



MAZAGON DOCK SHIPBUILDERS LIMITED

(Formerly known as Mazagon Dock Ltd.)

CIN : U35100MH1934GOI002079

(A Government of India Undertaking)

Shipbuilders to the Nation

Dockyard Road, Mazagon,

Mumbai 400 010.

INDIA

**Biennial Rate Contract for Electrical Works
including minor civil works within MDL
Premises located at Dockyard Road, Sewree,
Anik Chembur, Gavan, Residential Quarters at
Dockyard & Navi Mumbai including works at
Naval Dockyard**

VOLUME-III

**Scope of Work
&
Price Bid (Part-II)**

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1. कार्य का ब्योरा / SCOPE OF WORK:

1.1. BRIEF SCOPE OF Work: Work consists of new work and renovation of office premises, substations, industrial sheds, ware houses, residential areas, and power supply arrangement for machinery

- 1.1.1. Electrical work for Renovation of office premises & residential areas which include SITC of point wiring , power supply , Data, Telephone point on work stations, cabins and other office area, light fixtures , indoor and outdoor lighting (Solar Lighting), ceiling and wall fan, power supply arrangement, Electrical and electronic appliances LAN and its accessories, network switches, racks. Laying of wires, telephone, data and power cables, raceways etc.
- 1.1.2. Electrical work for renovation of Substations which includes SITC of laying of new HT/LT Cables, Power supply distribution panels, HT/LT Switch Gears, metering cubicles and associated civil work such as excavation, trenches etc.
- 1.1.3. Electrical work for renovation of Industrial Sheds which includes SITC of industrial switch sockets, power distribution boards, lighting work, cable laying, power supply arrangement for machinery, tray fitment and necessary fabrication work for same etc.
- 1.1.4. Renovation of Warehouses which includes power distribution, lighting work, cable laying, industrial fans etc.
- 1.1.5. SITC of Public Address System, Fire Alarm System, Rodent Repellent Systems etc.
- 1.1.6. SITC of earthing systems of all types and lightning arrestor system.
- 1.1.7. In addition to above all other electrical repair and renovation works which will be carried out in MDL premises located at Dockyard road, Sewree & Anik Chembur, Gavan Land, and Residential Quarters and Quarters at Navi Mumbai.

The detailed scope of work has been indicated in the Bill of Quantities (BOQ) Price Bid Part-II at Enclosure-1.

Enclosure-1

PRICE BID (PART-II)
BILL OF QUANTITIES
(To be submitted online)

Sub: Biennial Rate Contract for Electrical Works including minor civil works within MDL Premises located at Dockyard Road, Sewree, Anik Chembur, Gavan, Residential Quarters at Dockyard & Navi Mumbai including works at Naval Dockyard.

Ref: MDL Tender No. 1800000048

INSTRUCTION TO THE BIDDER:

1. The Goods & Service Tax **IS NOT INCLUDED** in the rates indicated below. Bidder is required to quote Goods & Service Tax separately in Percentage which shall be added to the Percentage quoted at the time of placement of Specific Orders.
2. The quantities of individual items in the BOQ are **INDICATIVE ONLY**.
3. The bidder after considering the estimated rates of individual items in the BOQ shall quote their percentage at par, below or above the estimated rates for each of the sections separately.
4. Bidder to note Clause No. 1 (Period of Contract), Clause No. 2 (Parallel Rate Contract), Clause No. 3 (Defect Liability Period), Clause No 4 (Performance bank Guarantee), Clause No 5 (Safety and Training), Clause No 7 (Terms of Payment), Clause No 9.1 & 9.6 (Prices and Taxes, Stamp Duty), Clause No 13 (Housekeeping), Clause No 16 (Insurance), Clause, Clause No 18 (Balance Work), & Clause No 12.10 (Availability of construction material) of Volume II before quoting.
5. Bidder should also note Enclosure- 6 (Safety Officer) and Enclosure- 7 (Solvency Certificate) of Volume I before quoting.
6. Bidder should also note Clause No 19 (Slippage of work) and Enclosure- 5 of Volume II before quoting.
7. Please note that the rate indicated below are inclusive of VAT on Input material , Excise, Octroi wherever applicable before implementation of GST Act.

Sr No.	DETAILED DESCRIPTION	UNIT	RATE	QTY	AMOUNT
SECTION I: ELECTRICAL WIRING AND CONDUITS					
	Point Wiring (WG-PW)				
1	Point Wiring for light/fan/bell in 20 mm metal conduit with 1.0 sqmm FR grade copper wire with flush type switch and required accessories as per specification No.WG-PW/SW. Notes 1) For point wiring above 6 meters of length, add 10 % of overall rate of point wiring for every additional 1 meter length or part thereof. 2)Point wiring starts from Main board/Intermediate switch board and suitable circuit mains are to be provided from D.B. to first board and between boards. 3) For point wiring in stair case with 2 way control point increase overall rate by 50 % of light point wiring. 4) For wiring on stone wall add Rs 15.00 per point wiring. 5) For covering at wall entries acrylic sheet of appropriate size shall be provided. 6) Whenever point wiring with modular	P	664.29	20.00	13285.80

	<p>switches are required add Rs. 179 /- per point for light, bell, exhaust fan & Rs. 201/- for Fan point, Rs. 259/- for independent plug point or plug on board.</p> <p>7) For Concealed point wiring, instead of Modular switches & accessories, ordinary switches & accessories are to used, then deduct Rs. 179 /- for point wiring & Rs. 201 /- for fan point and Independent plug point wiring and Rs. 259 /- for plug on board, from overall rates.</p> <p>8) For concealed type wiring multistrand wires shall be used preferably.</p>				
2	<p>Point Wiring for light/fan/bell in 20 mm metal conduit with 1.0 sqmm FRLS grade copper wire with flush type switch and required accessories as per specification No.WG-PW/SW.</p> <p>Notes</p> <p>1) For point wiring above 6 meters of length, add 10 % of overall rate of point wiring for every additional 1 meter length or part thereof.</p> <p>2)Point wiring starts from Main board/Intermediate switch board and suitable circuit mains are to be provided from D.B. to first board and between boards.</p> <p>3) For point wiring in stair case with 2 way control point increase overall rate by 50 % of light point wiring.</p> <p>4) For wiring on stone wall add Rs 15.00 per point wiring.</p> <p>5) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>6) Whenever point wiring with modular switches are required add Rs. 179 /- per point for light, bell, exhaust fan & Rs. 201/- for Fan point, Rs. 259/- for independent plug point or plug on board.</p> <p>7) For Concealed point wiring, instead of Modular switches & accessories, ordinary switches & accessories are to used, then deduct Rs. 179 /- for point wiring & Rs. 201 /- for fan point and Independent plug point wiring and Rs. 259 /- for plug on board, from overall rates.</p> <p>8) For concealed type wiring multistrand wires shall be used preferably.</p>	P	671.60	50.00	33580.00
3	<p>Point Wiring for independent plug in 20 mm metal conduit with 1.0 sqmm FR grade copper wire with flush type switch and required accessories as per specification No.WG-PW/SW.</p> <p>Notes</p> <p>1) For point wiring above 6 meters of length, add 10 % of overall rate of point wiring for every additional 1 meter length or part thereof.</p> <p>2)Point wiring starts from Main board/Intermediate switch board and suitable circuit mains are to be provided from D.B. to first board and between boards.</p>	P	713.38	50.00	35669.00

	<p>3) For point wiring in stair case with 2 way control point increase overall rate by 50 % of light point wiring.</p> <p>4) For wiring on stone wall add Rs 15.00 per point wiring.</p> <p>5) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>6) Whenever point wiring with modular switches are required add Rs. 179 /- per point for light, bell, exhaust fan & Rs. 201/- for Fan point, Rs. 259/- for independent plug point or plug on board.</p> <p>7) For Concealed point wiring, instead of Modular switches & accessories, ordinary switches & accessories are to used, then deduct Rs. 179 /- for point wiring & Rs. 201 /- for fan point and Independent plug point wiring and Rs. 259 /- for plug on board, from overall rates.</p> <p>8) For concealed type wiring multistrand wires shall be used preferably.</p>				
4	<p>Point Wiring for independent plug in 20 mm metal conduit with 1.0 sqmm FRLS grade copper wire with flush type switch and required accessories as per specification No.WG-PW/SW.</p> <p>Notes</p> <p>1) For point wiring above 6 meters of length, add 10 % of overall rate of point wiring for every additional 1 meter length or part thereof.</p> <p>2)Point wiring starts from Main board/Intermediate switch board and suitable circuit mains are to be provided from D.B. to first board and between boards.</p> <p>3) For point wiring in stair case with 2 way control point increase overall rate by 50 % of light point wiring.</p> <p>4) For wiring on stone wall add Rs 15.00 per point wiring.</p> <p>5) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>6) Whenever point wiring with modular switches are required add Rs. 179 /- per point for light, bell, exhaust fan & Rs. 201/- for Fan point, Rs. 259/- for independent plug point or plug on board.</p> <p>7) For Concealed point wiring, instead of Modular switches & accessories, ordinary switches & accessories are to used, then deduct Rs. 179 /- for point wiring & Rs. 201 /- for fan point and Independent plug point wiring and Rs. 259 /- for plug on board, from overall rates.</p> <p>8) For concealed type wiring multistrand wires shall be used preferably.</p>	P	721.73	20.00	14434.60
5	<p>Point Wiring for light/fan/bell in 20 mm rigid PVC conduit with 1.0 sqmm FR grade copper wire with flush type switch and required accessories as per specification No.WG-PW/SW.</p> <p>Notes:</p>	P	428.24	150.00	64236.00

	<p>1) For point wiring above 6 meters of length, add 10 % of overall rate of point wiring for every additional 1 meter length or part thereof.</p> <p>2)Point wiring starts from Main board/Intermediate switch board and suitable circuit mains are to be provided from D.B. to first board and between boards.</p> <p>3) For point wiring in stair case with 2 way control point increase overall rate by 50 % of light point wiring.</p> <p>4) For wiring on stone wall add Rs 15.00 per point wiring.</p> <p>5) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>6) Whenever point wiring with modular switches are required add Rs. 179 /- per point for light, bell, exhaust fan & Rs. 201/- for Fan point, Rs. 259/- for independent plug point or plug on board.</p> <p>7) For Concealed point wiring, instead of Modular switches & accessories, ordinary switches & accessories are to used, then deduct Rs. 179 /- for point wiring & Rs. 201 /- for fan point and Independent plug point wiring and Rs. 259 /- for plug on board, from overall rates.</p> <p>8) For concealed type wiring multistrand wires shall be used preferably.</p>				
6	<p>Point Wiring for light/fan/bell in 20 mm rigid PVC conduit with 1.0 sqmm FRLS grade copper wire with flush type switch and required accessories as per specification No.WG-PW/SW.</p> <p>Notes</p> <p>1) For point wiring above 6 meters of length, add 10 % of overall rate of point wiring for every additional 1 meter length or part thereof.</p> <p>2)Point wiring starts from Main board/Intermediate switch board and suitable circuit mains are to be provided from D.B. to first board and between boards.</p> <p>3) For point wiring in stair case with 2 way control point increase overall rate by 50 % of light point wiring.</p> <p>4) For wiring on stone wall add Rs 15.00 per point wiring.</p> <p>5) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>6) Whenever point wiring with modular switches are required add Rs. 179 /- per point for light, bell, exhaust fan & Rs. 201/- for Fan point, Rs. 259/- for independent plug point or plug on board.</p> <p>7) For Concealed point wiring, instead of Modular switches & accessories, ordinary switches & accessories are to used, then deduct Rs. 179 /- for point wiring & Rs. 201 /- for fan point and Independent plug point wiring and Rs. 259 /- for plug on board, from overall rates.</p> <p>8) For concealed type wiring multistrand wires</p>	P	434.50	50.00	21725.00

	shall be used preferably.				
7	<p>Point Wiring for independent plug in 20 mm rigid PVC conduit with 1.0 sqmm FR grade copper wire with flush type switch and required accessories as per specification No.WG-PW/SW.</p> <p>Notes</p> <p>1) For point wiring above 6 meters of length, add 10 % of overall rate of point wiring for every additional 1 meter length or part thereof.</p> <p>2)Point wiring starts from Main board/Intermediate switch board and suitable circuit mains are to be provided from D.B. to first board and between boards.</p> <p>3) For point wiring in stair case with 2 way control point increase overall rate by 50 % of light point wiring.</p> <p>4) For wiring on stone wall add Rs 15.00 per point wiring.</p> <p>5) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>6) Whenever point wiring with modular switches are required add Rs. 179 /- per point for light, bell, exhaust fan & Rs. 201/- for Fan point, Rs. 259/- for independent plug point or plug on board.</p> <p>7) For Concealed point wiring, instead of Modular switches & accessories, ordinary switches & accessories are to used, then deduct Rs. 179 /- for point wiring & Rs. 201 /- for fan point and Independent plug point wiring and Rs. 259 /- for plug on board, from overall rates.</p> <p>8) For concealed type wiring multistrand wires shall be used preferably.</p>	P	474.20	50.00	23710.00
8	<p>Point Wiring for independent plug in 20 mm rigid PVC conduit with 1.0 sqmm FRLS grade copper wire with flush type switch and required accessories as per specification No.WG-PW/SW.</p> <p>Notes</p> <p>1) For point wiring above 6 meters of length, add 10 % of overall rate of point wiring for every additional 1 meter length or part thereof.</p> <p>2)Point wiring starts from Main board/Intermediate switch board and suitable circuit mains are to be provided from D.B. to first board and between boards.</p> <p>3) For point wiring in stair case with 2 way control point increase overall rate by 50 % of light point wiring.</p> <p>4) For wiring on stone wall add Rs 15.00 per point wiring.</p>	P	482.55	50.00	24127.50

	<p>5) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>6) Whenever point wiring with modular switches are required add Rs. 179 /- per point for light, bell, exhaust fan & Rs. 201/- for Fan point, Rs. 259/- for independent plug point or plug on board.</p> <p>7) For Concealed point wiring, instead of Modular switches & accessories, ordinary switches & accessories are to used, then deduct Rs. 179 /- for point wiring & Rs. 201 /- for fan point and Independent plug point wiring and Rs. 259 /- for plug on board, from overall rates.</p> <p>8) For concealed type wiring multistrand wires shall be used preferably.</p>				
9	<p>Point Wiring for light/fan/bell consealed type in min 20 mm PVC conduit with 1.5 sq.mm FR grade copper wire with moduler type switch and required accessories as per specification No.WG-PW/CW</p> <p>Notes</p> <p>1) For point wiring above 6 meters of length, add 10 % of overall rate of point wiring for every additional 1 meter length or part thereof.</p> <p>2)Point wiring starts from Main board/Intermediate switch board and suitable circuit mains are to be provided from D.B. to first board and between boards.</p> <p>3) For point wiring in stair case with 2 way control point increase overall rate by 50 % of light point wiring.</p> <p>4) For wiring on stone wall add Rs 15.00 per point wiring.</p> <p>5) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>6) Whenever point wiring with modular switches are required add Rs. 179 /- per point for light, bell, exhaust fan & Rs. 201/- for Fan point, Rs. 259/- for independent plug point or plug on board.</p> <p>7) For Concealed point wiring, instead of Modular switches & accessories, ordinary switches & accessories are to used, then deduct Rs. 179 /- for point wiring & Rs. 201 /- for fan point and Independent plug point wiring and Rs. 259 /- for plug on board, from overall rates.</p> <p>8) For concealed type wiring multistrand wires shall be used preferably.</p>	P	677.87	50.00	33893.50
10	<p>Supplying and drawing of 2x1.5 sqmm FRLS grade copper wires in provided concealed pipes for concealed type light/fan/bell point wiring and terminating on box and moduler accessories for point wiring for light/fan/bell as per specification No.WG-PW/CW</p> <p>Notes:</p> <p>1) For point wiring above 6 meters of length, add 10 % of overall rate of point wiring for every additional 1 meter length or part thereof.</p> <p>2)Point wiring starts from Main</p>	P	421.97	60.00	25318.20

	<p>board/Intermediate switch board and suitable circuit mains are to be provided from D.B. to first board and between boards.</p> <p>3) For point wiring in stair case with 2 way control point increase overall rate by 50 % of light point wiring.</p> <p>4) For wiring on stone wall add Rs 15.00 per point wiring.</p> <p>5) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>6) Whenever point wiring with modular switches are required add Rs. 179 /- per point for light, bell, exhaust fan & Rs. 201/- for Fan point, Rs. 259/- for independent plug point or plug on board.</p> <p>7) For Concealed point wiring, instead of Modular switches & accessories, ordinary switches & accessories are to be used, then deduct Rs. 179 /- for point wiring & Rs. 201 /- for fan point and Independent plug point wiring and Rs. 259 /- for plug on board, from overall rates</p> <p>8) For concealed type wiring multistrand wires shall be used preferably.</p>				
11	<p>Point wiring for independent plug, concealed type in min 20 mm PVC conduit with 1.5 sq.mm FR grade copper wires with modular type switch and socket and required accessories as per specification No WG-PW/SW</p> <p>Notes</p> <p>1) For point wiring above 6 meters of length, add 10 % of overall rate of point wiring for every additional 1 meter length or part thereof.</p> <p>2)Point wiring starts from Main board/Intermediate switch board and suitable circuit mains are to be provided from D.B. to first board and between boards.</p> <p>3) For point wiring in stair case with 2 way control point increase overall rate by 50 % of light point wiring.</p> <p>4) For wiring on stone wall add Rs 15.00 per point wiring.</p> <p>5) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>6) Whenever point wiring with modular switches are required add Rs. 179 /- per point for light, bell, exhaust fan & Rs. 201/- for Fan point, Rs. 259/- for independent plug point or plug on board.</p> <p>7) For Concealed point wiring, instead of Modular switches & accessories, ordinary switches & accessories are to be used, then deduct Rs. 179 /- for point wiring & Rs. 201 /- for fan point and Independent plug point wiring and Rs. 259 /- for plug on board, from overall rates.</p> <p>8) For concealed type wiring multistrand wires shall be used preferably.</p>	P	937.94	100.00	93794.00
12	<p>Supplying and drawing of 2x1.5 sq.mm. FR grade copper wires with 1.5 sqmm earthwire</p>	P	678.91	100.00	67891.00

	<p>in provided concealed pipes and terminating on moduler accessories in box for point wiring for independent plug as per specification No WG-PW/SW</p> <p>Notes</p> <p>1) For point wiring above 6 meters of length, add 10 % of overall rate of point wiring for every additional 1 meter length or part thereof.</p> <p>2)Point wiring starts from Main board/Intermediate switch board and suitable circuit mains are to be provided from D.B. to first board and between boards.</p> <p>3) For point wiring in stair case with 2 way control point increase overall rate by 50 % of light point wiring.</p> <p>4) For wiring on stone wall add Rs 15.00 per point wiring.</p> <p>5) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>6) Whenever point wiring with modular switches are required add Rs. 179 /- per point for light, bell, exhaust fan & Rs. 201/- for Fan point, Rs. 259/- for independent plug point or plug on board.</p> <p>7) For Concealed point wiring, instead of Modular switches & accessories, ordinary switches & accessories are to used, then deduct Rs. 179 /- for point wiring & Rs. 201 /- for fan point and Independent plug point wiring and Rs. 259 /- for plug on board, from overall rates.</p> <p>8) For concealed type wiring multistrand wires shall be used preferably.</p>				
13	<p>Wiring for plug on board of with switch socket with copper wiring and earthing as per specification No.WG-PW/SW</p> <p>Notes</p> <p>1) For point wiring above 6 meters of length, add 10 % of overall rate of point wiring for every additional 1 meter length or part thereof.</p> <p>2)Point wiring starts from Main board/Intermediate switch board and suitable circuit mains are to be provided from D.B. to first board and between boards.</p> <p>3) For point wiring in stair case with 2 way control point increase overall rate by 50 % of light point wiring.</p> <p>4) For wiring on stone wall add Rs 15.00 per point wiring.</p> <p>5) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>6) Whenever point wiring with modular switches are required add Rs. 179 /- per point for light, bell, exhaust fan & Rs. 201/- for Fan point, Rs. 259/- for independent plug point or plug on board.</p> <p>7) For Concealed point wiring, instead of Modular switches & accessories, ordinary switches & accessories are to used, then</p>	P	91.91	300.00	27573.00

	deduct Rs. 179 /- for point wiring & Rs. 201 /- for fan point and Independent plug point wiring and Rs. 259 /- for plug on board, from overall rates. 8) For concealed type wiring multistrand wires shall be used preferably.				
14	Wiring for plug on board with Switch socket concealed type with copper wiring, earthing and with moduler accessories as per specification No.WG-PW/CW Notes 1) For point wiring above 6 meters of length, add 10 % of overall rate of point wiring for every additional 1 meter length or part thereof. 2)Point wiring starts from Main board/Intermediate switch board and suitable circuit mains are to be provided from D.B. to first board and between boards. 3) For point wiring in stair case with 2 way control point increase overall rate by 50 % of light point wiring. 4) For wiring on stone wall add Rs 15.00 per point wiring. 5) For covering at wall entries acrylic sheet of appropriate size shall be provided. 6) Whenever point wiring with modular switches are required add Rs. 179 /- per point for light, bell, exhaust fan & Rs. 201/- for Fan point, Rs. 259/- for independent plug point or plug on board. 7) For Concealed point wiring, instead of Modular switches & accessories, ordinary switches & accessories are to used, then deduct Rs. 179 /- for point wiring & Rs. 201 /- for fan point and Independent plug point wiring and Rs. 259 /- for plug on board, from overall rates. 8) For concealed type wiring multistrand wires shall be used preferably.	P	430.33	300.00	129099.00
15	Point Wiring in PVC trunking (casing-capping) with 1.0 sqmm FR grade copper wire with flush type switch and required accessories as per specification No.WG-PW/SW. Notes: 1) For point wiring above 6 meters of length, add 10 % of overall rate of point wiring for every additional 1 meter length or part thereof. 2)Point wiring starts from Main board/Intermediate switch board and suitable circuit mains are to be provided from D.B. to first board and between boards. 3) For point wiring in stair case with 2 way control point increase overall rate by 50 % of light point wiring. 4) For wiring on stone wall add Rs 15.00 per point wiring. 5) For covering at wall entries acrylic sheet of appropriate size shall be provided 6) Whenever point wiring with modular switches are required add Rs. 179 /- per point for light, bell, exhaust fan & Rs. 201/- for Fan	P	317.53	1000.00	317530.00

