

Fixed Schedule of Rates

TERM CONTRACT FOR MINOR WORKS, SERVICING, MAINTENANCE AND REPAIR OF EXISTING ELECTRICAL INSTALLATIONS AT SENTOSA (INCLUDING SENTOSA COVE) FOR A PERIOD OF THREE (3) YEARS

FIXED SCHEDULE OF RATES I

FOR MAINTENANCE SERVICE TO LOCATION SCHEDULES I-A

Item	Description	Unit	Amount for 1 Year (S\$)
1	Provide maintenance service for the following areas in accordance with the Requirements Specifications and Technical Specifications		
1.1	Former Herbs & Scented Garden / Imbiah Terrace Linkway	Sum	4,800
1.2	Waterfront Promenade 5	Sum	4,800
1.3	Gateway Avenue Street Lighting including Flag Poles at Gantry / Main Gantry / Gantry Office / Ranger Post / Guest Services	Sum	12,000
1.4	Causeway Bridges	Sum	15,000
1.5	Boardwalk, Cycle Tracks	Sum	13,500
1.6	Imbiah Lookout, Walkways & Imbiah Lookout Toilets / Cable Car Plaza areas / Imbiah Forecourt / Former Sky Tower areas / Imbiah Jungle Trail / Siloso Jungle Trail / Imbiah Carpark / Sentosa Nature Discovery Service Road Lightings	Sum	20,000
1.7	Siloso Beach including all 5 toilets along the beach / Emerald Pavilion & Toilets / Sapphire Pavilion & Toilets	Sum	40,000
1.8	Palawan Beach including all Linkway Lightings / Palawan East & West Toilets	Sum	23,600
1.9	Tanjong Beach including all Linkway Lightings / Tanjong Toilets	Sum	12,000
1.10	Bus Stops (Island wide) including Beach Station Bus Bay, Palawan Green, Palawan Carpark, Tanjong Carpark and all Shelters	Sum	10,500
1.11	Southern Transport Complex including Beach Carpark / Pedestrian Overhead Bridge (POB) & walkways / Beach Station Toilets	Sum	33,000
1.12	Street Lighting Point 1, Siloso Road	Sum	9,600

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Item	Description	Unit	Amount for 1 Year (S\$)
1.13	Street Lighting Point 2, Artillery Avenue	Sum	9,600
1.14	Street Lighting Point 3, Allanbrooke Road	Sum	9,600
1.15	Facility Complex including Street Lightings & Perimeter Lightings	Sum	7,000
1.16	2 nd Roundabout & Corporate Office Walkway & Carpark Lightings	Sum	2,500
1.17	Carpark in front of Eton House	Sum	2,200
1.18	Siloso Point Cableway Walkways / Lightings	Sum	2,000
1.19	Merlion Cableway Walkways / Imbiah Station Toilets	Sum	3,000
1.20	Imbiah Lookout Cableway Walkways	Sum	2,000
1.21	Sentosa Nature Discovery	Sum	15,000
1.22	Fort Siloso / Fort Siloso Gateway / Skywalk	Sum	38,000
1.23	Palawan Kidz City / Coach Park including Outdoor & Landscape Lightings	Sum	38,000
1.24	Wings of Time (WOT)	Sum	14,500
1.25	North Cove Residential Common Areas including Signages' Lights & Show Bungalow, Coral Island, Paradise Island, Treasure Island, Open Spaces, 14 nos Marina Lights at North Lock Gate, Lakeshore View, etc.	Sum	17,000
1.26	North Cove Foreshore Common Areas including 8nos OG Boxes & 17 nos DBs, etc.	Sum	13,600
1.27	South Cove Residential Common Areas including Signages' Lights, Sandy Island, Pearl Island & 9 nos OG Boxes at Open Spaces, OG Irrigation & Pavilion, etc.	Sum	20,200
1.28	South Foreshore Common Areas including 17nos New OG Boxes (comprises of 2 nos 200A OG Boxes), etc.	Sum	6,000
1.29	Central Cove including Marina Promenade Lightings, etc.	Sum	10,300

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Item	Description	Unit	Amount for 1 Year (\$)
1.30	Sentosa Cove Village (SCV) including Signages' Lights, DBs at SCRM Office at Level 2 & Level 3, Cisco Offices & Ranger Offices, etc.	Sum	34,100
Total amount for Maintenance Services for One (1) Year (Subject to Tender Rate to be inserted by Tenderer in GEBIZ)			\$443,400

Note:

1. Payment (subject to Tender Rate) for the Maintenance Services shall be paid on monthly basis (**see Note 2**) upon satisfactory service rendered. The amount for Maintenance Services shall include lorry crane services for maintenance of lamp poles and island-wide signages twice per month.

2. The amount payable for the Maintenance Services shall be computed as illustrated below:

Assuming the Tender Rate is at minus 20%.

Blanket Release's value computed based on unit rate per annum is as follows:

	<i>Maintenance Services Amount</i>	<i>Tender Rate</i>	<i>Adjusted Maintenance Services Amount</i>
<i>Amount payable per annum</i>	\$443,400	-20%	\$354,720 (<i>\$443,400 minus 20%</i>)
<i>Amount payable per month</i>	$\$443,400 / 12 \text{ months} = \$36,950$	-20%	\$29,560 (<i>\$36,950 minus 20%</i>)

The Fixed Schedule of Rates are inclusive of all manpower necessary for the provision of the required Maintenance Services on site. The Tender Rate shall be deemed to have taken into consideration the provision of labour, materials, supervision, transportation, plant, tools, equipment, profit, overheads, establishment charges and everything necessary for the proper execution and completion of the Maintenance Services. For avoidance of doubt, the Contractor shall not be entitled to any other claims whatsoever except the relevant Fixed Schedule of Rates subject to Tender Rate.

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FIXED SCHEDULE OF RATES II

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FIXED SCHEDULE OF RATES II

NOTES ON PRICES CONTAINED HEREIN

1. All rates shown against every item in the following schedule are fixed basic rates subject to Tender Rate and no amendments whatsoever shall be made to such rates.
2. The rates so set against each and every item shall be held to include the supply, delivery and installation as specified, all labour and materials, establishment charges, profit, preliminaries and generally all other consequential requirements unless otherwise stated.
3. The rates shall be used as the basis for progress payments and for calculating the cost of any variation which may be ordered in accordance with the terms of this Contract.
4. The Contractor shall be deemed to have made a close study of this Fixed Schedule of Rates II, and duly understood their implication in this Contract.
5. The term "as specified" shall mean all that is written in the Requirement Specifications and Technical Specifications.

NON-SCHEDULE RATES (Star Rate)

Where any item of material or equipment required is not listed in the Fixed Schedule of Rates, the same shall be supplied and installed by the Contractor as directed by Superintending Officer at **cost plus 15%** (Star Rate). The Contractor shall submit invoices of cost price obtained from agents / suppliers at the time of billing.

SECTION A - BASIC WIRING POINTS

NOTES:

1. For the purpose of this Section, the rate for **PVC SURFACE** installation of wiring points shall be taken as the **BASE RATE**.
2. PVC trunking and PVC conduit will be taken as equivalent cost.
3. **Star rates shall not be considered** for RED TOGGLES or SWITCHES instead of conventional WHITE TOGGLES or switches or for neon indicators.
4. For PVC and GI conduits, no increase over the Fixed Schedule of Rates shall be allowed for the cost of primer coat and enamel painting to any colour by the Superintending Officer.
5. The following wire sizes shall apply:

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5A lighting or fan point	-	1.5 mm ²
13A socket outlet point	-	2.5 mm ²
15A socket outlet point	-	2.5 mm ²
20A Equipment points	-	4.0 mm ²

6. All wiring points shall be considered not to exceed 20 metre-run from the source of supply to the first immediate wiring point. For subsequent points, wiring distance shall be considered as distance between wiring points on the same circuit.
7. For multiple wiring points on 2-way switch circuits, only one 2-way switch rate shall be payable. Any additional points shall be treated as that of unswitched circuits.
8. All socket outlets shall be ivory white for base rate c/w spring shutters on both Live and Neutral openings.
9. For wiring point with corresponding metal clad switch or socket plate c/w the necessary metal-clad box as appropriate, no increase over the Fixed Schedule of Rates shall be allowed.

DEFINITIONS

1. "Full concealed" means that the trunking or conduit protecting the cables are considered within walls / floor throughout the whole length of the wiring point. Normally it would have been necessary to chase and make good (at least rough patching) of walls, floors, etc. New cast-in-situ conduit wiring will be treated as "full-concealed".
2. "Part concealed" means that only part of the trunking or conduit protecting the cables are encased within walls / floor within the whole wiring point. This applies to the following cases:
 - i. Concealed installations below false ceiling but surface installations above false ceiling.
 - ii. Installations within dry light-weight partition walls.
3. "Surface" means that the entire length of the trunking or conduit is mounted on the surface, including the case of entire wiring length within false ceiling.

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All Sketches stated herein shall be provided to the awarded Contractor upon successful award of the Contract.

SECTION A - BASIC WIRING POINTS

NOTE: All wiring points (pt) shall be considered not to exceed 20 metres run. For additional length of cables installed, additional cost shall be paid in accordance with the rates II set out in Section B.

Item No.	Description	Unit	Rate (\$)
1	Ceiling / Pendant / Bracket / Wall light pt c/w 5 amp SP moulded switch plate and moulded box.	Each	70.00
2	As item 1 – but without switch.	Each	60.00
3	As item 1 – but with weatherproof switch.	Each	80.00
4	Spotlight pt c/w 5 amp SP moulded switch and moulded box.	Each	70.00
5	As item 4 - but without switch.	Each	60.00
6	Bracket/Exhaust/Wall fan pt c/w 5 amp moulded switch plate and moulded box.	Each	70.00
7	As item 6 - but without switch.	Each	60.00
8	Ceiling fan pt c/w 5 amp SP moulded switch and moulded box, regulator.	Each	70.00
9	As item 8 - but without switch.	Each	60.00
10	Power socket outlet pt c/w 5 amp single gang switch socket outlet and moulded box.	Each	70.00
11	Power socket outlet pt c/w 13 amp single gang switch socket outlet and moulded box.	Each	70.00
12	As item 11- but c/w 13 amp twin gang.	Each	75.00
13	Weatherproof socket outlet pt c/w 13 amp single gang switch socket outlet complete set.	Each	90.00
14	As item 11 - but c/w 15 amp round pin single gang for higher capacity equipment for air-conditioner.		
	i. without DOL starter	Each	60.00
	ii. with DOL starter	Each	85.00

NOTE: For items 10 and 11 ring circuits, additional cost is allowed for return cabling from maximum distance of the last socket to source of supply.

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FIXED SCHEDULE OF RATES II

SECTION A – BASIC WIRING POINTS (CONT'D)

Item No.	Description	Unit	Rate (S\$)
15	Water heater/equipment point c/w 20A DP switch with neon indicator light, fused connection unit or 3-plate ceiling rose 20A.	Each	90.00
16	Power socket outlet point c/w 20A DP switch and neon indicator, 15A switched socket outlet adjacent to air-conditioner.	Each	90.00
17	Power socket outlet pt c/w 20A DP with neon indicator, 15A switched socket outlet and 3-way connector on teak block (180 mm x 200mm x 32 mm) block without starter.	Each	95.00
18	Fire alarm point with 2 lengths 2.5mm ² PVC cables in GI conduit up to 20 metres.	Each	120.00
19	Additional neon light for any moulded socket outlet plate or switch plate.	Each	15.00
20	Red toggle or switch instead of white toggle or switch (Additional cost).	Each	4.00
21	Hand-dryer, Hair-dryer point c/w moulded fused connection unit.	Each	70.00
22	Sensor point for urinal and WC but without switch, c/w recessed junction box / inspection box.	Each	60.00

NOTE: Additional rates payable for deviation from standard accessories or fittings (Adjustments shall not be applicable for items 14, 15, 16 and 17).

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SECTION B - WIRING CABLES IN CONDUIT ON METAL / PVC TRUNKING

Supply and install in conduit or metal / PVC trunking or cable trays or underground if required for the following (excluding conduit or trunking or cable trays):

Item No.	Description	Unit	Rate (\$\$)
I	PVC insulated cable to SS 50:1981, 450/750V grade.		
1	1 x 1.0 mm ² PVC	Per m run	0.50
2	1 x 1.5 mm ² PVC	Per m run	0.80
3	1 x 2.5 mm ² PVC	Per m run	1.00
4	1 x 4.0 mm ² PVC	Per m run	1.30
5	1 x 6.0 mm ² PVC	Per m run	2.60
6	1 x 10.0 mm ² PVC	Per m run	3.60
7	1 x 16.0 mm ² PVC	Per m run	5.30
8	1 x 25.0 mm ² PVC	Per m run	7.00
9	1 x 35.0 mm ² PVC	Per m run	8.70
10	1 x 50.0 mm ² PVC	Per m run	10.60
11	1 x 70.0 mm ² PVC	Per m run	13.20
12	1 x 95.0 mm ² PVC	Per m run	17.20
13	1 x 120.0 mm ² PVC	Per m run	20.00
14	1 x 150.0 mm ² PVC	Per m run	25.40
15	1 x 185.0 mm ² PVC	Per m run	33.00
16	1 x 240.0 mm ² PVC	Per m run	40.90
II	PVC / PVC insulated cable to SS 50:1981, 450/750V grade.		
1	1 x 1.0 mm ² PVC / PVC	Per m run	1.00
2	1 x 1.5 mm ² PVC / PVC	Per m run	1.30
3	1 x 2.5 mm ² PVC / PVC	Per m run	1.90
4	1 x 4.0 mm ² PVC / PVC	Per m run	2.20
5	1 x 6.0 mm ² PVC / PVC	Per m run	2.80
6	1 x 10.0 mm ² PVC / PVC	Per m run	4.50
7	1 x 16.0 mm ² PVC / PVC	Per m run	5.90
8	1 x 25.0 mm ² PVC / PVC	Per m run	7.90

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FIXED SCHEDULE OF RATES II

SECTION B - WIRING CABLES IN CONDUIT ON METAL / PVC TRUNKING (CONT'D)

Item No.	Description	Unit	Rate (\$)
II	PVC / PVC insulated cable to SS 50:1981, 450/750V grade.		
9	1 x 35.0 mm ² PVC / PVC	Per m run	9.70
10	1 x 50.0 mm ² PVC / PVC	Per m run	11.90
11	1 x 70.0 mm ² PVC / PVC	Per m run	14.90
12	1 x 95.0 mm ² PVC / PVC	Per m run	19.60
13	1 x 120.0 mm ² PVC / PVC	Per m run	22.40
14	1 x 150.0 mm ² PVC / PVC	Per m run	28.60
15	1 x 185.0 mm ² PVC / PVC	Per m run	37.00
16	1 x 240.0 mm ² PVC / PVC	Per m run	46.00
III	Fire Resistant and Flame Retardant Cable to IEC 331/332 of 600/1000V Grade.		
1	1 x 1.0 mm ²	Per m run	4.50
2	1 x 1.5 mm ²	Per m run	5.80
3	1 x 2.5 mm ²	Per m run	7.00
4	1 x 4.0 mm ²	Per m run	7.80
5	1 x 6.0 mm ²	Per m run	8.80
6	1 x 10.0 mm ²	Per m run	11.80
7	1 x 16.0 mm ²	Per m run	15.00
8	1 x 25.0 mm ²	Per m run	22.00
9	1 x 35.0 mm ²	Per m run	28.30
10	1 x 50.0 mm ²	Per m run	36.90
11	1 x 70.0 mm ²	Per m run	48.00
12	1 x 95.0 mm ²	Per m run	52.00

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SECTION B - WIRING CABLES IN CONDUIT ON METAL / PVC TRUNKING (CONT'D)

Item No.	Description	Unit	Rate (\$)
IV	Flexible Cords to SS638:2018		
1	2C 23/0076 (Red & Black)	Per m run	0.60
2	2C x 7/029 (Flat Cable) (~2.5mm ²)	Per m run	0.80
3	3C x 23/0076 (~1.0mm ²)	Per m run	1.10
4	3C x 40/0076 (~1.5mm ²)	Per m run	1.40
5	3C x 70/0076 (~2.5mm ²)	Per m run	1.80
6	3C x 110/0076 (~4.0mm ²)	Per m run	2.10
7	3C x 162/0076 (~6.0mm ²)	Per m run	3.20
8	4C x 110/0076 (~4.0mm ²)	Per m run	3.70
9	4C x 162/0076 (~6.0 mm ²)	Per m run	4.20
V	Neoprene Cable to SS638:2018		
1	3C x 2.5mm ²	Per m run	3.20
2	3C x 4.0mm ²	Per m run	8.00
3	3C x 6.0mm ²	Per m run	9.70
4	3C x 10.0mm ²	Per m run	18.00
5	3C x 16.0mm ²	Per m run	22.00
6	5C x 6.0mm ²	Per m run	11.30
7	5C x 10.0mm ²	Per m run	22.00
8	5C x 16.0mm ²	Per m run	28.00

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SECTION C - STEEL / PVC TRUNKING, METAL CONDUIT, CABLE TRAY AND PVC CONDUIT

Supply labour and material to install the followings including fixing, making of the concrete work, painting of steel trunking, and metal conduit (to any colour) per metre run.

