for this tender is ____ % and is the percentage over all the items and rates as listed in this Schedule of Rates to be used for the purposes as stated in the tender documents.
3. **Any attempt to amend / change / correct etc. this percentage by the tenderer shall cause the tender to be disqualified.**

LOCATION FACTOR FROM BASE AT KUCHING CITY

(To be read together with the Rules of determining the Location Factor)

Kuching	City	0%
	Padawan	2%
	Santubong	3%
	Siburan	3%
	Bau	5%
	Lundu	8%
	Sematan	9%

Sri Aman	District	15%
	Lubok Antu	20%
	Lingga	20%
	Pantu	13%
	Engkilili	18%
	Skrang	15%

Samarahan	District	2%
	Simunjan	12%
	Sebuyau	15%
	Asajaya	10%
	Sadong Jaya	12%
	Tebakang	8%
	Balai Ringin	8%

Sibu	District	12%
	Kem Bt 10 & 14	13%
	Durin	15%
	Bawang Assan	13%
	Sungai Assan	13%
	Kanowit	16%
	Machan	16%
	Nibong Tada	15%
	Nanga Tada	17%
	Nanga Dap	20%
	Nanga Ngemah	20%
	Nanga Ngungun	20%
	Nanga Poi	22%
	Nanga Jagau	40%
	Selangau	18%
	Ulu Balingian	20%
Arip	22%	
Stapang	16%	
Rassau	22%	

Betong	District	20%
	Spaoh	20%
	Debak	20%
	Pusa	21%
	Beladin	20%
	Maludam	22%
	Saratok	20%
	Roban	20%
	Kabong	20%

Kapit	District	30%
	Song	25%
	Belaga	70%
	Sungai Asap	25%

Bintulu	District	15%
	Tatau	20%
	Sebauh	23%

LOCATION FACTOR FROM BASE AT KUCHING CITY

(To be read together with the Rules of determining the Location Factor)

Mukah	District	20%
	Dalat	20%
	Oya	20%
	Igan	18%
	Balingian	23%
	Kuala Balingian	23%
	Semop	30%
	Matu	25%
	Betanak	30%
	Daro	25%
	Bruit	30%
	Tanjung Manis	18%

Miri	City	15%
	Subis	15%
	Bekenu	15%
	Marudi	25%
	Long Lama	40%
	Beluru	22%

Limbang	District	30%
	Lawas	28%

Serian	District	5%
	Tebedu	8%

Sarikei	District	18%
	Bintangor	18%
	Pakan	20%
	Selalang	20%
	Julau	20%
	Meluan	22%
	Ulu Entabai	23%
	Engkamop	30%
	Nanga Wak	15%
	Nanga Entabai	14%

RULES OF DETERMINING THE LOCATION FACTOR

1. The % factors as stated are for those projects accessible by motorized vehicles within 15km radius from the location shown.
2. Where the project site is beyond 15km radius of the above stated locations, these additional % factors shall be added on to those percentages stated above:

% addition

(i)	> 15km	< 45km	5%
(ii)	> 45km	< 90km	10%
(iii)	> 90km	< 135km	15%
(iv)	> 135km	< 180km	20%
(v)	> 180km	< 220km	25%

3. Where the project sites are accessible only by waterway

(i)	areas within 15 km radius	0%
(ii)	areas within 30 km radius	5%
(iii)	areas within 60 km radius	10%
(iv)	areas within 90 km radius	15%
(v)	areas within 120 km radius	20%
(vi)	areas within 150 km radius	25%
4. Where the project sites can only be accessible by air, the location factor shall be doubled over the value obtained from that by motorized vehicles.
5. Where the project sites can only be accessible by foot, the location factor shall be 50% over the value obtained from that by authorized vehicles
6. Where in determining the locations factor and two or more factors and radial distances are equally applicable, the lower in each case shall be used.
7. Where in determining the location factor and two or more factors and radial distances by the rules above whereby there can be a combination due to accessibility, say partly land and partly waterway or partly waterway and partly by foot, there shall be a combination of the rules according to the radial distance from the nearest locations stated above.
8. Where in determining the location factor and the Site for the project lies within two more radial distances, the addition % for the radial distance within which more than 50% of the Site lies shall be used.