	<p>point, Rs. 259/- for independent plug point or plug on board.</p> <p>7) For Concealed point wiring, instead of Modular switches & accessories, ordinary switches & accessories are to used, then deduct Rs. 179 /- for point wiring & Rs. 201 /- for fan point and Independent plug point wiring and Rs. 259 /- for plug on board, from overall rates.</p> <p>8) For concealed type wiring multistrand wires shall be used preferably.</p>				
16	<p>Point Wiring in PVC trunking (casing-capping) with 1.0 sqmm FRLS grade copper wire with flush type switch and required accessories as per specification No.WG-PW/SW.</p> <p>Notes</p> <p>1) For point wiring above 6 meters of length, add 10 % of overall rate of point wiring for every additional 1 meter length or part thereof.</p> <p>2)Point wiring starts from Main board/Intermediate switch board and suitable circuit mains are to be provided from D.B. to first board and between boards.</p> <p>3) For point wiring in stair case with 2 way control point increase overall rate by 50 % of light point wiring.</p> <p>4) For wiring on stone wall add Rs 15.00 per point wiring.</p> <p>5) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>6) Whenever point wiring with modular switches are required add Rs. 179 /- per point for light, bell, exhaust fan & Rs. 201/- for Fan point, Rs. 259/- for independent plug point or plug on board.</p> <p>7) For Concealed point wiring, instead of Modular switches & accessories, ordinary switches & accessories are to used, then deduct Rs. 179 /- for point wiring & Rs. 201 /- for fan point and Independent plug point wiring and Rs. 259 /- for plug on board, from overall rates.</p> <p>8) For concealed type wiring multistrand wires shall be used preferably.</p>	P	323.79	500.00	161895.00
17	<p>Point Wiring for independent plug in PVC trunking (casing-capping) with 1.0 sqmm FR grade copper wire with flush type switch and required accessories as per specification No.WG-PW/SW.</p> <p>Notes</p> <p>1) For point wiring above 6 meters of length, add 10 % of overall rate of point wiring for every additional 1 meter length or part thereof.</p> <p>2)Point wiring starts from Main board/Intermediate switch board and suitable circuit mains are to be provided from D.B. to first board and between boards.</p> <p>3) For point wiring in stair case with 2 way control point increase overall rate by 50 % of light point wiring.</p>	P	359.31	600.00	215586.00

	<p>4) For wiring on stone wall add Rs 15.00 per point wiring.</p> <p>5) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>6) Whenever point wiring with modular switches are required add Rs. 179 /- per point for light, bell, exhaust fan & Rs. 201/- for Fan point, Rs. 259/- for independent plug point or plug on board.</p> <p>7) For Concealed point wiring, instead of Modular switches & accessories, ordinary switches & accessories are to used, then deduct Rs. 179 /- for point wiring & Rs. 201 /- for fan point and Independent plug point wiring and Rs. 259 /- for plug on board, from overall rates.</p> <p>8) For concealed type wiring multistrand wires shall be used preferably.</p>				
18	<p>Point Wiring for independent plug in PVC trunking (casing-capping) with 1.0 sqmm FRLS grade copper wire with flush type switch and required accessories as per specification No.WG-PW/SW.</p> <p>Notes</p> <p>1) For point wiring above 6 meters of length, add 10 % of overall rate of point wiring for every additional 1 meter length or part thereof.</p> <p>2)Point wiring starts from Main board/Intermediate switch board and suitable circuit mains are to be provided from D.B. to first board and between boards.</p> <p>3) For point wiring in stair case with 2 way control point increase overall rate by 50 % of light point wiring.</p> <p>4) For wiring on stone wall add Rs 15.00 per point wiring.</p> <p>5) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>6) Whenever point wiring with modular switches are required add Rs. 179 /- per point for light, bell, exhaust fan & Rs. 201/- for Fan point, Rs. 259/- for independent plug point or plug on board.</p> <p>7) For Concealed point wiring, instead of Modular switches & accessories, ordinary switches & accessories are to used, then deduct Rs. 179 /- for point wiring & Rs. 201 /- for fan point and Independent plug point wiring and Rs. 259 /- for plug on board, from overall rates.</p> <p>8) For concealed type wiring multistrand wires shall be used preferably.</p>	P	365.57	100.00	36557.00
19	<p>Concealing the provided M.S / PVC switch box in wall with finishing in an approved manner as per specification no- WG-PW/CW</p> <p>Notes</p> <p>1) For point wiring above 6 meters of length, add 10 % of overall rate of point wiring for every additional 1 meter length or part thereof.</p> <p>2)Point wiring starts from Main</p>	AU	50.13	100.00	5013.00

	board/Intermediate switch board and suitable circuit mains are to be provided from D.B. to first board and between boards. 3) For point wiring in stair case with 2 way control point increase overall rate by 50 % of light point wiring. 4) For wiring on stone wall add Rs 15.00 per point wiring. 5) For covering at wall entries acrylic sheet of appropriate size shall be provided. 6) Whenever point wiring with modular switches are required add Rs. 179 /- per point for light, bell, exhaust fan & Rs. 201/- for Fan point, Rs. 259/- for independent plug point or plug on board. 7) For Concealed point wiring, instead of Modular switches & accessories, ordinary switches & accessories are to be used, then deduct Rs. 179 /- for point wiring & Rs. 201 /- for fan point and Independent plug point wiring and Rs. 259 /- for plug on board, from overall rates. 8) For concealed type wiring multistrand wires shall be used preferably.				
20	Refilling the holes for dismantled point wiring with cement mortar & finishing in an approved manner.	P	24.02	300.00	7206.00
Concealing of Conduits					
21	Supplying & erecting ISI mark Rigid Steel conduit 16 SWG 20 mm dia. with necessary accessories in wall/floor with chiselling appropriately as per specification No: WG-MA/CC, para no. 1.2.3	M	156.67	100.00	15667.00
22	Supplying & erecting ISI mark Rigid Steel conduit 16 SWG 25 mm dia. with necessary accessories in wall/floor with chiselling appropriately as per specification No: WG-MA/CC, para no. 1.2.3	M	201.58	100.00	20158.00
23	Supplying & erecting I.S.I. mark Rigid P.V.C. conduit 20 mm. dia. with necessary accessories in wall/floor with chiselling appropriately as per specification No: WG-MA/CC, para no. 1.2.1	M	97.13	600.00	58278.00
24	Suppling & laying Rigid PVC conduit 20 mm Dia. With necessary accessories in RCC work/false ceiling/false flooring as per specification No. WG-MA/CC, para no. 1.2.1	M	79.38	600.00	47628.00
25	Supplying & erecting I.S.I. mark Rigid P.V.C. conduit 25 mm. dia. with necessary accessories in wall/floor with chiselling appropriately as per specification No: WG-MA/CC, para no. 1.2.1	M	112.80	300.00	33840.00
26	Suppling & laying Rigid PVC conduit 25 mm Dia with necessary accessories in RCC work/false ceiling/false flooring as per specification No. WG-MA/CC, para no. 1.2.1	M	94.00	500.00	47000.00
27	Supplying & erecting I.S.I. mark Rigid P.V.C. conduit 32 mm. dia. with necessary accessories in wall/floor with chiselling appropriately as per specification No: WG-MA/CC, para no. 1.2.1	M	145.19	100.00	14519.00

28	Concealing provided ISI mark GI pipe /H.G. screwed conduit /PVC pipe in wall/floor/falalse ceiling complete as per specification no- WG-PW/CW Note :- Add Rs 5/- per meter for erecting conduit on stone wall	M	54.32	100.00	5432.00
	PVC Flexible/Rigid Conduits/ Casing-n-capping / Under Floor Trunking/Raceways and Box System (WG-MA/CON)				
29	Supplying and erecting UPVC reinforced flexible conduit 20 mm in dia. conforming to I.S. and approved make with required number of couplings, PVC bushes, check nuts etc. complete.	M	82.52	500.00	41260.00
30	Supplying and erecting UPVC reinforced flexible conduit 25 mm in dia. conforming to I.S. and approved make with required number of couplings, PVC bushes, check nuts etc. complete.	M	91.91	100.00	9191.00
31	Supplying and erecting UPVC reinforced flexible conduit 31/32 mm in dia. conforming to I.S. and approved make with required number of couplings, PVC bushes, check nuts etc. complete.	M	108.63	50.00	5431.50
32	Supplying and erecting UPVC reinforced flexible conduit 38/40 mm in dia. conforming to I.S. and approved make with required number of couplings, PVC bushes, check nuts etc. complete.	M	133.69	50.00	6684.50
33	Supplying and erecting UPVC reinforced flexible conduit 50 mm in dia. conforming to I.S. and approved make with required number of couplings, PVC bushes, check nuts etc. complete.	M	169.21	50.00	8460.50
34	Supplying and laying rigid PVC conduit 20 mm dia. with PVC accessories on wall/ceiling as per specification No: WG-MA/CON, para no. 1.1.1	M	60.58	500.00	30290.00
35	Supplying and laying rigid PVC conduit 25 mm dia. with PVC accessories on wall/ceiling as per specification No: WG-MA/CON, para no. 1.1.1	M	79.38	50.00	3969.00
36	Supplying and laying PVC trunking (PVC casing-n-capping) of size 20 mm. with accessories on wall/ceiling as per specification No: WG-MA/CON, para no. 1.1.2	M	34.47	100.00	3447.00
37	Supplying and laying PVC trunking (PVC casing-n-capping) of size 25 mm. with accessories on wall/ceiling as per specification No: WG-MA/CON, para no. 1.1.2	M	37.60	500.00	18800.00
38	Supplying and laying PVC trunking (PVC casing-n-capping) of size 40 mm. with accessories on wall/ceiling as per specification No: WG-MA/BOX, para no. 1.1.2	M	66.85	100.00	6685.00
39	Supplying and erecting PVC box trunking of size 50x16/20 mm. with accessories on wall/ceiling as per specification No: WG-MA/BOX, para no. 1.1.2	M	92.96	20.00	1859.20
40	Supplying and laying PVC trunking (PVC casing-n-capping) of size 50x50mm. with	M	151.45	300.00	45435.00

	accessories on wall/ceiling as per specification No: WG-MA/BOX, para no. 1.1.2				
41	Supplying and laying PVC trunking (PVC casing-n-capping) of size 75x50mm. with accessories on wall/ceiling as per specification No: WG-MA/BOX, para no. 1.1.2	M	320.66	50.00	16033.00
42	Supplying and laying PVC trunking (PVC casing-n-capping) of size 75x75mm. with accessories on wall/ceiling as per specification No: WG-MA/BOX, para no. 1.1.2	M	413.61	20.00	8272.20
43	Supplying and laying PVC trunking (PVC casing-n-capping) of size 100x50mm. with accessories on wall/ceiling as per specification No: WG-MA/BOX, para no. 1.1.2	M	504.48	20.00	10089.60
44	Supplying and laying PVC slotted box trunking of size 100x100 mm.with accessories on wall/ceiling as per specification No: WG-MA/SLBOX, para no. 1.1.2	M	418.83	20.00	8376.60
45	Supplying & erecting GI flexible Conduit 25 mm dia. conforming to I.S. and approved make with required number of couplings, bushes, check nuts etc. complete	M	37.60	20.00	752.00
46	Supplying & erecting GI flexible Conduit 40 mm dia. conforming to I.S. and approved make with required number of couplings, bushes, check nuts etc. complete	M	56.41	20.00	1128.20
47	Supplying & erecting GI flexible Conduit 50 mm dia.conforming to I.S. and approved make with required number of couplings, bushes, check nuts etc. complete	M	76.25	20.00	1525.00
48	Supplying and erecting PVC ROHS complied Non flame propagting under floor ducts/raceways of 60mm Width x 25 mm depth including the connectors and the clamps at required intervals complete. The ducts shall be in trapezoidal shape tested for 750 N point load suitable for inscreed application. as per specification no. WG-MA/UFD Note:- 1. Add Rs 3/- per meter for erecting conduit on stone wall 2.ROHS:- Restriction of hazardous substance.	M	294.55	50.00	14727.50
49	Supplying and erecting PVC ROHS complied Non flame propagting under floor ducts/raceways of 90mm Width x 35 mm depth including the connectors and the clamps at required intervals. The ducts shall be in trapezoidal shape tested for 750 N point load suitable for inscreed application as per specification no. WG-MA/UFD. Note:- 1. Add Rs 3/- per meter for erecting conduit on stone wall 2.ROHS:- Restriction of hazardous substance.	M	394.81	50.00	19740.50
50	Supplying and erecting underfloor junction box of size 150mm x 150mm x 55 mm with flush finish powder coated appearance having knock outs for UPVC duct entry of size 60x25 mm width and 95x35 mm ducts complete as per specification no. WGMA/ UFB	AU	4260.44	20.00	85208.80

51	Supplying and erecting of underfloor junction box of size 200mm x 200mm x 55 mm.with flush finish powder coated appearance having knock outs for UPVC duct entry of size 60x25 mm and 95x35 mm ducts complete as per specification no. WG-MA/UFB .	AU	6684.67	20.00	133693.40
52	Supplying and erecting underfloor junction box of size 300mm x300mm x55 mm. with flush finish powder coated appearance having knock outs for UPVC duct entry of size 60x25 mm and 95x35 mm ducts complete as per specification no. WG-MA/UFB .	AU	8592.94	20.00	171858.80
53	Supplying and erecting of size 350mm x 350mm x 50mm Junction Box 1.6mm Thk With SS Plate	AU	2062.10	50.00	103105.00
54	Supplying and erecting of size 250mm x 250mm x 50mm Junction Box 1.6 mm Thk With SS Plate	AU	2098.58	50.00	104929.00
55	Supplying and erecting of size 150mm x 150mm x 50mm Junction Box 1.6 mm Thk With SS Plate	AU	1549.62	50.00	77481.00
Bunch of Wires (WG-MA/BW)					
56	Supplying & erecting mains with 2x1.5 sq.mm F.R solid copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WG-MA/BW Note:- 1) Double the rate of two wire bunch for calculating rate of four wire bunch up to 10 sq mm 2) Continuous running earth wire should be provided of min. 1.5 sq. mm. up to phase wire of 2.5 sq. mm. And further earth wire of half of the size of phase wire is to be used only for light & power load. 3) Rates for the earth wire shall be calculated as one half rate of mains of bunch of two wire and earth wire should be with green colour PVC. 4) For all types of wiring stranded copper wires shall be invariably used.	M	37.60	1750.00	65800.00
57	Supplying & erecting mains with 2x1.5 sq.mm F.R.L.S solid copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WG-MA/BW Note:- 1) Double the rate of two wire bunch for calculating rate of four wire bunch up to 10 sq mm 2) Continuous running earth wire should be provided of min. 1.5 sq. mm. up to phase wire of 2.5 sq. mm. And further earth wire of half of the size of phase wire is to be used only for light & power load. 3) Rates for the earth wire shall be calculated as one half rate of mains of bunch of two wire and earth wire should be with green colour	M	38.65	1750.00	67637.50

	PVC. 4) For all types of wiring stranded copper wires shall be invariably used.				
58	Supplying & erecting mains with 2x2.5 sq.mm F.R stranded/solid copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW Note:- 1) Double the rate of two wire bunch for calculating rate of four wire bunch up to 10 sq mm 2) Continuous running earth wire should be provided of min. 1.5 sq. mm. up to phase wire of 2.5 sq. mm. And further earth wire of half of the size of phase wire is to be used only for light & power load . 3) Rates for the earth wire shall be calculated as one half rate of mains of bunch of two wire and earth wire should be with green colour PVC. 4) For all types of wiring stranded copper wires shall be invariably used.	M	54.32	6000.00	325920.00
59	Supplying & erecting mains with 2x2.5 sq.mm F.R.L.S stranded/solid copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW Note:- 1) Double the rate of two wire bunch for calculating rate of four wire bunch up to 10 sq mm 2) Continuous running earth wire should be provided of min. 1.5 sq. mm. up to phase wire of 2.5 sq. mm. And further earth wire of half of the size of phase wire is to be used only for light & power load . 3) Rates for the earth wire shall be calculated as one half rate of mains of bunch of two wire and earth wire should be with green colour PVC. 4) For all types of wiring stranded copper wires shall be invariably used.	M	56.41	500.00	28205.00
60	Supplying & erecting mains with 2x 4 sq.mm F.R.L.S stranded/solid copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW Note:- 1) Double the rate of two wire bunch for calculating rate of four wire bunch up to 10 sq mm 2) Continuous running earth wire should be provided of min. 1.5 sq. mm. up to phase wire of 2.5 sq. mm. And further earth wire of half of the size of phase wire is to be used only for light & power load . 3) Rates for the earth wire shall be calculated as one half rate of mains of bunch of two wire	M	80.43	1000.00	80430.00

	and earth wire should be with green colour PVC. 4) For all types of wiring stranded copper wires shall be invariably used.				
61	Supplying & erecting mains with 2x 4 sq.mm F.R. stranded/solid copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW Note:- 1) Double the rate of two wire bunch for calculating rate of four wire bunch up to 10 sq mm 2) Continuous running earth wire should be provided of min. 1.5 sq. mm. up to phase wire of 2.5 sq. mm. And further earth wire of half of the size of phase wire is to be used only for light & power load. 3) Rates for the earth wire shall be calculated as one half rate of mains of bunch of two wire and earth wire should be with green colour PVC. 4) For all types of wiring stranded copper wires shall be invariably used.	M	77.30	1000.00	77300.00
62	Supplying & erecting mains with 2x4 sq.mm F.R.L.S copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG MA/BW Note:- 1) Double the rate of two wire bunch for calculating rate of four wire bunch up to 10 sq mm 2) Continuous running earth wire should be provided of min. 1.5 sq. mm. up to phase wire of 2.5 sq. mm. And further earth wire of half of the size of phase wire is to be used only for light & power load. 3) Rates for the earth wire shall be calculated as one half rate of mains of bunch of two wire and earth wire should be with green colour PVC. 4) For all types of wiring stranded copper wires shall be invariably used.	M	80.43	500.00	40215.00
63	Supplying & erecting mains with 3x2.5 Sq.mm F.R.L.S. stranded/solid copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WG-MA/BW Note:- 1) Double the rate of two wire bunch for calculating rate of four wire bunch up to 10 sq mm 2) Continuous running earth wire should be provided of min. 1.5 sq. mm. up to phase wire of 2.5 sq. mm. And further earth wire of half of the size of phase wire is to be used only for light & power load. 3) Rates for the earth wire shall be calculated as one half rate of mains of bunch of two wire	M	81.47	500.00	40735.00

	and earth wire should be with green colour PVC. 4) For all types of wiring stranded copper wires shall be invariably used.				
64	Supplying & erecting mains with 3x2.5 Sq.mm F.R stranded/solid copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WG-MA/BW Note:- 1) Double the rate of two wire bunch for calculating rate of four wire bunch up to 10 sq mm 2) Continuous running earth wire should be provided of min. 1.5 sq. mm. up to phase wire of 2.5 sq. mm. And further earth wire of half of the size of phase wire is to be used only for light & power load. 3) Rates for the earth wire shall be calculated as one half rate of mains of bunch of two wire and earth wire should be with green colour PVC. 4) For all types of wiring stranded copper wires shall be invariably used.	M	79.38	500.00	39690.00
65	Supplying & erecting mains with 3x4 Sq.mm F.R stranded/solid copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WG-MA/BW Note:- 1) Double the rate of two wire bunch for calculating rate of four wire bunch up to 10 sq mm 2) Continuous running earth wire should be provided of min. 1.5 sq. mm. up to phase wire of 2.5 sq. mm. And further earth wire of half of the size of phase wire is to be used only for light & power load. 3) Rates for the earth wire shall be calculated as one half rate of mains of bunch of two wire and earth wire should be with green colour PVC. 4) For all types of wiring stranded copper wires shall be invariably used.	M	112.80	300.00	33840.00
Mains in Metal Conduit (WG-MA/MC)					
66	Supplying & erecting mains with 2x1.5 sq.mm. F.R. copper wire, in 16gauge 20 mm dia. Rigid Steel conduit with continuous GI earth wire of 2.5 sq.mm. as per specification No: WG-MA/MC, para no. 1.4.3	M	170.25	50.00	8512.50
67	Supplying & erecting mains with 2x1.5 sq.mm. F.R.LS copper wire, in 16gauge 20 mm dia. Rigid Steel conduit with continuous GI earth wire of 2.5 sq.mm. as per specification No: WG-MA/MC, para no. 1.4.3	M	171.30	50.00	8565.00
68	Supplying & erecting mains with 2x2.5 sq.mm. F.R. copper wire, in 16gauge 20 mm dia. Rigid Steel conduit, with continuous GI earth wire of 2.5sq.mm. as per specification	M	184.88	50.00	9244.00