1. Steel Trunking c/w removable cover and bracket (not exceeding 1 metre spacing) including copper link and screws per metre run

Sizes (mm)	Item No.	20 Gauges Rate (\$)	Item No.	18 Gauges Rate (\$)
50 x 25	1.1	4.90	1.2	5.80
50 x 50	1.3	6.10	1.4	7.00
75 x 50	1.5	7.20	1.6	8.80
100 x 50	1.7	8.90	1.8	9.80
100 x 75	1.9	10.40	1.10	12.30
100 x 100	1.11	13.00	1.12	14.30
150 x 50	1.13	11.10	1.14	13.00
150 x 75	1.15	12.00	1.16	14.00
150 x 100	1.17	13.90	1.18	15.70
200 x 100	1.19	14.60	1.20	17.20
250 x 150	1.21	16.60	1.22	18.40
300 x 150	1.23	17.50	1.24	19.40

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SECTION C - STEEL / PVC TRUNKING, METAL CONDUIT, CABLE TRAY AND PVC CONDUIT (CONT'D)

2. PVC trunking complete with cover per metre run

Item No.	Size (mm)	Rate (\$)
2.1	12 x 6	1.90
2.2	25 x 12	2.60
2.3	40 x 20	3.80
2.4	50 x 25	4.50
2.5	50 x 50	8.20
2.6	75 x 50	8.80
2.7	100 x 50	9.50
2.8	100 x 75	10.10
2.9	150 x 100	10.80

3. Galvanised Iron Conduit c/w saddles / clamps (not exceeding 2 metres' spacing) conduit boxes per metre run

Size	On Surface	
	Item No.	Rate (\$)
20mm (3/4")	3.1	6.10
25mm (1")	3.2	6.80
32mm(1 1/2")	3.3	8.70
40mm(1 3/4")	3.4	12.60

4. Flexible Conduit (metal type) per metre run

Size	Item No.	Rate (\$)	Brass Termination Gland (each)	
			Item No.	Rate (\$)
18/20mm	4.1	4.30	4.2	2.30
25mm	4.3	6.00	4.4	2.60

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SECTION C - STEEL / PVC TRUNKING, METAL CONDUIT, CABLE TRAY AND PVC CONDUIT (CONT'D)

5. Flexible Conduit (PVC high impact weatherproof type) per metre run

Size	Item No.	Rate (\$)	PVC Termination Gland (each)	
			Item No.	Rate (\$)
20mm	5.1	3.10	5.2	1.90
25mm	5.3	3.60	5.4	2.30

6. Cable Tray

Item No.	Description	Unit	Rate (\$)
6.1	Supply and install 1.2mm thick 50mm hot-dipped galvanised cable tray fixed onto walls or ceiling including all factory fabricated bends, junctions, joints and brackets, etc.	Per m	11.70
6.2	- do - 1.2 thick 75mm - do -	Per m	12.10
6.3	- do - 1.2 thick 100mm - do -	Per m	13.40
6.4	- do - 1.2 thick 150mm - do -	Per m	16.30
6.5	- do - 1.6mm thick 200mm - do -	Per m	20.20
6.6	- do - 1.6mm thick 300mm - do -	Per m	29.00

7. PVC Conduit complete with Saddles, Elbows, Sockets, Inspection Boxes, per metre run

Size	On Surface	
	Item No.	Rate (\$)
20mm (3/4")	7.1	3.00
25mm (1")	7.2	3.60
32mm(1 1/4")	7.3	4.70

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SECTION D - SWITCHES, SOCKET OUTLETS, DIMMER, FAN SPEED CONTROL, ETC. (EXCLUDING WIRING POINT BUT INCLUDING CABLE TERMINATIONS)

Supply all material, labour and install in surface or concealed in wall / column including mounted PVC box or metal box.

Item No.	Description	Unit	Rate (\$)	
			For Surface Only	For Concealed Only
1	5 amp, 1 way, 1 gang, single pole, plate switch complete with moulded PVC box or metal box.	Each	6.00	8.00
2	As item 1 - but 2 way	Each	7.70	9.70
3	As item 1 - but 2 gang	Each	9.70	11.70
4	As item 1 - but 3 gang	Each	11.30	13.30
5	As item 1 - but 4 gang	Each	13.00	15.00
6	As item 1 - but 5 gang	Each	14.00	16.00
7	5 amp, 3-pin lighting / fan switch socket (shuttered type).	Each	4.00	6.00
8	13 amp, 3-pin switch socket-outlet c/w moulded PVC box or metal box.	Each	7.50	9.50
9	As item 8 - but 2 gang.	Each	16.00	20.00
10	15 amp, 3-pin round switch socket-outlet c/w moulded PVC box or metal box.	Each	18.00	20.00
11	5 amp metalclad switch SP c/w metal box.	Each	10.00	15.00
12	As item 11 - but 2 gang.	Each	13.00	18.00
13	As item 11 - but 3 gang.	Each	16.00	21.00
14	As item 11 - but 4 gang.	Each	17.00	24.00
15	5 amp weatherproof SP c/w box for surface mounting.	Each	22.00	-
16	As item 15- but 2 gang.	Each	30.00	-
17	13 amp, 3-pin metal clad switch socket outlet c/w metal box.	Each	14.00	16.00
18	As item 17 - but 2 gang.	Each	20.50	22.50

TERM CONTRACT FOR MINOR WORKS, SERVICING, MAINTENANCE AND REPAIR OF EXISTING ELECTRICAL INSTALLATIONS AT SENTOSA (INCLUDING SENTOSA COVE) FOR A PERIOD OF THREE (3) YEARS

FIXED SCHEDULE OF RATES II

SECTION D - SWITCHES, SOCKET OUTLETS, DIMMER, FAN SPEED CONTROL, ETC. (EXCLUDING WIRING POINT BUT INCLUDING CABLE TERMINATIONS)
(CONT'D)

Item No.	Description	Unit	Rate (\$)	
			For Surface Only	For Concealed Only
19	15 amp 3-pin metal clad switch socket outlet c/w box.	Each	22.00	24.00
20	13 amp, 3-pin weatherproof switch socket outlet c/w box.	Each	50.00	-
21	15 amp, 3-pin weatherproof switch socket outlet c/w box.	Each	60.00	-
22	Light control dimmer plate c/w box.	Each		
	i. 500W	Each	30.00	-
	ii. 1000W	Each	60.00	-
23	Ceiling / wall fan speed control plate c/w box & 5 amp SP switch.	Each	20.00	22.00
24	Exhaust/Supply fan speed control plate c/w box & 5 amp switch.	Each	20.00	22.00
25	5 amp plug top 3-pin type.	Each	3.20	-
26	13 amp Plug top 3-pin type.	Each	4.00	-
27	15 amp Plug top 3-pin type.	Each	6.80	-
28	Push button switch plate c/w box.	Each	30.00	-
29	Heater Switch.	Each	35.00	

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FIXED SCHEDULE OF RATES II

SECTION E

LIGHTNING AND SURGE PROTECTION

Items listed below shall comply with SS 555:2018

Item No.	Description	Unit	Rate (\$)	
			Copper	Aluminium
1	Supply and install lightning finial 300mm x 16mm diameter c/w base plate including connecting up to interconnecting tape.	Each	40.30	20.00
2	Supply and install lightning finial 500mm x 16mm diameter c/w base-plate including connecting up to interconnecting tape.	Each	45.50	28.00
3	Supply and install 20mm x 3.25mm tape using purpose made brass saddles cement blocks at one meter intervals.	Per m run	13.50	8.00
4	As item 3, but using 25mm x 3.25mm tape.	Per m run	20.00	12.00
5	Supply and install square test clamp for forming straight through, cross or tee joint.	Each	10.40	6.00

Notes: T or square clamps are payable only where there is a need for the lightning conductor tape to change direction. Mere straight through joints are not allowed to be claimed by the Contractor.

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FIXED SCHEDULE OF RATES II

SECTION E (CONT'D)

LIGHTNING AND SURGE PROTECTION (CONT'D)

Item No.	Description	Unit	Rate (\$)
6	Supply and install brass test clamp bolt or ramset onto wall.	Each	25.00
7	Supply and install lightning earth electrode 3.6m x 16mm diameter solid copper made clamps and galvanised inspection pit fitted with heavy duty hinged cover and fibre glass PVC base with riveted traffolyte labeling "Lightning Earth Electrode Do Not Remove".	Each	160.00
8	Supply and install additional solid copper rod 1.8m x 16mm.	Each	25.00
9	Supply and install Bi-metallic connector for jointing aluminium to copper tape including connecting up copper / aluminum tapes and saddles.	Each	38.00
10	Supply and install lightning finial 25cm x 35cm diameter each fabricated from galvanised sheet steel, including connecting up to interconnecting GI.	Per m run	6.00
11	Supply and install 7/14 GI wire testes or finials.	Each	3.00
12	Supply and install of A clamp.	Each	40.00
13	Supply and install of copper rod coupling / skim.	Each	19.50
14	To take down of existing GI wires, tape or finials & etc.	Per m	4.00
15	Construct concrete base for the earth chamber/box etc.	Each	43.00
16	Supply earth tester and labour for testing of earth electrodes resistance value (first rod).	Each	40.00
17	As item 16, for subsequent rod test.	Each	20.00

NOTE: Rates for scaffolding – Please refer to Section Q herein.

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FIXED SCHEDULE OF RATES II

SECTION E (CONT'D)

SURGE PROTECTORS

Supply and install the following lightning / high voltage surge protective devices list enclosures

Item No.	Description	Unit	Rate (\$)
18	Highly non-linear single phase surge protection of characteristic {a>30}, as OBO V20C or equivalent, 0.8 KV impulse breakdown voltage, 20/75 KA current capacity (8/20 characteristic) for DIN-rail mounting.	Per Set (2nos)	208.00
19	As item 18 but with audio & visual monitoring.	Per Set	416.00
20	Highly non-linear 3 phase surge protection of characteristic {a>30}, as OBO V20C or equivalent, 0.8 KV impulse breakdown voltage, 75 KA current capacity (8/20 characteristic). Modular design with one base and 4 modules.	Per Set (4nos)	416.00
21	As item 20 but with audio & visual monitoring.	Per Set	726.00
22	13A surge protective plug top, impulse breakdown voltage 0.6 KV, 2.5 KA current capacity (8/20 characteristics).	Nos.	53.80
23	As item 22 but for 15A.	Nos.	88.00
24	Surge protection modules for modem lines, PZ-024-HA or equivalent, impulse breakdown voltage <58.5 V DC, current capacity 10 KA (8/20 characteristics).	Pair	88.00
25	Single phase surge protection module for DB board DIN rail mounting as SP-200-2D or equivalent, impulse breakdown voltage < 1KV, current capacity 20 KA (8/20 characteristics) with thermal fault indications as an integral unit with Live, Neutral and Earth connections.	Per set (2nos)	135.00
26	Supply and install surface moulded box c/w 4-6 way DIN rail and teak block for connection of surge arrestors or MCBs/RCCBs & etc.	Each	39.00

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FIXED SCHEDULE OF RATES II

SECTION F - EARTHING

Items listed below shall comply with SS 551:2009.

Item No.	Description	Unit	Rate (\$)
1	Supply and install alternative mains "earth" electrode 16mm dia. x 3.6m solid copper rod c/w brass or copper made clamps and galvanized inspection pit fitted with heavy duty hinged cover and fibre glass PVC base with riveted traffolyte labeling: SAFETY EARTH ELECTRODES "DO NOT REMOVE"	Each	154.00
2	Supply and install alternative mains "earth" electrode 16mm dia. x 5.4m solid copper rod c/w brass or copper made clamps and galvanized inspection pit fitted with heavy duty hinged cover and fibre glass base with riveted traffolyte labeling: SAFETY EARTH ELECTRODES "DO NOT REMOVE"	Each	176.00
3	Supply and lay in prepared trench, 300mm depth (inclusive of excavating in ground, backfilling and re-turfing).		
	i. 20mm x 3.20mm copper tape	per m run	27.50
	ii. 25mm x 3.20mm copper tape	per m run	31.00
4	Earth clip sizes 19mm to 50mm.	per m run	1.90
5	Earth pit c/w 1m x 1m x 3mm thick copper plate 5nos 16mm dia. x 3.6m long copper earth electrode connecting to concrete inspection pit as per attached drawing. (Sketch F1)		
	i. 2m deep	per set	1,490.00
	ii. 4m deep	per set	1,764.00

TERM CONTRACT FOR MINOR WORKS, SERVICING, MAINTENANCE AND REPAIR OF EXISTING ELECTRICAL INSTALLATIONS AT SENTOSA (INCLUDING SENTOSA COVE) FOR A PERIOD OF THREE (3) YEARS

FIXED SCHEDULE OF RATES II

SECTION F - EARTHING (CONT'D)

Item No.	Description	Unit	Rate (\$)
6	i. Supply and install galvanised pit fitted with heavy duty hinged cover and fibre glass base.	Each	48.00
	ii. As item 6(i), but with riveted traffolyte labeling:	Each	70.00
	SAFETY EARTH ELECTRODES "DO NOT REMOVE"		
7	Supply and install additional copper rod 16mm x 1.8m.	Each	26.00
8	Supply earth tester and labour for testing of earth electrode resistance value (first rod).	Each	26.00
9	As item 8, but for subsequent rod test.	Each	6.50

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FIXED SCHEDULE OF RATES II

SECTION G - RESIDUAL CURRENT CIRCUIT BREAKER (RCCB)

Supply labour, materials and install the following RCCB / ELR to SS 97:2016, less enclosure

Item No.	Type	Unit	Rate (\$)
1	40/0.03A or 0.1, 2-pole, 230V	Each	70.00
2	40/0.03A or 0.1, 4-pole, 400V	Each	100.00
3	63A/0.03A or 0.1, 2-pole, 230V	Each	80.00
4	63/0.03A or 0.1, 4-pole, 400V	Each	135.00
5	100A/0.1A, 4-pole, 400V	Each	186.30
6	63A/0.2A to 0.5, 2-pole, 230V	Each	80.00
7	63A/0.2A to 0.5A, 4-pole, 400V	Each	150.00
8	100A/0.2A to 0.5A, 4-pole, 400V	Each	186.30
9	Combined RCCB/MCB in-one as follows: RCCB - 10mA 0.1 sec trip 30A MCB - 5-30A (Type 2-4) M6 duty	Each	143.00
10	Combined RCCB/13A socket in-one installed into 2 gang box as follows: RCCB - 10mA 0.1 sec. trip 30A Socket outlet: 13A rectangular pin on ivory plate.	Each	100.00
11	Supply and install earth leakage relay of current ratings sensitivity 0.2A to 3A and time setting of 0.2 sec to 0.5sec 240v/415v c/w zero current transformer of cable entry size from 40 to 80mm ² including all short cable terminations.	Each	400.00
12	Supply and install earth leakage relay of current ratings sensitivity above 3A to 10A and time setting of 0.2 sec to 0.5sec 240v/415v c/w zero current transformer of cable entry size from 40 to 80mm ² including all short cable terminations.	Each	630.00

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FIXED SCHEDULE OF RATES II

SECTION H – DISTRIBUTION BOARDS, SWITCHBOARDS & ACCESSORIES

1. Supply and install in conduit, surface on PVC trunking wiring system, including all necessary accessories, bolts and nuts, cutting of holes, mounting short length of cables, etc. and ready to operate the following:

Item No.	Description	Unit	Rate (\$)
I	Supply and install 500V moulded case type distribution MCB board only c/w moulded cover and neutral earth connectors with the facilities for mounting the following no. of way of circuit breaker including short lengths of appropriately sized cables to adjacent existing distribution board not exceeding 2m in length.		
1.1	8, 12 & 14ways single pole	Each	85.00
1.2	16, 20 & 24 ways single pole	Each	120.00
1.3	28, 32, & 36 ways single pole	Each	150.00
1.4	4 ways triple pole	Each	80.00
1.5	8 ways triple pole	Each	120.00
1.6	12 ways triple pole	Each	190.00
1.7	16 ways triple pole	Each	255.00
1.8	18 ways triple pole	Each	283.50
II	As item I but for metal-clad distribution type distribution MCB board.		
1.9	8, 12 & 14 ways single pole	Each	120.00
1.10	16, 20 & 24 ways single pole	Each	190.00
1.11	28, 32, & 36 ways single pole	Each	280.00
1.12	8 ways triple pole	Each	154.00
1.13	12 ways triple pole	Each	225.00
1.14	16 ways triple pole	Each	319.00
1.15	18 ways triple pole	Each	350.00
III	Supply and install the following MCB for mounting at distribution MCB boards		
1.16	6A to 32A SP	Each	12.00
1.17	40A to 60A SP M9 Type B, C & D	Each	22.30
1.18	10A to 63A DP M9 Type B, C & D	Each	48.00

TERM CONTRACT FOR MINOR WORKS, SERVICING, MAINTENANCE AND REPAIR OF EXISTING ELECTRICAL INSTALLATIONS AT SENTOSA (INCLUDING SENTOSA COVE) FOR A PERIOD OF THREE (3) YEARS

FIXED SCHEDULE OF RATES II

SECTION H – DISTRIBUTION BOARDS, SWITCHBOARDS & ACCESSORIES (CONT'D)