PREAMBLES

1. All rates given shall include supply, delivery, installation, testing and commissioning and shall include associated accessories and fitting.
2. Rate per point applies for the stated route length. For longer route length, the rate per metre, derived from the rate per point shall be used.
3. All rates shall be used and read together with the “Location Factor from base at Kuching City”.
4. All descriptions are to be read with reference to the Standard Electrical Installation Specification (Latest Version) and the following :
 - a) All rates herein shall be held to include for supply and delivery to site, wastage on materials, carriage and cartage, carrying in and return of empties, hoisting, setting, fitting and fixing in position, making good and all other labours and everything else necessary (including any custom duties, etc.) for the proper completion of each item and for establishment charges and profit.
 - b) Rates for each item of paving shall be held to include for all rounded angles, arrises and making good and any other sundry items of alike nature.
 - c) Rates for mild steel tubing are to include for short running lengths, sockets, backnuts, elbows and bends.

A GENERAL WIRING

Item No.	Description	Unit	Rate (RM)
	<u>Concealed conduit wiring c/w metal clad switch and socket plates and accessories</u> : Wiring shall be run concealed, in Class 'B' galvanized steel conduits and complete with GS conduit boxes let into cement or timber wall, or partition, together with all necessary metal clad lighting switch plates, switched socket plates, isolators and accessories. Wiring shall be 1.5 mm² PVC for fan and lighting points, 2.5 mm² PVC for 13A and 15A switched sockets. 13A 3-pin switched socket points shall be wired in ring circuit/s. Accepted brands – Clipsal, PDL or MEM.		
1	<u>Lighting Point</u> wired from nearest switch : Rate per point applies up to route length of 10 metres.		
(i)	6A 1-way lighting point c/w switch.	Per point	106.70
(ii)	6A 2-way lighting point c/w switch.	Per point	146.10
(iii)	6A intermediate lighting point c/w switch.	Per point	168.50
2	<u>Lighting Point</u> wired from nearest lighting point (sharing same switch) – up to 4 metre route length.		
(i)	6A 1-way lighting point.	Per point	56.20
3	<u>Fan Points</u> : wired from nearest switch (up to 10 metres route length).		
(i)	Ceiling fan point c/w 6A switch.	Per fan point	106.70
(ii)	Extractor fan point c/w 6A switch. Cost excludes hard-wood frame and opening for fan.	Per fan point	106.70
4	<u>Switched Socket Outlets</u> :		
(i)	13A 3-pin switched socket point in ring circuit : 1 – gang (up to 10 metre route length).	Per 1-gang socket pt.	146.10
(ii)	13A 3-pin switched socket point in ring circuit : 2 – gang (up to 10 metre route length).	Per 2-gang socket pt.	196.60
(iii)	15A 3-pin switched socket point (up to 15 metre route length).	Per point	247.10
5	<u>Isolators and Water Heater Points</u> : (up to 15 metre route length).		
(i)	Water heater point c/w 20A double pole switch with neon light indicator, 4mm ² PVC cable.	Per point	280.80
(ii)	20A single phase isolator point – 4 mm ² cabling.	Per isolator	325.70
(iii)	30A single phase isolator point – 6 mm ² cabling.	Per isolator	449.30
(iv)	20A TPN isolator point – 4 mm ² cabling.	Per isolator	471.70
(v)	30A TPN isolator point – 6 mm ² cabling.	Per isolator	640.20

A GENERAL WIRING...(CONT'D)