	No: WG-MA/MC, para no. 1.4.3				
69	Supplying & erecting mains with 2x2.5 sq.mm. F.R.L.S copper wire, in 16gauge 20 mm dia. Rigid Steel conduit, with continuous GI earth wire of 2.5sq.mm. as per specification No: WG-MA/MC, para no. 1.4.3	M	188.01	50.00	9400.50
Mains in PVC Conduit (WG-MA/PC)					
70	Supplying & erecting mains 2x1.5 sq.mm.and earth wire 1.5 sqmm F R PVC copper wire, in rigid PVC conduit min.20mm dia, as per specification No: WG-MA/PC, para no. 1.4.1	M	110.71	1000.00	110710.00
71	Supplying & erecting mains with 2x1.5 sq.mm.and earth wire 1.5 sqmm FRLS PVC copper wire, in rigid PVC conduit min.20mm dia as per specification No: WG-MA/PC, para no. 1.4.1	M	112.80	500.00	56400.00
72	Supplying & erecting mains with 2x2.5 sq.mm.and earth wire 1.5 sqmm FR PVC copper wire, in rigid PVC conduit min.20mm dia, as per specification No: WG-MA/PC, para no. 1.4.1	M	128.47	300.00	38541.00
73	Supplying & erecting mains with 2x2.5 sq.mm.and earth wire 1.5 sqmm FRLS PVC copper wire in rigid PVC conduitmin.20mm dia. as per specification No: WG-MA/PC, para no. 1.4.1	M	134.74	500.00	67370.00
74	Supplying & erecting mains with 2x4 sq.mm.and earth wire 2.5 sqmm FR PVC copper wire in rigid PVC conduit min.20mm dia,as per specification No: WG-MA/PC, para no. 1.4.1	M	159.80	500.00	79900.00
75	Supplying & erecting mains with 2x4 sq.mm.and earth wire 2.5 sq mm FRLS PVC copper wire in rigid PVC conduit min.20mm dia, as per specification No: WGMA/ PC, para no. 1.4.1	M	163.99	500.00	81995.00
76	Supplying & erecting mains with 3x4 sq.mm.and earth wire 2.5 sq mm FRLS PVC copper wire in rigid PVC conduit min.20mm dia, as per specification No: WGMA/ PC, para no. 1.4.1	M	200.54	200.00	40108.00
77	Supplying & erecting mains with 4x4 sq.mm.and earth wire 2.5 sq mm FR PVC copper wire in rigid PVC conduit min.25mm dia, as per specification No: WGMA/ PC, para no. 1.4.1	M	254.86	200.00	50972.00
78	Supplying & erecting mains with 4x4 sq.mm.and earth wire 2.5 sq mm FRLS PVC copper wire in rigid PVC conduit min.25mm dia, as per specification No: WGMA/ PC, para no. 1.4.1	M	263.21	200.00	52642.00
Wiring Accessories					
79	Supplying and erecting ISI mark Ceiling rose / Batten holder / Slanting holder / hanging cord switch / hanging bell push / pendent holder bakelite base 6A. erected on Filled polypropylene ISI marked (IS:14772-2000) board or polisheddouble wooden block/ ISI mark PVC junction box. Note:- Reduce rate by Rs.5/-for erecting	AU	32.37	500.00	16185.00

	accessories on provided board / junction box.				
80	Supplying adaptor for lamp holder 230 V.A.C. supply.	AU	25.07	50.00	1253.50
81	Supplying and erecting ISI mark recess type 3 pin plug socket 6A with piano switch 6A erected on M.S Box made of 16 SWG sheet duly painted and covered with bakelite hylam sheet of 3 mm thickness connected with earth terminals and leads duly concealed. Note:Reduce rate by Rs. 5/- for erecting accessories on provide board/junction box.	AU	94.00	50.00	4700.00
82	Supplying and erecting ISI marked recess type 3 pin plug socket 6A with piano switch 6 A combined unit erected on polished double wooden block/ folded or screwed board with top of either wooden or plywood pasted with sunmica and with connecting leads Note:Reduce rate by Rs. 5/- for erecting accessories on provide board/junction box.	AU	84.60	50.00	4230.00
83	Supplying and erecting ISI mark flush shock proof plug socket 6pin 6Amp and 16A with switch 16A combined unit, erected on recess in 16 gaug M.S. sheet box duly painted and connected with earth terminal and ends. Note:Reduce rate by Rs. 5/- for erecting accessories on provide board/junction box.	AU	141.00	50.00	7050.00
84	Supplying and erecting ISI mark flush shock proof plug socket 6pin 6Amp and 16A switch with 16A combined unit, erected on Filled polypropylene ISI marked (IS: 14772-2000) board or double wooden block /3mm thick hylam sheet / 4mm thick plywood pasted with 1.5 mm thick sunmica with S M screw and duly connected. Note:Reduce rate by Rs. 5/- for erecting accessories on provide board/junction box.	AU	131.60	50.00	6580.00
85	Supplying and erecting flush type shock proof plug socket 6 Amp and 16A (6Pin) with 16A switch combined with indicator lamp and fuse with gang box on wooden board. Note:Reduce rate by Rs. 5/- for erecting accessories on provide board/junction box.	AU	203.67	50.00	10183.50
86	Supplying and erecting ISI marked recess type 3 pin plug socket 6A with piano switch 6A combined unit erected on M.S box made of 16 gauge sheet and covered with sunmica and with connecting leads	AU	112.80	50.00	5640.00
Modular switches and Accessories					
87	Supplying and erecting modular type switch 6A / 10A ISI mark approved make duly erected on provided plate and box with wiring connections complete.	AU	89.82	1000.00	89820.00
88	Supplying and erecting modular type switch 16A ISI mark approved make duly erected on provided plate and box with wiring connections complete.	AU	127.43	500.00	63715.00
89	Supplying and erecting modular type bell-push 6A / 10A ISI mark approved make duly erected on provided plate and box with wiring connections complete.	AU	113.85	50.00	5692.50
90	Supplying and erecting modular type Two way	AU	101.32	500.00	50660.00

	switch 6A / 10A (2 Module) ISI mark, approved make, duly erected on provided plate and box with wiring connections complete.				
91	Supplying and erecting modular type switch 16 / 20 A with indicator, ISI mark, approved make duly erected on provided plate and box with wiring connections complete.	AU	149.36	200.00	29872.00
92	Supplying and erecting modular type D.P. switch 32A with indicator ISI mark approved make duly erected on provided plate and box with wiring connections complete.	AU	195.32	100.00	19532.00
93	Supplying and erecting modular type 3 pin 6A multi socket with safety shutter ISI mark approved make duly erected on provided plate and box with wiring connections complete.	AU	104.45	1000.00	104450.00
94	Supplying and erecting modular type 3 pin 6 / 16A multi socket with safety shutter ISI mark approved make duly erected on provided plate and box with wiring connections complete.	AU	163.99	500.00	81995.00
95	Supplying and erecting modular type T.V. socket single outlet ISI mark approved make duly erected on provided plate and box with wiring connections complete.	AU	84.60	20.00	1692.00
96	Supplying and erecting modular type telephone socket one gang with safety shutter ISI mark approved make duly erected on provided plate and box with wiring connections complete.	AU	84.60	500.00	42300.00
97	Supplying and erecting modular type computer Jack RJ 45 with safety shutter ISI mark approved make duly erected on provided plate and box with wiring connections complete.	AU	139.96	1000.00	139960.00
98	Supplying and erecting modular type bell indicator ISI mark approved make duly erected on provided plate and box with wiring connections complete.	AU	159.80	100.00	15980.00
99	Supplying and erecting modular type buzzer 230 / 250V ISI mark approved make duly erected on provided plate and box with wiring connections complete.	AU	115.93	100.00	11593.00
100	Supplying and erecting modular type blanking plate one module ISI mark approved make duly erected on provided plate & box.	AU	24.02	500.00	12010.00
101	Supplying and erecting modular type blanking plate two module ISI mark approved make duly erected on provided plate & box.	AU	33.43	100.00	3343.00
102	Supplying and erecting PVC Surface modular switch box with double mounting plate for 1 module complete duly erected in an approved manner.	AU	130.56	100.00	13056.00
103	Supplying and erecting PVC Surface modular switch box with double mounting plate for 2 module duly erected in an approved manner.	AU	130.56	100.00	13056.00
104	Supplying and erecting PVC Surface modular switch box with double mounting plate for 3 module duly erected in an approved manner.	AU	153.54	500.00	76770.00
105	Supplying and erecting PVC Surface modular switch box with double mounting plate for 4 module duly erected in an approved manner.	AU	179.65	300.00	53895.00
106	Supplying and erecting PVC Surface modular	AU	244.41	500.00	122205.00

	switch box with double mounting plate for 6 module duly erected in an approved manner.				
107	Supplying and erecting PVC Surface modular switch box with double mounting & front plate for 8 module complete duly connected.	AU	307.08	200.00	61416.00
108	Supplying and erecting PVC Surface modular switch box with double mounting plate for 12 module duly erected in an approved manner.	AU	393.77	300.00	118131.00
109	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 1 module duly erected flush to wall with required chiseling and finishing with cement mortar / POP as per required to match the background in an approved manner.	AU	202.63	100.00	20263.00
110	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 2 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background in an approved manner.	AU	202.63	100.00	20263.00
111	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 3 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background in an approved manner.	AU	235.01	200.00	47002.00
112	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 4 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background in an approved manner.	AU	266.34	200.00	53268.00
113	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 6 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background in an approved manner.	AU	361.39	300.00	108417.00
114	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 8 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background in an approved manner.	AU	430.33	200.00	86066.00
115	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 12 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background in an approved manner.	AU	485.68	300.00	145704.00
116	Supplying and erecting 16 / 20 / 25 A starter (modular range) 2 module for AC unit on provided box complete & duly concealed with	AU	345.72	10.00	3457.20

	necessary material and connected.				
117	Supplying and erecting 6 to 32 A SPMCB suitable to fix in 1 module of modular switch in provided box complete & duly concealed with necessary material and connected.	AU	179.65	100.00	17965.00
118	Supplying and erecting 16 to 32 A DPMCB suitable to fix in 2 module of modular switch in provided box complete & duly concealed with necessary material and connected.	AU	226.65	100.00	22665.00
Telephone Wiring(WG-TW/TW)					
119	Supplying & erecting telephone cable 2 pair with 0.5 mm dia. laid in provided PVC casing / conduit as per specification No. WG-TW	M	19.85	2000.00	39700.00
120	Supplying & erecting telephone cable 3 pair with 0.5 mm dia. laid in provided PVC casing / conduit as per specification No. WG-TW	M	26.11	25.00	652.75
121	Supplying & erecting telephone cable 4 pair with 0.5 mm dia. laid in provided PVC casing / conduit as per specification No. WG-TW	M	31.33	25.00	783.25
122	Supplying & erecting telephone cable 5 pair with 0.5 mm dia. laid in provided PVC casing / conduit as per specification No. WG-TW	M	38.65	25.00	966.25
123	Supplying & erecting telephone cable 10 pair with 0.5 mm dia. laid in provided PVC casing / conduit as per specification No. WG-TW	M	61.63	500.00	30815.00
124	Supplying & erecting telephone cable 20 pair with 0.5 mm dia. laid in provided PVC casing / conduit as per specification No. WG-TW	M	108.63	50.00	5431.50
125	Supplying & erecting telephone cable 50 pair with 0.5 mm dia. laid in provided PVC casing / conduit as per specification No. WG-TW	M	283.05	20.00	5661.00
126	Supplying & erecting Jelly filled unarmoured telephone cable 10 pair with 0.5 mm dia. laid in provided trench as per specification No. WG-TW	M	85.65	20.00	1713.00
127	Supplying & erecting Jelly filled unarmoured telephone cable 20 pair with 0.5 mm dia. laid in provided trench as per specification No. WG-TW	M	145.19	20.00	2903.80
128	Supplying & erecting Jelly filled armoured telephone cable 10 pair with 0.5 mm dia. laid in provided trench as per specification No. WG-TW	M	123.25	20.00	2465.00
129	Supplying & erecting Jelly filled armoured telephone cable 20 pair with 0.5 mm dia. laid in provided trench as per specification No. WG-TW	M	169.21	20.00	3384.20
130	Supplying & erecting Jelly filled armoured telephone cable 50 pair with 0.5 mm dia. laid in provided trench as per specification No. WG-TW	M	360.35	20.00	7207.00
131	Supplying & erecting Jumper wire with 0.5 mm dia as per specification No. WG-TW	M	15.67	20.00	313.40
132	Supplying & installing Co-axial cable low voltage grade RG-11 as per specification No. WG-TW	M	59.54	20.00	1190.80
Telephone Accessories (WG-TW/TA)					
133	Supplying, erecting & commissioning Main	AU	1939.60	20.00	38792.00

	Distribution Frame (MDF) Box 50x50 pairs as per specification no. WG-TW.				
134	Supplying, erecting & commissioning Main Distribution Frame (MDF) Box 60x60 pairs as per specification no. WG-TW.	AU	2084.78	20.00	41695.60
135	Supplying, erecting & commissioning Main Distribution Frame (MDF) Box 100x100 pairs as per specification no. WG-TW.	AU	3167.91	20.00	63358.20
136	Supplying, erecting & commissioning Main Distribution Frame (MDF) Box 150x150 pairs as per specification no. WG-TW.	AU	4458.89	20.00	89177.80
137	Supplying, erecting & commissioning Junction Box suitable for 10 pairs as per specification no. WG-TW.	AU	602.67	20.00	12053.40
138	Supplying, erecting & commissioning Junction Box suitable for 20 pairs as per specification no. WG-TW.	AU	724.87	20.00	14497.40
139	Supplying, erecting & commissioning Junction Box suitable for 30 pairs as per specification no. WG-TW.	AU	978.68	20.00	19573.60
140	Supplying, erecting & commissioning Junction Box suitable for 50 pairs as per specification no. WG-TW.	AU	1304.56	20.00	26091.20
141	Supplying, erecting & commissioning Junction Box suitable for 100 pairs as per specification no. WG-TW.	AU	2009.58	20.00	40191.60
142	Supplying, erecting & commissioning Junction Box suitable for 150 pairs as per specification no. WG-TW.	AU	2511.97	20.00	50239.40
143	Supplying, erecting & commissioning Krone module of 10 pairs as per specification No. WG-TW	AU	479.42	20.00	9588.40
144	Supplying & erecting Over Voltage protection Magazine suitable for 10 pair as per specification No. WG-TW	AU	325.88	20.00	6517.60
145	Supplying & erecting Rosette box RJ-11 type Bakelite box on wall with LED indication duly connected as per specification No. WG-TW	AU	102.36	20.00	2047.20
Computer Cabling (WG-COC)					
146	Supplying & installing UTP networking Cat-6 cable suitable for LAN / WAN Computer networking as per specification No. WG-COC/NC	M	44.91	1000.00	44910.00
147	Supplying and fixing Cat-6 LSZH cable suitable for LAN / WAN as per specification in approved manner	M	55.36	20.00	1107.20
148	Supplying & installing UTP networking Cat-6+ cable suitable for LAN / WAN Computer networking as per specification no. WG-COC/NC	M	83.56	20.00	1671.20
149	Supplying and fixing 1 meter length, UTP Patch cord of Cat 6 type in position as per specification No. WG-COC/PC	AU	289.32	500.00	144660.00
150	Supplying and fixing 3 meter length, UTP Patch cord of Cat 6 type in position as per specification No. WG-COC/PC	AU	351.99	100.00	35199.00
151	Supplying and erecting FR grade, PVC armoured multimode armoured multimode Optical Fibre Cable with 6 fibres, with core dia 50/125 µm (OM3) suitable for 1 GBps ethernet distance at 850 nm of wavelength, on wall/ceiling or laid in provided pipe/trench as per specification No. WG-COC/OFC LSZH	M	251.72	25.00	6293.00

152	Supplying and erecting LSZH armoured multimode Optical Fibre Cable with 12 fibres, with core dia 50/125 µm (OM3), suitable for 1 GBps ethernet distance at 850 nm of wavelength, on wall/ceiling or laid in provided pipe/trench as per specification No. WG-COC/OFC	M	335.27	20.00	6705.40
153	Supplying and erecting LSZH armoured multimode Optical Fibre Cable with 24 fibres, with core dia 50/125 µm (OM3), suitable for 1 GBps ethernet distance at 850 nm of wavelength, on wall/ceiling or laid in provided pipe/trench as per specification No. WG-COC/OFC	M	517.02	20.00	10340.40
154	Supplying and erecting LSZH armoured multimode Optical Fibre Cable with 6 fibres, with core dia 50/125 µm (OM4) suitable for 1 GBps ethernet distance at 850 nm of wavelength, on wall/ceiling or laid in provided pipe/trench as per specification No. WG-COC/OFC	M	1124.91	20.00	22498.20
155	Supplying and erecting LSZH armoured multimode Optical Fibre Cable with 12 fibres, with core dia 50/125 µm (OM4) suitable for 1 GBps ethernet distance at 850 nm of wavelength, on wall/ceiling or laid in provided pipe/trench as per specification No. WG-COC/OFC	M	1885.29	20.00	37705.80
Networking Components (WG- NWC)					
156	Supplying, fixing, and configuring Web Smart Power over Ethernet Switch of 24 Ports on provided rack or as directed as per specification No. WG-NWC/ENS	AU	46276.73	10.00	462767.30
157	Supplying, fixing, and configuring Managed L2 Power over Ethernet Switch of 20 Ports + 4G Combo Port as per specification in approved manner	AU	129781.86	10.00	1297818.60
158	Supply installation and testing of 24 port Jack Panel fully loaded with 24 nos tool less keystone Jack.	AU	9761.80	20.00	195236.00
159	Supply, Fixing, installation and configuration Gigabit Managed Ethernet Switch of 24 ports and 4 SFP combo slots on provided Rack	AU	174278.86	10.00	1742788.60
Networking Accessories (WG-NAS)					
160	Supplying, installing & testing UTP Connector (RJ-45) as per specification No. WG-NAS/UTPC.	AU	85.65	1000.00	85650.00
161	Supplying and fixing Tool-less Information Outlet (Ethernet) flush/surface type in position as per specification no. WG-NAS/IO	AU	496.13	1000.00	496130.00
162	Supplying and fixing Tool-less Keystone Jack (RJ-45) in provided Patch Panel complete as per specification no. WG-NAS/KJ	AU	85.65	1000.00	85650.00
163	Supplying and fixing 24 port Patch Panel with tool-less keystone jacks in provided U Rack complete as per specification no. WG-NAS/PP	AU	10743.52	20.00	214870.40
164	Supplying and fixing Rack mounted type 12 Ports, Light guide unloaded Interconnect Unit with adapter Panel for termination of Optical fibre cables on wall/ provided U Rack complete as per specification no. WG-NAS/	AU	4466.19	20.00	89323.80

	LIU				
165	Supplying and fixing Wall Mount 12 Ports, Light guide unloaded Interconnect Unit with adapter Panel as per specification in approved manner	AU	4361.74	20.00	87234.80
166	Supplying and fixing 6U Wall Mount Rack (Dimension-DxWXH - 450X550X367 mm) as per specification in approved manner	AU	6426.68	20.00	128533.60
167	Supplying and fixing 9U Wall Mount Rack (Dimension-DxWXH - 450X550X500 mm) as per specification in approved manner	AU	8996.10	10.00	89961.00
168	Supplying and fixing 12U Wall Mount Rack (Dimension-DxWXH - 450X550X635 mm) as per specification in approved manner	AU	9844.22	10.00	98442.20
	SECTION II: ELECTRICAL FITTINGS				
	Lamps and Tubes for Indoor & Outdoor (FG-LP)				
169	Supplying and erecting T8 Fluorescent tube triphosper / Turband phosper 36 W.	AU	148.32	200.00	29664.00
170	Supplying and erecting T5 14 W energy efficient flurosent tube.	AU	141.00	50.00	7050.00
171	Supplying and erecting T5 24 W Energy Efficient fluorosent tube.	AU	152.49	50.00	7624.50
172	Supplying & erecting T5 28W Energy efficient fluorescent tube.	AU	144.14	500.00	72070.00
173	Supplying and erecting Compact flou lamp 5 to 10 W 230V to be used with provided ballast.	AU	107.58	20.00	2151.60
174	Supplying and erecting Compact flou lamp 11 to 13 W 230V to be used with provided ballast.	AU	147.27	20.00	2945.40
175	Compact flou lamp 18 W 230V to be used with provided ballast.	AU	153.54	20.00	3070.80
176	Supplying and erecting Compact flou lamp 36 W 230V to be used with provided ballast.	AU	198.45	20.00	3969.00
177	Supplying and erecting CFL 5 to 8 W with ceramic adopter p.f. more than 0.9	AU	147.27	20.00	2945.40
178	Supplying and erecting CFL 9 to 11 W complete with ceramic adopter p.f.more than 0.9	AU	152.49	20.00	3049.80
179	Supplying and erecting CFL 18 to 20 W with ceramic adopter p.f. more than 0.9	AU	214.12	20.00	4282.40
180	Supplying and erecting CFL 27 to 36 W with ceramic adopter p.f. more than 0.9	AU	360.35	20.00	7207.00
181	Supplying & erecting M V lamp 3 pin BC / Screwed cap head / pin type 230 V, 80 W.Note:1) On Govt installation ,energy efficient lamps (CFL, T-5, T-8 (tri-band phosphor)) shall be preferably used.2) Use of GLS lamps shall be avoided and also to be intimated to other departments.3) On Govt. installation use of Electronic chokes/energy saver accessories, are mandatory and as such conventional chokes shall not be used.4) Lamps & tubes shall be used invariably of three star and above ratings as per BEE circular.	AU	204.71	20.00	4094.20
182	Supplying & erecting MV lamp 3 pin BC / Screwed cap head / pin type 230 V, 125 W. Note:1) On Govt installation ,energy efficient lamps (CFL, T-5, T-8 (tri-band phosphor))	AU	209.94	20.00	4198.80

	<p>shall be preferably used.</p> <p>2) Use of GLS lamps shall be avoided and also to be intimated to other departments.</p> <p>3) On Govt. installation use of Electronic chokes/energy saver accessories, are mandatory and as such conventional chokes shall not be used.</p> <p>4) Lamps & tubes shall be used invariably of three star and above ratings as per BEE circular.</p>				
183	<p>Supplying & erecting MV lamp 3 pin BC / Screwed cap head / pin type 230 V, 250 W.</p> <p>Note:1) On Govt installation ,energy efficient lamps (CFL, T-5, T-8 (tri-band phosphor)) shall be preferably used.</p> <p>2) Use of GLS lamps shall be avoided and also to be intimated to other departments.</p> <p>3) On Govt. installation use of Electronic chokes/energy saver accessories, are mandatory and as such conventional chokes shall not be used.</p> <p>4) Lamps & tubes shall be used invariably of three star and above ratings as per BEE circular.</p>	AU	400.03	20.00	8000.60
184	<p>Supplying & erecting MV lamp 3 pin BC / Screwed cap head / pin type 230 V, 400 W.</p> <p>Note:1) On Govt installation ,energy efficient lamps (CFL, T-5, T-8 (tri-band phosphor)) shall be preferably used.</p> <p>2) Use of GLS lamps shall be avoided and also to be intimated to other departments.</p> <p>3) On Govt. installation use of Electronic chokes/energy saver accessories, are mandatory and as such conventional chokes shall not be used.</p> <p>4) Lamps & tubes shall be used invariably of three star and above ratings as per BEE circular.</p>	AU	523.28	20.00	10465.60
185	<p>Supplying & erecting H.P.S.V.lamp 3 pin B.C./screwed cap head type 230 V, 150W [SON type]</p> <p>Note:1) On Govt installation ,energy efficient lamps (CFL, T-5, T-8 (tri-band phosphor)) shall be preferably used.</p> <p>2) Use of GLS lamps shall be avoided and also to be intimated to other departments.</p> <p>3) On Govt. installation use of Electronic chokes/energy saver accessories, are mandatory and as such conventional chokes shall not be used.</p> <p>4) Lamps & tubes shall be used invariably of three star and above ratings as per BEE circular.</p>	AU	621.47	20.00	12429.40
186	<p>Supplying & erecting H.P.S.V.lamp 3 pin B.C./screwed cap head type 230 V, 250W [SON type]</p>	AU	688.32	20.00	13766.40