Item No.	Description	Unit	Rate (\$)
III	Supply and install the following MCB for mounting at distribution MCB boards (cont'd)		
1.19	10A to 63A TP M9 Type B, C & D	Each	87.00
1.20	100A TP M9 Type B, C & D	Each	141.40
1.21	32A to 63 4P M9 Type B, C & D	Each	103.00
1.22	100A 4P M9 Type B, C & D	Each	125.00
IV	Supply and install the following isolators for mounting at distribution MCB boards		
1.23	6-32A SP isolator	Each	13.00
1.24	60A SP isolator	Each	17.00
1.25	100A single pole isolator	Each	25.00
1.26	30A double pole isolator	Each	14.90
1.27	60A double pole isolator	Each	32.20
1.28	100A double pole isolator	Each	43.40
1.29	30A triple pole isolator	Each	35.40
1.30	60A triple pole isolator	Each	54.00
1.31	100A triple pole isolator	Each	91.00
1.32	160A triple pole isolator	Each	130.00
V	Supply and install the following isolator c/w HRC switch fuse		
1.33	15A TPN metal-clad isolator	Each	37.80
1.34	30A TPN metal-clad isolator	Each	90.00
1.35	60A TPN metal-clad isolator	Each	180.00
1.36	100A TPN metal-clad isolator	Each	360.00
1.37	160A TPN metal-clad isolator	Each	405.00
1.38	200 A TPN metal-clad isolator	Each	600.00
1.39	15A metalclad cut-out c/w re-wireable fuse	Each	9.40
1.40	30A metalclad cut-out c/w re-wireable fuse	Each	10.80
1.41	60A metalclad cut-out c/w re-wireable fuse	Each	20.00

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FIXED SCHEDULE OF RATES II

SECTION H – DISTRIBUTION BOARDS, SWITCHBOARDS & ACCESSORIES (CONT'D)

Item No.	Description	Unit	Rate (\$)
V	Supply and install the following isolator c/w HRC switch fuse (cont'd)		
1.42	15A multi-way connector (BI)	Each	6.90
1.43	30A multi-way connector (BI)	Each	8.90
1.44	60A multi-way connector (BI)	Each	10.90
1.45	100A multi-way connector (BI)	Each	21.00
1.46	150A - 300A multi-way connector (BI)	Each	34.00
1.47	Earth / Neutral Brass connector multi-way up to 10 ways	Each	6.00
1.48	Earth / Neutral Brass connector multi-way from 11 up to 20 ways	Each	10.00
1.49	IDC 12-20 way multi-way connector	Each	30.00
1.50	Clip-on bakelite connectors 6-32A	Each	4.50
1.51	Connector, 600V 80A Legrand or equivalent	Each	7.00
1.52	Single way contactor, Kasuga or equivalent	Each	12.00
1.53	4-ways connector, 600v, TC30 Kasuga or equivalent	Each	17.00
1.54	4-ways connector, 600v, TC60 Kasuga or equivalent	Each	22.00
1.55	4-ways connector, 600v, TC100 Kasuga or equivalent	Each	33.00
1.56	230V Contactor i. 20A, 2-pole ii. 20A, 4 pole iii. 40A, 4 pole iv. 63A, 4 pole	Each Each Each Each	45.00 60.00 100.00 130.00
1.57	Analog / Mechanical Time Switch motor operated 230V, 50 Hz, 1350w, Grasslin V86/1 QRTU or equivalent.	Each	80.00
1.58	Digital Time Switch motor operated 230V, 50 Hz, 1,350w, HAGER EG170 or equivalent.	Each	150.00

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FIXED SCHEDULE OF RATES II

SECTION H – DISTRIBUTION BOARDS, SWITCHBOARDS & ACCESSORIES (CONT'D)

Item No.	Description	Unit	Rate (\$)
V	Supply and install the following isolator c/w HRC switch fuse (cont'd)		
1.59	Digital Time Switch, motor operated 230V, 50HZ, 1,350W HAGER EG 270 or equivalent.	Each	230.00
1.60	Timer Relay c/w Terminal Block, 230V AC; Time : 0.6s to 24 hr	Each	120.00
1.61	OMRON ZEN V2 24hrs/weekly Timer Switch 230V,50 Hz	Each	260.00
1.62	MCB Link Bus-bar for all types up to 200mm in length	Each	16.00

2. Moulded Case Circuit Breaker (MCCB)

Supply and installation of moulded case circuit breaker with or w/o shunt trip Coil to IEC 439 Pt2 c/w metal / heavy duty insulated enclosures c/w traffolyte labeling.

Item No.	Description	Unit	(a) 22/36KA Rate (\$)	(b) 43/50KA Rate (\$)
2.1	30A to 32A DP	Each	140	206
2.2	45A to 60A DP	Each	180	206
2.3	100A to 150A DP	Each	220	290
2.4	30A to 32A TPN	Each	240	300
2.5	45A to 60A TPN	Each	290	348
2.6	100A to 125A TPN	Each	400	455
2.7	150A to 160A TPN	Each	560	650
2.8	200A to 225A TPN	Each	670	884
2.9	250A to 300A TPN	Each	884	975
2.10	400A TPN	Each	975	1140

FIXED SCHEDULE OF RATES II

SECTION H – DISTRIBUTION BOARDS, SWITCHBOARDS & ACCESSORIES (CONT'D)

3. Mechanical Linkage Manual Transfer Switch MCCB

Supply & install of the following 30KA Mechanical Linkage Manual Transfer Switch MCCB

Item No.	Description	Unit	Rate (\$)
3.1	4 pole 60A	1 pair	250.00
3.2	4 Pole 160A	1 pair	800.00
3.3	4 Pole 250 A	1 pair	950.00
3.4	4 Pole 400 A	1 pair	1150.00

4. Tap-Offs

NOTE: Cost of metal enclosures and teak block inclusive for set of 4 or of 4 or more line taps (Sketch I6)

Supply and install line tap c/w teak block and mounting box for the following cable sizes:

Item No.	Description	Unit	Rate (\$)
4.1	10 mm ² – 16 mm ²	Each	33.00
4.2	25 mm ² – 50 mm ²	Each	44.00
4.3	70 mm ² – 120 mm ²	Each	55.00

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FIXED SCHEDULE OF RATES II

SECTION H – DISTRIBUTION BOARDS, SWITCHBOARDS & ACCESSORIES (CONT'D)

4. Tap-Offs (Cont'd)

Supply and install riser 5-bar appropriate sized bus-bar tap-off 16 SWG metal box c/w bus-bar support, bolts and nuts and termination & etc. as per Sketch I6. (Actual size of box to SO's details)

Item No.	Description	Unit	Rate (\$)
4.4	For 60A	Each	180.00
4.5	For 100A	Each	240.00
4.6	For 160A	Each	300.00
4.7	For 200A	Each	360.00
4.8	For 300A	Each	480.00
4.9	For 400A	Each	660.00

5. Supply and install the following switchboard accessories:

Item No.	Description	Unit	Rate (\$)
5.1	Kasuga or equivalent DTL Earth Fault relay c/w 105 deg Celsius small wiring.	set	580.00
5.2	Kasuga or equivalent DTL Over Current relay for 3 phase c/w 105 deg Celsius small wiring.	set	780.00
5.3	GEC or equivalent IDMTL Earth Fault relay c/w 105 deg Celsius small wiring.	set	1,050.00
5.4	GEC or equivalent IDMTL Over Current relay for 3 phase c/w 105 deg Celsius small wiring.	set	2,277.00
5.5	IDMTL combine Over Current & Earth Fault Relay including minor modifications.	set	2,400.00
5.6	Indicator lights c/w low voltage transformer & cover, holder.	set of 3	90.00

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FIXED SCHEDULE OF RATES II

SECTION H – DISTRIBUTION BOARDS, SWITCHBOARDS & ACCESSORIES (CONT'D)

Item No.	Description	Unit	Rate (\$)
5.7	Fuse holders c/w 2A HRC cartridge fuses and wiring.	set of 3	85.00
5.8	Supply and install Class 1 Ammeter, size 96mm x 96mm flush mounted, instantaneous type	Nos.	72.00
5.9	Supply and install Class 1 Ammeter, size 96mm x 96mm flush mounted (8 min), maximum demand type	Nos.	172.00
5.10	Supply and install Class 1 Ammeter, size 96mm x 96mm flush mounted combined (8 min) Maximum demand and instantaneous type (2 dial)	Nos.	286.00
5.11	Supply and install Class 1, 500V Voltmeter size 96mm x 96mm flush mounted c/w 7 way selector switch and wiring	Each	90.00
5.12	Castell keys	Each	110.00
5.13	Ronis key c/w lock for MCCB	Each	34.00

6. Supply and installation of Current Transformer (minimum 15VA)

Item No.	Description	Unit	Rate (\$)
6.1	5P10 up To 400A/5A Protection	Nos.	138.00
6.2	5P10 500A - 1000A/5A Protection	Nos.	205.00
6.3	5P10 1200A - 2500A/5A Protection	Nos.	261.00
6.4	5P5 up To 400A/5A Protection	Nos.	120.00
6.5	5P5 500A - 1000A/5A Protection	Nos.	176.00
6.6	5P5 1200A - 2500A/5A Protection	Nos.	220.00
6.7	Class 1 Up to 400A/5A Metering	Nos.	116.00
6.8	Class 1 500A - 1000A/5A Metering	Nos.	172.00
6.9	Class 1 1200A - 2500A/5A Metering	Nos.	228.00

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FIXED SCHEDULE OF RATES II

SECTION I - LIGHT FITTINGS & BRACKETS

Item No.	Description	Unit	Rate (\$)
1	Supply and install including supplying necessary lengths of flexible cords, down-rods (up to 2 x 1m length), conduits, boxes, expansion bolts, screws or ramset of sizes to suit plugs & etc. and connecting up ready to function the following:		
1.1a	Pole top fitting 400mm diameter spherical opal / clear diffuser c/w 70w sodium lamp or LED equivalent Wattage, integral control gear and mounting arm. (see Sketch J1)	Each	297.00
1.1b	Pole top fitting 450mm diameter spherical opal / clear diffuser c/w 70W sodium lamp or LED equivalent Wattage, integral control gear and mounting arm. (see Sketch J1)	Each	351.00
1.1c	Pole top fitting 500mm diameter spherical opal / clear diffuser c/w 70W sodium lamp or LED equivalent Wattage, integral control gear and mounting arm. (see Sketch J1)	Each	429.00
1.2a	GS spotlight fitting c/w 20 to 50 watt PAR 38 LED reflector lamp, mounting base or spike. (see Sketch J2)	Each	187.00
1.2b	As item 1.2a but with 51 to 100watt Par 38 LED lamp	Each	250.00
1.3	High bay fitting with rugged, heavy duty die cast aluminum housing and either upright or direct high purity heavy gauge aluminum reflector c/w control gear and mounting arm and chain and etc accessories.		
	i. For 50W - 90W LED lamp	Each	490.00
	ii. For 100W - 150W LED lamp	Each	720.00
1.4	Street light fitting with reinforced polyester housing in blue-grey and high purity anodized aluminium mirrors. (The bowl hinges automatically on the housing when the clip has been unfastened) c/w control gear and mounting arm.		
	i. For 70W sodium lamp (see Sketch J4)	Each	275.00
	ii. For 150W sodium lamp (see Sketch J5)	Each	347.00
	iii. For 250W Sodium lamp (see Sketch J5)	Each	420.00

TERM CONTRACT FOR MINOR WORKS, SERVICING, MAINTENANCE AND REPAIR OF EXISTING ELECTRICAL INSTALLATIONS AT SENTOSA (INCLUDING SENTOSA COVE) FOR A PERIOD OF THREE (3) YEARS

FIXED SCHEDULE OF RATES II

SECTION I - LIGHT FITTINGS & BRACKETS (CONT'D)

Item No.	Description	Unit	Rate (\$)
1.5	Wall mount fitting with removable one piece injection molded polycarbonate door and prismatic lens hinges for full front access. (Lens is UV stabilized and interior door surface finished in bronze). One piece, heavy duty, die cast aluminum housing c/w 80/125W mercury / sodium / metal halide lamp and control gear. (See Sketch J6)	Each	330.00
1.6	Wall mount fitting with prism glass reflector mounted on hinged frame with weatherproof gasket (IP 55 protection) c/w 2 X 20W LED lamp and driver housed in aluminium beige finished base. (See Sketch J7)	Each	393.00
1.7	Heavy duty dust-tight jet proof bulkhead fitting complies with BS 4533-102.1 IP65 c/w 2 X 12W LED lamp and driver. (See Sketch J8)	Each	393.00
1.8	Pole top fitting black c/w 13W E27 lamp full set with aluminum reflector, gasket. (See Sketch J9)	Each	221.00
1.9	Metal-Halide Floodlights Fitting c/w Control Gears Lamps, Brackets & etc.		
	i. 70w	Each	358.00
	ii. 150w	Each	374.00
	iii. 250w	Each	394.00
	iv. 400w	Each	429.00
1.10	i. 2 channels & 3 wire rope light 13mm diameter, 2.78cm bulb spacing, 2m cutting unit, 33.12W/unit, 230V.	Per m	11.70
	ii. Controller WL - 3C	Each	115.00
	iii. Controller WL - 5C	Each	130.00
1.11	Accessories for item 1.10		
	i. Power cord c/w male & female connector (C1 & C2)	Each	8.00
	ii. Pin connector (C9)	Each	3.30
	iii. End cap (C4)	Each	0.70
1.12	SBP MYRA 21 Pole Top Fitting c/w E27 20/25W lamp (see Sketch J6)	Each	325.00

TERM CONTRACT FOR MINOR WORKS, SERVICING, MAINTENANCE AND REPAIR OF EXISTING ELECTRICAL INSTALLATIONS AT SENTOSA (INCLUDING SENTOSA COVE) FOR A PERIOD OF THREE (3) YEARS

FIXED SCHEDULE OF RATES II

SECTION I - LIGHT FITTINGS & BRACKETS (CONT'D)

Item No.	Description	Unit	Rate (\$)
2	LED Light Fittings Type: Batten LED Luminaire		
2.1	1 x 20W, 625mm in length c/w tubes	Each	54.00
2.2	2 x 20W, 625mm in length c/w tubes	Each	63.00
2.3	1 x 36W,1235mm in length c/w tubes	Each	72.00
2.4	2 x 36W, 1235mm in length c/w tubes	Each	82.00
2.5	1 x 58W, 1540mm in length c/w tubes	Each	95.00
3	Batten LED Luminaire with Metal Reflector		
3.1	1 x 36W, 1235mm in length c/w tubes	Each	100.00
3.2	2 x 36W,1235mm in length c/w tubes	Each	140.00
4	Batten LED Luminaire with Plastic Reflector		
4.1	1 x 36W, 1235mm in length c/w tubes	Each	84.00
4.2	2 x 36W,1235mm in length c/w tubes	Each	100.00
4.3	1 x 58W, 1540mm in length c/w tubes	Each	130.00
5	Batten LED Luminaire with Wall or surface mounting with Angle Reflector, Open End Backboard Type		
5.1	1 x 36W, 1235mm in length c/w tubes	Each	88.20
5.2	1 x 58W, 1540mm in length c/w tubes	Each	102.00
6	Batten LED Luminaire with Wire-Guard and Hinge Lockable type		
6.1	1 x 20W, 625mm in length c/w tubes lock & master keys	Each	100.00
6.2	1 x 36W, 1235mm in length c/w tubes lock & master keys	Each	140.00
7	Weatherproof LED Luminaire with Minimum IP55 Protection		
7.1	1 x 20W, 677mm in length c/w tube	Each	75.00
7.2	2 x 20W ,677mm in length c/w tube	Each	90.00
7.3	1 x 36W, 1267mm in length c/w tube	Each	110.00
7.4	2 x 36W, 1267mm in length c/w tubes	Each	125.00

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FIXED SCHEDULE OF RATES II

SECTION I - LIGHT FITTINGS & BRACKETS (CONT'D)

Item No.	Description	Unit	Rate (\$)
8	<u>Recessed Mounting for Suspended Ceiling Board. Type with Hinge aluminium frame and prismatic acrylic diffuser for batwing light distribution</u>		
8.1	2 x 20W, 625mm in length c/w tubes	Each	84.00
8.2	3 x 20W, 625mm in length c/w tubes	Each	114.00
8.3	2 x 36W, 1245mm in length c/w tubes	Each	140.00
8.4	3 x 36W, 1245mm in length c/w tubes	Each	156.00
8.5	4 x 36W, 1245mm in length c/w tubes	Each	190.00
8.6	Down rods not exceeding 2 lengths x 1 m	Each	13.00
8.7	Additional length of down rods (for LED fitting)	Each	7.00
9	<u>Surface Mounting LED Luminaire with Prismatic acrylic diffuser and 2 end caps</u>		
9.1	1 x 20W, 625mm in length c/w tubes	Each	84.00
9.2	2 x 20W, 625mm in length c/w tubes	Each	100.00
9.3	1 x 36W, 1235mm in length c/w tubes	Each	130.00
9.4	2 x 36W, 1235mm in length c/w tubes	Each	140.00
10	<u>Reed prismatic diffuser fitting with 2 metal end cap</u>		
10.1	1 x 20W, c/w tubes	Each	70.00
10.2	2 x 20W, c/w tubes	Each	85.00
10.3	1 x 36W, c/w tubes	Each	100.00
10.4	2 x 36W, c/w tubes	Each	115.00
11	<u>Recessed mounting for suspended ceiling board type, M2 mirror optic diffuser, LED</u>		
11.1	2 x 20W, (300mm x 600mm) c/w tubes	Each	133.00
11.2	3 x 20W, (600mm x 600mm) c/w tubes	Each	170.00
11.3	2 x 36W, (300mm x 1200mm) c/w tubes	Each	142.50
11.4	3 x 36W, (600mm x 1200mm) c/w tubes	Each	192.00
12	<u>Surface or pendant mounting type, M2 mirror optic diffuser, LED</u>		
12.1	2 x 20W, (300mm x 600mm) c/w tubes	Each	102.00
12.2	3 x 20W, (600mm x 600mm) c/w tubes	Each	142.00
12.3	2 x 36W, (300mm x 1200mm) c/w tubes	Each	133.00
12.4	3 x 36W, (600mm x 1200mm) c/w tubes	Each	182.00

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FIXED SCHEDULE OF RATES II

SECTION I - LIGHT FITTINGS & BRACKETS (CONT'D)