Item No.	Description	Unit	Rate (RM)
6	<u>TV / Telephone Point</u> : (up to 15 metre route length).		
(i)	1 – pair c/w socket and 2 x 0.63 mm ² cable.	Per point	101.20
(ii)	2 – pairs c/w socket and 4 x 0.63 mm ² cable.	Per point	123.60
(iii)	TV antennae point c/w 5c / 2v cable and TV socket.	Per point	101.20
7	<u>Miscellaneous Wiring Point</u> : (up to 15 metre route length).		
(i)	Single phase power supply to fire protection control panel – 2.5 mm ² PVC cabling.	Per point	241.50
(ii)	Lighting point for emergency lighting or 'keluar' sign c/w 1.5 mm ² cable.	Per point	101.20
	Surface conduit wiring c/w metal clad switch and socket plates and accessories : Wiring shall be run on surface, in Class 'B' galvanized steel conduits and complete with GS conduit boxes, together with all necessary metal clad lighting switch plates, switched socket plates, isolators and accessories. Wiring shall be 1.5 mm ² PVC for fan and lighting points, 2.5 mm ² PVC for 13A and 15A switched sockets. 13A 3-pin switched socket points shall be wired in ring circuit/s. Accepted brands – Clipsal, PDL or MEM.		
8	<u>Lighting Point</u> wired from nearest switch : Rate per point applies up to route length of 10 metres.		
(i)	6A 1-way lighting point c/w switch.	Per point	95.60
(ii)	6A 2-way lighting point c/w switch.	Per point	140.40
(iii)	6A intermediate lighting point c/w switch.	Per point	157.30
9	<u>Lighting Point</u> wired from nearest lighting point (sharing same switch) – up to 4 metre route length.		
(i)	6A 1-way lighting point.	Per point	50.70
10	<u>Fan Points</u> : wired from nearest switch (up to 10 metres route length) .		
(i)	Ceiling fan point c/w 6A switch.	Per fan point	95.50
(ii)	Extractor fan point c/w 6A switch. Cost excludes hard-wood frame and opening for fan.	Per fan point	95.50
11	<u>Switched Socket Outlets</u> :		
(i)	13A 3-pin switched socket point in ring circuit : 1 – gang (up to 10 metre route length).	Per 1-gang socket pt.	146.10
(ii)	13A 3-pin switched socket point in ring circuit : 2 – gang (up to 10 metre route length).	Per 2-gang socket pt.	190.90

A GENERAL WIRING...(CONT'D)

Item No.	Description	Unit	Rate (RM)
11	<u>Switched Socket Outlets</u> : (Cont'd)		
(iii)	15A 3-pin switched socket point (up to 15 metre route length).	Per point	202.20
12	<u>Isolators and Water Heater Points</u> : (up to 15 metre route length).		
(i)	Water heater point c/w 20A double pole switch with neon light indicator, 4mm ² PVC cable.	Per point	269.50
(ii)	20A single phase isolator point – 4 mm ² cabling.	Per isolator	303.30
(iii)	30A single phase isolator point – 6 mm ² cabling.	Per isolator	409.90
(iv)	20A TPN isolator point – 4 mm ² cabling.	Per isolator	404.30
(v)	30A TPN isolator point – 6 mm ² cabling.	Per isolator	572.80
13	<u>TV / Telephone Point</u> : (up to 15 metre route length).		
(i)	1 – pair c/w socket and 2 x 0.63 mm ² cable.	Per point	89.90
(ii)	2 – pairs c/w socket and 4 x 0.63 mm ² cable.	Per point	112.30
(iii)	TV antennae point c/w 5c / 2v cable and TV socket.	Per point	89.90
14	<u>Miscellaneous Wiring Point</u> : (up to 15 metre route length).		
(i)	Single phase power supply to fire protection control panel – 2.5 mm ² PVC cabling.	Per point	224.70
(ii)	Lighting point for emergency lighting or 'keluar' sign c/w 1.5 mm ² cable.	Per point	89.90
	Surface Wiring : Wiring shall be run surface on batten wood complete with all necessary PVC moulded conduit boxes, lighting switch plates, 13A or 15A switched socket plates and accessories. Wiring shall be 1.5 mm² PVC/PVC for fan and lighting points, 2.5 mm² PVC/PVC for 13A and 15A switched sockets. 13A 3-pin switched socket points shall be wired in ring circuit/s. Accepted brands – Clipsal, PDL or MEM.		
15	<u>Lighting Point</u> wired from nearest switch : Rate per point applies up to route length of 10 metres.		
(i)	6A 1-way lighting point c/w switch.	Per point	84.30
(ii)	6A 2-way lighting point c/w switch.	Per point	123.60
(iii)	6A intermediate lighting point c/w switch.	Per point	146.10
16	<u>Lighting Point</u> wired from nearest lighting point (sharing same switch) – up to 4 metre route length.		
(i)	6A 1-way lighting point.	Per point	50.70