	<p>Note:1) On Govt installation ,energy efficient lamps (CFL, T-5, T-8 (tri-band phosphor)) shall be preferably used.</p> <p>2) Use of GLS lamps shall be avoided and also to be intimated to other departments.</p> <p>3) On Govt. installation use of Electronic chokes/energy saver accessories, are mandatory and as such conventional chokes shall not be used.</p> <p>4) Lamps & tubes shall be used invariably of three star and above ratings as per BEE circular.</p>				
187	<p>Supplying & erecting Metal Halide lamp,double ended, 230V,70W.</p> <p>Note:1) On Govt installation ,energy efficient lamps (CFL, T-5, T-8 (tri-band phosphor)) shall be preferably used.</p> <p>2) Use of GLS lamps shall be avoided and also to be intimated to other departments.</p> <p>3) On Govt. installation use of Electronic chokes/energy saver accessories, are mandatory and as such conventional chokes shall not be used.</p> <p>4) Lamps & tubes shall be used invariably of three star and above ratings as per BEE circular.</p>	AU	707.12	20.00	14142.40
188	<p>Supplying & erecting Metal Halide lamp, double ended, 230V, 150 W.Note:1) On Govt installation ,energy efficient lamps (CFL, T-5, T-8 (tri-band phosphor)) shall be preferably used.2) Use of GLS lamps shall be avoided and also to be intimated to other departments.3) On Govt. installation use of Electronic chokes/energy saver accessories, are mandatory and as such conventional chokes shall not be used.4) Lamps & tubes shall be used invariably of three star and above ratings as per BEE circular.</p>	AU	767.69	20.00	15353.80
189	<p>Supplying & erecting Metal Halide lamp,230V, 250 W double ended.</p> <p>Note:1) On Govt installation ,energy efficient lamps (CFL, T-5, T-8 (tri-band phosphor)) shall be preferably used.</p> <p>2) Use of GLS lamps shall be avoided and also to be intimated to other departments.</p> <p>3) On Govt. installation use of Electronic chokes/energy saver accessories, are mandatory and as such conventional chokes shall not be used.</p> <p>4) Lamps & tubes shall be used invariably of three star and above ratings as per BEE circular.</p>	AU	1135.35	20.00	22707.00
190	<p>Supplying & erecting Metal Halide lamp,230V, 400 W double ended.</p>	AU	1196.97	20.00	23939.40

	<p>Note:1) On Govt installation ,energy efficient lamps (CFL, T-5, T-8 (tri-band phosphor)) shall be preferably used.</p> <p>2) Use of GLS lamps shall be avoided and also to be intimated to other departments.</p> <p>3) On Govt. installation use of Electronic chokes/energy saver accessories, are mandatory and as such conventional chokes shall not be used.</p> <p>4) Lamps & tubes shall be used invariably of three star and above ratings as per BEE circular.</p>				
191	<p>Supplying & erecting Halogen lamp 230 V. 500 W</p> <p>Note:1) On Govt installation ,energy efficient lamps (CFL, T-5, T-8 (tri-band phosphor)) shall be preferably used.</p> <p>2) Use of GLS lamps shall be avoided and also to be intimated to other departments.</p> <p>3) On Govt. installation use of Electronic chokes/energy saver accessories, are mandatory and as such conventional chokes shall not be used.</p> <p>4) Lamps & tubes shall be used invariably of three star and above ratings as per BEE circular.</p>	AU	95.04	20.00	1900.80
192	<p>Supplying & erecting Halogen lamp 230 V. 1000 W</p> <p>Note:1) On Govt installation ,energy efficient lamps (CFL, T-5, T-8 (tri-band phosphor)) shall be preferably used.</p> <p>2) Use of GLS lamps shall be avoided and also to be intimated to other departments.</p> <p>3) On Govt. installation use of Electronic chokes/energy saver accessories, are mandatory and as such conventional chokes shall not be used.</p> <p>4) Lamps & tubes shall be used invariably of three star and above ratings as per BEE circular.</p>	AU	120.12	20.00	2402.40
	Accessories for Indoor Fittings (FG-AS)				
193	<p>Supplying and erecting double suspension heavy duty lacquered iron chain with hooks for erecting fluo.tube light fitting with necessary 2 or 3 core copper flexible wire 24/.2 mm for connecting leads.(for measurements half of the actual length used)</p> <p>Note: The item shall be provided only at the time of installation of fitting on trusses / pipe / angle / channel.</p>	M	34.47	500.00	17235.00
194	<p>Supplying and erecting double suspension pipe rod of 16 gauge 20mm.dia H.G.conduit duly threaded and painted with two coats of enamel paint for erection of fluo tube light fitting with necessary check nuts and 2 or 3 core copper flexible wire of 24/.2 mm for connecting leads (for measurements half of the</p>	M	156.67	500.00	78335.00

	actual length both pipes used) Note: The item shall be provided only at the time of installation of fitting on trusses / pipe / angle / channel.				
195	Supplying and erecting ball suspension plate cast aluminum erected with spring on wooden block in position. Note: The item shall be provided only at the time of installation of fitting on trusses / pipe / angle / channel.	AU	29.24	500.00	14620.00
196	Providing and erecting clamps for box type / industrial type fittings with provided suspension down rod of 20 mm dia. H.G.conduit,the clamp shall be made of 25 x 3 mm MS flat with cutting,bending,drilling erected properly with necessary nut bolt as per direction. Note: The item shall be provided only at the time of installation of fitting on trusses / pipe / angle / channel.	AU	65.80	300.00	19740.00
197	Supplying and erecting Bakelite call bell with 6 cm / buzzer with double coil suitable for 230V complete erected on PVC block.	AU	57.45	50.00	2872.50
198	Supplying and erecting luminous / modular type call bell indicator with plastic body, heavy duty coil and indicator lamp working on 230V A.C. supply with resetting arrangement complete erected on double wooden/ sunmica board.	AU	201.58	50.00	10079.00
199	Supplying and erecting Electronic Type cordless call bell erected on T.W. board having portable bell push working on 9V. D.C. and bell on 250 V A.C. supply. (Effective range upto 45 meter)	AU	396.90	100.00	39690.00
200	SITC of battery operated call bell system with receiver unit with indicator & buzzing sound of approved make :Forbix Semicon/ Gold metal	AU	3166.67	50.00	158333.50
201	Supplying and erecting electronic type 600 W dimmer complete erected on provided switch board.	AU	141.00	20.00	2820.00
202	Supplying and erecting electronic type 300/450 W dimmer complete erected on provided switch board.	AU	147.27	20.00	2945.40
203	Supplying and fixing wiremesh(Jali) cover suitable for fitting / fan or for any purpose, complete with necessary materials. The Jali cover shall be made from good quality G.I. wire mesh size 25 mm x 25 mm and made up of 14 SWG G.I. wire with side / supporting MS strips of suitable size.	M2	407.35	20.00	8147.00
Decorative indoor fittings					
204	Supplying and erecting 1 light fancy wall bracket with arm fabricated from brass duly lacquered with suitable holder and fancy glass shade duly wired erected on wall with suitable size of polished wooden / laminated board. Note: 1) Reduce Rs 10/- if, fitting is to be	AU	463.75	20.00	9275.00

	erected on provided wooden / Sunmica board 2) Use of fluo. Fitting with conventional choke shall be avoided. 3) All fittings are excluding tubes/lamp 4) All 40W fittings are suitable for 40W / 36 W - conventional/slim T8 (High Phosphor 2450 lumens) & Energy Efficient 36 W T8(Tri-band Phosphor 3250 lumens). 5) The fitting having two or more CFL/ FTL should be provided with independent choke for each tube/ bulb				
205	Supplying and erecting 2 light fancy wall bracket with arm fabricated from brass duly lacquered with suitable holder and fancy glass shade duly wired erected on wall with suitable size of polished wooden / laminated board. Note: 1) Reduce Rs 10/- if, fitting is to be erected on provided wooden / Sunmica board 2) Use of fluo. Fitting with conventional choke shall be avoided. 3) All fittings are excluding tubes/lamp 4) All 40W fittings are suitable for 40W / 36 W - conventional/slim T8 (High Phosphor 2450 lumens) & Energy Efficient 36 W T8(Tri-band Phosphor 3250 lumens). 5) The fitting having two or more CFL/ FTL should be provided with independent choke for each tube/ bulb	AU	744.71	20.00	14894.20
206	Supplying and erecting glass shade of suitable size and shape of approved colour and quality on existing decorative fitting Note: 1) Reduce Rs 10/- if, fitting is to be erected on provided wooden / Sunmica board 2) Use of fluo. Fitting with conventional choke shall be avoided. 3) All fittings are excluding tubes/lamp 4) All 40W fittings are suitable for 40W / 36 W - conventional/slim T8 (High Phosphor 2450 lumens) & Energy Efficient 36 W T8(Tri-band Phosphor 3250 lumens). 5) The fitting having two or more CFL/ FTL should be provided with independent choke for each tube/ bulb	AU	84.60	20.00	1692.00
General indoor fittings (FG-IDF)					
207	Supplying & erecting approved make 1 x 18/20W white stove enamelled / powder coated box type fluo.fitting with 20 W electronic ballast having pf > 0.9 fixed at ceiling or on wall as per specification No.FG-IDF/BFF	AU	606.84	20.00	12136.80
208	Supplying & erecting approved make 1 x 36/40W white stove enamelled / powder coated, decorative end caps box type fluo.fitting with 40 W electronic ballast having pf>0.9 fixed at ceiling or on wall as per specification No. FG-IDF/BFF	AU	626.69	20.00	12533.80
209	Supplying & erecting approved make 1 x 14W T-5 white stove enamelled / powder coated box type fluo.fitting with 14 W electronic	AU	497.17	20.00	9943.40

	ballast having pf > 0.9 fixed at ceiling or on wall as per specification No. FG-IDF/BFF				
210	Supplying & erecting approved make 1 x 28W T-5 white stove enamelled / powder coated box type fluo.fitting with 28 W electronic ballast having pf > 0.9 fixed at ceiling or on wall as per specification No. FG-IDF/BFF	AU	805.29	200.00	161058.00
211	Supplying & erecting approved make 1 x 28W T-5 white stove enamelled / powder coated,decorative end caps box type fluo.fitting with 28W electronic ballast having pf>0.9 fixed at ceiling or on wall as per specification No.FG-IDF/BFF	AU	703.98	200.00	140796.00
212	Supplying and erecting approved make white stove enamelled / powder coated CRCA sheet not less than 0.7 mm thick chalk board type fluo.fitting of 1 x28W T-5 with 28W Electronic Ballast having pf > 0.90 fixed at ceiling or on wall as per specification no. FG-IDF/CBF	AU	1149.97	200.00	229994.00
213	Supplying & erecting approved make 2 x 36/40W with white stove enamelled/ powder coated industrial type fluo. fitting with one 40W Electronic Ballast having pf > 0.9 fixed at ceiling or on wall as per specification No. FG-IDF/INF	AU	1107.15	100.00	110715.00
214	Supplying and erecting approved make 1 x 36/40W fluo fitting recess /surface mounting mirror optic type with one 40W Electronic Ballast having pf > 0.9 fixed in false ceiling or at ceiling or on wall as per specification No. FG-IDF/MOP	AU	1555.23	100.00	155523.00
215	Supplying and erecting approved make 2 x 36/40W fluo fitting recess /surface mounting mirror optic type with one 40W electronic Ballast having pf > 0.90 fixed in false ceiling or at ceiling or on wall as per specification No. FG-IDF/MOP	AU	2380.37	50.00	119018.50
216	Supplying and erecting approved make 1 x 28W T-5 fluo fitting recess /surface mounting mirror optic type with one 28W Electronic Ballast having pf > 0.9 fixed in false ceiling or at ceiling or on wall as per specification No. FG-IDF/MOP	AU	2154.76	500.00	1077380.00
217	Supplying and erecting approved make 2 x 28W T5 fluo. fitting recess /surface mounting mirror optic type with electronic ballast having pf>0.9 fixed in false ceiling or at ceiling or on wall as per specification No. FG-IDF/MOP	AU	2505.71	200.00	501142.00
218	Supplying and erecting approved make Crescent recess / surface soft light mirror optic square PL fitting suitable for 2 x 36W compact fluo.lamp with Electronic Ballast having pf > 0.9 fixed in false ceiling / on ceiling as per specification no. FG-IDF/MOF	AU	2655.07	50.00	132753.50
219	Supplying and erecting luminaries suitable for CFL 1 X 9 to 11 W with electronic ballast fixed on wall / above mirror as per specification no.FG-IDF/ML1	AU	338.42	100.00	33842.00
	Accessories for Outdoor Fittings (FG-AS)				
220	Supplying and erecting street light bracket	AU	461.66	20.00	9233.20

	made from 25 mm dia B class G.I. Pipe 0.6 m in length along with pole cap of 300 mm length and 80mm dia duly welded with provided leads as per specification No FG-BKT/ BPC				
221	Supplying and erecting street light bracket made from 40 mm. dia B class G.I. pipe,0.6 m. in length along with pole cap of 300 mm length and 80mm dia duly with provided leads as per specification No FG- BKT/ BPC	AU	524.33	20.00	10486.60
222	Supplying and erecting street light Wall bracket made from 25 mm. dia 'B' class G.I. pipe 1.2 m in total length complete as per specification no. FG-BKT/WB	AU	484.64	20.00	9692.80
223	Supplying and erecting street light Wall bracket made from 40 mm. dia 'B' class G.I. pipe 1.2 m in total length complete as per specification no.FG-BKT/WB	AU	608.93	20.00	12178.60
224	Supplying and erecting street light bracket for single fitting made from 40 mm. dia B class G.I. pipe,1.0 m. in length along with pole cap of 300 mm length 100 mm dia duly welded as per specification no FG- BKT/ BPC	AU	750.99	20.00	15019.80
225	Supplying and erecting street light bracket for double fitting made from 40 mm. dia B class G.I. pipe,1.0 m. in length along with pole cap of 300 mm length, 100 mm dia duly welded as per specification no FG- BKT/ BPC	AU	1064.33	20.00	21286.60
Decorative Outdoor Fitting (FG-ODF)					
226	Supplying and erecting gate/garden light fitting with 200mm dia. glass bowl suitable for upto 11W CFL on provided pipe as per specification No. FG-ODF/GLT Note:1) All fittings are excluding tubes/lamps. 2) The fitting having two or more CFL/ FTL should be provided with independent choke for each tube/ bulb 3) All SV/MV/MH/CFL/T-5 street fittings shall be used with one piece enclosure with top opening	AU	452.26	20.00	9045.20
227	Supplying and erecting gate/garden light fitting with 300mm dia. glass bowl suitable for upto 11W CFL on provided pipe as per specification No. FG-ODF/GLT Note:1) All fittings are excluding tubes/lamps. 2) The fitting having two or more CFL/ FTL should be provided with independent choke for each tube/ bulb 3) All SV/MV/MH/CFL/T-5 street fittings shall be used with one piece enclosure with top opening Note:1) All fittings are excluding tubes/lamps. 2) The fitting having two or more CFL/ FTL should be provided with independent choke for each tube/ bulb 3) All SV/MV/MH/CFL/T-5 street fittings shall be used with one piece enclosure with top opening	AU	1046.57	20.00	20931.40

Street/Flood Light Fittings (FG -ODF)					
228	<p>Supplying and erecting CFL Street light fittings suitable for 1x upto 18W CFL lamp with electronic ballast having pf > 0.9 with accessories complete on provided bracket as per specification no. FG-ODF/CSL</p> <p>Note:1) All fittings are excluding tubes/lamps. 2) The fitting having two or more CFL/ FTL should be provided with independent choke for each tube/ bulb 3) All SV/MV/MH/CFL/T-5 street fittings shall be used with one piece enclosure with top opening</p>	AU	1014.19	20.00	20283.80
229	<p>Supplying and erecting CFL Street light fitting suitable for 2x upto 18W CFL lamps, electronic ballast having pf > 0.9 with accessories complete on provided bracket as per specification no. FG-ODF/CSL</p> <p>Note:1) All fittings are excluding tubes/lamps. 2) The fitting having two or more CFL/ FTL should be provided with independent choke for each tube/ bulb 3) All SV/MV/MH/CFL/T-5 street fittings shall be used with one piece enclosure with top opening</p>	AU	1161.46	20.00	23229.20
230	<p>Supplying & erecting street light 150W H.P.S.V. lamp fitting on provided bracket as per specification no. FG-ODF/GSL</p> <p>Note:1) All fittings are excluding tubes/lamps. 2) The fitting having two or more CFL/ FTL should be provided with independent choke for each tube/ bulb 3) All SV/MV/MH/CFL/T-5 street fittings shall be used with one piece enclosure with top opening</p>	AU	2736.54	20.00	54730.80
231	<p>Supplying & erecting street light 250W H.P.S.V. lamp fitting on provided bracket as per specification no. FG-ODF/GSL</p> <p>Note:1) All fittings are excluding tubes/lamps. 2) The fitting having two or more CFL/ FTL should be provided with independent choke for each tube/ bulb 3) All SV/MV/MH/CFL/T-5 street fittings shall be used with one piece enclosure with top opening</p>	AU	3637.92	20.00	72758.40
232	<p>Supplying & erecting Flood light Luminaries suitable for 70W metal halide lamp on provided bracket as per specification no. FG-ODF/GFL</p> <p>Note:1) All fittings are excluding tubes/lamps. 2) The fitting having two or more CFL/ FTL should be provided with independent choke for each tube/ bulb 3) All SV/MV/MH/CFL/T-5 street fittings shall be used with one piece enclosure with top opening</p>	AU	2909.92	20.00	58198.40

233	Supplying & erecting Flood light Luminaries suitable for 150W metal halide lamp on provided bracket as per specification no. FG-ODF/GFL Note:1) All fittings are excluding tubes/lamps. 2) The fitting having two or more CFL/ FTL should be provided with independent choke for each tube/ bulb 3) All SV/MV/MH/CFL/T-5 street fittings shall be used with one piece enclosure with top opening	AU	3775.80	20.00	75516.00
234	Supplying & erecting flood light luminaire suitable for 1 x1000W Halogen lamp. on provided bracket as per specification no. FG-ODF/GFL Note:1) All fittings are excluding tubes/lamps. 2) The fitting having two or more CFL/ FTL should be provided with independent choke for each tube/ bulb 3) All SV/MV/MH/CFL/T-5 street fittings shall be used with one piece enclosure with top opening	AU	1295.16	20.00	25903.20
235	Supplying and erecting street light fitting suitable for 250W metal halide lamp complete with accessories on provided bracket as per specification no. FG-ODF/GSL Note:1) All fittings are excluding tubes/lamps. 2) The fitting having two or more CFL/ FTL should be provided with independent choke for each tube/ bulb 3) All SV/MV/MH/CFL/T-5 street fittings shall be used with one piece enclosure with top opening	AU	4720.01	20.00	94400.20
236	Supplying and erecting street light fitting suitable for 400W metal halide lamp complete with accessories on provided bracket as per specification no. FG-ODF/GSL Note:1) All fittings are excluding tubes/lamps. 2) The fitting having two or more CFL/ FTL should be provided with independent choke for each tube/ bulb 3) All SV/MV/MH/CFL/T-5 street fittings shall be used with one piece enclosure with top opening	AU	8399.71	20.00	167994.20
INDOOR LED FITTINGS					
237	Teknic RYG Indication LED	AU	179.95	20.00	3599.00
238	Teknic Blue indication LED	AU	505.61	20.00	10112.20
239	Supplying,Installation, testing and commissioning LED Mirror Light of 5 to 8 W, 230V Intergral type.	AU	2216.67	50.00	110833.50
240	Supplying,Installation, testing and commissioning T5 LED Tube light 16 W, 230V.	AU	916.67	500.00	458335.00
241	Supplying,Installation, testing and commissioning LED Bracket Light of 8 W, 230V.	AU	1701.67	20.00	34033.40

242	Supplying,Installation, testing and commissioning 8W LED wall light	AU	2150.00	20.00	43000.00
243	Supplying & erecting ready to use retrofit T8 LED 18-20W tube light with heat sink, integrated HF electronic driver complete & compatible to T8 (36W) / T12 (40W) luminaire by disconnecting starter & ballast if necessary. Note : 1) System efficacy shall not be less than 85 lumens/watt. 2) LED Lamp shall carry minimum one year warranty.	AU	1166.13	500.00	583065.00
244	Supplying & erecting decorative pre-wired box type fitting/batten suitable for 4' T8 LED tube light (Excluding tube light). Note : 1) System efficacy shall not be less than 85 lumens/watt, 2) CRI shall be more than 70. 3) Colour temperature shall be as required between 4000K-6500K. 4) Total Harmonic Distortion Voltage and Current shall be less than 15% 5) Operating range shall be 140V to 270V 6) Power Factor of Luminaire shall be more than 0.95 7) Luminaire and Lamp shall be LM79,LM80 compliant respectively. 8) Luminaire shall conform respective IS. 9) Luminaire Shall withstand surge protection upto 4kV 10) Luminaire shall carry minimum three years warranty.	AU	320.78	500.00	160390.00
245	Supplying and erecting LED square / circular 5 to 8W downlighter having pressure die-cast aluminium housing, opal translucent cover, mounting arrangement with board for surface type or spring loaded mounting clips for flush type complete. Note : 1) System efficacy shall not be less than 85 lumens/watt, 2) CRI shall be more than 70. 3) Colour temperature shall be as required between 4000K-6500K. 4) Total Harmonic Distortion Voltage and Current shall be less than 15% 5) Operating range shall be 140V to 270V 6) Power Factor of Luminaire shall be more than 0.95 7) Luminaire and Lamp shall be LM79,LM80 compliant respectively. 8) Luminaire shall conform respective IS. 9) Luminaire Shall withstand surge protection upto 4kV 10) Luminaire shall carry minimum three years warranty.	AU	787.21	100.00	78721.00
246	Supplying and erecting LED square / circular 9 to 12W downlighter having pressure die-cast	AU	1358.54	80.00	108683.20