Item No.	Description	Unit	Rate (\$)	
			Concealed mounted (Bracket and control gear above false ceiling)	Surface Mounted
13	EXIT LIGHT with self contained unit c/w LED indicating light and test button (slimline design) to FSB requirement			
13.1	1 x 8-10W exit light (single face) with fluorescent lamp or LED Type Fittings & nickel cadmium battery pack	Each	150.00	132.00
13.2	1 x 8-10W exit light (double face) with fluorescent lamp or LED Type Fittings & nickel cadmium battery pack	Each	162.00	143.00
13.3	1 x 8-10W exit light (single face with arrow) with fluorescent lamp or LED & nickel cadmium battery pack	Each	162.00	143.00
13.4	1 x 8-10W exit light (double face with arrow) with fluorescent lamp or LED & nickel cadmium battery pack	Each	174.00	156.00
14	Non-maintained and maintained emergency lighting LED luminaires c/w minimum 2 hours duration nickel cadmium batteries, LED indicating light and test button			
14.1	1 x 8-10W (opal diffuser)	Each	-	146.00
14.2	1 x 18W (acrylic prismatic diffuser)	Each	-	207.00
14.3	1 x 36W (acrylic prismatic diffuser)	Each	-	247.00
14.4	2 x 10W LED PAR 36 c/w antiglare glass	Each	-	143.00
14.5	1 x 10W, 6V LED recessed fitting	Each	-	128.00

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FIXED SCHEDULE OF RATES II

SECTION I - LIGHT FITTINGS & BRACKETS (CONT'D)

Item No.	Description	Unit	Rate (\$)
15	Supply and install including wiring and connecting up ready to function the following:		
15.1	Power pack suitable for fluorescent tube / LED tube c/w minimum 2 hours duration nickel cadmium batteries		
	i. 1 x 8W	Each	60.00
	ii. 1 x 18/20W	Each	80.00
	iii. 1 x 36W	Each	103.00
15.2	High Abuse Flour fitting c/w 1 x 18W LED lamp surface mounted (kenall or approved equivalent)	Each	260.00
15.3	High Abuse Flour fitting c/w 1 x 36W LED lamp surface mounted (kenall or approved equivalent)	Each	370.00
15.4	High Abuse Flour fitting c/w 2 x 36W LED lamp surface mounted (kenall or approved equivalent)	Each	400.00
16	Supply, fabricate and install standard make-to measure brackets for floodlights including painting.		
	i. 10W - 150W	Each	26.00
	ii. 250W - 400W	Each	39.00
17	Supply, fabricate and install standard make-to measure wire mesh housing for floodlights including painting. 250 - 400W	Each	13.00
18	Supply, fabricate and install 6" PVC pipe, 400mm length c/w painting for spotlight. 10 - 150W	Each	32.50
19	Supply, fabricate and install anti-glare louvres for floodlights including painting:		
	i. 10-150W Sodium/Metal-Halide/LED fitting	Each	40.00
	ii. 250/400W Sodium/Metal-Halide/LED fitting	Each	54.00

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FIXED SCHEDULE OF RATES II

SECTION I - LIGHT FITTINGS & BRACKETS (CONT'D)

Item No.	Description	Unit	Rate (\$)
20	LED Floodlights Fittings c/w all necessary accessories & brackets		
	i. 10 - 50W	Each	150.00
	ii. 60 - 100W	Each	276.00
21	<u>LED Light Fittings with Double Parabolic / Mirror Optic Louver / recessed etc.</u>		
21.1	2 X 20W, 625mm in length c/w tubes, T8/T5	Each	180.00
21.2	2 X 20W, 1235mm in length c/w tubes, T8/T5	Each	241.00

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FIXED SCHEDULE OF RATES II

SECTION J - REMOVALS

Supply labour, tools, materials and accessories for the removal of the following:

NOTE: Contractors are not allowed to claim for cost where the removal of a particular fitting / accessory / wiring is for the purpose of shifting, adjustment or replacement (not applicable to / for re-wiring works).

Item No.	Description	Unit	Rate (\$)
1	To remove one lighting point including wiring conduits etc. and make good wall or ceiling surface.	Each	8.10
2	To remove one power point, etc as item (1), including socket outlet	Each	8.10
3	To remove bracket, supply, exhaust or ceiling oscillating fan pt including wiring, conduits, mounting block and make good wall surface, ceiling surface & etc.	Each	7.00
4	To remove ceiling fan pt including wiring, conduit, fan/hook and regulator and make good as item (1)	Each	7.00
5	To take down ceiling fan, wall bracket fan, oscillating fan, supply fan, exhaust fan & etc.	Each	3.30
6	To take down fluorescent SL lamp, PL lamp, LED light fitting or any other type (ceiling, wall, pendant or recessed)	Each	3.30
7	To take down one tungsten, mercury sodium halogen light fitting or any other type (ceiling, wall, pendant or recessed)	Each	3.30
8	To touch up one light point or power point including plastering and painting, etc. to match existing wall surface	Each	3.30
9	To take down Perimeter / roof / flag pole and pole top fitting c/w arm or bracket (any type)	Each	8.90
10	To remove consumer unit of any type	Each	9.10
11	To remove Distribution Board (DB/OG), complete with accessories and concrete plinth if any.	Each	26.00
12	To remove MCB (single, double, triple poles & 4 poles), ELCB (double-pole, 4-pole) MCCB (double-pole, 4-pole) & timer.	Each	2.60

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FIXED SCHEDULE OF RATES II

SECTION J - REMOVALS (CONT'D)

Item No.	Description	Unit	Rate (\$)
13	To remove underground PVC / SWA / PVC cables of any size.	Per m	2.60
14	To remove conduit pipes of any size.	Per m	2.60
15	To remove flexible cable, PVC, PVC / PVC, fire resistant & flame retardant, neoprene cables of any sizes.	per m	0.70
16	To remove weatherproof junction box of any sizes and terminate existing underground / surface cabling.	Each	3.30

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FIXED SCHEDULE OF RATES II

SECTION K- INSTALLATION

Supply labour, tools and materials to install only, including connecting up to existing wiring or supply point (excluding supply of fittings).

Item No.	Description	Unit	Rate (\$)
1	Light fitting of any type (ceiling, wall pendant or recessed or tree).	Each	6.60
2	1.5m or 1.2m sweep ceiling fan c/w speed regulator.	Each	8.70
3	Wall bracket, supply or exhaust fan (All sizes).	Each	6.60
4	Ceiling oscillating fan (All sizes) complete with mounting brackets.	Each	6.60
5	Perimeter and pole top light fitting c/w bracket and/or arm	Each	10.80
6	Light fitting of any type (on roof/flag pole)	Each	10.80
7	Down light fitting of any type (recessed including opening of ceiling board, brackets etc.).	Each	12.40
8	Tape light and Rope light up to 10 metres including transformer.	Per length	6.50
9	Christmas Light (in accordance with Singapore Standard Specifications) (100 bulbs per length)	Per length	13.00
10	Bulbs / lamp holders / starters / ballasts.	Per set	6.00
11	Lamp-pole c/w pole top fitting, control gear & mounting arm (up to 4 metres)	Per set	40.00
12	Lamp-pole c/w pole top fitting, control gear & mounting arm (above 4 to 8 metres)	Per set	65.00
13	Lamp-pole c/w pole top fitting, control gear & Mounting arm (above 8 to 12 metres)	Per set	95.00

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FIXED SCHEDULE OF RATES II

SECTION K- INSTALLATION (CONT'D)

Item No.	Description	Unit	Rate (\$)
14	Construct concrete footing for lamp pole		
	i. for lamp pole < 2 metres / earth or lightning pit	Per no	50.00
	ii. for lamp pole up to 4 metres	Per no	140.00
	iii. for lamp pole up to 10 metres	Per no	220.00
	iv. for lamp pole up to 12 metres	Per no	350.00

NOTE:

1. For item 14 – incur additional charge of **\$100.00** subject to tender rate for using Hot-dipped Galvanised J-bolts and nuts including end caps, silicon & all necessary accessories.
2. For item 14 – incur additional charge of **\$130.00** subject to tender rate for using Stainless Steel 316 J-bolts and nuts including end caps, silicon & all necessary accessories.

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FIXED SCHEDULE OF RATES II

SECTION L - SHIFTING

Shift the following to not exceeding 5 metres including wiring, junction box conduits and other materials all ready to operate.

Item No.	Description	Unit	Rate (\$)
1	Any Floodlight pt complete with simple shade fitting (Globe, Triangular, Rectangular or any type)	Each	12.00
2	Any Floodlight pt complete with enclosed glass fitting (Globe, Triangular, Rectangular or any type)	Each	10.50
3	Fluorescent, LED, Spotlight pt with fitting of any type	Each	10.00
4	i. Ceiling fan pt and fan c/w fan hook, regulator and teak block	Each	25.50
	ii. Ceiling fan pt and fan c/w regulator and teak block	Each	24.00
5	Bracket/wall/supply/exhaust fan pt c/w fan mounting block and fan (all sizes)	Each	13.80
6	Switch points c/w switch and teak block/metal block	Each	8.90
7	13A or 15A switch socket outlet pt including socket outlet	Each	11.00
8	Switch point complete with switch	Each	10.00
9	Weatherproof or indoor termination junction box and bracket of any type	Each	10.00
10	Supply labour and material to excavate, backfill and shifting of lamp pole c/w pole top fitting & concrete foundation to new position (excluding lorry crane)		
	i. up to 4 metres	Each	90.00
	ii. above 4 to 12 metres	Each	140.00

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FIXED SCHEDULE OF RATES II

SECTION M - CLEANING, REPLACEMENT OF ACCESSORIES AND LAMPS

Remove faulty accessories as fitted and disposal including necessary transport. These rates are **ONLY** applicable to the installations that can be accessed by normal means such as use of 'Fireman', 'A' ladder, scaffold, lorry crane & etc. Supply and replace / install including connecting up the following:

Item No.	Description	Unit	Rate (\$\$)
1	5 amp SP tumbler switch c/w teak block or moulded switch c/w box	Each	3.70
2	5 amp 2-gang switch as item 1	Each	4.50
3	15 amp SP tumbler switch c/w teak block or moulded switch c/w box	Each	7.90
4	5A combined switch-socket outlet c/w moulded box/teak block	Each	6.80
5	13 amp -do-	Each	15.00
6	15 amp -do-	Each	17.00
7	13 amp twin combined switch-socket outlet c/w teak block / moulded box	Each	20.00
8	5 amp metalclad switch outlet c/w box	Each	12.00
9	13 amp -do-	Each	17.00
10	15 amp -do-	Each	20.00
11	15 to 40 watt LED lamp / bulb	Each	8.00
12	60 to 75 watt -do-	Each	12.00
13	100 watt -do-	Each	16.00
14	150 watt -do-	Each	20.00
15	15 to 25 watt PAR 38 LED lamp	Each	94.00
16	18 watt 600mm energy saving fluorescent tube / LED tube (T5 or T8)	Each	12.00
17	36 watt 1200mm energy saving fluorescent tube / LED tube (T5 or T8)	Each	12.00
18	58 watt 600 / 1540mm energy saving fluorescent tube / LED tube (T5 or T8)	Each	12.00
19	Fluorescent starter any sizes	Each	3.00

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FIXED SCHEDULE OF RATES II

SECTION M - CLEANING, REPLACEMENT OF ACCESSORIES AND LAMPS (CONT'D)

Item No.	Description	Unit	Rate (\$)
20	Fluorescent lamp capacitor 20 to 80 watts	Each	5.40
21	6.5W loss ballast for 18watt fluorescent lamp	Each	8.20
22	6.5W loss ballast for 36 watt fluorescent lamp	Each	10.00
23	11.0W loss ballast for 58 watt fluorescent lamp	Each	18.00
24	Cartridge fuse 10-20 amp to suit make of gear	Each	5.00
25	Cartridge fuse 30 amp to suit make of gear	Each	7.00
26	Cartridge fuse 60 amp to suit make of gear	Each	9.50
27	Cartridge fuse 100 amp to suit make of gear	Each	23.00
28	Cartridge fuse 160 amp to suit make of gear	Each	26.00
29	Cartridge fuse 200 amp to suit make of gear	Each	45.00
30	Ceiling rose with 3-plate	Each	8.00
31	i. Batten holder / lamp holder	Each	5.00
	ii. Porcelain lamp holder	Each	7.00
32	Capacitor for 1.2 metres or 1.5 metres ceiling fan	Each	11.00
33	Ceiling fan regulator of any type and make	Each	26.00
34	5 amp SP waterproof switched / unswitched socket Outlet	Each	22.30
35	As item 34, but twin gang	Each	30.00
36	i. 13 amp SP weatherproof switched or unswitched socket Outlet	Each	33.50
	ii. As item 36(a), but 2-gang	Each	39.00
37	15 amp SP waterproof switched / unswitched socket outlet	Each	72.00
38	8-10W fluorescent / LED lamp (for exit lights, etc)	Each	6.50
39	70/250W metal Halide lamp	Each	114.00
40	400W metal Halide lamp	Each	125.00
41	70/250W ballast for metal Halide lamp	Each	84.00

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FIXED SCHEDULE OF RATES II

SECTION M - CLEANING, REPLACEMENT OF ACCESSORIES AND LAMPS (CONT'D)

Item No.	Description	Unit	Rate (\$\$)
42	400W ballast for metal Halide lamp	Each	103.00
43	Ignitor for 70 to 150 watt metal Halide lamp	Each	36.00
44	Ignitor for 250 to 400 watt metal Halide lamp	Each	38.40
45	18 to 56W fluorescent / LED lamp / tube	Each	10.00
46	18W High Frequency (HF) fluorescent lamp	Each	9.00
47	36W High Frequency (HF) fluorescent lamp	Each	11.00
48	58W High Frequency (HF) fluorescent lamp	Each	14.00
49	18W electronic ballast for HF tubes	Each	60.00
50	36W electronic ballast for HF tubes	Each	108.00
51	58W electronic ballast for HF tubes	Each	130.00
52	9W SL lamp (bayonet / screw type or approved make)	Each	14.00
53	18 or 25W SL lamp (bayonet / screw type or approved make)	Each	18.00
54	65 – 105W SL Lamp (bayonet / screw type or approved make)	Each	36.00
55	7 to 9 Watt PL lamp (Approved make)	Each	7.00
56	11 Watt PL lamp	Each	9.00
57	13 Watt PL lamp	Each	10.80
58	18 Watt PL lamp	Each	21.60
59	10/13 Watt PLC lamp	Each	12.00
60	18 Watt PLC lamp	Each	12.50
61	26 Watt PLC lamp	Each	18.00
62	9 Watt PLCE lamp	Each	12.00
63	11 /15 Watt PLCE lamp	Each	15.00
64	20 /23 Watt PLCE lamp	Each	18.00
65	500 Watt PAR 64 MFL	Each	48.00
66	300 Watt PAR 56 MFL	Each	42.00

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FIXED SCHEDULE OF RATES II

SECTION M - CLEANING, REPLACEMENT OF ACCESSORIES AND LAMPS (CONT'D)

Item No.	Description	Unit	Rate (\$)
67	200 Watt PAR 46 MFL	Each	42.00
68	75 Watt PAR 16 NFL	Each	9.00
69	50 Watt PAR 20 NFL	Each	15.00
70	Arc stream 3000k 150 watts lamp	Each	140.00
71	Arc stream 4000k 150 watts lamp	Each	140.00
72	Christmas light 100 lights any Colour (100 lights per length) (weatherproof)	Per length	35.00
73	2 Channel and 3 Wires Rope light	Per m	11.00
74	LED 18W-130W A67 E27 230V GLS (2000K-6500K)	Each	26.00
75	Transformer 230V / 12V as for lightings		
	i. 50VA	Each	25.00
	ii. 100VA	Each	49.00
	iii. 150/200VA	Each	72.00
	iv. 250VA	Each	98.00
76	Supply labour to replace of blown bulbs, holders, ballasts & any other components & etc. (any type)	Each	3.00
77	Prismatic Acrylic diffuser 600 x 600 mm	Each	14.00
78	Prismatic Acrylic diffuser 600 x 1200 mm	Each	25.00
79	Male & female connector for lighting point	Per set	6.50

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FIXED SCHEDULE OF RATES II

SECTION N - UNDERGROUND CABLES

Excavate backfill and reinstate trench for power cable complete with protective slab as follows:

Underground cable must be laid at least 750mm below the finished ground level unless specified. After the cable is laid, the first earth filling shall be soft earth/sand free from stones and other sharp objects. The filling shall be compacted around the cables and finished off level 150mm above the longest cables. Cable protection / Warning cable slabs (Yellow Colour) shall be laid end to end on top of the first earth filling. The second earth filling shall extend to 300mm above the cable slab and shall not contain stones of dimension 75mm. The filling shall be compacted by means of hand hammer. After the second earth filling, the trench shall be filled soil in layer of not exceeding 300mm in depth. Each layer being rammed by means of mechanical rammer before the next layer is placed over.