A GENERAL WIRING...(CONT'D)

Item No.	Description	Unit	Rate (RM)
17	<u>Fan Points</u> : wired from nearest switch (up to 10 metres route length).		
(i)	Ceiling fan point c/w 6A switch, ceiling rose and hardwood block for fan speed regulator.	Per fan point	84.30
(ii)	Extractor fan point c/w 6A switch. (cost excludes hardwood frame and opening for fan).	Per fan point	84.30
18	<u>Switched Socket Outlets and Water Heater Point</u> :		
(i)	13A 3-pin switched socket point in ring circuit : 1 – gang (up to 10 metre route length).	Per 1-gang socket pt.	123.60
(ii)	13A 3-pin switched socket point in ring circuit : 2 – gang (up to 10 metre route length).	Per 2-gang socket pt.	168.50
(iii)	15A 3-pin switched socket point (up to 15 metre route length).	Per point	168.50
(iv)	Water heater point c/w 20A double pole switch with neon light indicator, 4 mm ² PVC cable (up to 15 metre route length).	Per point	235.90
19	<u>Mains and Sub-mains Wiring</u> : from SESCo supply intake to distribution boards/consumer units, through meter and cut-outs, using surface wiring.		
(i)	1-phase 2 x 16 mm ² 1 –core PVC insulated and sheathed cables.	Per metre	33.70
(ii)	1-phase 2 x 25 mm ² 1 – core PVC insulated and sheathed cables.	Per metre	45.00
(iii)	3-phase 4 x 16 mm ² 1 – core PVC insulated and sheathed cables.	Per metre	56.20
(iv)	3-phase 4 x 25 mm ² 1 – core PVC insulated and sheathed cables.	Per metre	78.70
	<u>Concealed conduit wiring c/w plastic moulded switch and socket plates and accessories</u> : Wiring shall be run concealed, in Class 'B' galvanized steel conduits and complete with GS conduit boxes let into cement or timber wall, or partition, together with all necessary PVC moulded lighting switch plates, switched socket plates and accessories. Wiring shall be 1.5 mm² PVC for fan and lighting points, 2.5 mm² PVC for 13A and 15A switched sockets. 13A 3-pin switched socket points shall be wired in ring circuit/s. Accepted brands – Clipsal, PDL or MEM.		
20	<u>Lighting Point</u> wired from nearest switch : Rate per point applies up to route length of 10 metres.		
(i)	6A 1-way lighting point c/w switch.	Per point	101.20
(ii)	6A 2-way lighting point c/w switch.	Per point	140.40
(iii)	6A intermediate lighting point c/w switch.	Per point	157.30

A GENERAL WIRING...(CONT'D)

Item No.	Description	Unit	Rate (RM)
21	<u>Lighting Point</u> wired from nearest lighting point (sharing same switch) – up to 4 metre route length.		
(i)	6A 1-way lighting point.	Per point	50.70
22	<u>Fan Points</u> : wired from nearest switch (up to 10 metres route length).		
(i)	Ceiling fan point c/w 6A switch.	Per fan point	101.20
(ii)	Extractor fan point c/w 6A switch. Cost excludes hard-wood frame and opening for fan.	Per fan point	101.20
23	<u>Switched Socket Outlets</u> :		
(i)	13A 3-pin switched socket point in ring circuit : 1 – gang (up to 10 metre route length).	Per 1-gang socket pt.	134.80
(ii)	13A 3-pin switched socket point in ring circuit : 2 – gang (up to 10 metre route length).	Per 2-gang socket pt.	179.80
(iii)	15A 3-pin switched socket point (up to 15 metre route length).	Per point	235.90
24	<u>TV / Telephone Point</u> : (up to 15 metre route length).		
(i)	1 – pair c/w socket and 2 x 0.63 mm ² cable.	Per point	89.90
(ii)	2 – pairs c/w socket and 4 x 0.63 mm ² cable.	Per point	112.30
(iii)	TV antennae point c/w 5c / 2v cable and TV socket.	Per point	89.90
25	Earthing Leads : from distribution board to earth electrode-green PVC insulated copper cable protected by class 'B' galvanized steel conduits to be installed below surface of hard-standing, cement floor, corridor, apron, etc. (up to 10 metres route length)		
(i)	16mm ² PVC insulated	Per lot	280.80
(ii)	25mm ² PVC insulated	Per lot	359.40