	<p>aluminium housing, opal translucent cover, mounting arrangement with board for surface type or spring loaded mounting clips for flush type complete.</p> <p>Note :</p> <p>1) System efficacy shall not be less than 85 lumens/watt, 2) CRI shall be more than 70. 3) Colour temperature shall be as required between 4000K-6500K. 4) Total Harmonic Distortion Voltage and Current shall be less than 15% 5) Operating range shall be 140V to 270V 6) Power Factor of Luminaire shall be more than 0.95 7) Luminaire and Lamp shall be LM79,LM80 compliant respectively. 8) Luminaire shall confirm respective IS. 9) Luminaire Shall withstand surge protection upto 4kV 10) Luminaire shall carry minimum three years warranty.</p>				
247	<p>Supplying and erecting LED square / circular 13 to 15W downlighter having pressure die-cast aluminum housing, opal translucent cover, mounting arrangement with board for surface type or spring loaded mounting clips for flush type complete.</p> <p>Note :</p> <p>1) System efficacy shall not be less than 85 lumens/watt, 2) CRI shall be more than 70. 3) Colour temperature shall be as required between 4000K-6500K. 4) Total Harmonic Distortion Voltage and Current shall be less than 15% 5) Operating range shall be 140V to 270V 6) Power Factor of Luminaire shall be more than 0.95 7) Luminaire and Lamp shall be LM79,LM80 compliant respectively. 8) Luminaire shall confirm respective IS. 9) Luminaire Shall withstand surge protection upto 4kV 10) Luminaire shall carry minimum three years warranty.</p>	AU	1649.94	50.00	82497.00
248	<p>Supplying and erecting LED square / circular 16 to 20W downlighter having pressure die-cast aluminium housing, opal translucent cover, mounting arrangement with board for surface type or spring loaded mounting clips for flush type complete.</p> <p>Note :</p> <p>1) System efficacy shall not be less than 85 lumens/watt, 2) CRI shall be more than 70. 3) Colour temperature shall be as required between 4000K-6500K. 4) Total Harmonic Distortion Voltage and</p>	AU	2123.09	50.00	106154.50

	<p>Current shall be less than 15%</p> <p>5) Operating range shall be 140V to 270V</p> <p>6) Power Factor of Luminaire shall be more than 0.95</p> <p>7) Luminaire and Lamp shall be LM79,LM80 compliant respectively.</p> <p>8) Luminaire shall confirm respective IS.</p> <p>9) Luminaire Shall withstand surge protection upto 4kV</p> <p>10) Luminaire shall carry minimum three years warranty.</p>				
249	<p>Supplying and erecting square shaped CRCA /die-cast aluminium powder coated housing LED Panel light (slim edge-lit) suitable for upto 8 W with provision for plane front frame with translucent cover fixed to the housing complete.</p> <p>Note :</p> <p>1) System efficacy shall not be less than 85 lumens/watt,</p> <p>2) CRI shall be more than 70.</p> <p>3) Colour temperature shall be as required between 4000K-6500K.</p> <p>4) Total Harmonic Distortion Voltage and Current shall be less than 15%</p> <p>5) Operating range shall be 140V to 270V</p> <p>6) Power Factor of Luminaire shall be more than 0.95</p> <p>7) Luminaire and Lamp shall be LM79,LM80 compliant respectively.</p> <p>8) Luminaire shall confirm respective IS.</p> <p>9) Luminaire Shall withstand surge protection upto 4kV</p> <p>10) Luminaire shall carry minimum three years warranty.</p>	AU	895.24	50.00	44762.00
250	<p>Supplying and erecting square shaped CRCA /die-cast aluminium powder coated housing LED Panel light (slim edge-lit) suitable for 9 W - 12 W with provision for plane front frame with translucent cover fixed to the housing complete.</p> <p>Note :</p> <p>1) System efficacy shall not be less than 85 lumens/watt,</p> <p>2) CRI shall be more than 70.</p> <p>3) Colour temperature shall be as required between 4000K-6500K.</p> <p>4) Total Harmonic Distortion Voltage and Current shall be less than 15%</p> <p>5) Operating range shall be 140V to 270V</p> <p>6) Power Factor of Luminaire shall be more than 0.95</p> <p>7) Luminaire and Lamp shall be LM79,LM80 compliant respectively.</p> <p>8) Luminaire shall confirm respective IS.</p> <p>9) Luminaire Shall withstand surge protection upto 4kV</p> <p>10) Luminaire shall carry minimum three years warranty.</p>	AU	1194.64	100.00	119464.00
251	<p>Supplying and erecting square / round shaped CRCA /die-cast aluminium powder</p>	AU	1887.13	60.00	113227.80

	<p>coated housing LED Panel (slim edge-lit) light suitable for 13 to 18W with provision for plane front frame with translucent cover fixed to the housing complete.</p> <p>Note :</p> <ol style="list-style-type: none"> 1) System efficacy shall not be less than 85 lumens/watt, 2) CRI shall be more than 70. 3) Colour temperature shall be as required between 4000K-6500K. 4) Total Harmonic Distortion Voltage and Current shall be less than 15% 5) Operating range shall be 140V to 270V 6) Power Factor of Luminaire shall be more than 0.95 7) Luminaire and Lamp shall be LM79, LM80 compliant respectively. 8) Luminaire shall confirm respective IS. 9) Luminaire Shall withstand surge protection upto 4kV 10) Luminaire shall carry minimum three years warranty. 				
252	<p>Supplying and erecting CRCA /die-cast aluminium powder coated housing LED Panel light (slim edge-lit) square / round shape suitable for 19 to 24 W with provision for plane front frame with translucent cover fixed to the housing complete.</p> <p>Note :</p> <ol style="list-style-type: none"> 1) System efficacy shall not be less than 85 lumens/watt, 2) CRI shall be more than 70. 3) Colour temperature shall be as required between 4000K-6500K. 4) Total Harmonic Distortion Voltage and Current shall be less than 15% 5) Operating range shall be 140V to 270V 6) Power Factor of Luminaire shall be more than 0.95 7) Luminaire and Lamp shall be LM79, LM80 compliant respectively. 8) Luminaire shall confirm respective IS. 9) Luminaire Shall withstand surge protection upto 4kV 10) Luminaire shall carry minimum three years warranty. 	AU	2478.67	10.00	24786.70
253	<p>Supplying and erecting square / rectangular shaped CRCA /die-cast aluminium powder coated housing LED Panel (slim edge-lit) light suitable for 25 to 32W with provision for plane front frame with translucent cover fixed to the housing complete.</p> <p>Note :</p> <ol style="list-style-type: none"> 1) System efficacy shall not be less than 85 lumens/watt, 2) CRI shall be more than 70. 3) Colour temperature shall be as required between 4000K-6500K. 4) Total Harmonic Distortion Voltage and 	AU	5809.52	10.00	58095.20

	<p>Current shall be less than 15%</p> <p>5) Operating range shall be 140V to 270V</p> <p>6) Power Factor of Luminaire shall be more than 0.95</p> <p>7) Luminaire and Lamp shall be LM79,LM80 compliant respectively.</p> <p>8) Luminaire shall confirm respective IS.</p> <p>9) Luminaire Shall withstand surge protection upto 4kV</p> <p>10) Luminaire shall carry minimum three years warranty.</p>				
254	<p>Supplying and erecting square shaped CRCA /die-cast aluminium powder coated housing LED Panel light (slim edge-lit) 600X600mm suitable for 36 W-40W with provision for plane front frame with translucent cover fixed to the housing complete.</p> <p>Note :</p> <p>1) System efficacy shall not be less than 85 lumens/watt,</p> <p>2) CRI shall be more than 70.</p> <p>3) Colour temperature shall be as required between 4000K-6500K.</p> <p>4) Total Harmonic Distortion Voltage and Current shall be less than 15%</p> <p>5) Operating range shall be 140V to 270V</p> <p>6) Power Factor of Luminaire shall be more than 0.95</p> <p>7) Luminaire and Lamp shall be LM79,LM80 compliant respectively.</p> <p>8) Luminaire shall confirm respective IS.</p> <p>9) Luminaire Shall withstand surge protection upto 4kV</p> <p>10) Luminaire shall carry minimum three years warranty.</p>	AU	6480.08	300.00	1944024.00
255	<p>Supplying and erecting rectangular shaped CRCA /die-cast aluminium powder coated housing LED Panel (slim edge-lit) 300X1200mm of suitable for 36 to 40 W with provision for plane front frame with translucent cover fixed to the housing complete.</p> <p>Note :</p> <p>1) System efficacy shall not be less than 85 lumens/watt,</p> <p>2) CRI shall be more than 70.</p> <p>3) Colour temperature shall be as required between 4000K-6500K.</p> <p>4) Total Harmonic Distortion Voltage and Current shall be less than 15%</p> <p>5) Operating range shall be 140V to 270V</p> <p>6) Power Factor of Luminaire shall be more than 0.95</p> <p>7) Luminaire and Lamp shall be LM79,LM80 compliant respectively.</p> <p>8) Luminaire shall confirm respective IS.</p> <p>9) Luminaire Shall withstand surge protection upto 4kV</p> <p>10) Luminaire shall carry minimum three years warranty.</p>	AU	7067.54	20.00	141350.80

256	<p>Supplying and erecting LED flexible strip light 5m length upto 25W conforming IP 65 of any colour with driver complete.</p> <p>Note :1) System efficacy shall not be less than 85 lumens/watt, 2) CRI shall be more than 70. 3) Colour temperature shall be as required between 4000K-6500K. 4) Total Harmonic Distortion Voltage and Current shall be less than 15% 5) Operating range shall be 140V to 270V6) Power Factor of Luminaire shall be more than 0.95 7) Luminaire and Lamp shall be LM79,LM80 compliant respectively. 8) Luminaire shall confirm respective IS. 9) Luminaire Shall withstand surge protection upto 4kV 10) Luminaire shall carry minimum three years warranty.</p>	AU	3076.58	20.00	61531.60
257	<p>Supplying LED concealed type foot / step light with aluminium body for indoor application suitable for upto 2 W LED including driver and erecting by making necessary arrangement/recess in wall to make it flush with surface.</p> <p>Note : 1) System efficacy shall not be less than 85 lumens/watt, 2) CRI shall be more than 70. 3) Colour temperature shall be as required between 4000K-6500K. 4) Total Harmonic Distortion Voltage and Current shall be less than 15% 5) Operating range shall be 140V to 270V 6) Power Factor of Luminaire shall be more than 0.95 7) Luminaire and Lamp shall be LM79,LM80 compliant respectively. 8) Luminaire shall confirm respective IS. 9) Luminaire Shall withstand surge protection upto 4kV 10) Luminaire shall carry minimum three years warranty.</p>	AU	911.37	20.00	18227.40
258	<p>Making suitable size recess in any type of false ceiling for erection of flush type down lighter and finishing the background to match the original surface upto 20W</p> <p>Note : 1) System efficacy shall not be less than 85 lumens/watt, 2) CRI shall be more than 70. 3) Colour temperature shall be as required between 4000K-6500K. 4) Total Harmonic Distortion Voltage and Current shall be less than 15% 5) Operating range shall be 140V to 270V 6) Power Factor of Luminaire shall be more than 0.95</p>	AU	62.79	20.00	1255.80

	<p>7) Luminaire and Lamp shall be LM79,LM80 compliant respectively.</p> <p>8) Luminaire shall confirm respective IS.</p> <p>9) Luminaire Shall withstand surge protection upto 4kV</p> <p>10) Luminaire shall carry minimum three years warranty.</p>				
259	<p>Making suitable size of recess in any type of false ceiling for erection of flush type LED Panel light 600mm x 600mm and finishing the background to match the original ceiling surface.</p> <p>Note :1) System efficacy shall not be less than 85 lumens/watt, 2) CRI shall be more than 70. 3) Colour temperature shall be as required between 4000K-6500K. 4) Total Harmonic Distortion Voltage and Current shall be less than 15% 5) Operating range shall be 140V to 270V 6) Power Factor of Luminiare shall be more than 0.95 7) Luminaire and Lamp shall be LM79,LM80 compliant respectively. 8) Luminaire shall confirm respective IS. 9) Luminaire Shall withstand surge protection upto 4kV 10) Luminaire shall carry minimum three years warranty.</p>	AU	110.94	50.00	5547.00
OUTDOOR LED FITTINGS					
260	<p>Supplying and erecting LED street light fitting 12 to 18 W, with PF > 0.95 class IP 65 and above Housing of pressure die cast alluminium alloy and heat sink extruded alluminium complete as per specification No FG-ODF/FLS-2</p> <p>Note: 1)System efficacy shall not be less than 85 lumens/watt, 2) CRI shall be more than 70. 3) Colour temperature shall be as required between 4000K-6500K. 4) Total Harmonic Distortion Voltage and Current shall be less than 10% 5) Operating range shall be 140V to 270V 6) Power Factor of Luminiare shall be more than 0.95 7) Luminaire and Lamp shall be LM79,LM80 compliant respectively. 8) Luminaire Shall withstand surge protection upto 4kV 9) Luminaire shall have facility to shift on standby mode in case voltage rises above operating range. 10) Luminaire shall carry minimum three years warranty. 11) There shall be provision for termination of earth connection.</p>	AU	3098.52	20.00	61970.40
261	<p>Supplying and erecting LED Street light fitting suitable for 20 to 25W, with PF > 0.95 class IP</p>	AU	3317.86	20.00	66357.20

	<p>65 and above Housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete as per specification No FG-ODF/FLS-2</p> <p>Note:</p> <ol style="list-style-type: none"> 1) System efficacy shall not be less than 85 lumens/watt, 2) CRI shall be more than 70. 3) Colour temperature shall be as required between 4000K-6500K. 4) Total Harmonic Distortion Voltage and Current shall be less than 10% 5) Operating range shall be 140V to 270V 6) Power Factor of Luminaire shall be more than 0.95 7) Luminaire and Lamp shall be LM79,LM80 compliant respectively. 8) Luminaire Shall withstand surge protection upto 4kV 9) Luminaire shall have facility to shift on standby mode in case voltage rises above operating range. 10) Luminaire shall carry minimum three years warranty. 11) There shall be provision for termination of earth connection.. 				
262	<p>Supplying and erecting LED street light fitting suitable above 26W to 36W lamp, including lamp, with PF > 0.95 class IP 65 and above Housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete as per specification No FG-O</p> <p>Note:</p> <ol style="list-style-type: none"> 1) System efficacy shall not be less than 85 lumens/watt, 2) CRI shall be more than 70. 3) Colour temperature shall be as required between 4000K-6500K. 4) Total Harmonic Distortion Voltage and Current shall be less than 10% 5) Operating range shall be 140V to 270V 6) Power Factor of Luminaire shall be more than 0.95 7) Luminaire and Lamp shall be LM79,LM80 compliant respectively. 8) Luminaire Shall withstand surge protection upto 4kV 9) Luminaire shall have facility to shift on standby mode in case voltage rises above operating range. 10) Luminaire shall carry minimum three years warranty. 11) There shall be provision for termination of earth connection. 	AU	4637.03	20.00	92740.60
263	<p>Supplying and erecting LED Street light fitting suitable for above 40W to 48W lamp, including lamp, with PF > 0.95 class IP 65 and above Housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FG</p>	AU	5159.61	20.00	103192.20

	<p>Note:</p> <ol style="list-style-type: none"> 1) System efficacy shall not be less than 85 lumens/watt, 2) CRI shall be more than 70. 3) Colour temperature shall be as required between 4000K-6500K. 4) Total Harmonic Distortion Voltage and Current shall be less than 10% 5) Operating range shall be 140V to 270V 6) Power Factor of Luminaire shall be more than 0.95 7) Luminaire and Lamp shall be LM79, LM80 compliant respectively. 8) Luminaire shall withstand surge protection upto 4kV 9) Luminaire shall have facility to shift on standby mode in case voltage rises above operating range. 10) Luminaire shall carry minimum three years warranty. 11) There shall be provision for termination of earth connection. 				
264	<p>Supplying and erecting LED street light fitting suitable for 60W lamp, including lamp, with PF > 0.95 class IP 65 and above Housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete as per specification No FG-ODF/FLS-2.</p> <p>Note:</p> <ol style="list-style-type: none"> 1) System efficacy shall not be less than 85 lumens/watt, 2) CRI shall be more than 70. 3) Colour temperature shall be as required between 4000K-6500K. 4) Total Harmonic Distortion Voltage and Current shall be less than 10% 5) Operating range shall be 140V to 270V 6) Power Factor of Luminaire shall be more than 0.95 7) Luminaire and Lamp shall be LM79, LM80 compliant respectively. 8) Luminaire shall withstand surge protection upto 4kV 9) Luminaire shall have facility to shift on standby mode in case voltage rises above operating range. 10) Luminaire shall carry minimum three years warranty. 11) There shall be provision for termination of earth connection. 	AU	9829.73	20.00	196594.60
265	<p>Supplying and erecting LED street light fitting suitable for above 70W- 75 lamp, including lamp, with PF > 0.95 class IP 65 and above Housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FG-ODF/</p> <p>Note:</p> <ol style="list-style-type: none"> 1) System efficacy shall not be less than 85 lumens/watt, 2) CRI shall be more than 70. 	AU	11478.96	20.00	229579.20

	<p>3) Colour temperature shall be as required between 4000K-6500K.</p> <p>4) Total Harmonic Distortion Voltage and Current shall be less than 10%</p> <p>5) Operating range shall be 140V to 270V</p> <p>6) Power Factor of Luminaire shall be more than 0.95</p> <p>7) Luminaire and Lamp shall be LM79,LM80 compliant respectively.</p> <p>8) Luminaire Shall withstand surge protection upto 4kV</p> <p>9) Luminaire shall have facility to shift on standby mode in case voltage rises above operating range.</p> <p>10) Luminaire shall carry minimum three years warranty.</p> <p>11) There shall be provision for termination of earth connection.</p>				
266	<p>Supplying and erecting LED street light fitting suitable for above 75 - 90W lamp, including lamp, with PF > 0.95 class IP 65 and above Housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FG-ODF</p> <p>Note:</p> <p>1) System efficacy shall not be less than 85 lumens/watt,</p> <p>2) CRI shall be more than 70.</p> <p>3) Colour temperature shall be as required between 4000K-6500K.</p> <p>4) Total Harmonic Distortion Voltage and Current shall be less than 10%</p> <p>5) Operating range shall be 140V to 270V</p> <p>6) Power Factor of Luminaire shall be more than 0.95</p> <p>7) Luminaire and Lamp shall be LM79,LM80 compliant respectively.</p> <p>8) Luminaire Shall withstand surge protection upto 4kV</p> <p>9) Luminaire shall have facility to shift on standby mode in case voltage rises above operating range.</p> <p>10) Luminaire shall carry minimum three years warranty.</p> <p>11) There shall be provision for termination of earth connection.</p>	AU	15572.74	20.00	311454.80
267	<p>Supplying and erecting LED street light fitting 100W, including lamp, with PF > 0.95 class IP 65 and above Housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FG-ODF/FLS-2.</p> <p>Note:</p> <p>1) System efficacy shall not be less than 85 lumens/watt,</p> <p>2) CRI shall be more than 70.</p> <p>3) Colour temperature shall be as required between 4000K-6500K.</p> <p>4) Total Harmonic Distortion Voltage and Current shall be less than 10%</p>	AU	17659.48	20.00	353189.60

	<p>5) Operating range shall be 140V to 270V</p> <p>6) Power Factor of Luminaire shall be more than 0.95</p> <p>7) Luminaire and Lamp shall be LM79,LM80 compliant respectively.</p> <p>8) Luminaire Shall withstand surge protection upto 4kV</p> <p>9) Luminaire shall have facility to shift on standby mode in case voltage rises above operating range.</p> <p>10) Luminaire shall carry minimum three years warranty.</p> <p>11) There shall be provision for termination of earth connection.</p>				
268	<p>Supplying and erecting LED street light fitting 120 W, including lamp, with PF > 0.95 class IP 65 and above Housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FG-ODF/FLS-2.</p> <p>Note:</p> <p>1) System efficacy shall not be less than 85 lumens/watt,</p> <p>2) CRI shall be more than 70.</p> <p>3) Colour temperature shall be as required between 4000K-6500K.</p> <p>4) Total Harmonic Distortion Voltage and Current shall be less than 10%</p> <p>5) Operating range shall be 140V to 270V</p> <p>6) Power Factor of Luminaire shall be more than 0.95</p> <p>7) Luminaire and Lamp shall be LM79,LM80 compliant respectively.</p> <p>8) Luminaire Shall withstand surge protection upto 4kV</p> <p>9) Luminaire shall have facility to shift on standby mode in case voltage rises above operating range.</p> <p>10) Luminaire shall carry minimum three years warranty.</p> <p>11) There shall be provision for termination of earth connection.</p>	AU	18518.05	20.00	370361.00
269	<p>Supplying and erecting LED street light fitting 150 W, including lamp, with PF > 0.95 class IP 65 and above Housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FG-ODF/FLS-2.</p> <p>Note:</p> <p>1) System efficacy shall not be less than 85 lumens/watt,</p> <p>2) CRI shall be more than 70.</p> <p>3) Colour temperature shall be as required between 4000K-6500K.</p> <p>4) Total Harmonic Distortion Voltage and Current shall be less than 10%</p> <p>5) Operating range shall be 140V to 270V</p> <p>6) Power Factor of Luminaire shall be more than 0.95</p> <p>7) Luminaire and Lamp shall be LM79,LM80</p>	AU	28779.01	20.00	575580.20