Item No.	Description	Unit	Rate (\$\$)
1	Excavate cable pit for fault location on ground including backfilling, compacting, make good and returfing		
	i. 1.0m x 1.0m x 1.0m	Each	120.00
	ii. 1.5m x 1.5m x 1.5m	Each	150.00
2	Excavate trench 300mm width on turf include backfilling, compacting, make good and returfing		
	i. 750mm depth	Per m run	20.00
	ii. 450mm depth	Per m run	15.00
	iii. 300mm depth	Per m run	12.00
3	As item 2 but on beach / sandy area		
	i. 750mm depth	Per m run	12.00
	ii. 350mm depth	Per m run	8.00
	iii. 200mm depth	Per m run	6.00
4	i. Excavate trench 750mm depth x 300mm width on Asphalt road including re-instatement works c/w identification cable slabs.	Per m run	125.00
	ii. As item 4(i), but 350mm depth	Per m run	85.00
	iii. As item 4(i), but on concrete by using diamond cutter	Per m run	135.00
	iv. As item 4(iii), but 350mm depth	Per m run	95.00

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FIXED SCHEDULE OF RATES II

SECTION N - UNDERGROUND CABLES (CONT'D)

Item No.	Description	Unit	Rate (\$\$)
5	Cutting of concrete groove to chase in PVC conduits, U-channel and others etc, including making good.	Per m run	22.00
6	Supply and lay in prepared trench 100mm dia. UPVC pipe with 300mm x 300mm concrete hunching.	Per m run	28.50
7	As for item 6, but for 150mm dia. UPVC pipe with 450mm x 450mm concrete haunching.	Per m run	39.80
8	Supply and lay cable protection/warning slabs (yellow colour)	Per m run	7.50
9	Supply and lay cast iron cable markers (with engraving and painting (150mm x 100mm x 5mm)	Per m run	57.00
Supply and lay heavy duty PVC pipe in prepared trench c/w fittings			
10	50.0mm diameter	Per m run	10.00
11	75.0mm diameter	Per m run	14.00
12	100.0mm diameter	Per m run	18.00
13	150.0mm diameter	Per m run	22.00
Supply and lay galvanised iron pipe in prepared trench c/w fittings			
14	50.0 mm diameter	Per m run	15.00
15	75.0mm diameter	Per m run	18.00
16	100.0mm diameter	Per m run	20.00
17	150.0mm diameter	Per m run	23.00
Supply and lay 2 core PVC/SWA/PVC cable to BS 6346 600/1000V grade			
18	1.5mm ²	Per m run	5.70
19	2.5mm ²	Per m run	7.00
20	4.0mm ²	Per m run	8.50
21	6.0mm ²	Per m run	12.00
22	10.0mm ²	Per m run	15.40
23	16.0mm ²	Per m run	21.50
24	25.0mm ²	Per m run	25.00
25	35.0mm ²	Per m run	33.00

TERM CONTRACT FOR MINOR WORKS, SERVICING, MAINTENANCE AND REPAIR OF EXISTING ELECTRICAL INSTALLATIONS AT SENTOSA (INCLUDING SENTOSA COVE) FOR A PERIOD OF THREE (3) YEARS

FIXED SCHEDULE OF RATES II

SECTION N - UNDERGROUND CABLES (CONT'D)

Item No.	Description	Unit	Rate (\$)
Supply and lay 2 core PVC / SWA / PVC cable to BS 6346 600/1000V grade (cont'd)			
26	50.0mm ²	Per m run	45.00
27	70.0mm ²	Per m run	57.60
28	95.0mm ²	Per m run	76.90
29	120.0mm ²	Per m run	89.20
30	150.0mm ²	Per m run	100.80
31	185.0mm ²	Per m run	119.55
32	240.0mm ²	Per m run	149.80
Supply and lay 3 core PVC / SWA / PVC cable to BS 6346 600/1000V Grade			
33	1.5mm ²	Per m run	7.50
34	2.5mm ²	Per m run	10.50
35	4.0mm ²	Per m run	13.00
36	6.0mm ²	Per m run	19.00
37	10.0mm ²	Per m run	24.00
38	16.0mm ²	Per m run	33.50
39	25.0mm ²	Per m run	43.00
40	35.0mm ²	Per m run	64.30
41	50.0mm ²	Per m run	83.70
42	70.0mm ²	Per m run	115.20
43	95.0mm ²	Per m run	138.70
44	120.0mm ²	Per m run	157.50
45	150.0mm ²	per m run	190.00
46	185.0mm ²	Per m run	227.50
Supply and lay 4 core PVC / SWA / PVC cable to BS 6346 600/1000V Grade			
47	2.5mm ²	Per m run	11.90
48	4.0mm ²	Per m run	16.00
49	6.0mm ²	Per m run	20.70
50	10.0mm ²	Per m run	35.00

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FIXED SCHEDULE OF RATES II

SECTION N - UNDERGROUND CABLES (CONT'D)

Item No.	Description	Unit	Rate (\$\$)
Supply and lay 4 core PVC / SWA / PVC cable to BS 6346 600/1000V Grade (cont'd)			
51	16.0mm ²	Per m run	51.40
52	25.0mm ²	Per m run	70.30
53	35.0mm ²	Per m run	94.00
54	50.0mm ²	Per m run	124.40
55	70.0mm ²	Per m run	149.60
56	95.0mm ²	Per m run	165.00
57	120.0mm ²	Per m run	184.00
58	150.0mm ²	Per m run	218.30
59	185.0mm ²	per m run	262.90
60	240.0mm ²	Per m run	308.80
61	300.0mm ²	Per m run	360.40
Supply and lay 5 core PVC / SWA / PVC cable to BS 6346 600/1000V Grade			
62	4.0mm ²	Per m run	21.50
63	6.0mm ²	Per m run	26.00
64	10.0mm ²	Per m run	37.70
65	16.0mm ²	Per m run	53.90
66	25.0mm ²	Per m run	75.40
Supply all labour and jointing materials to make up the following including supply of boxes c/w mounting accessories and connection to circuits:			
67	10.0mm ² , 2 or 4-core end joints for PLYST & S cable	Each	130.00
68	16.0mm ² , 2 or 4-core end joints for PLYST & S cable	Each	132.00
69	25.0mm ² - do -	Each	190.00
70	35.0mm ² to 70.0mm ² 4 core end joints	Each	218.00
71	120.0mm ² to 185.0mm ² 4 core end joints	Each	265.00
72	16.0mm ² , 2 core or 4-core straight through joints c/w lead inner sleeves for PLYST & S cable	Each	110.00

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FIXED SCHEDULE OF RATES II

SECTION N - UNDERGROUND CABLES (CONT'D)

Item No.	Description	Unit	Rate (\$\$)
Supply all labour and jointing materials to make up the following including supply of boxes c/w mounting accessories and connection to circuits (cont'd):			
73	25/35mm ² - do -	Each	240.00
74	50/70mm ² - do -	Each	300.00
75	90/120mm ² - do -	Each	360.00
76	150/185mm ² - do -	Each	430.00
77	240/300mm ² - do -	Each	490.00
78	Pot end c/w lead inner sleeves any sizes of cable	Each	50.00
79	Supply all labour, remove and break up cable and box and connections	Each	73.00
80	Supply and install brass glands termination for:		
	i. up to 4mm ² 2C / 3C / 4C / PVC / SWA / PVC or XLPE cable	Each	9.10
	ii. for 6mm ² to 16mm ² 2C / 3C / 4C / PVC / SWA / PVC or XLPE cable	Each	19.50
81	- do - 25mm ² to 70mm ² 3C / 4C / 5C / PVC / SWA / PVC or XLPE cable	Each	30.00
82	- do - 95mm ² to 240mm ² 3C / 4C / 5C / PVC / SWA / PVC or XLPE cable	Each	80.00
83	Supply & fix the following cables socket / lug including jointing up to the cables for the following:		
	i. For 1.0mm ² to 1.5mm ² conductor	Each	3.00
	ii. For 2.5mm ² to 4mm ² conductor	Each	5.00
	iii. For 6mm ² to 10mm ² conductor	Each	7.00
	iv. For 16mm ² conductor	Each	10.00
84	“25/50”mm ² conductor	Each	12.00
85	“70/150”mm ² conductor	Each	18.00
86	“185/240”mm ² conductor	Each	22.00

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FIXED SCHEDULE OF RATES II

SECTION N - UNDERGROUND CABLES (CONT'D)

Item No.	Description	Unit	Rate (\$)
Supply all labour and joining materials to make up the following sizes of underground cables, using cold-pour dry cast resin including cost of attendance by joiner.			
87	i. Up to 4mm ² , 2C / 3C / 4C / straight through joint	Each	80.00
	ii. 6mm ² to 10mm ² - do -	Each	120.00
88	16 mm ² - do -	Each	160.00
89	25mm ² to 35 mm ² - do -	Each	190.00
90	50 mm ² to 95mm ² - do -	Each	280.00
91	120mm ² to 185mm ² - do -	Each	650.00
92	240mm ² to 300mm ² - do -	Each	900.00
93	Supply and lay 25mm ² / 4C XLPE / SWA / PVC cable to 600/1000V grade	Per m	74.00
94	Supply and lay 35mm ² / 4C XLPE / SWA / PVC cable to 600/1000V grade	Per m	95.00
95	Supply and lay 50mm ² / 4C XLPE / SWA / PVC cable to 600/1000V grade	Per m	130.00
96	Supply and lay 70mm ² / 4C XLPE / SWA / PVC cable to 600/1000V grade	Per m	154.00
97	Supply and lay 95mm ² / 4C XLPE / SWA / PVC cable to 600/1000V grade	Per m	169.00
98	Supply and lay 120mm ² / 4C XLPE / SWA / PVC cable to 600/1000V grade	Per m	193.00
99	Supply and lay 150 mm ² / 4C XLPE / SWA / PVC cable to 600/1000V grade	Per m	227.00
100	Supply and lay 185mm ² / 4C XLPE / SWA / PVC cable to 600/1000V grade	Per m	276.00
101	Supply and lay 240mm ² / 4C XLPE / SWA / PVC cable to 600/1000V grade	Per m	324.40
102	Supply and lay 300mm ² / 4C XLPE / SWA / PVC cable to 600/1000V grade	Per m	378.90

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FIXED SCHEDULE OF RATES II

SECTION O - FANS

Supply all materials and labour and install including connection up to fan point and ready to operate the following:

NOTE: \$30.00 will be deducted from this schedule rate in case of failure of contractor to supply necessary certification for the safety of the fans as specified.

Item No.	Description	Unit	Rate (\$)
1	Ceiling fan 1.5 metres sweep c/w up to 1.5 metres down rod, safety wire and speed regulator c/w certification (see notes bellow and Sketch S1)	Each	220.00
2	Bracket wall fan 300mm oscillating	Each	189.00
3	Bracket wall fan 400mm oscillating	Each	280.00
4	Bracket wall fan 500mm oscillating	Each	494.00
5	Industrial wall/stand fan 600mm oscillating	Each	550.00
6	Ceiling oscillating fan 400mm c/w bracket	Each	323.00
7	Additional length of down rod for ceiling fan	Per m	8.70
8	Box fan 300 m diameter c/w mounting bracket	Each	130.00
9	Supply and install safety wire, bolts and nuts assembly c/w safety pins and washers (spring and non-spring type) to specifications. This rate shall also be applicable to existing ceiling fans.	Each	17.00
10	Rental of 300/400mm pedestal stand fan per day.	Each	19.00
11	Wall / Window / Ceiling Mount Ventilating Fan.		
	i. 15cm/ 6"	Each	112.00
	ii. 20cm/ 8"	Each	160.00
	iii. 25cm/10"	Each	190.00
	iv. 30cm/ 12"	Each	220.00
12	Fan hook welded on galvanised plate c/w expansion bolt mounting and safety anchor point (see Sketch S3)	Each	72.50
13	Fan hook above beam c/w through bolt and safety anchor point (see Sketch S2)	Each	28.00
14	Wall / Window / Ceiling Mount Extract Fan		
	i. 203mm dia		182.00
	ii. 242mm dia		250.00
	iii. 270mm dia		320.00

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FIXED SCHEDULE OF RATES II

SECTION P - PAINTING

Supply labour to paint (including supply of paint) the following:

Item No.	Description	Unit	Rate (\$)
1	Paint ceiling fan 1.5 metres or 1.2 metres sweep c/w downrod (sand down and clean before painting)	Each	15.00
2	Paint fluorescent fitting c/w downrods if any (sand down and clean before painting)	Each	10.00
3	Paint 300mm oscillating fan or any other type (sand down and clean before painting)	Each	11.00
4	Paint 400mm oscillating fan or any other type (sand down and clean before painting)	Each	12.80
5	Paint 500mm oscillating fan or any other type (sand down and clean before painting)	Each	14.30
6	Paint 600mm oscillating fan or any other type (sand down and clean before painting)	Each	16.50
7	Paint Wall / Flood / Spot / Roof / Ceiling Light Fittings (or any other type) including brackets, bolts and nuts & junction boxes & etc.	Each	10.00
8	Scrapping & Repainting of distribution board, (one undercoat of anti-rust paint and two coats of approved finishing paint).	Each	50.00
9	Scrapping and Repainting of OG box or feeder pillar (one undercoat of anti-rust paint and two (2) coats of approved finishing paint).	Each	60.00
10	Scrapping and repainting street lighting, perimeter / roof / flag lighting pole (one undercoat of anti-rust paint and two coats of approved finishing paint) including numbered accordingly.	Each	65.00
11	As item 10, but for outdoor park / garden / footpath lighting pole.	Each	55.00

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FIXED SCHEDULE OF RATES II

SECTION Q - MISCELLANEOUS

Item No.	Description	Unit	Rate (S\$)
1	Supply and install ramset bolt and nut (this item does not apply to new installation)	Each	3.90
2	Arrange for Power Grid / SP Services testing and installation of lighting / power KWH meter for first consumer unit.	Each	100.00
3	- do - for subsequent consumer unit within the same premises.	Each	13.00
4	i. Supply all labour and materials to break concrete foundation, excavate, backfill, remove of lighting pole c/w pole top fitting and return to SDC / disposal as instructed.		
	a. Lamp post 4 metres & below	Each	65.00
	b. Lamp post above 4 metres	Each	95.00
	ii. As item 4(i)/a but without breaking concrete	Each	32.50
	iii. As item 4 (i)/b but without breaking concrete	Each	58.50
5	Supply all labour and materials to break the concrete foundation, excavate, backfill, remove of lamp post & re-instate to new position including provision of transport.	Each	210.00
6	Break up concrete foundation, excavate, backfill & straighten street light pole, remake concrete foundation.	Each	140.00
7	Supply and install 20-80A 1 phase kwh meter (Analog) c/w teak block	Each	145.60
8	Supply and install 20-80A 1 phase kwh meter (Digital) c/w teak block	Each	240.00
9	Supply and install 30-60A 3 phase kwh meter (Analog) c/w teak block	Each	196.00
10	Supply and install 3Ph 100A Kwahr meter (Analog) c/w teak block	Each	300.20
11	Supply and install 30-100A 3 phase kwahr meter (Digital) c/w teak block	Each	330.00

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FIXED SCHEDULE OF RATES II

SECTION Q - MISCELLANEOUS (CONT'D)

NOTE: For items 15 to 16, Contractor can only claim for multiple erections due to need to remove and reinstall metal scaffoldings / stagings provided there exists in the work site a necessity to do so. No multiple claims can be made for merely shifting erected scaffolding or staging on Site.

Item No.	Description	Unit	Rate (\$)
12	Supply and installation of AC 3phase 4 Wire 100-800A kwh Meter c/w MCTs Class 1, 5VA& 3x32A fuse holder c/w 2Afuse cartridge with metal enclosure teak wood, all the internal cabling / wiring including modification work.	Per set	1200.00
13	Read kwh meter	Each	5.60
14	Check electrical loading at the incoming/Sub mains of electrical switchboard using current recorder, hooking up and recording the 24 hours ampere reading and removal of recorder, energy trending for minimum 7 days including endorsement by P.E.	Job	7800.00
15	Supply and install and subsequent removal of metal scaffolding / staging work for the following height ranges: i. 5-8m (indoors / outdoors) ii. more than 8m (indoors / outdoors)	1 lot Per m	190.00 30.00
16	Dismantling & reinstallation of scaffolding as in item 15 (Shifting within 100 meters)	1 lot	100.00
17	Rental of elevated platform (minimum 4 hrs) for access to high places including all necessary e.g. fuel, operator / driver, parking, ALS & etc.	Per hr	100.00
18	As item 17, on per day basis	Per day	700.00

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FIXED SCHEDULE OF RATES II

SECTION Q - MISCELLANEOUS (CONT'D)

Item No.	Description	Unit	Rate (\$)
19	Supply and install the following at the switchroom: i. Danger / Safety signboard (Aluminum, yellow background black lettering) ii. Fire Extinguisher signboard iii. Danger sticker in 4 languages (A4 size single or multiple) iv. Single Line Diagram v. Rubber Mat (up to 2m ²)	Each Each Each Each Each	34.00 19.50 16.50 39.00 160.00
20	Installation of ripple control receiver	Each	104.00
21	Arranging with Power Grid/SP Services or LEW (approved by EMA) for primary or secondary injection testing of switchboard including of circuit breaker & protection relays (this shall include all materials, transport, labour charges & etc. necessary for the test).	Each	1,200.00
22	Rental of mobile generator (min 10 KVA) for testing of item 21.	Each	325.00
23	Supply and riveting or traffolyte labels (Engraved with black/white letterings on background)	Each	8.00
24	Supply and install of 5/8" Aluminum U channel (for rope light)	Per m run	5.00
25	Supply and install of earth tag for brass gland termination i. < 35mm ² ii. ≥ 35 mm ²	Each Each	4.50 6.50
26	Rental of Lorry Crane service i. 3 ton ii. 5 ton iii. 10 to 12 ton iv. 17 ton v. 20 ton	Per day Per day Per day Per day Per day	500.00 800.00 1150.00 1500.00 1800.00

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FIXED SCHEDULE OF RATES II

SECTION R - INDUSTRIAL PLUG, CONNECTOR, WEATHERPROOF ISOLATOR

Item No.	Description	Unit	Rate (S\$)	
			Socket only	Plug only
1	Supply and install industrial plugs and connectors to BS 4343, IEC 309 AND CEE 17 including cable terminations			
1.1	16A 2 pole and earth	Each	31.00	25.00
1.2	16A 3 pole and earth	Each	34.00	28.00
1.3	16A 3 pole + N + earth	Each	43.00	50.00
1.4	32A 2P and earth	Each	33.60	25.00
1.5	32A 3 pole and earth	Each	42.00	33.60
1.6	32A 3 pole + N + earth	Each	70.00	58.00
1.7	63A 2P and earth	Each	96.00	35.00
1.8	63A 3 pole and earth	Each	100.00	52.00
1.9	63A 3 pole + N + earth	Each	103.00	69.60
1.10	125A 3 pole and earth	Each	180.00	140.00
1.11	125A 3 pole + N + earth	Each	220.00	169.00
2	Supply and install weather-proof isolator with minimum protection of IP 55 c/w box			
2.1	20A DP - do -	Each	45.00	
2.2	32A DP - do -	Each	49.00	
2.3	45A DP - do -	Each	54.60	
2.4	63A DP - do -	Each	58.00	
2.5	20A TPN - do -	Each	63.00	
2.6	32A TPN - do -	Each	67.60	
2.7	45A TPN - do -	Each	72.80	
2.8	63A TPN - do -	Each	76.00	
2.9	100A TPN - do -	Each	112.00	

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FIXED SCHEDULE OF RATES II

SECTION S - DRAWING

Supply all materials, labour and transport to provide the following:

NOTE: The size of paper prints to be used is dependent on the extent of the diagram to be traced. The size of the letterings and diagrams shall be reasonably big to be legible but not too big so as to occupy more space. When in doubt contractors are advised to consult the SO / SO Representatives.