B LIGHTING FITTINGS, FANS AND ACCESSORIES

Item No.	Description	Unit	Rate (RM)
	<u>Accessories</u> : Cost for extractor fan hole openings in brick or wooden walls shall include cost of making the hole together with 2" x 4" hardwood frame. Size of opening shall be appropriate for the diameter of fans indicated.		
1	Installation of fan hook from cement floor slab.	Per unit	36.10
2	Installation of fan hook from timber floor joist.	Per unit	29.30
3	Extractor fan hole opening in brick wall for extractor fan of diameter from 400 to 500 mm (16" to 20").	Per no.	219.00
4	Extractor fan hole opening in brick wall for extractor fan of diameter from 200 to 350 mm (8" to 14").	Per no.	179.80
5	Extractor fan hole opening in wooden wall for extractor fan of diameter from 400 to 500 mm (16" to 20").	Per no.	148.40
6	Extractor fan hole opening in wooden wall for extractor fan of diameter from 200 to 350 mm (8" to 14").	Per no.	129.30
7	Extractor fan hole opening in glass panel for extractor fan of diameter from 200 to 350 mm (8" to 14").	Per no.	165.20
	<u>Fans</u> : Cost includes supply and installation of fittings. Ceiling fans and oscillating fans shall have individual 3-speed (low/medium/high) regulators. Wall fans shall feature pull cord oscillation control and 3-speed (low/medium/high) regulators. Ceiling fans shall have safety steel suspension wire and safe power disconnection feature. Cost of making fan hole opening is priced separately. Acceptable brands – Khind, National, KDK or Sanyo		
8	Ceiling fan 1,520 mm (60") diameter sweep.	Per unit	183.10
9	Ceiling mount oscillating fan – 500 mm (20") dia.	Per unit	365.10
10	Ceiling mount oscillating fan – 400 mm (16") dia.	Per unit	292.10
11	Wall mount fan – 500 mm (20") diameter.	Per unit	292.10
12	Wall mount fan – 400 mm (16") diameter.	Per unit	258.40
13	Extractor fan – 500 mm (20") diameter.	Per unit	292.10
14	Extractor fan – 400 mm (16") diameter.	Per unit	247.10
15	Extractor fan – 350 mm (14") diameter.	Per unit	213.40
16	Extractor fan – 300 mm (12") diameter.	Per unit	191.00
17	Extractor fan – 200 mm (8") diameter.	Per unit	165.20

B LIGHTING FITTINGS, FANS AND ACCESSORIES...(CONT'D)

Item No.	Description	Unit	Rate (RM)
	<p><u>Fluorescent Fittings</u> : All fluorescent fittings shall be complete with low loss polyester resin impregnated ballasts of loss not exceeding 6.5 watts, power factor correction capacitor to correct to power factor of not less than 0.85, starter, fluorescent tubes and holders. Cost includes supply and installation. Acceptable brands - LHL, Britelite, Davis, Jetlite, National, GEC, Philip, Thorn.</p>		
18	<u>Channel Fluorescent Fitting – 1 x 18W / 36 W Surface Mount</u>		
(i)	1 x 18 watt bare channel fluorescent fitting.	Per unit	34.90
(ii)	1 x 18 watt channel fluorescent fitting c/w wire guard.	Per unit	64.10
(iii)	1 x 36 watt bare channel fluorescent fitting.	Per unit	40.50
(iv)	1 x 36 watt bare channel fluorescent fitting c/w metal angle reflector.	Per unit	76.40
(v)	1 x 36 watt bare channel fluorescent fitting c/w suspension rod.	Per unit	82.10
(vi)	1 x 36 watt channel fluorescent fitting c/w wire guard.	Per unit	70.80
(vii)	1 x 36 watt channel fluorescent fitting c/w wire guard and suspension rod.	Per unit	101.20
19	<u>Channel Fluorescent Fitting – 2 x 36 W Surface Mount</u>		
(i)	2 x 36 watt bare channel fluorescent fitting.	Per unit	70.80
(ii)	2 x 36 watt bare channel fluorescent fitting c/w suspension rod.	Per unit	94.40
(iii)	2 x 36 watt channel fluorescent fitting c/w diakon diffuser.	Per unit	105.70
(iv)	2 x 36 watt channel fluorescent fitting c/w diakon diffuser and suspension rod.	Per unit	129.30
(v)	2 x 36 watt bare channel fluorescent fitting c/w metal trough reflectors.	Per unit	100.00
(vi)	2 x 36 watt bare channel fluorescent fitting c/w metal trough reflectors and suspension rod.	Per unit	134.80
20	<u>Modular type Fluorescent Fittings – Recessed Fittings</u>		
(i)	2 x 18 watt modular recessed (2' x 2') fluorescent fitting c/w aluminum parabolic reflector and baffles.	Per unit	165.20
(ii)	2 x 36 watt modular recessed (2' x 4') fluorescent fitting c/w aluminum parabolic reflector and baffles.	Per unit	199.90
(iii)	3 x 36 watt modular recessed (2' x 4') fluorescent fitting c/w aluminum parabolic reflector and louvers.	Per unit	241.50