	<p>compliant respectively.</p> <p>8) Luminaire Shall withstand surge protection upto 4kV</p> <p>9) Luminaire shall have facility to shift on standby mode in case voltage rises above operating range.</p> <p>10) Luminaire shall carry minimum three years warranty.</p> <p>11) There shall be provision for termination of earth connection.</p>				
270	<p>Supplying and erecting LED street light fitting suitable for 160 -170 W, including lamp, with PF > 0.95 class IP 65 and above Housing of pressure die cast alluminium alloy and heat sink extruded alluminium complete per specification No FG-ODF/FLS-2.</p> <p>Note:</p> <p>1)System efficacy shall not be less than 85 lumens/watt,</p> <p>2) CRI shall be more than 70.</p> <p>3) Colour temperature shall be as required between 4000K-6500K.</p> <p>4) Total Harmonic Distortion Voltage and Current shall be less than 10%</p> <p>5) Operating range shall be 140V to 270V</p> <p>6) Power Factor of Luminaire shall be more than 0.95</p> <p>7) Luminaire and Lamp shall be LM79,LM80 compliant respectively.</p> <p>8) Luminaire Shall withstand surge protection upto 4kV</p> <p>9) Luminaire shall have facility to shift on standby mode in case voltage rises above operating range.</p> <p>10) Luminaire shall carry minimum three years warranty.</p> <p>11) There shall be provision for termination of earth connection.</p>	AU	25323.88	20.00	506477.60
271	<p>Supplying and erecting LED Flood light fitting of 30-40W, including lamp, with PF > 0.95,class IP 65 and above class IP 65 and above Housing of pressure die cast alluminium alloy and heat sink extruded alluminium completeper specification No FG-ODF/F</p> <p>Note:</p> <p>1)System efficacy shall not be less than 85 lumens/watt,</p> <p>2) CRI shall be more than 70.</p> <p>3) Colour temperature shall be as required between 4000K-6500K.</p> <p>4) Total Harmonic Distortion Voltage and Current shall be less than 10%</p> <p>5) Operating range shall be 140V to 270V</p> <p>6) Power Factor of Luminaire shall be more than 0.95</p> <p>7) Luminaire and Lamp shall be LM79,LM80 compliant respectively.</p> <p>8) Luminaire Shall withstand surge protection upto 4kV</p> <p>9) Luminaire shall have facility to shift on</p>	AU	4656.88	10.00	46568.80

	standby mode in case voltage rises above operating range. 10) Luminaire shall carry minimum three years warranty. 11) There shall be provision for termination of earth connection.				
272	Supplying and erecting LED Flood light fitting of 50W, including lamp, with PF > 0.95, class IP 65 and above class IP 65 and above Housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FG-ODF/FLS Note: 1) System efficacy shall not be less than 85 lumens/watt, 2) CRI shall be more than 70. 3) Colour temperature shall be as required between 4000K-6500K. 4) Total Harmonic Distortion Voltage and Current shall be less than 10% 5) Operating range shall be 140V to 270V 6) Power Factor of Luminaire shall be more than 0.95 7) Luminaire and Lamp shall be LM79, LM80 compliant respectively. 8) Luminaire shall withstand surge protection upto 4kV 9) Luminaire shall have facility to shift on standby mode in case voltage rises above operating range. 10) Luminaire shall carry minimum three years warranty. 11) There shall be provision for termination of earth connection.	AU	5394.28	10.00	53942.80
273	Supplying and erecting LED Flood light fitting of 70- 80W, including lamp, with PF > 0.95, class IP 65 and above class IP 65 and above Housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FG-ODF Note: 1) System efficacy shall not be less than 85 lumens/watt, 2) CRI shall be more than 70. 3) Colour temperature shall be as required between 4000K-6500K. 4) Total Harmonic Distortion Voltage and Current shall be less than 10% 5) Operating range shall be 140V to 270V 6) Power Factor of Luminaire shall be more than 0.95 7) Luminaire and Lamp shall be LM79, LM80 compliant respectively. 8) Luminaire shall withstand surge protection upto 4kV 9) Luminaire shall have facility to shift on standby mode in case voltage rises above operating range. 10) Luminaire shall carry minimum three	AU	8293.05	10.00	82930.50

	years warranty. 11) There shall be provision for termination of earth connection.				
274	<p>Supplying and erecting LED Flood light fitting of 90-100W, including lamp, with PF > 0.95, class IP 65 and above class IP 65 and above Housing of pressure die cast alluminium alloy and heat sink extruded alluminium complete per specification No FG-ODF</p> <p>Note: 1) System efficacy shall not be less than 85 lumens/watt, 2) CRI shall be more than 70. 3) Colour temperature shall be as required between 4000K-6500K. 4) Total Harmonic Distortion Voltage and Current shall be less than 10% 5) Operating range shall be 140V to 270V 6) Power Factor of Luminaire shall be more than 0.95 7) Luminaire and Lamp shall be LM79, LM80 compliant respectively. 8) Luminaire shall withstand surge protection upto 4kV 9) Luminaire shall have facility to shift on standby mode in case voltage rises above operating range. 10) Luminaire shall carry minimum three years warranty. 11) There shall be provision for termination of earth connection.</p>	AU	9391.84	30.00	281755.20
275	<p>Supplying and erecting LED Flood light fitting of 120W, including lamp, with PF > 0.95, class IP 65 and above class IP 65 and above Housing of pressure die cast alluminium alloy and heat sink extruded alluminium complete per specification No FG-ODF/FL</p> <p>Note: 1) System efficacy shall not be less than 85 lumens/watt, 2) CRI shall be more than 70. 3) Colour temperature shall be as required between 4000K-6500K. 4) Total Harmonic Distortion Voltage and Current shall be less than 10% 5) Operating range shall be 140V to 270V 6) Power Factor of Luminaire shall be more than 0.95 7) Luminaire and Lamp shall be LM79, LM80 compliant respectively. 8) Luminaire shall withstand surge protection upto 4kV 9) Luminaire shall have facility to shift on standby mode in case voltage rises above operating range. 10) Luminaire shall carry minimum three years warranty. 11) There shall be provision for termination of earth connection.</p>	AU	20385.00	30.00	611550.00

276	<p>Supplying and erecting LED Flood light fitting of 150W, including lamp, with PF > 0.95, class IP 65 and above class IP 65 and above Housing of pressure die cast alluminium alloy and heat sink extruded alluminium complete per specification No FG-ODF/FL</p> <p>Note: 1) System efficacy shall not be less than 85 lumens/watt, 2) CRI shall be more than 70. 3) Colour temperature shall be as required between 4000K-6500K. 4) Total Harmonic Distortion Voltage and Current shall be less than 10% 5) Operating range shall be 140V to 270V 6) Power Factor of Luminaire shall be more than 0.95 7) Luminaire and Lamp shall be LM79, LM80 compliant respectively. 8) Luminaire Shall withstand surge protection upto 4kV 9) Luminaire shall have facility to shift on standby mode in case voltage rises above operating range. 10) Luminaire shall carry minimum three years warranty. 11) There shall be provision for termination of earth connection.</p>	AU	29290.23	20.00	585804.60
277	<p>Supplying and erecting LED Flood light fitting of 200W, including lamp, with PF > 0.95, class IP 65 and above class IP 65 and above Housing of pressure die cast alluminium alloy and heat sink extruded alluminium complete per specification No FG-ODF/FL</p> <p>Note: 1) System efficacy shall not be less than 85 lumens/watt, 2) CRI shall be more than 70. 3) Colour temperature shall be as required between 4000K-6500K. 4) Total Harmonic Distortion Voltage and Current shall be less than 10% 5) Operating range shall be 140V to 270V 6) Power Factor of Luminaire shall be more than 0.95 7) Luminaire and Lamp shall be LM79, LM80 compliant respectively. 8) Luminaire Shall withstand surge protection upto 4kV 9) Luminaire shall have facility to shift on standby mode in case voltage rises above operating range. 10) Luminaire shall carry minimum three years warranty. 11) There shall be provision for termination of earth connection.</p>	AU	39733.99	20.00	794679.80
Outdoor Induction Light Fittings (FG-ODF/IL)					
278	Supplying and erecting Induction flood light/street light/highbay fitting IP 65 with lamp 40W, PF >0.95 of approved make and	AU	21089.09	20.00	421781.80

	duly connecting complete as per specification no. FG-ODF/IL				
279	Supplying and erecting Induction flood light/street light/highbay fitting IP 65 with lamp 80W, PF >0.95 of approved make and duly connecting complete as per specification no. FG-ODF/IL	AU	31694.75	10.00	316947.50
280	Supplying and erecting Induction flood light/street light/highbay fitting IP 65 with lamp 120W, PF >0.95 of approved make and duly connecting complete as per specification no. FG-ODF/IL	AU	36087.82	10.00	360878.20
281	Supplying and erecting Induction flood light/street light/highbay fitting IP 65 with lamp 150W, PF >0.95 of approved make and duly connecting complete as per specification no. FG-ODF/IL	AU	38107.85	10.00	381078.50
Aviation Light Fittings					
282	Supplying & erecting aviation obstruction light consisting of yellow painted die-cast aluminium alloy housing with built-in 75VA step up transformer, heat resistant, clear thick glass and accessories suitable for 1 Neon lamp complete.	AU	9899.58	10.00	98995.80
283	Supplying & erecting aviation obstruction light consisting of yellow painted die-cast aluminium alloy housing, red coloured polycarbonate dome and accessories suitable for Twin light on provided bracket complete.	AU	5455.32	10.00	54553.20
Solar Lighting (ESD-SOL)					
284	Supplying & erecting duly certified by MNRE Solar Street Light Fitting with 9/11 W CFL, with pole, c c foundation, 12 V, 75 AH battery Complete as per specification no. ESD-SOL/STL Note :- While framing the estimate of solar street light with solar PV panel , battery, converter, the above items should be taken along with provided street light pole bracket and necessary street light fitting	AU	35861.18	10.00	358611.80
285	Supplying & erecting Solar home Light system with structure as per MNRE specification with 1 no of CFL lamp of 9 W / 11W, 12 V, 20 AH battery as per specification No. ESD-SOL/SHL Note :- While framing the estimate of solar street light with solar PV panel , battery, converter, the above items should be taken along with provided street light pole bracket and necessary street light fitting	AU	10797.83	10.00	107978.30
286	Supplying & erecting Solar home Light system with structure as per MNRE specification with 2 nos of CFL lamp of 9 W / 11W, 12 V, 40 AH battery as per specification No. ESD-SOL/SHL Note :- While framing the estimate of solar street light with solar PV panel , battery, converter, the above items should be taken	AU	18420.45	10.00	184204.50

	along with provided street light pole bracket and necessary street light fitting				
287	<p>Supplying & erecting Solar home Light system with structure as per MNRE specification with 1 no of CFL lamp of 9 W / 11W, 1 No D C fan rating < 20 W, 12 V, 40 AH battery as per specification no. ESD-SOL/SHL</p> <p>Note :- While framing the estimate of solar street light with solar PV panel , battery, converter, the above items should be taken along with provided street light pole bracket and necessary street light fitting</p>	AU	18610.54	30.00	558316.20
288	<p>Supplying and erecting Solar panel comprising high efficiency mono-crystane / multi cryline Photo Voltaic Cell 20 W Per Single module suitable for 4-5 hrs backup with necessary clamps and module frame as per specification no. ESDSOL/CELL</p> <p>Note :- While framing the estimate of solar street light with solar PV panel , battery, converter, the above items should be taken along with provided street light pole bracket and necessary street light fitting</p>	AU	10230.68	10.00	102306.80
289	<p>Supplying and erecting approved make battery with capacity of 12 V 25 AH with duty cycle 8-10 hrs suitable to charge on PV cell with necessary wiring connections erected in powder coated protection box with stand and nut bolts as per specification no. ESD-SOL/BAT</p> <p>Note :- While framing the estimate of solar street light with solar PV panel , battery, converter, the above items should be taken along with provided street light pole bracket and necessary street light fitting</p>	AU	8653.52	10.00	86535.20
290	<p>Supplying and erecting approved make battery with capacity of 12 V 40 AH with duty cycle 10-12 hrs suitable to charge on PV cell with necessary wiring connections erected in powder coated protection box with stand and nut bolts as per specification no. ESD-SOL/BAT</p> <p>Note :- While framing the estimate of solar street light with solar PV panel , battery, converter, the above items should be taken along with provided street light pole bracket and necessary street light fitting</p>	AU	8990.88	10.00	89908.80
291	<p>Supplying and erecting approved make battery with capacity of 12 V 75 AH with duty cycle 10-12 hrs suitable to charge on PV cell with necessary wiring connections erected in powder coated protection box with stand and nut bolts as per specification no. ESD-SOL/BAT</p>	AU	13864.43	10.00	138644.30

	Note :- While framing the estimate of solar street light with solar PV panel , battery, converter, the above items should be taken along with provided street light pole bracket and necessary street light fitting				
292	Supplying and erecting Solar Power Generator up to 100 WP 230V, 50 Hz for connecting between battery and light fixture as per specification no. ESD-SOL/GEN Note :- While framing the estimate of solar street light with solar PV panel , battery, converter, the above items should be taken along with provided street light pole bracket and necessary street light fitting	AU	3253.56	10.00	32535.60
293	Supplying & Erecting LED solar street light of appropriate size suitable for lumen efficacy 90 lumen/watt at ground level with mounting height of fitting 5-7 m height from ground with IP 65 ingress protection with 12/14 W, lux level at ground min 50 lux, with p.f. > 0.95 with transparent lens as per specification no ESD-LED /ODF	Nos	21826.50	10.00	218265.00
294	Supplying & Erecting LED solar street light of appropriate size suitable for lumen efficacy 90lumen/watt at ground level with mounting height of fitting 5-7 m height from ground with IP 65 ingress protection with 24/26W, lux level at ground min 50 lux, with p.f. > 0.95 with transparent lens as per specification no ESD-LED /ODF	Nos	19214.25	10.00	192142.50
295	Supplying & Erecting LED solar street light of appropriate size suitable for lumen efficacy 90 lumen/watt at ground level with mounting height of fitting 5-7 m height from ground with IP 65 ingress protection with 37W, lux level at ground min 50 lux, with p.f. > 0.95 with transparent lens as per specification no ESDLED /ODF	Nos	22975.43	50.00	1148771.50
296	Supplying & Erecting LED solar street light of appropriate size suitable for lumen efficacy 90 lumen/watt at ground level with mounting height of fitting 5-7 m height from ground with IP 65 ingress protection with 74W, lux level at ground min 50 lux, with p.f. > 0.95 with transparent lens as per specification no ESDLED/ODF	Nos	43034.67	50.00	2151733.50
Fans (FG-FN)					
297	Supplying and erecting Ceiling fan of 600 mm. sweep complete erecte in position as per specification no. FG-FN/CF Note: For all type of fans except ceiling fan the metal canopy shall be provided.	AU	1829.93	20.00	36598.60
298	Supplying and erecting regular/ standard model Ceiling fan of 900 / 1050 mm. sweep complete erected in position as per specification no. FG-FN/CF Note: For all type of fans except ceiling fan the	AU	2027.33	10.00	20273.30

	metal canopy shall be provided.				
299	Supplying and erecting Ceiling fan of 1200 mm. sweep complete erected in position as per specification no. FG-FN/CF Note: For all type of fans except ceiling fan the metal canopy shall be provided.	AU	1873.80	30.00	56214.00
300	Supplying and erecting Ceiling fan of 1400 mm. sweep complete erected in position as per specification no. FG-FN/CF Note: For all type of fans except ceiling fan the metal canopy shall be provided.	AU	1983.47	400.00	793388.00
301	Providing and erecting bracket fan 400 mm. sweep A. C. 230 volts 50 cycles 1350 R.P.M. Oscillating type, plastic or metal blades chrome plated guard with regulator and moisture proof treatment to winding and with 'E' class insulation and marking Sr. No. and date of erection. Note: For all type of fans except ceiling fan the metal canopy shall be provided.	AU	2072.25	200.00	414450.00
302	Providing and erecting air circulator 450 mm. sweep oscillating type, wall mounting 1440 RPM without speed regulator, overheat protection unit, totally enclosed, flame proof motor suitable for 230/250 Volts single phase, 50 cycles A.C. supply, with one metre of 3 core lead wire and with moisture proof treatment to winding and with 'E' class insulation and marking Sr. No. and date of erection	AU	5057.37	50.00	252868.50
303	Providing and erecting air circulator 600 mm. sweep oscillating type, wall mounting 1440 RPM without speed regulator, overheat protection unit, totally enclosed, flame proof motor suitable for 230/250 Volts single phase, 50 cycles A.C. supply, with one metre of 3 core lead wire and with moisture proof treatment to winding and with 'E' class insulation and marking Sr. No. and date of erection.	AU	6237.64	30.00	187129.20
304	Supplying Pedestal fan 400 mm. 230 Volts 50 cycles oscillating type complete with guard and regulator 3 mtrs. of flexible wire and hand shield type 3 pin plug top and marking Sr. No. and date of erection. Note: For all type of fans except ceiling fan the metal canopy shall be provided.	AU	2564.20	30.00	76926.00
305	Supplying, erecting, testing and commissioning of Pedestal type air circulator 600 mm sweep A C. 230 V, 50Hz, of 1440 RPM osillating type with regulator and overhead protection unit ,totally enclosed ,flame proof motor with additional 3 core wire , 5 m length and hand shield type 3 pin 6A. plug top complete with moisture proof treatment and "E" calss insulation and	AU	7576.66	20.00	151533.20

	marking Sr No and date of erection. Should be Crompton / Almonard / Bajaj or approved make.				
306	Supplying Table fan of A.C. 230 V. 50 cycles 400 mm. oscillating type complete with 2 mtrs. of 3core flexible wire and Hand shield type 3 pin plug top and marking Sr. No. and date of erection. Note: For all type of fans except ceiling fan the metal canopy shall be provided.	AU	1866.49	20.00	37329.80
307	Supplying and erecting cabin fan of A.C. 230 V. 50 cycles 250 mm. / 300 mm. sweep complete with necessary brackets for fixing cabin fans, wire etc and marking Sr. No. and date of erection.	AU	1677.43	100.00	167743.00
308	Supplying and erecting cabin fan of A.C. 230 V. 50 cycles 400 mm. sweep complete with necessary brackets for fixing cabin fans, wire etc and marking Sr. No. and date of erection.	AU	1896.77	100.00	189677.00
309	Supplying and erecting fresh air cum Exhaust fan of light duty 250 V A.C. 50 cycles 300mm. 1400 RPM metallic body, plastic blades, wire mesh, duly erected in an approved manner and marking Sr. No. and date of erection.	AU	1402.73	100.00	140273.00
310	Supplying and erecting fresh air cum Exhaust fan of light duty 250 V A.C. 50 cycles 225mm. 1400 RPM metallic body, plastic blades, wire mesh, duly erected in an approved manner and marking Sr. No. and date of erection.	AU	1370.36	100.00	137036.00
311	Supplying and erecting Exhaust fan heavy duty 230 V, A.C. 50 cycles 375 mm. 900 RPM complete erected in position as per specification no. FG- FN/EXF	AU	3556.45	50.00	177822.50
312	Supplying and erecting Exhaust fan heavy duty 230 V A.C. 50 cycles 375 mm. 1400 RPM complete erected in position as per specification no. FGFN/EXF	AU	3649.42	50.00	182471.00
313	Supplying and erecting Exhaust fan heavy duty 230 V A.C. 50 cycles 450 mm. 1400 RPM complete erected in position as per specification no. FG- FN/EXF	AU	5028.13	20.00	100562.60
314	Supplying and erecting Exhaust fan heavy duty 440 V A.C. 50 cycles 900 RPM 375 mm complete erected in position as per specification no. FG -FN/EXF	AU	3946.04	20.00	78920.80
Accessories for Fans (FG-FN)					
315	Supplying & fixing Anchor type fastener Fan hook, with 2 Nos of 10 mm dia x 75 mm long with necessary materials for Ceiling Fan. Note: 1) Reduce overall rate by 20% if separate angle iron is provided. 2) For ceiling fans the extra down rod shall be provided only if the roof / slab height is more than 4.0 m 3) Before erection , accessories such as hook,shackle,nuts,bolts, U clamps,quater pin,down rod & checknuts shall be checked thoroughly for its quality.	AU	94.00	100.00	9400.00

316	<p>Supplying and erecting fan clamp of 30 x 5 mm. M.S. flat of required length and 10 mm. M.S. bolt and nuts erected with necessary hook of 10 mm. M.S. round bar and painted.</p> <p>Note:1) Reduce overall rate by 20% if separate angle iron is provided. 2) For ceiling fans the extra down rod shall be provided only if the roof / slab height is more than 4.0 m 3)Before erection , accessories such as hook,shackle,nuts,bolts, U clamps,quater pin,down rod & checknuts shall be checked thoroughly for its quality.</p>	AU	185.92	100.00	18592.00
317	<p>Supplying and erecting Fan hook of 10 mm. M.S. round bar grouted in RCC slab with making the site as original.</p> <p>Note:1) Reduce overall rate by 20% if separate angle iron is provided. 2) For ceiling fans the extra down rod shall be provided only if the roof / slab height is more than 4.0 m 3)Before erection , accessories such as hook,shackle,nuts,bolts, U clamps,quater pin,down rod & checknuts shall be checked thoroughly for its quality.</p>	AU	103.41	50.00	5170.50
318	<p>Supplying and erecting 'B' grade G.I.pipe/M.S. pipe down rod duly painted for fan complete erected with PVC two core flexible cable 24/0.2 mm copper PVC wire.</p> <p>Note:1) Reduce overall rate by 20% for if separate angle iron is provided. 2) For ceiling fans the extra down rod shall be provided only if the roof / slab height is more than 4.0 m 3)Before erection , accessories such as hook,shackle,nuts,bolts, U clamps,quater pin,down rod & checknuts shall be checked thoroughly for its quality.</p>	AU	201.58	200.00	40316.00
319	<p>Erection of departmentally supplied ceiling fan with necessary materials,and marking / painting the Sr. No. and date of erection by best quality enamel paint.</p> <p>Note:1) Reduce overall rate by 20% for if separate angle iron is provided. 2) For ceiling fans the extra down rod shall be provided only if the roof / slab height is more than 4.0 m 3)Before erection , accessories such as hook,shackle,nuts,bolts, U clamps,quater pin,down rod & checknuts shall be checked thoroughly for its quality.</p>	AU	50.13	30.00	1503.90
320	<p>Erection of departmentally supplied Exhaust fan with necessary materials, and marking / painting the Sr. No. and date of erection by best quality enamel paint.</p> <p>Note:1) Reduce overall rate by 20% for if separate angle iron is provided.</p>	AU	108.63	30.00	3258.90