Item No.	Description	Unit	Rate (\$\$)
1	Service charge for drawing (tracing, drafting etc.) on AO size (1189mm x 841mm) negative / paper	Each	152.00
2	Service charge for drawing (tracing, drafting etc.) on AO/A1 size (841mm x 594mm) negative / paper	Each	110.50
3	Service charge for drawing (tracing, drafting etc.) on A2 size (594mm x 420mm) negative / paper	Each	84.50
4	Service charge for drawing (tracing, drafting etc.) on A3 size (420mm x 297mm) paper	Per work 2 copies	67.00
5	Service charge for drawing (tracing, drafting etc.) on A4 size (297mm x 210mm) paper	Per work 2 copies	43.00
6	Provide AO size paper print of drawing	Each	4.50
7	Provide A1 size paper print of drawing	Each	3.30

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FIXED SCHEDULE OF RATES II

SECTION T - POLES

Supply and install the following lamp-poles including end caps & all necessary accessories

NOTE: For all items – Additional charge of **\$50.00** for Flange Mounted Type.

For items 1 & 5 – Additional charge of **\$160.00** for Double Bracket Arm

All lamp poles (Flange Mounted or Planted) supplied have to apply with a layer of **Bitumen Coating** for the section to be buried in the ground and 100mm above of ground level. The thickness is minimum 2mm.

Item No.	Description	Unit	Rate (\$)
1	Hot-dipped Galvanised Planted Type Octagonal Tapered Street Lighting Column for the following, Nominal Mounting Height c/w Single Bracket Arm (see Sketches J27 or J28)		
1.1	6 metres	Each	705.00
1.2	7 metres	Each	769.00
1.3	8 metres	Each	867.00
1.4	9 metres	Each	970.00
1.5	10 metres	Each	1065.00
1.6	11 metres	Each	1170.00
1.7	12 metres	Each	1300.00
2	Hot-dipped Galvanised Planted Type Octagonal Tapered Column for Floodlight for the following, Nominal Mounting Height.		
2.1	6 metres	Each	570.00
2.2	7 metres	Each	720.00
2.3	8 metres	Each	832.00
2.4	9 metres	Each	960.00
2.5	10 metres	Each	1110.00
2.6	12 metres	Each	1237.00

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FIXED SCHEDULE OF RATES II

SECTION T – POLES (CONT'D)

Item No.	Description	Unit	Rate (\$)
3	Hot-dipped Galvanised Planted Type Octagonal Tapered Column for Floodlight for Garden / Footpath Lighting for the following, Nominal Mounting Height.		
3.1	3.0 metres	Each	360.00
3.2	3.5 metres	Each	397.00
3.3	4.0 metres	Each	450.00
3.4	4.5 metres	Each	495.00
3.5	5.0 metres	Each	570.00
3.6	5.5 metres	Each	630.00
4	Hot-dipped Galvanised Planted Type Octagonal Tapered Mid-Hinged Column c/w Single Bracket Arm for mounting 4 nos. of floodlights (see Sketch J29) for the following, Nominal Mounting Height		
4.1	8.0 metres	Each	3,750.00
4.2	10.0 metres	Each	4,125.00
5	Hot-dipped Galvanised Planted Type Tubular Swaged Pole for the following, Nominal Mounting height c/w Single Bracket Arm (see Sketch J30)		
5.1	6.0 metres	Each	690.00
5.2	8.0 metres	Each	870.00
6	Hanover Wirt Park V3173-BP Decorative Lamp Post		
6.1	5.5 metres (complete set)	Each	6,875.00
6.2	4.0 metres (complete set)	Each	6,500.00
6.3	5.5 metres Lamp pole with base	Each	5,000.00
6.3	4.0 metres Lamp pole with base	Each	4,375.00
6.4	Arm Brackets	Pair	750.00
6.5	Moulded ripple texture, frosted, UV-stabilised polycarbonate lantern	Pair	688.00

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FIXED SCHEDULE OF RATES II

SECTION T – POLES (CONT'D)

Item No.	Description	Unit	Rate (S\$)
7	D W Windsor Norwich Lamp Post		
7.1	4.0 metres (complete set)	Each	5,000.00
7.2	4.0 metres pole with base	Each	3,750.00
7.3	Arm Brackets	Pair	625.00
7.4	UV-stabilised white polycarbonate lantern	Pair	563.00
8	Sternberg Decorative Lamp Post		
8.1	4.0 metres (complete set)	Each	5,000.00
8.2	Pole with base	Each	3,750.00
8.3	Arm Brackets	Pair	625.00
8.4	UV-stabilised frosted polycarbonate lantern	Pair	563.00
9	720 mm height, 160mm diameter Granite molded bollard	Each	1,000.00
10	850 mm height, 200mm diameter Granite molded bollard	Each	1,500.00
11	800mm Height Solar Bollard light	Each	311.00
12	Solar Wall Light (210mm x 130mm)	Each	123.00

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FIXED SCHEDULE OF RATES II

SECTION U - WOOD BLOCKS

Supply and install the following:

Item No.	Description	Unit	Rate (\$)
1	75mm x 25mm round block	Each	2.80
2	75mm x 25mm x 32mm teak block	Each	2.80
3	75mm x 100mm x 32mm " "	Each	3.80
4	75mm x 150mm x 32mm " "	Each	5.70
5	75mm x 225mm x 32mm " "	Each	7.90
6	100mm x 150mm x 32mm " "	Each	10.80
7	150mm x 150mm x 32mm " "	Each	15.00
8	150mm x 225mm x 32mm " "	Each	21.60
9	150mm x 300mm x 32mm " "	Each	24.00
10	225mm x 225mm x 32mm " "	Each	30.00
11	225mm x 300mm x 32mm " "	Each	45.00
12	Teak block up to 0.1m ² , 38mm thick	Each	60.00
13	Teak block in access of 0.1m ² up to 0.3m ² 38mm thick	Each	70.00
14	Teak block in access of 0.3m ² up to 0.4m ² 38mm thick	Each	82.00
15	Teak block in access of 0.4m ² up to 0.5m ² 38mm thick	Each	94.00
16	Teak block in access of 0.5m ² up to 0.6m ² 38mm thick	Each	105.00
17	Teak block in access of 0.6m ² up to 0.7m ² 38mm thick	Each	120.00
18	Teak block in access of 0.7m ² up to 0.8m ² 38mm thick	Each	132.00
19	Teak block in access of 0.8m ² up to 0.9m ² 38mm thick	Each	144.00
20	Teak block in access of 0.9m ² up to 1.0m ² 38mm thick	Each	156.00

TERM CONTRACT FOR MINOR WORKS, SERVICING, MAINTENANCE AND REPAIR OF EXISTING ELECTRICAL INSTALLATIONS AT SENTOSA (INCLUDING SENTOSA COVE) FOR A PERIOD OF THREE (3) YEARS

FIXED SCHEDULE OF RATES II

SECTION V - ENCLOSURES

Item No.	Description	Unit	Rate (\$)		
			(PVC / Polyester)	(Gal. Mild Steel)	(Stainless steel with powder coated to 1 colour)
1	Supply and install the following enclosures (PVC / Polyester / Galvanised Mild Steel/ 304 Stainless Steel 8 SWG) with minimum protection of IP 55 c/w PVC connectors, brackets & etc.				
1.1	85mm x 85mm x 45mm	Each	18.00	-	-
1.2	105mm x 105mm x 55mm	Each	25.00	-	-
1.3	155mm x 110mm x 70mm	Each	37.00	-	-
1.4	180mm x 140mm x 80mm	Each	55.00	100.00	200.00
1.5	220mm x 170mm x 80mm	Each	80.00	130.00	260.00
1.6	220mm x 175mm x 140mm	Each	96.00	160.00	320.00
1.7	310mm x 240mm x 124mm	Each	123.00	195.00	390.00
1.8	310mm x 240mm x 160mm	Each	138.00	224.00	448.00
1.9	300mm x 400mm x 200mm	Each	310.00	-	775.00
1.10	400mm x 500mm x 200mm	Each	360.00	-	900.00
1.11	400mm x 500mm x 2050mm	Each	385.00	-	962.50
1.12	400mm x 600mm x 2500 mm	Each	520.00	-	1,300.00
1.13	400mm x 600mm x 250mm	Each	590.00	-	1,475.00
1.14	500mm x 700mm x 250mm	Each	580.00	-	1,450.00
1.15	800mm x 1000mm x 300mm	Each	1,350.00	-	3,375.00
1.16	Concrete base for items 1.9 to 1.15	Each	-	65.00	-
1.17	Fibre boards				
	i. 0.04m ² and below	Each	-		26.00
	ii. above 0.04m ² up to 0.12m ²	Each	-		39.00
	iii. above 0.12m ² up to 0.24m ²	Each	-		65.00
	iv. above 0.24m ² up to 0.46m ²	Each	-		90.00
	v. above 0.46m ² up to 1.08m ²	Each	-		130.00
1.18	Galvanised steel junction box to IP 55 and of dimension 160 x 160mm c/w ringed door, cum lock and key	Each	65.00		200.00
1.19	3 or 4 ways MCB enclosure	Each	13.00		-

TERM CONTRACT FOR MINOR WORKS, SERVICING, MAINTENANCE AND REPAIR OF EXISTING ELECTRICAL INSTALLATIONS AT SENTOSA (INCLUDING SENTOSA COVE) FOR A PERIOD OF THREE (3) YEARS

FIXED SCHEDULE OF RATES II

SECTION V- ENCLOSURES (CONT'D)

Item No.	Description	Unit	Rate (\$)	
			(Gal. Mild Steel)	(Stainless steel with powder coated to 1 colour)
2	Supply and install the following mild steel 16 SWG / 316 Stainless Steel 12 SWG OG Box cabinet c/w necessary purpose made clamps, bolts and nuts, hinged door, ventilation Louvre and netting, watertight gasket, locks ,teak wood block epoxy powder coated paint,etc.			
2.1	0.024m ³ to 0.035m ³	Each	460.00	1,058.00
2.2	In access of 0.035m ³ to 0.05m ³	Each	500.00	1,150.00
2.3	- do - 0.05m ³ to 0.075m ³	Each	570.00	1,311.00
2.4	- do - 0.075m ³ to 0.1m ³	Each	630.00	1,449.00
2.5	- do - 0.1m ³ to 0.125m ³	Each	730.00	1,679.00
2.6	- do - 0.125m ³ to 0.2m ³	Each	820.00	1,886.00
2.7	Concrete collar and foundation for OG Box i. For items 2.1 to 2.3 ii. For items 2.4 to 2.6			98.00 140.00
2.8	In access of 0.2m ³ to 0.25m ³	Each	1,100.00	2,530.00
2.9	Concrete collar and foundation for OG Box to item 2.8	Each		200.00
2.10	OG Box (size 400mm x 800mm x 1000mm) on new concrete plinth inclusive	Each	1,400.00	3,220.00
3	Supply and install the following mild steel 16 SWG / 316 Stainless Steel 12 SWG sizes of ventilated OG Box enclosures complete with hinged door, handles and padlock sets including transparent openings for PowerGrid meter reading if necessary.			
3.1	0.08m ³ up to 0.1125m ³ on existing plinth	Each	740.00	1,702.00
3.2	As item 3.1 but on new concrete plinth	Each	950.00	1,912.00
3.3	More than 0.1125m ³ up to 0.1688m ³ on existing plinth	Each	810.00	1,863.00
3.4	As item 3.3 but on new concrete plinth	Each	1,000.00	2,053.00
3.5	More than 0.1688m ³ up to 0.225m ³ on existing plinth	Each	950.00	2,185.00

TERM CONTRACT FOR MINOR WORKS, SERVICING, MAINTENANCE AND REPAIR OF EXISTING ELECTRICAL INSTALLATIONS AT SENTOSA (INCLUDING SENTOSA COVE) FOR A PERIOD OF THREE (3) YEARS

FIXED SCHEDULE OF RATES II

SECTION V- ENCLOSURES (CONT'D)

Item No.	Description	Unit	Rate (\$)	
			(Gal. Mild Steel)	(Stainless steel with powder coated to 1 colour)
3	Supply and install the following mild steel 16 SWG / Aluminum 14 SWG / 316 Stainless Steel 12 SWG sizes of ventilated OG Box enclosures complete with hinged door, handles and padlock sets including transparent openings for PowerGrid meter reading if necessary.			
3.6	As item 3.5 but on new concrete plinth	Each	1,200.00	2,435.00
3.7	More than 0.225m ³ up to 0.3m ³ on existing plinth	Each	1,050.00	2,415.00
3.8	As item 3.7 but on new concrete plinth	Each	1,250.00	2,615.00
3.9	More than 0.3m ³ up to 0.35m ³ twin door on existing plinth	Each	1,100.00	2,530.00
3.10	As item 3.9 but on new concrete plinth	Each	1,340.00	2,770.00
3.11	More than 0.35m ³ up to 0.375m ³ twin door on existing plinth	Each	1,200.00	2,760.00
3.12	As item 3.11 but on new concrete plinth	Each	1,450.00	3,010.00
3.13	14 SWG Aluminum OG Box single door on new concrete plinth, size of OG Box: 805 x 575 x 200mm	Each	1,550.00	3,565.00
3.14	14 SWG Aluminum OG Box two door on new concrete plinth, size of OG Box: 1300 x 700 x 350mm	Each	2,114.00	4,862.00
3	Supply and install the following Aluminum 14 SWG / 316 Stainless Steel 12 SWG sizes of ventilated OG Box enclosures complete with hinged door, handles and padlock sets including transparent openings for PowerGrid meter reading if necessary.			
3.15	14 SWG Aluminum OG Box two door on new concrete plinth, size of OG Box: 1300 x 1120 x 350mm	Each	2,980.00	5,960.00
3.16	14 SWG Aluminum OG Box two door on new concrete plinth, size of OG Box: 1540 x 1650 x 450mm	Each	4,800.00	9,600.00

TERM CONTRACT FOR MINOR WORKS, SERVICING, MAINTENANCE AND REPAIR OF EXISTING ELECTRICAL INSTALLATIONS AT SENTOSA (INCLUDING SENTOSA COVE) FOR A PERIOD OF THREE (3) YEARS

FIXED SCHEDULE OF RATES II

SECTION W - LABOUR RATES

NOTE: For Sundays and Public Holidays, the rates payable shall be 2 times the stated rates.

These rates are payable when urgent or emergency works (without Fixed Schedule of Rates) are executed. These rates shall not be applicable for items where installation costs have been included.

Item No.	Description	Unit	Rate (S\$)
I	Labour charges for attending electrical work during normal working day.		
1	Electrician		
	i. Between 0800 hrs to 1800 hrs	Per hr	33.00
	ii. Between 1800 hrs to 2400 hrs	Per hr	38.00
	iii. Between 0000 hrs to 0800 hrs	Per hr	44.00
2	General Worker		
	i. Between 0800 hrs to 1800 hrs	Per hr	26.00
	ii. Between 1800 hrs to 2400 hrs	Per hr	29.00
	iii. Between 0000 hrs to 0800 hrs	Per hr	32.00
II	Labour charges for providing standby service to attend to functions at designated locations, including attendance to breakdown and emergency calls		
1	Electrician		
	i. Between 0800 hrs to 1800 hrs	Per hr	33.00
	ii. Between 1800 hrs to 2400 hrs	Per hr	38.00
	iii. Between 0000 hrs to 0800 hrs	Per hr	44.00

TERM CONTRACT FOR MINOR WORKS, SERVICING, MAINTENANCE AND REPAIR OF EXISTING ELECTRICAL INSTALLATIONS AT SENTOSA (INCLUDING SENTOSA COVE) FOR A PERIOD OF THREE (3) YEARS

FIXED SCHEDULE OF RATES II

SECTION X - SCHEDULE OF LEW SERVICES

The rates for the LEW services cover for the duration of the project / work and 1 year defects liability period (including the submission of all applications, drawings & etc to EMA / SP Services / PowerGrid & etc and all necessary license fees. These rates shall also include attendance to all SP Services/PowerGrid/regulation requirements such as turn on/turn off of installations & etc).