B LIGHTING FITTINGS, FANS AND ACCESSORIES...(CONT'D)

Item No.	Description	Unit	Rate (RM)
21	<u>Modular type Fluorescent Fittings – Surface Fittings</u>		
(i)	2 x 18 watt modular recessed (2' x 2') fluorescent fitting c/w aluminum parabolic reflector and baffles.	Per unit	165.20
(ii)	2 x 36 watt modular surface (2' x 4') fluorescent fitting c/w aluminum parabolic reflector and baffles.	Per unit	199.90
(iii)	3 x 36 watt modular surface (2' x 4') fluorescent fitting c/w aluminum parabolic reflector and louvers.	Per unit	229.10
22	<u>Self-contained Modular type Fluorescent Fittings c/w Battery & Charger</u>		
(i)	2 x 18 watt modular recessed (2' x 2') fluorescent fitting c/w aluminum parabolic reflector and baffles, 3-hr maintenance free sealed lead-acid battery, charger and control unit.	Per unit	342.60
(ii)	2 x 36 watt modular recessed (2' x 4') fluorescent fitting c/w aluminum parabolic reflector and baffles, 3-hr maintenance free sealed lead-acid battery, charger and control unit.	Per unit	424.50
(iii)	2 x 18 watt modular surface (2' x 2') fluorescent fitting c/w aluminum parabolic reflector and baffles, 3-hr maintenance free sealed lead-acid battery, charger and control unit.	Per unit	341.50
(iv)	2 x 18 watt modular recessed (2' x 4') fluorescent fitting c/w aluminum parabolic reflector and baffles, 3-hr maintenance free sealed lead-acid battery, charger and control unit.	Per unit	424.50
	Miscellaneous Lighting Fittings : Cost includes supply and installation of fittings. Installation for floodlight fittings are in reference to standard installation on walls accessible by ladder. Accepted brands for flood lights – Nikkon, Thorn or Philips.		
23	<u>Emergency Light / KELUAR Sign Fittings</u> : self contained c/w sealed 3-hr maintenance free sealed lead-acid battery, charger and control unit c/w trickle charging & over-charge protection.		
(i)	Self contained 2 x 8 watts emergency lighting fitting.	Per unit	129.30
(ii)	KELUAR sign – fluorescent type, single sided.	Per unit	188.80
(iii)	KELUAR sign – fluorescent type, double sided.	Per unit	233.80
(iv)	KELUAR c/w direction signage – single sided fluorescent type.	Per unit	194.40
(v)	KELUAR c/w direction signage – double sided fluorescent type.	Per unit	247.10
(vi)	KELUAR sign – LED type, single sided.	Per unit	194.40
(vii)	KELUAR sign – LED type, double sided.	Per unit	205.60
(viii)	KELUAR c/w direction signage – single sided LED type.	Per unit	212.30
(ix)	KELUAR c/w direction signage – double sided LED type.	Per unit	224.70

B LIGHTING FITTINGS, FANS AND ACCESSORIES...(CONT'D)