	2) For ceiling fans the extra down rod shall be provided only if the roof / slab height is more than 4.0 m 3)Before erection , accessories such as hook,shackle,nuts,bolts, U clamps,quarter pin,down rod & checknuts shall be checked thoroughly for its quality.				
321	Supplying and erecting electronic type step regulator for ceiling fan 600/ 900/ 1200/ 1400 mm. sweep, complete erected on provided switch board.	AU	209.94	200.00	41988.00
Water Heaters (AP-WH)					
322	Supplying and erecting ISI mark midget type 3.0 Ltr instant type water heater of ABS plastic body 3 kW compling IS3412 of 1994 heating element 230/250 Volts 50 Cycle A.C. supply with inlet and outlet, thermostatic control and thermal cutoff with 3 core PVC flexible wire leads duly tested and marking Sr. No. and date of erection.(as per specification no.AP-WH/STWH)	AU	3852.04	20.00	77040.80
323	Supplying and erecting storage / pressure type Horizontal / vertical water heater 25 Liters of mild steel body, on wall / loft as per specification No. AP-WH/STWH	AU	9025.35	10.00	90253.50
324	Supplying and erecting storage/ pressure type vertical / horizontal water heater 35 Liters of mild steel body on wall / loft as per specification No. AP-WH/STWH	AU	11287.70	10.00	112877.00
325	Providing fibber reinforced PVC flexible pipe upto 1m length with brass locking nuts and washers and clips at both ends suitable for hot water complete erected in an approved manner.	AU	178.60	10.00	1786.00
SECTION III: SWITCHGEARS, DBs & Panel Boards					
LT - IC/MC Switchgears (SW-SWR)					
326	Supplying and erecting Bakelite D.P. switch surface type/ flush type 32A 250V with indicator lamp as per specification No. SW-SWR/BDP	AU	177.56	10.00	1775.60
327	Supplying and erecting double pole metal /iron clad switch with fuse and neutral link 250V 16A on iron frame/board as per specification No. SWSWR/MDP	AU	548.35	20.00	10967.00
328	Supplying and erecting double pole metal /iron clad switch with H.C. type fuse and neutral link 250V, 32A on iron frame/board as per specification No. SW-SWR/MDP	AU	934.81	20.00	18696.20
329	Supplying and erecting Triple pole metal/ iron clad switch & fuse 415/ 500V 32A on iron frame/board as per specification No. SW-SWR/MTP	AU	1477.94	30.00	44338.20
330	Supplying and erecting Triple pole metal/ iron clad HRC fuse switch 415/ 500V 63A with neutral link with ISI marked HRC fuses on angle iron frame as per specification No.SW-SWR/TPHRC.	AU	5023.95	30.00	150718.50
331	Supplying and erecting Triple pole metal/ iron clad HRC fuse switch 415/ 500 V.100 A. with neutral link with ISI marked HRC fuses on	AU	7195.43	20.00	143908.60

	angle iron frame as per specification no. SW-SWR/TPHRC				
332	Supplying and erecting Triple pole metal/ iron clad HRC fuse switch 415/ 500V 200A with neutral link with ISI marked HRC fuses on angle iron frame as per specification No. SW-SWR/TPHRC	AU	9796.18	10.00	97961.80
333	Supplying and erecting Triple pole metal / iron clad HRC fuse switch 415/ 500V 300A with neutral link with ISI marked HRC fuses, on angle iron frame as per specification No. SW-SWR/TPHRC	AU	12145.21	10.00	121452.10
334	Supplying and erecting Triple pole metal clad HRC fuse switch 415/ 500V 400A with neutral link with ISI marked HRC fuses, on angle iron frame as per specification No. SW-SWR/TPHRC	AU	17725.87	10.00	177258.70
335	Supplying and erecting Triple pole metal clad HRC fuse switch 415/ 500V 500A with neutral link with ISI marked HRC fuses, on angle iron frame as per specification No. SW-SWR/TPHRC	AU	21049.40	10.00	210494.00
336	Supplying and erecting Triple pole metal clad HRC fuse switch 415/ 500V 630A with neutral link with ISI marked HRC fuses, on angle iron frame. As per specification No. SW-SWR/TPHRC	AU	24410.54	5.00	122052.70
337	Supplying and erecting Triple pole metal clad HRC fuse switch 415/ 500V800A with neutral link with ISI marked HRC fuses, on angle iron frame as per specification No. SW-SWR/TPHRC	AU	36140.05	5.00	180700.25
IC / MC Distribution Boards					
338	Supplying and erecting metal clad distribution board approved make 250V, 4 way, 16A. per way & neutral bar connector complete erected on iron frame/ wooden plank or Board as per specification No. SW-SWR/MDB	AU	747.84	5.00	3739.20
339	Supplying and erecting metal clad distribution board approved make 250V. 8 way,16A. per way & neutral bar connector complete erected on iron frame/ wooden plank or Board as per specification no. SWSWR/MDB	AU	1132.22	10.00	11322.20
340	Supplying and erecting metal clad distribution board approved make 415/500V, 4 way, 32A. per way & neutral bar connector complete erected on iron frame/ wooden plank or Board as per specification No. SWSWR/MDB	AU	3572.12	10.00	35721.20
341	Supplying and erecting metal clad distribution board approved make 415/500V, 8 way, 32A. per way & neutral bar connector complete erected on iron frame/ wooden plank or Board as per specification No. SWSWR/MDB	AU	5812.53	10.00	58125.30
LT - MCB's (SW-MCB)					
342	Supplying, erecting & marking SPMCB 0.5A to 5A in provided distribution board as per specification No. SW-SWR/MCB Note:1)For lighting load 'B' series MCBs are to be provided and for motive power load 'C' series MCB s are to be provided	AU	254.86	20.00	5097.20

	2)For heavy duty motors, welding transformers and machines having heavy surge current MCB of 'D' type series should be provided for which rates are to be taken by increasing 10% on the material cost of rates of 'C' series				
343	Supplying, erecting & marking SPMCB 6A to 32A, C-series (for motor/power) in provided distribution board as per specification No. SWSWR/MCB Note:1)For lighting load 'B' series MCBs are to be provided and for motive power load 'C' series MCB s are to be provided 2)For heavy duty motors, welding transformers and machines having heavy surge current MCB of 'D' type series should be provided for which rates are to be taken by increasing 10% on the material cost of rates of 'C' series	AU	180.69	600.00	108414.00
344	Supplying, erecting & marking SPMCB 6A to 32A, B- series (for lighting) in provided distribution board as per specification No. SW-SWR/MCB Note:1)For lighting load 'B' series MCBs are to be provided and for motive power load 'C' series MCB s are to be provided 2)For heavy duty motors, welding transformers and machines having heavy surge current MCB of 'D' type series should be provided for which rates are to be taken by increasing 10% on the material cost of rates of 'C' series	AU	169.21	600.00	101526.00
345	Supplying, erecting & marking SPMCB 40A to 63A C- series (for motor/power) in provided distribution board as per specification No. SWSWR/MCB Note:1)For lighting load 'B' series MCBs are to be provided and for motive power load 'C' series MCB s are to be provided 2)For heavy duty motors, welding transformers and machines having heavy surge current MCB of 'D' type series should be provided for which rates are to be taken by increasing 10% on the material cost of rates of 'C' series	AU	361.39	50.00	18069.50
346	Supplying, erecting & marking SPMCB 40A to 63A, B- series (for lighting) in provided distribution board as per specification No. SW-SWR/MCB Note:1)For lighting load 'B' series MCBs are to be provided and for motive power load 'C' series MCB s are to be provided 2)For heavy duty motors, welding transformers and machines having heavy surge current MCB of 'D' type series should be provided for which rates are to be taken by increasing 10% on the material cost of rates of 'C' series	AU	339.46	50.00	16973.00
347	Supplying, erecting & marking DPMCB 6A to 32A, C- series (for motor/power) in provided distribution board as per specification No.	AU	538.95	50.00	26947.50

	SWSWR/ MCB				
	Note:1)For lighting load 'B' series MCBs are to be provided and for motive power load 'C' series MCB s are to be provided 2)For heavy duty motors, welding transformers and machines having heavy surge current MCB of 'D' type series should be provided for which rates are to be taken by increasing 10% on the material cost of rates of 'C' series				
348	Supplying, erecting & marking DPMCB 6 A to 32 A B- series (for lighting) in provided distribution board as per specification no. SW-SWR/MCB Note:1)For lighting load 'B' series MCBs are to be provided and for motive power load 'C' series MCB s are to be provided 2)For heavy duty motors, welding transformers and machines having heavy surge current MCB of 'D' type series should be provided for which rates are to be taken by increasing 10% on the material cost of rates of 'C' series	AU	497.17	50.00	24858.50
349	Supplying, erecting & marking DPMCB 40A to 63A, C- series (for motor/power) in provided distribution board as per specification No. SWSWR/MCB Note:1)For lighting load 'B' series MCBs are to be provided and for motive power load 'C' series MCB s are to be provided 2)For heavy duty motors, welding transformers and machines having heavy surge current MCB of 'D' type series should be provided for which rates are to be taken by increasing 10% on the material cost of rates of 'C' series	AU	738.45	20.00	14769.00
350	Supplying, erecting & marking DPMCB 40A to 63A, B- series (for lighting) in provided distribution board as per specification No. SW-SWR/MCB Note:1)For lighting load 'B' series MCBs are to be provided and for motive power load 'C' series MCB s are to be provided 2)For heavy duty motors, welding transformers and machines having heavy surge current MCB of 'D' type series should be provided for which rates are to be taken by increasing 10% on the material cost of rates of 'C' series	AU	686.23	20.00	13724.60
351	Supplying, erecting & marking TPMCB 6 A to 32A in provided distribution board as per specification No. SW-SWR/MCB Note:1)For lighting load 'B' series MCBs are to be provided and for motive power load 'C' series MCB s are to be provided 2)For heavy duty motors, welding transformers	AU	809.47	50.00	40473.50

	and machines having heavy surge current MCB of 'D' type series should be provided for which rates are to be taken by increasing 10% on the material cost of rates of 'C' series				
352	Supplying, erecting & marking TPMCB 40A to 63A in provided distribution board as per specification No. SW-SWR/MCB Note:1)For lighting load 'B' series MCBs are to be provided and for motive power load 'C' series MCB s are to be provided 2)For heavy duty motors, welding transformers and machines having heavy surge current MCB of 'D' type series should be provided for which rates are to be taken by increasing 10% on the material cost of rates of 'C' series	AU	1076.85	100.00	107685.00
353	Supplying, erecting & marking FPMCB 6A to 32A in provided distribution board as per specification No. SW-SWR/MCB Note:1)For lighting load 'B' series MCBs are to be provided and for motive power load 'C' series MCB s are to be provided 2)For heavy duty motors, welding transformers and machines having heavy surge current MCB of 'D' type series should be provided for which rates are to be taken by increasing 10% on the material cost of rates of 'C' series	AU	1115.50	100.00	111550.00
354	Supplying, erecting & marking FPMCB 40A to 63A in provided distribution board as per specification No. SW-SWR/MCB Note:1)For lighting load 'B' series MCBs are to be provided and for motive power load 'C' series MCB s are to be provided 2)For heavy duty motors, welding transformers and machines having heavy surge current MCB of 'D' type series should be provided for which rates are to be taken by increasing 10% on the material cost of rates of 'C' series	AU	1453.92	50.00	72696.00
355	Supplying, erecting & marking TPN MCB 6A to 32A, C- series in provided distribution board as per specification No. SW-SWR/MCB Note:1)For lighting load 'B' series MCBs are to be provided and for motive power load 'C' series MCB s are to be provided 2)For heavy duty motors, welding transformers and machines having heavy surge current MCB of 'D' type series should be provided for which rates are to be taken by increasing 10% on the material cost of rates of 'C' series	AU	1030.90	20.00	20618.00
356	Supplying, erecting & marking TPN MCB 40A to 63A, C- Series in provided distribution board as per specification No. SW-SWR/MCB Note:1)For lighting load 'B' series MCBs are to be provided and for motive power load 'C'	AU	1369.31	10.00	13693.10

	series MCB s are to be provided 2)For heavy duty motors, welding transformers and machines having heavy surge current MCB of 'D' type series should be provided for which rates are to be taken by increasing 10% on the material cost of rates of 'C' series				
357	Supplying erecting and marking double pole isolator only switch version of miniature circuit breaker (Conforming to IS:8828 of1996) of 40A with required wiring connections and lugs etc. in provided distribution board. Note:1)For lighting load 'B' series MCBs are to be provided and for motive power load 'C' series MCB s are to be provided 2)For heavy duty motors, welding transformers and machines having heavy surge current MCB of 'D' type series should be provided for which rates are to be taken by increasing 10% on the material cost of rates of 'C' series	AU	331.10	10.00	3311.00
358	Supplying erecting and marking Four pole isolators only switch version of miniature circuit breakers of 40A in provided distribution board. Note:1)For lighting load 'B' series MCBs are to be provided and for motive power load 'C' series MCB s are to be provided 2)For heavy duty motors, welding transformers and machines having heavy surge current MCB of 'D' type series should be provided for which rates are to be taken by increasing 10% on the material cost of rates of 'C' series	AU	731.14	10.00	7311.40
359	Supplying erecting and marking Four pole isolators only switch version of miniature circuit breakers of 63A in provided distribution board. Note:1)For lighting load 'B' series MCBs are to be provided and for motive power load 'C' series MCB s are to be provided 2)For heavy duty motors, welding transformers and machines having heavy surge current MCB of 'D' type series should be provided for which rates are to be taken by increasing 10% on the material cost of rates of 'C' series	AU	754.12	5.00	3770.60
360	Supplying erecting and marking Four pole isolators only switch version of miniature circuit breakers of 80/100A in provided distribution board. Note:1)For lighting load 'B' series MCBs are to be provided and for motive power load 'C' series MCB s are to be provided 2)For heavy duty motors, welding transformers and machines having heavy surge current MCB of 'D' type series should be provided for which rates are to be taken by increasing 10%	AU	946.29	5.00	4731.45

	on the material cost of rates of 'C' series				
	LT - MCBDB's (SW-MCBDB)				
361	<p>Supplying & erecting triple pole and neutral distribution board (TPNDB) surface/ flush mounted, suitable for SPMCB of 12 ways, on iron frame/wooden board.(Horizontal type) as per specification No. SW-SWR/MCBDB</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) Above rates are applicable only to factory made enclosures. 3) Reduce overall rates by 5% if angle iron frame / wooden board is not required. 4) MCB's (double pole, four pole or triple pole & neutral) & isolators for single phase circuits shall not be incorporated for outgoing circuits of three phase distribution board. 5) For more than 5 kW load RCCB shall invariably be provided & erected preferably on the same distribution board. (RCCB+MCB) or (RCCB+MCCB etc.) separate box for RCCB/ELCB is not permissible. 6) Above rates are for branded DB's with provision of same brand interior switchgears and if other than branded are used reduce material rate by 10% . 7) The MCBDB is exclusive of incoming MCB/MCCB and outgoing SP/TP MCB's and the same should be preferably of the same make</p>	AU	2096.27	20.00	41925.40
362	<p>Supplying & erecting triple pole and neutral distribution board (TPNDB) surface/ flush mounted suitable for SPMCB of 24 ways, on iron frame/wooden board.(Horizontal type) as per specification No. SW-SWR/MCBDB</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) Above rates are applicable only to factory made enclosures. 3) Reduce overall rates by 5% if angle iron frame / wooden board is not required. 4) MCB's (double pole, four pole or triple pole & neutral) & isolators for single phase circuits shall not be incorporated for outgoing circuits of three phase distribution board. 5) For more than 5 kW load RCCB shall invariably be provided & erected preferably on the same distribution board. (RCCB+MCB) or (RCCB+MCCB etc.) separate box for RCCB/ELCB is not permissible. 6) Above rates are for branded DB's with provision of same brand interior switchgears and if other than branded are used reduce material rate by 10% . 7) The MCBDB is exclusive of incoming MCB/MCCB and outgoing SP/TP MCB's and the same should be preferably of the same make</p>	AU	2732.36	100.00	273236.00
363	Supplying & erecting triple pole and neutral	AU	3516.77	50.00	175838.50

	<p>distribution board (TPNDB) surface/ flush mounted suitable for SPMCB of 36 ways, on iron frame/wooden board.(Horizontal type) as per specification No. SW-SWR/MCBDB</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) Above rates are applicable only to factory made enclosures. 3) Reduce overall rates by 5% if angle iron frame / wooden board is not required. 4) MCB's (double pole, four pole or triple pole & neutral) & isolators for single phase circuits shall not be incorporated for outgoing circuits of three phase distribution board. 5) For more than 5 kW load RCCB shall invariably be provided & erected preferably on the same distribution board. (RCCB+MCB) or (RCCB+MCCB etc.) separate box for RCCB/ELCB is not permissible. 6) Above rates are for branded DB's with provision of same brand interior switchgears and if other than branded are used reduce material rate by 10% . 7) The MCBDB is exclusive of incoming MCB/MCCB and outgoing SP/TP MCB's and the same should be preferably of the same make</p>				
364	<p>Supplying & erecting triple pole and neutral distribution board (TPNDB) surface/ flush mounted SP /TP MCBs of total 12 ways, on iron frame/wooden board.(Vertical Busbar type) as per specification No. SW-SWR/MCBDB</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) Above rates are applicable only to factory made enclosures. 3) Reduce overall rates by 5% if angle iron frame / wooden board is not required. 4) MCB's (double pole, four pole or triple pole & neutral) & isolators for single phase circuits shall not be incorporated for outgoing circuits of three phase distribution board. 5) For more than 5 kW load RCCB shall invariably be provided & erected preferably on the same distribution board. (RCCB+MCB) or (RCCB+MCCB etc.) separate box for RCCB/ELCB is not permissible. 6) Above rates are for branded DB's with provision of same brand interior switchgears and if other than branded are used reduce material rate by 10% . 7) The MCBDB is exclusive of incoming MCB/MCCB and outgoing SP/TP MCB's and the same should be preferably of the same make</p>	AU	4208.21	25.00	105205.25
365	<p>Supplying & erecting triple pole and neutral distribution board (TPNDB) surface/ flush mounted SP / TP of total 24 ways on iron frame/wooden board. (Vertical Busbar type) as</p>	AU	5578.56	30.00	167356.80

	<p>per specification No. SW-SWR/MCBDB</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) Above rates are applicable only to factory made enclosures. 3) Reduce overall rates by 5% if angle iron frame / wooden board is not required. 4) MCB's (double pole, four pole or triple pole & neutral) & isolators for single phase circuits shall not be incorporated for outgoing circuits of three phase distribution board. 5) For more than 5 kW load RCCB shall invariably be provided & erected preferably on the same distribution board. (RCCB+MCB) or (RCCB+MCCB etc.) separate box for RCCB/ELCB is not permissible. 6) Above rates are for branded DB's with provision of same brand interior switchgears and if other than branded are used reduce material rate by 10% . 7) The MCBDB is exclusive of incoming MCB/MCCB and outgoing SP/TP MCB's and the same should be preferably of the same make</p>				
366	<p>Supplying & erecting triple pole and neutral distribution board (TPNDB) surface/ flush mounted SP / TP MCB of total 36 ways on iron frame/wooden board (Vertical Busbar type) as per specification No. SW-SWR/MCBDB</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) Above rates are applicable only to factory made enclosures. 3) Reduce overall rates by 5% if angle iron frame / wooden board is not required. 4) MCB's (double pole, four pole or triple pole & neutral) & isolators for single phase circuits shall not be incorporated for outgoing circuits of three phase distribution board. 5) For more than 5 kW load RCCB shall invariably be provided & erected preferably on the same distribution board. (RCCB+MCB) or (RCCB+MCCB etc.) separate box for RCCB/ELCB is not permissible. 6) Above rates are for branded DB's with provision of same brand interior switchgears and if other than branded are used reduce material rate by 10% . 7) The MCBDB is exclusive of incoming MCB/MCCB and outgoing SP/TP MCB's and the same should be preferably of the same make</p>	AU	7021.00	30.00	210630.00
367	<p>Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted SPMCB of 12 ways, on iron frame/wooden board.(Horizontal type) as per specification No. SW-SWR/MCBDB</p> <p>Note:- 1) All MCB's shall have breaking</p>	AU	2668.65	30.00	80059.50

	<p>capacity not less than 10 kA.</p> <p>2) Above rates are applicable only to factory made enclosures.</p> <p>3) Reduce overall rates by 5% if angle iron frame / wooden board is not required.</p> <p>4) MCB's (double pole, four pole or triple pole & neutral) & isolators for single phase circuits shall not be incorporated for outgoing circuits of three phase distribution board.</p> <p>5) For more than 5 kW load RCCB shall invariably be provided & erected preferably on the same distribution board. (RCCB+MCB) or (RCCB+MCCB etc.) separate box for RCCB/ELCB is not permissible.</p> <p>6) Above rates are for branded DB's with provision of same brand interior switchgears and if other than branded are used reduce material rate by 10% .</p> <p>7) The MCBDB is exclusive of incoming MCB/MCCB and outgoing SP/TP MCB's and the same should be preferably of the same make</p>				
368	<p>Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted SPMCB of 24 ways, on iron frame/wooden board.(Horizontal type) as per specification No. SW-SWR/MCBDB</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) Above rates are applicable only to factory made enclosures. 3) Reduce overall rates by 5% if angle iron frame / wooden board is not required. 4) MCB's (double pole, four pole or triple pole & neutral) & isolators for single phase circuits shall not be incorporated for outgoing circuits of three phase distribution board. 5) For more than 5 kW load RCCB shall invariably be provided & erected preferably on the same distribution board. (RCCB+MCB) or (RCCB+MCCB etc.) separate box for RCCB/ELCB is not permissible. 6) Above rates are for branded DB's with provision of same brand interior switchgears and if other than branded are used reduce material rate by 10% . 7) The MCBDB is exclusive of incoming MCB/MCCB and outgoing SP/TP MCB's and the same should be preferably of the same make</p>	AU	3872.93	50.00	193646.50
369	<p>Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted SPMCB of 12 ways (36 Poles) on iron frame/wooden board. (Horizontal Busbar type) as per specification no. SW-SWR/MCBDB</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) Above rates are applicable only to factory made enclosures.</p>	AU	5130.49	30.00	153914.70

	<p>3) Reduce overall rates by 5% if angle iron frame / wooden board is not required.</p> <p>4) MCB's (double pole, four pole or triple pole & neutral) & isolators for single phase circuits shall not be incorporated for outgoing circuits of three phase distribution board.</p> <p>5) For more than 5 kW load RCCB shall invariably be provided & erected preferably on the same distribution board. (RCCB+MCB) or (RCCB+MCCB etc,) separate box for RCCB/ELCB is not permissible.</p> <p>6) Above rates are for branded DB's with provision of same brand interior switchgears and if other than branded are used reduce material rate by 10% .</p> <p>7) The MCBDB is exclusive of incoming MCB/MCCB and outgoing SP/TP MCB's and the same should be preferably of the same make</p>				
370	<p>Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted SP / TP MCBs total 12 ways, on iron frame/wooden board.(Vertical Busbar type) as per specification No. SW-SWR/MCBDB</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) Above rates are applicable only to factory made enclosures. 3) Reduce overall rates by 5% if angle iron frame / wooden board is not required. 4) MCB's (double pole, four pole or triple pole & neutral) & isolators for single phase circuits shall not be incorporated for outgoing circuits of three phase distribution board. 5) For more than 5 kW load RCCB shall invariably be provided & erected preferably on the same distribution board. (RCCB+MCB) or (RCCB+MCCB etc,) separate box for RCCB/ELCB is not permissible. 6) Above rates are for branded DB's with provision of same brand interior switchgears and if other than branded are used reduce material rate by 10% . 7) The MCBDB is exclusive of incoming MCB/MCCB and outgoing SP/TP MCB's and the same should be preferably of the same make</p>	AU	5410.41	20.00	108208.20
371	<p>Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted SP / TP MCBs 24 Poles on iron frame/wooden board. (Vertical Busbar type) as per specification No. SW-SWR/MCBDB</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) Above rates are applicable only to factory made enclosures. 3) Reduce overall rates by 5% if angle iron frame / wooden board is not required. 4) MCB's (double pole, four pole or triple pole</p>	AU	6793.30	20.00	135866.00