NOTE: These rates are only payable for projects / works which require submission of drawings, etc. to EMA / SP Services / PowerGrid for approval, and subsequent licensing of the installation as required by EMA.

These rates are not applicable for the purpose of submission of Form C after repair or re-wiring works have been completed.

Item No.	Size of Installation	Rate (S\$)
1	Not exceeding 45 KVA	440.00
2	Not exceeding 150 KVA	880.00
3	Not exceeding 300 KVA	1,100.00
4	Not exceeding 500 KVA	1,320.00
5	Not exceeding 800 KVA	1,760.00
6	Not exceeding 1 MVA	2,200.00
7	Exceeding 1 MVA	3,300.00

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FIXED SCHEDULE OF RATES II

SECTION Y - SCHEDULE OF SERVICING FOR MAIN LOW TENSION (LT) SWITCHBOARDS

Supply labour and all consumable items such as anti-rust cleaner for bus-bars, greaser for bolts and nuts, sand papers, bolts and nuts, cloths & all necessary tools & accessories to carry out the servicing of main low tension (LT) switchboards including submission of test reports to SDC for the retention for the following electrical installations' capacity:

Item No.	Description	Unit	Rate (\$)
1	The scope of servicing of main LT switchboard shall be in conjunction of the yearly servicing as specified in Clause 2.1b of the Technical Specifications as follows:		
a	3-phase, 60A, 400V, switchboard	Lump Sum	88.00
b	3-phase, 100A to 150A, 400V, switchboard	Lump Sum	132.00
c	3-phase, 200A, 400V, switchboard	Lump Sum	165.00
d	3-phase, 250A, 400V, switchboard	Lump Sum	175.00
e	3-phase, 300A, 400V, switchboard	Lump Sum	220.00
f	3-phase, 400A, 400V, switchboard	Lump Sum	230.00
g	3-phase, 500A, 400V, switchboard	Lump Sum	275.00
h	3-phase, 600A, 400V, switchboard	Lump Sum	330.00
i	3-phase, 800A, 400V, switchboard	Lump Sum	385.00
j	3-phase, 1000A to 1100A, 400V, switchboard	Lump Sum	440.00
k	3-phase, 1200A to 1800A 400V, switchboard	Lump Sum	495.00
l	3-phase, 2000A, 400V, switchboard	Lump Sum	550.00

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FIXED SCHEDULE OF RATES III

S/NO	GROUP	DESCRIPTION	BRAND	ESTIMATED QUANTITY PER YEAR		UNIT RATE (\$\$)
1	BALLAST	70W CDMT Ballast	Philips / Osram	20	Pcs	55.00
2	BALLAST	80W Ballast	Philips / Osram / Vossloh	20	Pcs	39.60
3	BALLAST	Ballast 125W for HPL-N Lamp	Philips / Acto / Schawbe / Helvar	10	Pcs	55.00
4	BALLAST	Ballast 150W for Sodium Lamp	Philips / Acto / Schawbe / Helvar	30	Pcs	108.20
5	BALLAST	Ballast 20W for Fluorescent Lamp	Helvar / Acto / Schawbe / Philips	30	Pcs	13.90
6	BALLAST	Ballast 250W for HPI	Philips / Acto / Schawbe / Helvar	10	Pcs	74.80
7	BALLAST	Ballast 250W for HPL-N Lamp	Philips / Acto / Schawbe / Helvar	10	Pcs	74.80
8	BALLAST	Ballast 250W for Sodium Lamp	Philips / Acto / Schawbe / Helvar	10	Pcs	133.80
9	BALLAST	Ballast 35W (BMH) for CDM Lamp	Philips / Acto / Schawbe / Helvar	10	Pcs	43.00
10	BALLAST	Ballast 400W for HPI	Philips / Acto / Schawbe / Helvar	10	Pcs	110.00
11	BALLAST	Ballast 400W for HPL-N Lamp	Philips / Acto / Schawbe / Helvar	10	Pcs	110.00
12	BALLAST	Ballast 400W for Sodium Lamp	Philips / Acto / Schawbe / Helvar	10	Pcs	154.00
13	BALLAST	Ballast 40W for Fluorescent Lamp	Helvar / Acto / Schawbe / Philips	30	Pcs	13.90
14	BALLAST	Ballast 70W for Sodium Lamp	Philips / Acto / Schawbe / Helvar	20	Pcs	72.40
15	BALLAST	Ballast Electronic Type ELXS 121.901 - 188663.02	Vossloh Schwabe or equivalent	50	Pcs	28.00
16	BALLAST	Ballast for PLC 13W	Helvar / Acto / Schawbe / Philips	40	Pcs	9.80
17	BALLAST	Ballast for PLC 18W	Helvar / Acto / Schawbe / Philips	40	Pcs	9.80
18	BALLAST	Ballast for PLC 26W	Helvar / Acto / Schawbe / Philips	40	Pcs	12.10
19	BALLAST	Electronic Ballast BLS/E/35WCMH 220-240V	GE / Philips	50	Pcs	116.00
20	BALLAST	Electronic Ballast EBC 114 TL5 (14W x 1 tube / 14W x 2 tube)	Philips / Osram	50	Pcs	14.00
21	BALLAST	Electronic Ballast EBC TL5 (28W x 1 tube)	Philips / Osram	50	Pcs	18.00
22	BALLAST	HF-M 1*14 Blue SH TL/PLS/PLC 14W Electronic Ballast	Philips / Osram / Vossloh	100	Pcs	21.00
23	BALLAST / DRIVER	APC 35-700 35W 700MA LED Driver	Meanwell or equivalent	10	Pcs	48.00
24	BALLAST / DRIVER	CLG150-12A 12VDC 150W 12 A IP65 LED Driver (SCV Signage)	Meanwell or equivalent	10	Pcs	201.00
25	BALLAST / DRIVER	Driver LSV3CAP 100-240V/12V 0.35A 3W	HEP Group or equivalent	20	Pcs	37.80
26	BALLAST / DRIVER	ET-E 10 240V/12V 10VA Dimmable Electronic Transformer	Philips / Osram	100	Pcs	5.00
27	BALLAST / DRIVER	ET-E 60 240V/12V 10VA Dimmable Electronic Transformer	Philips / Osram	70	Pcs	5.30
28	BALLAST / DRIVER	LPC-35-1050 IP67 Input:100-240V 1.1A Output: +30V 1050mA max.	Meanwell or equivalent	30	Pcs	45.00
29	BALLAST / DRIVER	LPV 35-24	Meanwell or equivalent	30	Pcs	42.00
30	BALLAST / DRIVER	LPV 60/12 230V/12VDC 60VA 5A IP67 Driver	Meanwell or equivalent	10	Pcs	90.00
31	BALLAST / DRIVER	LPV-20-24 IP67	Meanwell or equivalent	30	Pcs	30.00
32	BALLAST / DRIVER	Optotronic OT 6/200-240/10 CE Stabilized LED Power Supply 04	Osram	50	Pcs	40.00
33	BALLAST / DRIVER	Optotronic OTe 18/220-240/24 Stabilized LED Power Supply 1.0	Osram	50	Pcs	47.50
34	BALLAST / DRIVER	Optotronic OTe 9/220-240/350 350mA Constant Current LED Power Supply	Osram	50	Pcs	39.60
35	BALLAST / DRIVER	OT120/220-240/12 12V 120W LED Driver	Philips / Osram	20	Pcs	195.00
36	BALLAST / DRIVER	OT30/220-240/12 12V 30W LED Driver	Philips / Osram	50	Pcs	95.00
37	BALLAST / DRIVER	OT60/220-240V12 12V 60W LED Driver	Philips / Osram	100	Pcs	172.00
38	CABLE	2C*1.5mm Neoprene Cable	AEG or equivalent	2	Roll	271.00
39	CABLE	2C*2.5mm Neoprene Cable	AEG or equivalent	2	Roll	280.00
40	CABLE	3C*1.5mm Neoprene Cable	AEG or equivalent	2	Roll	250.00
41	CABLE	3C*2.5mm Neoprene Cable	AEG or equivalent	2	Roll	290.00
42	CAPACITOR	Capacitor 12UF 250V CP12BP28	Philips / Osram / Thorn	30	Pcs	10.80
43	CAPACITOR	Capacitor 20UF 250V CP20CU28	Philips / Osram / Thorn	50	Pcs	20.00
44	CAPACITOR	Capacitor 32UF 250V CP32ET28	Philips / Osram / Thorn	30	Pcs	20.00
45	CAPACITOR	Capacitor 8UF 250V CP08BO28	Philips / Osram / Thorn	30	Pcs	10.80
46	CDM	CDMR 35 PAR 20 FL 35W E27 Flood	Philips / Osram	50	Pcs	90.00
47	CDM	CDMR 35 PAR 20 SP 35W E27 Spot	Philips / Osram	50	Pcs	90.00
48	CDM	CDMR 35 PAR 30 FL 35W E27 Flood	Philips / Osram	50	Pcs	90.00
49	CDM	CDMR 35 PAR 30 SP 35W E27 Spot	Philips / Osram	50	Pcs	90.00
50	CDM	CDMR 70 PAR 30 FL 70W E27 Flood	Philips / Osram	100	Pcs	90.00
51	CDM	CDMR 70 PAR 30 SP 70W E27 Spot	Philips / Osram	50	Pcs	90.00
52	CDM	CDM-T 150W/830 Metal Halide Lamp	Philips / Osram	20	Pcs	80.00
53	CDM	CDM-T 150W/942 Metal Halide Lamp	Philips / Osram	20	Pcs	82.00

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FIXED SCHEDULE OF RATES III

S/NO	GROUP	DESCRIPTION	BRAND	ESTIMATED QUANTITY PER YEAR		UNIT RATE (\$\$)
54	CDM	CDM-T 35W/830 Metal Halide Lamp	Philips / Osram	48	Pcs	46.00
55	CDM	CDM-T 70W/830 Metal Halide Lamp	Philips / Osram	48	Pcs	46.00
56	CDM	CDM-TC 35W/830 Metal Halide Lamp	Philips / Osram	50	Pcs	77.00
57	DULUX	125W HQL (MBF-U) Super Dulux Lamp E27	Philips / Osram	50	Pcs	46.50
58	DULUX	Dulux T 18W/830Lamp	Philips/Osram	50	Pcs	21.00
59	DULUX	Dulux T/E 42W/830 Fluo Lamp	Philips/Osram	100	Pcs	36.00
60	E27	12W Dulux Mini Twist E27 827 (Warmwhite / Coolwhite / Daylight)	Philips / Osram	50	Pcs	8.60
61	E27	18W Duluxstar E27 827 (Warmwhite / Coolwhite / Daylight)	Philips / Osram	50	Pcs	9.60
62	E27	64841 Par 30 75W Lamp E27 Flood	Philips / Osram	50	Pcs	14.30
63	E27	80W PAR 38 Reflector Lamp Flood E27	Philips / Osram	500	Pcs	10.20
64	E27	Dulux Star 23W/827 E27 Fluo Lamp	Philips/Osram	50	Pcs	18.70
65	E27	GENIE 11W ES Fluo Lamp 71DR4 (Warmwhite / Coolwhite / Daylight) 600 lumen	Philips / Osram	100	Pcs	8.00
66	E27	Tornado 24w Spiral shape energy saving bulb 3600 Lm Cool White 4000K (Warmwhite / Coolwhite / Daylight) 3600 lumen	Philips / Osram	30	Pcs	11.10
67	EXIT	EXIT Light WP TBJ 301 - Weatherproof	Denko / Maxspid / PNE	10	Pcs	102.00
68	FAN	Ceiling Fan 60" Rod 9" to 18"	KDK / Panasonic	10	Pcs	218.00
69	FAN	Exhaust Fan 10" (Square) Model 25 AQT2	KDK / Panasonic	5	Pcs	186.00
70	FAN	Exhaust Fan 12" (Square) Model 30 AUF	KDK / Panasonic	5	Pcs	268.00
71	FAN	Exhaust Fan 6" (Round) Model 15 WUD	KDK / Panasonic	5	Pcs	154.00
72	FAN	Exhaust Fan 6" (Square) Model 15 AAQ	KDK / Panasonic	5	Pcs	216.00
73	FAN	Exhaust Fan 8" (Round) Model 20 WUD	KDK / Panasonic	5	Pcs	205.00
74	FAN	Exhaust Fan 8" (Square) Model 20 AUH	KDK / Panasonic	5	Pcs	180.00
75	FAN	Wall Fan 16"	KDK / Panasonic	10	Pcs	386.00
76	FITTING	2197 recessed wall and stairs luminaire IP64. Lamp holder: G23 compact Fluorescent 11W Finished in Graphite c/w 10426 installation housing. Size(mm): W320 x H70 x D60 PL-S 11W/827 (2700K) 2pin G23 compact FLUORESCENT lamp.	BEGA or equivalent	5	Set	741.00
77	FITTING	4832 In-ground IP65 Drive Over Light with Single Window (11W E27 Light Bulb)	Simes or equivalent	5	Set	644.00
78	FITTING	88997 Cylinder Diffuser 150319.6	BEGA or equivalent	10	Pcs	869.00
79	FITTING	8997 4METRE Pole (Pole Luminaire in Diecast Aluminum and Stainless Steel c/w 3x36W T26 Fluorescent Lamps and Gears)	BEGA or equivalent	2	Set	6018.00
80	FITTING	FL4 IP65 Die Cast Aluminum Alloy Housing Luminaires With Non Degradable Corrosive Resistant Spike & High Temp. Tampered Front Glass & Anti Glare Shrouded Hood. (PAR38 Light Bulb)	DMS or equivalent	10	Set	147.00
81	FITTING	Model 1220 Outdoor Spotlight Fitting For PAR 38 Lamp	Disano / Mruro	100	Pcs	51.00
82	FITTING	S.4829 PLC 18W IP67 Drive Over Fitting 2 Windows	Simes or equivalent	5	Set	892.00
83	FLUORESCENT	18W T8 Fluorescent Light 865 (Warmwhite / Coolwhite / Daylight) 1300 lumen	Philips / Osram	30	Pcs	3.20
84	FLUORESCENT	36W T8 Fluorescent Light 865 (Warmwhite / Coolwhite / Daylight) 3250 lumen	Philips / Osram	30	Pcs	3.20
85	FLUORESCENT	Fluorescent Light Fitting 2' c/w Tube (T5/T8)	B.S Lite / SJ Lite	20	Pcs	17.70
86	FLUORESCENT	Fluorescent Light Fitting 4' c/w Tube (T5/T8)	B.S Lite / SJ Lite	30	Pcs	20.40
87	FLUORESCENT	Fluorescent Tube 10W /Colour 827/865	Philips / Hitachi / Osram	100	Pcs	2.30
88	FLUORESCENT	Fluorescent Tube 15W 1 1/2" (Daylight)	Philips / Hitachi / Osram	50	Pcs	2.30
89	FLUORESCENT	Fluorescent Tube 8W Colour 827/865	Philips / Hitachi / Osram	50	Pcs	4.10
90	FLUORESCENT	T5 Fluorescent Tube 14W/827/830/840/865	Philips / Osram	50	Pcs	7.00
91	FLUORESCENT	T5 Fluorescent Tube 21W/827/830/840/865	Philips / Osram	50	Pcs	7.00
92	FLUORESCENT	T5 Fluorescent Tube 28W/827/830/840/865	Philips / Osram	100	Pcs	7.00
93	FLUORESCENT	TL5 Retrosave 14W/840 Fluo Lamp (H) (Warmwhite / Coolwhite / Daylight) 1350 Lumen	Philips / Osram	100	Pcs	13.50
94	FLUORESCENT	Weatherproof Fluorescent Light Fitting 1 x 2' c/w Tube	Disano / Philips	5	Set	147.50
95	FLUORESCENT	Weatherproof Fluorescent Light Fitting 1 x 4' c/w Tube	Disano / Philips	5	Set	110.00
96	HALOGEN	Lamp Halogen 12V 20W 44860 GU5.3 WFL 36D c/w Cover 210 lumen	Philips / Osram	100	Pcs	1.50
97	HALOSTAR	1.2W G4 LED Bulb (Halostar)	Megaman	100	Pcs	17.40
98	HALOSTAR	20W 12V Halostar Standard G4 BASE(64425) 320 lumen	Philips / Osram	200	Pcs	2.70
99	HALOSTAR	Lamp Halogen Capsule 12V 10W 64415 G4 110 lumen	Philips / Osram	300	Pcs	2.70
100	HANDLE	Switchroom Electrical Door Panel 207-0107.50-07031 PA Handle	Schneider or equivalent	20	Pcs	9.50
101	HOLDER	402/L G23 PL Batten Lamp Holder	(Any Brand)	100	Pcs	3.20
102	HOLDER	423/VD2 G24D-2 PLC 18W Lamp Holder	(Any Brand)	100	Pcs	2.40
103	HOLDER	PLC 2PIN Universal Barrel Lamp Holder	(Any Brand)	100	Pcs	2.40
104	HOLDER	Porcelain Lamp Holder E27	Vossloh Schwabe	100	Pcs	2.30
105	HOLDER	VV Holder Halogen 7" K502 Brown Cable - Round (MR16 Light Bulbs)	Philips / Osram	1000	Pcs	1.50
106	HPI	Lamp 400W HPI/T	Philips / Osram	10	Pcs	93.00

TERM CONTRACT FOR MINOR WORKS, SERVICING, MAINTENANCE AND REPAIR OF EXISTING ELECTRICAL INSTALLATIONS AT SENTOSA (INCLUDING SENTOSA COVE) FOR A PERIOD OF THREE (3) YEARS