Item No.	Description	Unit	Rate (RM)
24	<u>Lamp-shade</u> c/w incandescent lamp		
(i)	Coolicon lamp shade, lamp holder c/w 40W, 60W or 100 W incandescent lamp.	Per fitting	18.10
25	<u>Flood-light / Spot-light Fittings</u>		
(i)	Outdoor type spot light fitting c/w metal lamp holder and PAR 38 150 W lamp of various colours.	Per fitting	70.80
(ii)	Outdoor type metal halide floodlight fittings c/w 400 W lamp, control gear and power factor correction capacitor.	Per fitting	542.50
(iii)	Outdoor type metal halide floodlight fittings c/w 250 W lamp, control gear and power factor correction capacitor.	Per fitting	471.70
(iv)	Outdoor type high pressure sodium floodlight fittings c/w 400 W lamp, control gear and power factor correction capacitor.	Per fitting	566.00
(v)	Outdoor type high pressure sodium floodlight fittings c/w 250 W lamp, control gear and power factor correction capacitor.	Per fitting	482.90
26	<u>Bulkhead Fittings</u>		
(i)	Bulkhead fitting – pressure die-cast aluminium alloy type c/w 40W, 60W or 100W incandescent lamp, glass cover and wire guard.	Per fitting	94.40
(ii)	Bulkhead fitting – plastic die-cast type c/w 40W, 60W or 100W incandescent lamp, plastic cover and wire guard.	Per fitting	47.20

C DISTRIBUTION BOARDS & CONSUMER UNITS

Item No.	Description	Unit	Rate (RM)
	<u>Distribution Boards & Consumer Units</u> : Distribution boards and consumer units shall be metal clad type c/w isolator, residual current circuit breaker (RCCB) and assortment of miniature circuit breakers (mcb). Isolators and RCCB shall be double pole and four pole respectively for single phase and three phase units. Isolators shall be rated at 60A min. Miniature circuit breakers shall be single pole 6A, 15A, or 32A as required, of minimum breaking capacity 5 kA, and tripping curve Type B. Comb-type busbars are not accepted. Units shall feature DIN rail mounting, for plug-in, wired-out mcb. Accepted brands – MEM, Hager, L&T, LKH		
1	<u>Single Phase Consumer Units</u>		
(i)	4 – way (RCCB : 40A, 100 mA sensitivity).	Per set	303.30
(ii)	4 – way (RCCB : 60A, 100 mA sensitivity).	Per set	353.80
(iii)	6 – way (RCCB : 40A, 100 mA sensitivity).	Per set	387.50
(iv)	6 – way (RCCB : 60A, 100 mA sensitivity).	Per set	460.50
(v)	8 – way (RCCB : 40A, 100 mA sensitivity).	Per set	460.50
(vi)	8 – way (RCCB : 60A, 100 mA sensitivity).	Per set	516.60
2	<u>Three Phase Distribution Boards c/w RCCB 100 mA sensitivity</u>		
(i)	4 – way (RCCB : 40A, 100 mA sensitivity).	Per set	1,021.90
(ii)	4 – way (RCCB : 60A, 100 mA sensitivity).	Per set	1,078.10
(iii)	6 – way (RCCB : 40A, 100 mA sensitivity).	Per set	1,123.00
(iv)	6 – way (RCCB : 60A, 100 mA sensitivity).	Per set	1,156.70
(v)	8 – way (RCCB : 40A, 100 mA sensitivity).	Per set	1,308.30
(vi)	8 – way (RCCB : 60A, 100 mA sensitivity).	Per set	1,437.50
3	<u>Three Phase Distribution Boards c/w RCCB 300 mA sensitivity</u>		
(i)	4 – way (RCCB : 40A, 300 mA sensitivity).	Per set	977.00
(ii)	4 – way (RCCB : 60A, 300 mA sensitivity).	Per set	1,021.90
(iii)	6 – way (RCCB : 40A, 300 mA sensitivity).	Per set	1,061.30
(iv)	6 – way (RCCB : 60A, 300 mA sensitivity).	Per set	1,111.80
(v)	8 – way (RCCB : 40A, 300 mA sensitivity).	Per set	1,269.00
(vi)	8 – way (RCCB : 60A, 300 mA sensitivity).	Per set	1,358.90