FIXED SCHEDULE OF RATES III

S/NO	GROUP	DESCRIPTION	BRAND	ESTIMATED QUANTITY PER YEAR	UNIT RATE (\$\$)
107	HPL	80W HPL-N 542 E27 Bulb	Philips / Osram	30 Pcs	8.00
108	HQI	HQI/R 150W/NDL 150W Plug Metal Halide Reflector Lamp 92N/OR1 5200 lm; 1850 lm	Philips / Osram	10 Pcs	500.00
109	HQI	HQI-E 150W/WW or DL/CL or Coated M/Halide Lamp E27	Philips / Osram	10 Pcs	110.00
110	IGNITOR	Ignitor 70-400W Z400M	Vossloh Schwabe	100 Pcs	30.80
111	INDICATOR	240V E10 Blue LED Indicator Light Bulb	Demex / Idec	50 Pcs	3.75
112	INDICATOR	240V E10 Red LED Indicator Light Bulb	Demex / Idec	50 Pcs	3.75
113	INDICATOR	240V E10 White LED Indicator Bulb	Demex / Idec	100 Pcs	3.75
114	INDICATOR	240V E10 Yellow LED Indicator Light Bulb	Demex / Idec	50 Pcs	3.75
115	INDICATOR	Silver G12 6.3V 1W BA9S Indicator Lamp	Hager / Demex / Idec	100 Pcs	1.40
116	INDICATOR	SVN 122 Red Indicator	Hager / Demex / Idec	100 Pcs	12.80
117	INDICATOR	SVN 123 Amber Indicator	Hager / Demex / Idec	100 Pcs	12.80
118	INDICATOR	SVN 124 Blue Indicator	Hager / Demex / Idec	100 Pcs	12.80
119	LED	10W LED Stick 2700K E27 Frosted 1050lm AC08545	Osram	100 Pcs	6.40
120	LED	33404.000 Panorama Bollard Luminaire 24W LED 3000K Dimmable (Warmwhite / Coolwhite / Daylight) 2400 lumen	ERCO or equivalent	10 Set	6232.00
121	LED	36W 3000K LED E27 Base Cone Lamp (Warmwhite)	CLI-CK	50 Pcs	87.10
122	LED	AquaLED 4 10V DC 0.5W	Osram	50 Pcs	30.00
123	LED	Galaxias LED Fairy lights (Outdoor), Warmwhite 2700K, Black wires 1 end comes with 2 pin plug, per set of 10 meters, 100 LED	(Any Brand)	300 Each	40.00
124	LED	Galaxias LED Meteor Light, tube length approx 80cm, one set of 10tubes, Warmwhite 2700-3000K - Extension cable of 5m - Cable in between each tube light to be 2.5m Outdoor IP68 with AC220V input, 12V output	(Any Brand)	30 Set	309.00
125	LED	Galaxias LED Rope Light, Warmwhite, 36LEDs/m (1roll - 100metre) c/w 2 pin connector (For inter joining strips), heat sleeve (per unit, approx 5cm) & 2 pin core cable connector	(Any Brand)	30 Roll	3000.00
126	LED	LED 1.2W Dragoneye DE1-W3F-830 350mA 12V (827 / 830 / 840 / 865)	Osram or equivalent	70 Pcs	32.70
127	LED	LED 16W T5 Tube 3000K (4000K / 6000K) 2100 lumen	Philips / Osram / Megaman / Powerpac	50 Pcs	40.50
128	LED	LED 2.5W 24V CP01S-W4F-830	Osram	100 Pcs	30.00
129	LED	LED 3.5W-20W 12V 2700K 24 Deg (4000K / 6000K) 200 lumen	Philips / Osram	50 Pcs	20.30
130	LED	LED 30W E27 IDO Lamp (3000K)	Citymatic	50 Pcs	68.00
131	LED	LED 36W E27 IDO Lamp (3000K)	Citymatic	50 Pcs	97.00
132	LED	LED 36WATTS E27 Socket Cone Lamp (Warmwhite / Coolwhite / Daylight)	Philips / Osram / Megaman / Powerpac	200 Pcs	82.50
133	LED	LED A67 14.5W=120W 230V E27 2700K 1800LM	Philips / Osram	100 Pcs	39.00
134	LED	LED A67 14.5W=120W 230V E27 6500K 1800LM	Philips / Osram	300 Pcs	39.00
135	LED	LED DN024 LED9/WW D125 RD 5inch Recessed Luminaire (SET OF 6PCS) (4000K / 6000K) 900 lumen	Philips / Osram / Megaman / Powerpac	30 Pcs	150.00
136	LED	LED DN024 LED9/WW D125 SQR 5inch Recessed Luminaire (SET OF 6PCS) (4000K / 6000K) 900 lumen	Philips / Osram / Megaman / Powerpac	30 Pcs	132.00
137	LED	LED Lamp 3U 5W WW E27 - PP6515 (Warmwhite / Coolwhite / Daylight) 430 lumen	Philips / Osram / Megaman / Powerpac	200 Pcs	19.00
138	LED	LED Lamp 5.5W-50W 12V MR16 2700K 24DEGREES (MASTER) (4000K / 6000K) 400 lumen	Philips / Osram	200 Pcs	13.20
139	LED	LED Lamp 5W-50W 12V MR16 2700K 24DEGREES (ESSENTIAL) (4000K / 6000K) 400 lumen	Philips / Osram / Megaman / Powerpac	200 Pcs	6.80
140	LED	LED Lamp EU0301 1.2W G4 2800K (4000K / 6000K) 100 lumen	Philips / Osram / Megaman / Powerpac	100 Pcs	11.30
141	LED	LED Lamp PAR 38 10W-80W E27 2700K 25DEG (ESSENTIAL) (4000K / 6000K) 900 lumen	Philips / Osram / Megaman / Powerpac	100 Pcs	33.80
142	LED	LED Lamp PAR20 5.5W=50W 2700K 25DEGS E27 Dimmable Lamp (ESSENTIAL) (4000K / 6000K) 480 lumen	Philips / Osram / Megaman / Powerpac	80 Pcs	13.50
143	LED	LED Lamp PAR20 5.5W=50W 2700K 25DEGS E27 Dimmable Lamp (MASTER) (4000K / 6000K) 480 lumen	Philips / Osram / Megaman / Powerpac	80 Pcs	27.00
144	LED	LED Lamp PAR30 9W-75W E27 827 25DEG (ESSENTIAL) (4000K / 6000K) 740 lumen	Philips / Osram / Megaman / Powerpac	80 Pcs	43.50
145	LED	LED Lamp PAR30 9W-75W E27 827 25DEG (MASTER) (4000K / 6000K) 740	Philips / Osram / Megaman / Powerpac	80 Pcs	43.50
146	LED	LED Lamp PLC 10W WW 2 PIN - PP6610 (Warmwhite / Coolwhite / Daylight) 1000 lumen	Philips / Osram / Megaman / Powerpac	100 Pcs	20.30
147	LED	LED MAS LED tube 1200mm HO 14W 830 T8 (827 / 830 / 840 / 865) 2000 lumen	Philips / Osram / Megaman / Powerpac	50 Pcs	43.50
148	LED	LED MR16 5W=50W GU10 927K 36Deg 230V Dim	Philips / Osram	200 Pcs	10.50
149	LED	LED P48 6W=40W E27 230V 2700K CL DT 470LM	Philips / Osram	200 Pcs	18.00
150	LED	LED PLC 8.5W 830 2P G24D-3 Core-Pro 900LM 30KHS	Philips	100 Pcs	13.90
151	LED	LED T8 ESSENTIAL 8W/840 4000K G13 Lamp 600MM (827 / 830 / 840 / 865) 800 lumen	Philips / Osram / Megaman / Powerpac	50 Pcs	22.50
152	LED	MEM/M/LED 2HRS Emergency Power Pack	Denko / Maxspid	30 Set	90.00

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FIXED SCHEDULE OF RATES III

S/NO	GROUP	DESCRIPTION	BRAND	ESTIMATED QUANTITY PER YEAR		UNIT RATE (\$\$)
153	LED	MR16 LED Light Fitting Set	ILMAS or equivalent	50	Pcs	65.00
154	LED	PAR20 LED Light Fitting Set	ILMAS or equivalent	50	Pcs	106.00
155	LED	PAR30 LED Light Fitting Set	ILMAS or equivalent	50	Pcs	106.00
156	LED	PAR38 LED Light Fitting Set	ILMAS or equivalent	50	Pcs	112.00
157	LED	UFO 1W LED-11NM (Big Disc)	Denko / Maxspid	100	Pcs	78.00
158	LED	UFO 1W LED-11NM (Small Disc)	Denko / Maxspid	100	Pcs	78.00
159	LED MODULAR	LED BA-L-PL830 G15 12VDC 1.6W 32 Module X 3 SMD Back Light Prewired 9.6m to IP65 (Warmwhite / Coolwhite / Daylight) 125 Lumen	Philips / Osram	20	Box	380.00
160	MCB	MCB 10 Amp 1 Pole	ABB / Hager	20	Pcs	8.00
161	MCB	MCB 10Amp 2Pole	ABB / Hager	10	Pcs	23.00
162	MCB	MCB 16 Amp 1 Pole	ABB / Hager	20	Pcs	8.00
163	MCB	MCB 16 Amp 3 Pole	ABB / Hager	10	Pcs	45.00
164	MCB	MCB 16Amp 2 Pole	ABB / Hager	20	Pcs	27.00
165	MCB	MCB 20 Amp 1 Pole	ABB / Hager	20	Pcs	8.00
166	MCB	MCB 20 Amp 2 Pole	ABB / Hager	10	Pcs	32.00
167	MCB	MCB 20 Amp 3 Pole	ABB / Hager	10	Pcs	45.00
168	MCB	MCB 32 Amp 1 Pole	ABB / Hager	20	Pcs	8.00
169	MCB	MCB 32 Amp 2 Pole	ABB / Hager	10	Pcs	32.00
170	MCB	MCB 32 Amp 3 Pole	ABB / Hager	10	Pcs	45.00
171	MCB	MCB 6 Amp 1 Pole	ABB / Hager	20	Pcs	8.00
172	MCB	MCB 63 Amp 3 Pole	ABB / Hager	10	Pcs	94.00
173	METAL HALIDE	Metal Halide Lamp HQ1-TS 150W/NDL	Philips / Osram	20	Pcs	90.00
174	METAL HALIDE	Metal Halide Lamp HQ-E 70W/WDL (Power Star)	Philips / Osram	20	Pcs	105.00
175	METAL HALIDE	Metal Halide Lamp HQI-TS/150W/WDL	Philips / Osram	20	Pcs	90.00
176	METAL HALIDE	Metal Halide Lamp HQI-TS/70W/NDL OR WDL	Philips / Osram	20	Pcs	90.00
177	PL	PL/PLC/PLS, 2PIN/4PIN - 11W Lamp Colour 827/830/840/865	Philips/Osram	50	Pcs	6.50
178	PL	PL/PLC/PLS, 2PIN/4PIN - 9W Lamp Colour 827/830/840/865	Philips/Osram	40	Pcs	6.50
179	PLC	PL/PLC/PLS, 2PIN/4PIN - 10W Lamp Colour 827/830/840/865	Philips/Osram	30	Pcs	8.40
180	PLC	PL/PLC/PLS, 2PIN/4PIN - 13W (Warmwhite)	Philips/Osram	20	Pcs	16.00
181	PLC	PL/PLC/PLS, 2PIN/4PIN - 13W Lamp Colour 827/830/840/865	Philips/Osram	50	Pcs	8.40
182	PLC	PL/PLC/PLS, 2PIN/4PIN - 18W Lamp Colour 827/830/840/865	Philips/Osram	50	Pcs	8.40
183	PLC	PL/PLC/PLS, 2PIN/4PIN - 18W/865 (Warmwhite / Coolwhite / Daylight) 1200 lumen	Philips / Osram	20	Pcs	5.00
184	PLC	PL/PLC/PLS, 2PIN/4PIN - 26W Lamp Colour 827/830/840/865	Philips/Osram	30	Pcs	10.80
185	PLUG	13 Amp Plug Top MK 646WHI	MK / Jasmart	10	Pcs	15.30
186	PVC	110 x 110 x 60 mm IP 66 EB442 Weatherproof Junction Box	Kripal / PVC-Link	100	Pcs	3.75
187	PVC	155 x 115 x 110 mm IP 66 EB644 Weatherproof Junction Box	Kripal / PVC-Link	100	Pcs	6.75
188	PVC	155 x 115 x 80 mm IP 66 EB643 Weatherproof Junction Box	Kripal / PVC-Link	100	Pcs	5.25
189	PVC	155 x 155 x 60 mm IP 55 Weatherproof Box	Kripal / PVC-Link	100	Pcs	5.25
190	PVC	215 x 150 x 110 mm IP 55 Weatherproof Box	Kripal / PVC-Link	100	Pcs	8.25
191	PVC	250 x 200 x 110 mm IP 66 KP1084 Weatherproof Junction Box	Kripal / PVC-Link	50	Pcs	20.00
192	PVC	PG13 PVC Cable Gland with Locknut	Legrand or equivalent	10	Pcs	3.10
193	PVC	PVC Connector 15 Amp 12 Ways	Legrand or German Brand	300	Pcs	3.00
194	PVC	PVC Connector 30 Amp 12 Ways	Legrand or German Brand	200	Pcs	7.40
195	PVC	PVC Connector 5 Amp 12 Ways	Legrand or German Brand	200	Pcs	1.90
196	PVC	PVC Insulating Tape	Vini or equivalent	300	Pcs	1.40
197	RCCB	RCCB 40A/0.03 2 Pole 230V	ABB / Hager	10	Pcs	41.10
198	RCCB	RCCB 40A/0.03 4 Pole 415V	ABB / Hager	10	Pcs	64.30
199	RCCB	RCCB 40A/0.1 2 Pole 230V	ABB / Hager	10	Pcs	46.50
200	RCCB	RCCB 40A/0.1 4 Pole 415V	ABB / Hager	10	Pcs	71.50
201	RCCB	RCCB 63A/0.03 2 Pole 230V	ABB / Hager	10	Pcs	64.30
202	RCCB	RCCB 63A/0.03 4 Pole 415V	ABB / Hager	10	Pcs	89.30
203	RCCB	RCCB 63A/0.1 2 Pole 230V	ABB / Hager	10	Pcs	89.30
204	RCCB	RCCB 63A/0.1 4 Pole 415V	ABB / Hager	10	Pcs	90.00
205	SON	Lamp 100W SON/T	Philips / Osram	10	Pcs	60.00
206	SON	Lamp 150W SON/T	Philips / Osram	10	Pcs	50.00
207	SON	Lamp 250W SON/T	Philips / Osram	10	Pcs	52.00
208	SON	Lamp 400W SON/T	Philips / Osram	10	Pcs	55.00
209	SON	Lamp 70W SON/T	Philips / Osram	40	Pcs	37.40
210	SON	Lamp 70W/I SON	Philips / Osram	40	Pcs	35.00
211	SSO	1 Gang Moulded Box	ABC / MK / LEGRAND	10	Pcs	0.75
212	SSO	13 Amp Switch Socket Outlet c/w Box 1 Gang MK G2757WHI	MK / Jasmart	10	Pcs	4.70
213	SSO	13 Amp Switch Socket Outlet c/w Box 2 Gang MK G2747WHI	MK / Jasmart	10	Pcs	10.50
214	SSO	15 Amp Switch Socket Outlet c/w Box MK G2893WHI	MK / Jasmart	10	Pcs	12.90

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FIXED SCHEDULE OF RATES III

S/NO	GROUP	DESCRIPTION	BRAND	ESTIMATED QUANTITY PER YEAR	UNIT RATE (\$\$)
215	SSO	2 Gang Moulded Box	ABC / MK / LEGRAND	10 Pcs	0.90
216	SSO	6 Amp 1 Gang Switch c/w Box MK G8870WHI	MK / Jasmart	10 Pcs	2.70
217	SSO	6 Amp 2 Gang Switch c/w Box MK G8872 W1WHI	MK / Jasmart	10 Pcs	6.00
218	SSO	Abox 025 (76mm x 76mm) 2.5mm2 IP 65	Hensel / PVC-Link / Kripal	50 Pcs	8.40
219	SSO	S2747 White 2X13A Switch Socket 91CR6	MK / Legrand	50 Pcs	8.40
220	SSO	S2757 White 1X13A Switch Socket 91 CR6	MK / Legrand	50 Pcs	5.40
221	SSO	Weatherproof 13A Switch Socket Outlet C313 Complete 56 SO 313	Clipsal / Nikken	10 Pcs	41.00
222	SSO	Weatherproof 13A Switch Socket Outlet C313 Complete 56C313	Clipsal / Nikken	10 Pcs	41.00
223	SSO	Weatherproof 13A Switch Socket Outlet Only 56SW 120	Clipsal / Nikken	10 Pcs	41.00
224	STARTER	Fluorescent Starter S-10	Philips / Osram	200 Pcs	1.00
225	STARTER	Fluorescent Starter S-2	Philips / Osram	50 Pcs	1.00
226	STARTER	LED EMP050 Starter	Philips / Osram	30 Pcs	0.98
227	SWITCH	3G 1W Switch	Clipsal / MK	5 Pcs	7.80
228	SWITCH	4G 1W Switch	Clipsal / MK	5 Pcs	10.30
229	TAPE	No. 23 Rubber Splicing Tape	3M / Cell Pack	20 Roll	40.00
230	TIME	Digital Time Switch 1 Channel EG 103	Hager / Theben	15 Pcs	118.00
231	TIME	Digital Time Switch 2 Channel TR612 top2	Hager / Theben	5 Pcs	140.00