	<p>& neutral) & isolators for single phase circuits shall not be incorporated for outgoing circuits of three phase distribution board.</p> <p>5) For more than 5 kW load RCCB shall invariably be provided & erected preferably on the same distribution board. (RCCB+MCB) or (RCCB+MCCB etc.) separate box for RCCB/ELCB is not permissible.</p> <p>6) Above rates are for branded DB's with provision of same brand interior switchgears and if other than branded are used reduce material rate by 10% .</p> <p>7) The MCBDB is exclusive of incoming MCB/MCCB and outgoing SP/TP MCB's and the same should be preferably of the same make</p>				
372	<p>Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted SP / TP MCBs of total 36 ways on iron frame/wooden board. (Vertical Busbar type) as per specification No. SW-SWR/MCBDB</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) Above rates are applicable only to factory made enclosures. 3) Reduce overall rates by 5% if angle iron frame / wooden board is not required. 4) MCB's (double pole, four pole or triple pole & neutral) & isolators for single phase circuits shall not be incorporated for outgoing circuits of three phase distribution board. 5) For more than 5 kW load RCCB shall invariably be provided & erected preferably on the same distribution board. (RCCB+MCB) or (RCCB+MCCB etc.) separate box for RCCB/ELCB is not permissible. 6) Above rates are for branded DB's with provision of same brand interior switchgears and if other than branded are used reduce material rate by 10% . 7) The MCBDB is exclusive of incoming MCB/MCCB and outgoing SP/TP MCB's and the same should be preferably of the same make</p>	AU	8130.24	20.00	162604.80
373	<p>Supplying, erecting and marking enclosure Single pole and neutral distribution board (SPNDB) one way for SPMCB 1 No on iron frame/wooden board as per specification No. SWSWR/ MCBDB</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) Above rates are applicable only to factory made enclosures. 3) Reduce overall rates by 5% if angle iron frame / wooden board is not required. 4) MCB's (double pole, four pole or triple pole & neutral) & isolators for single phase circuits shall not be incorporated for outgoing circuits of three phase distribution board.</p>	AU	267.38	20.00	5347.60

	<p>5) For more than 5 kW load RCCB shall invariably be provided & erected preferably on the same distribution board. (RCCB+MCB) or (RCCB+MCCB etc.) separate box for RCCB/ELCB is not permissible.</p> <p>6) Above rates are for branded DB's with provision of same brand interior switchgears and if other than branded are used reduce material rate by 10% .</p> <p>7) The MCBDB is exclusive of incoming MCB/MCCB and outgoing SP/TP MCB's and the same should be preferably of the same make</p>				
374	<p>Supplying and erecting single pole and neutral distribution board (SPNDB) surface/flush mounted with 2 ways for incoming and 4 ways for outgoing SPMCBs on iron frame/wooden board, as per specification no. SWSWR/MCBDB</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) Above rates are applicable only to factory made enclosures. 3) Reduce overall rates by 5% if angle iron frame / wooden board is not required. 4) MCB's (double pole, four pole or triple pole & neutral) & isolators for single phase circuits shall not be incorporated for outgoing circuits of three phase distribution board. 5) For more than 5 kW load RCCB shall invariably be provided & erected preferably on the same distribution board. (RCCB+MCB) or (RCCB+MCCB etc.) separate box for RCCB/ELCB is not permissible. 6) Above rates are for branded DB's with provision of same brand interior switchgears and if other than branded are used reduce material rate by 10% . 7) The MCBDB is exclusive of incoming MCB/MCCB and outgoing SP/TP MCB's and the same should be preferably of the same make</p>	AU	796.94	20.00	15938.80
375	<p>Supplying and erecting single pole and neutral distribution board (SPNDB) surface/flush mounted with 2 ways for incoming and 8 ways for outgoing SP MCB's on iron frame/wooden board as per specification No. SW-SWR/MCBDB</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) Above rates are applicable only to factory made enclosures. 3) Reduce overall rates by 5% if angle iron frame / wooden board is not required. 4) MCB's (double pole, four pole or triple pole & neutral) & isolators for single phase circuits shall not be incorporated for outgoing circuits of three phase distribution board. 5) For more than 5 kW load RCCB shall invariably be provided & erected preferably on</p>	AU	913.92	20.00	18278.40

	<p>the same distribution board. (RCCB+MCB) or (RCCB+MCCB etc.) separate box for RCCB/ELCB is not permissible.</p> <p>6) Above rates are for branded DB's with provision of same brand interior switchgears and if other than branded are used reduce material rate by 10% .</p> <p>7) The MCBDB is exclusive of incoming MCB/MCCB and outgoing SP/TP MCB's and the same should be preferably of the same make</p>				
376	<p>Supplying and erecting single pole and neutral distribution board (SPNDB) surface/flush mounted with 2 ways for incoming and 12 ways for outgoing SP MCB's on iron frame/wooden board as per specification No. SW-SWR/MCBDB</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) Above rates are applicable only to factory made enclosures. 3) Reduce overall rates by 5% if angle iron frame / wooden board is not required. 4) MCB's (double pole, four pole or triple pole & neutral) & isolators for single phase circuits shall not be incorporated for outgoing circuits of three phase distribution board. 5) For more than 5 kW load RCCB shall invariably be provided & erected preferably on the same distribution board. (RCCB+MCB) or (RCCB+MCCB etc.) separate box for RCCB/ELCB is not permissible. 6) Above rates are for branded DB's with provision of same brand interior switchgears and if other than branded are used reduce material rate by 10% . 7) The MCBDB is exclusive of incoming MCB/MCCB and outgoing SP/TP MCB's and the same should be preferably of the same make</p>	AU	1113.41	20.00	22268.20
377	<p>Supplying and erecting single pole and neutral distribution board (SPNDB) with door surface/flush mounted with 2 ways for incoming and 4 ways for outgoing SP MCB's on iron frame/wooden board as per specification No. SW-SWR/MCBDB</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) Above rates are applicable only to factory made enclosures. 3) Reduce overall rates by 5% if angle iron frame / wooden board is not required. 4) MCB's (double pole, four pole or triple pole & neutral) & isolators for single phase circuits shall not be incorporated for outgoing circuits of three phase distribution board. 5) For more than 5 kW load RCCB shall invariably be provided & erected preferably on the same distribution board. (RCCB+MCB) or (RCCB+MCCB etc.) separate box for</p>	AU	1106.11	30.00	33183.30

	<p>RCCB/ELCB is not permissible.</p> <p>6) Above rates are for branded DB's with provision of same brand interior switchgears and if other than branded are used reduce material rate by 10% .</p> <p>7) The MCBDB is exclusive of incoming MCB/MCCB and outgoing SP/TP MCB's and the same should be preferably of the same make</p>				
378	<p>Supplying and erecting single pole and neutral distribution board (SPNDB) with door surface/flush mounted with 2 ways for incoming and 8 ways for outgoing SP MCB's on iron frame/wooden board as per specification No. SW-SWR/MCBDB</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) Above rates are applicable only to factory made enclosures. 3) Reduce overall rates by 5% if angle iron frame / wooden board is not required. 4) MCB's (double pole, four pole or triple pole & neutral) & isolators for single phase circuits shall not be incorporated for outgoing circuits of three phase distribution board. 5) For more than 5 kW load RCCB shall invariably be provided & erected preferably on the same distribution board. (RCCB+MCB) or (RCCB+MCCB etc,) separate box for RCCB/ELCB is not permissible. 6) Above rates are for branded DB's with provision of same brand interior switchgears and if other than branded are used reduce material rate by 10% . 7) The MCBDB is exclusive of incoming MCB/MCCB and outgoing SP/TP MCB's and the same should be preferably of the same make</p>	AU	1344.25	20.00	26885.00
379	<p>Supplying and erecting single pole and neutral distribution board (SPNDB) with door surface/flush mounted with 2 ways for incoming and 12 ways for outgoing SP MCB's on iron frame/wooden board as per specification No. SW-SWR/MCBDB</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) Above rates are applicable only to factory made enclosures. 3) Reduce overall rates by 5% if angle iron frame / wooden board is not required. 4) MCB's (double pole, four pole or triple pole & neutral) & isolators for single phase circuits shall not be incorporated for outgoing circuits of three phase distribution board. 5) For more than 5 kW load RCCB shall invariably be provided & erected preferably on the same distribution board. (RCCB+MCB) or (RCCB+MCCB etc,) separate box for RCCB/ELCB is not permissible. 6) Above rates are for branded DB's with</p>	AU	1644.02	20.00	32880.40

	provision of same brand interior switchgears and if other than branded are used reduce material rate by 10% . 7) The MCBDB is exclusive of incoming MCB/MCCB and outgoing SP/TP MCB's and the same should be preferably of the same make				
380	Supplying & erecting original 1.25 mm CRCA sheet metal enclosures with 20A. 2 pin plug & earth socket and 20A. 3 pin plug top with 20A/30A single pole MCB complete erected on angle iron frame.	AU	913.92	100.00	91392.00
381	Supplying & erecting original 1.25 mm CRCA sheet metal enclosures with 30 A, 3 pin plug & earth socket and 30 A 3 pin plug top with 30 A. triple pole MCB complete erected on angle iron frame.	AU	1992.87	30.00	59786.10
382	Supplying & erecting original 1.25 mm CRCA sheet metal enclosures with 10A. 2 pin plug and earth socket and 10A, 3 pin plug top with 10A single pole miniature circuit breakers complete erected on angle iron frame.	AU	870.05	20.00	17401.00
383	Supplying & erecting CRCA sheet metal one way enclosures suitable for D.P.M.C.B. /T.P. M.C.B. /F.P M.C.B. complete erected on angle iron frame.	AU	431.37	20.00	8627.40
384	Supplying and erecting blanking plate of suitable size on MCB DB	AU	14.63	20.00	292.60
385	Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted suitable for 3 Pole MCCB as Incommer & outgoing SP MCB (12 Poles) or TP MCB of 4 ways (12 Poles) on iron frame. (Vertical Busbar type) as per specification no. SW-SWR/MCBDB1 Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) Above rates are applicable only to factory made enclosures. 3) Reduce overall rates by 5% if angle iron frame / wooden board is not required. 4) MCB's (double pole, four pole or triple pole & neutral) & isolators for single phase circuits shall not be incorporated for outgoing circuits of three phase distribution board. 5) For more than 5 kW load RCCB shall invariably be provided & erected preferably on the same distribution board. (RCCB+MCB) or (RCCB+MCCB etc.) separate box for RCCB/ELCB is not permissible. 6) Above rates are for branded DB's with provision of same brand interior switchgears and if other than branded are used reduce material rate by 10% . 7) The MCBDB is exclusive of incoming MCB/MCCB and outgoing SP/TP MCB's and the same should be preferably of the same make	AU	6464.29	10.00	64642.90
386	Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/	AU	7465.94	10.00	74659.40

	<p>flush mounted suitable for 3 Pole MCCB as Incommer & outgoing SP MCB (24 Poles) or TP MCB of 8 ways (24 Poles) , on iron frame. (Vertical Busbar type) as per specification No. SW-SWR/MCBDB1</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) Above rates are applicable only to factory made enclosures. 3) Reduce overall rates by 5% if angle iron frame / wooden board is not required. 4) MCB's (double pole, four pole or triple pole & neutral) & isolators for single phase circuits shall not be incorporated for outgoing circuits of three phase distribution board. 5) For more than 5 kW load RCCB shall invariably be provided & erected preferably on the same distribution board. (RCCB+MCB) or (RCCB+MCCB etc.) separate box for RCCB/ELCB is not permissible. 6) Above rates are for branded DB's with provision of same brand interior switchgears and if other than branded are used reduce material rate by 10% . 7) The MCBDB is exclusive of incoming MCB/MCCB and outgoing SP/TP MCB's and the same should be preferably of the same make</p>				
387	<p>Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted suitable for 3 Pole MCCB as Incommer & outgoing SP MCB (36 Poles) or TP MCB of 12 ways (36 Poles) on iron frame. (Vertical Busbar type) as per specification No. SW-SWR/MCBDB1</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) Above rates are applicable only to factory made enclosures. 3) Reduce overall rates by 5% if angle iron frame / wooden board is not required. 4) MCB's (double pole, four pole or triple pole & neutral) & isolators for single phase circuits shall not be incorporated for outgoing circuits of three phase distribution board. 5) For more than 5 kW load RCCB shall invariably be provided & erected preferably on the same distribution board. (RCCB+MCB) or (RCCB+MCCB etc.) separate box for RCCB/ELCB is not permissible. 6) Above rates are for branded DB's with provision of same brand interior switchgears and if other than branded are used reduce material rate by 10% . 7) The MCBDB is exclusive of incoming MCB/MCCB and outgoing SP/TP MCB's and the same should be preferably of the same make</p>	AU	7540.11	10.00	75401.10
	LT - MCCB's (SW-MCCB)				

388	Providing & erecting 3 Pole MCCB upto 100A of 25kA SC rating, thermal and magnetic setting with provided leads on iron frame/laminated board as per specification No. SW-SWR/MCCB Note:for use of 4 pole MCCB in place of 3 pole MCCB add 30% in overall rate of 3 pole MCCB	AU	5093.93	30.00	152817.90
389	Providing & erecting 3 Pole MCCB of 200A,415V capacity with S.C. rating 25 kA (Ics=100% of Icu) thermal and magnetic setting with provided leads on iron frame/wooden board as per specification no. SW-SWR/MCCB Note:For use of 4pole MCCB in place of 3pole MCCB add 30% in overall rate of 3 pole MCCB.	AU	14822.21	20.00	296444.20
390	Providing & erecting 3 Pole MCCB of 250A,415V capacity with S.C. rating 36 kA (Ics=100% of Icu),thermal and magnetic setting with provided leads on iron frame/wooden board as per specification No. SW-SWR/MCCB Note:for use of 4 pole MCCB in place of 3 pole MCCB add 30% in overall rate of 3 pole MCCB	AU	18461.18	10.00	184611.80
391	Providing & erecting 3 Pole MCCB of 315/400A, 415V capacity with S.C. rating 36 kA (Ics=100% of Icu), thermal and magnetic setting with provided leads on iron frame as per specification No. SW-SWR/MCCB Note:for use of 4 pole MCCB in place of 3 pole MCCB add 30% in overall rate of 3 pole MCCB	AU	22417.67	10.00	224176.70
392	Providing & erecting 3 Pole MCCB of 600/630 A, 415V capacity with S.C. rating 36 kA (Ics=100% of Icu), thermal and magnetic setting with provided leads on iron frame as per specification No. SW-SWR/MCCB Note:for use of 4 pole MCCB in place of 3 pole MCCB add 30% in overall rate of 3 pole MCCB	AU	27718.41	10.00	277184.10
393	Providing & erecting 3 Pole MCCB of 800A. capacity with S C rating of 50 kA, thermal and magnetic setting with provided leads on iron frame as per specification No. SW-SWR/MCCB Note:for use of 4 pole MCCB in place of 3 pole MCCB add 30% in overall rate of 3 pole MCCB	AU	33717.91	5.00	168589.55
RCCB (SW-RCCB)					
394	Providing, erecting & commissioning RCCB only of electro magnetic type with 20 kA breaking capacity of 16/25 A. 2 pole , complete as per specification No. SW-RCCB/RCCB	AU	2210.12	50.00	110506.00
395	Providing, erecting & commissioning RCCB only of electro magnetic type with 20 kA breaking capacity of 40 A. 2 pole, complete as per specification No. SW-RCCB/RCCB	AU	2297.86	50.00	114893.00
396	Providing, erecting & commissioning RCCB	AU	2874.41	50.00	143720.50

	only of electro magnetic type with 20 KA breaking capacity of 40A. 4 pole, complete as per specification No. SW-RCCB/RCCB				
397	Providing, erecting & commissioning RCCB of electro magnetic type with 20 kA breaking capacity of 63A. 4 pole, complete as per specification No. SW-RCCB/RCCB	AU	3205.51	50.00	160275.50
398	Supplying, fixing and commissioning RCCB+MCB, electro magnetic type 6 kA. breaking capacity of 32A/40A 4 Pole, Sensitivity phase as per specification No. SW-RCCB/RCCB	AU	3683.88	50.00	184194.00
399	Supplying & fixing CRCA sheet Box with earthing terminals for housing 2 Pole RCCB/RCCB+MCB complete on iron frame/laminated board.	AU	209.94	20.00	4198.80
400	Supplying & fixing CRCA sheet Box with earthing terminals for housing 4 Pole RCCB/RCCB+MCB complete on iron frame/laminated board	AU	272.61	20.00	5452.20
MCCB Panel Boards and Accessories (SWSWR-MCCBPB)					
401	Providing & erecting Floor / Wall mounting, MCCB Panel board suitable for Four Pole Incoming 250A, 2 ways Four pole outgoing on provided iron frame, as per Specification No SWSWR/ MCCBPB.(Excluding MCCB'S) Note:1) The MCCB panel board and cable alleys from above items are interconnected and should be of same make only and factory made only. 2) The MCCB panel board is exclusive of incoming and outgoing MCCB's and the same should be preferably of the same make. 3) In the MCCB panel both FP/TP MCCB's as incomer and FP/TP/ SP MCCB's can be provided as outgoing.	AU	38972.68	10.00	389726.80
402	Providing & erecting Floor / Wall mounting, MCCB Panel board suitable for Four Pole Incoming 250A, 4 ways Four pole outgoing on provided iron frame, as per Specification No SW-SWR/MCCBPB. (Excluding MCCB'S) Note:1) The MCCB panel board and cable alleys from above items are interconnected and should be of same make only and factory made only. 2) The MCCB panel board is exclusive of incoming and outgoing MCCB's and the same should be preferably of the same make. 3) In the MCCB panel both FP/TP MCCB's as incomer and FP/TP/ SP MCCB's can be provided as outgoing.	AU	44642.12	10.00	446421.20
403	Providing & erecting Floor / Wall mounting, MCCB Panel board suitable for Four Pole Incoming 250A, 6 ways Four pole outgoing on provided iron frame, as per Specification No SW-SWR/MCCBPB. (Excluding MCCB'S)	AU	51186.83	10.00	511868.30

	Note:1) The MCCB panel board and cable alleys from above items are interconnected and should be of same make only and factory made only. 2) The MCCB panel board is exclusive of incoming and outgoing MCCB's and the same should be preferably of the same make. 3) In the MCCB panel both FP/TP MCCB's as incomer and FP/TP/ SP MCCB's can be provided as outgoing.				
404	Providing & erecting Floor / Wall mounting, MCCB Panel board suitable for Four Pole Incoming 400 A, 6 ways Four pole outgoing on provided iron frame, as per Specification No SW-SWR/MCCBPB. (Excluding MCCB'S) Note:1) The MCCB panel board and cable alleys from above items are interconnected and should be of same make only and factory made only. 2) The MCCB panel board is exclusive of incoming and outgoing MCCB's and the same should be preferably of the same make. 3) In the MCCB panel both FP/TP MCCB's as incomer and FP/TP/ SP MCCB's can be provided as outgoing.	AU	60229.94	10.00	602299.40
405	Supplying and erecting terminal spreaders for use on MCCB incoming and outgoing terminals for 3 pole upto 100A MCCB.	AU	162.93	10.00	1629.30
406	Supplying and erecting terminal spreaders for use on MCCB incoming and outgoing terminals for 3 pole upto 100A MCCB.	AU	900.34	10.00	9003.40
407	Supplying and erecting terminal spreaders for use on MCCB incoming and outgoing terminals for 3 pole upto 400A MCCB.	AU	1828.88	10.00	18288.80
408	Supplying and erecting terminal spreaders for use on MCCB incoming and outgoing terminals for 3 pole upto 630A MCCB.	AU	2044.05	10.00	20440.50
409	Supplying and erecting terminal spreaders for use on MCCB incoming and outgoing terminals for 3 pole upto 800A MCCB.	AU	3548.10	10.00	35481.00
410	Supplying and erecting extended rotary handle for MCCB with adjustable telescopic rod suitable for upto 100A MCCB.	AU	1334.84	10.00	13348.40
411	Supplying and erecting extended rotary handle for MCCB with adjustable telescopic rod suitable for upto 100-250A MCCB.	AU	1378.71	10.00	13787.10
412	Supplying and erecting extended rotary handle for MCCB with adjustable telescopic rod suitable for 800A MCCB.	AU	3197.15	10.00	31971.50
413	Supplying and erecting SS enclosure for MCCB suitable for upto 100A MCCB.	AU	719.65	10.00	7196.50
414	Supplying and erecting SS enclosure for MCCB suitable for 100 to 200A MCCB.	AU	1325.45	10.00	13254.50
	SHEETS				
415	Providing and fixing sheet metal work in CRCA sheet with fabrication of boxes panel boards etc. including cutting, bending, drilling, welding, rivetting etc. treated with anti-rust treatment and duly power coated or painted with one coat of red lead paint and 2 coats of	kg	184.88	50.00	9244.00

	enamel paint as directed. Note:- For the purpose of panel boards above rates shall be inclusive of work along with angle iron work.				
416	G.I. sheet 1.6mm (16 gauge) to be used for fabrication of boxes panel boards etc. including cutting, bending, drilling, welding, rivetting etc. and painting with one coat of red lead paint and 2 coats of enamel paint.	M2	2145.37	50.00	107268.50
417	G.I. sheet 1.25mm (18gauge) to be used for fabrication of boxes panel boards etc. including cutting, bending, drilling, welding, rivetting etc. and painting with one coat of red lead paint and 2 coats of enamel paint.	M2	1779.80	20.00	35596.00
418	G.I. sheet 1mm (20 gauge) to be used for fabrication of boxes panel boards etc. including cutting, bending, drilling, welding, rivetting etc. and painting with one coat of red lead paint and 2 coats of enamel paint.	M2	1498.83	20.00	29976.60
419	Acrylic sheet 3 mm thick to be used for covering the CRCA sheet boxes etc. including cutting, drilling, & pasting or fixing with nut bolts/ screws etc. complete.	M2	1322.31	20.00	26446.20
420	Acrylic sheet 2 mm thick for covering wall entries including cutting drilling and fixing with nut bolts / screws etc. complete	M2	883.63	20.00	17672.60
421	Supplying and erecting Hylam sheet/ Ebonite 6 mm thick for covering wall entries including cutting drilling and fixing with nut bolts / screws etc.complete.	M2	1328.58	20.00	26571.60
422	Supplying and erecting Plywood 6 mm thick fixed to wall or on provided panel board with necessary materials such as screws, wall fasteners supports, nuts bolts etc. complete.	M2	348.86	20.00	6977.20
423	Supplying and erecting Iron work consisting of Various sections of MS and including Plates, Chequered Plates, Rods, Bars, MS pipes, etc. for panel board or any other purposes complete with bending, cutting, drilling and welding complete erected at the position with necessary materials duly painted with one coat of red oxide and two coats of enamel paint to match the switchgears or as per directions by the authority Note:- Quantity of Iron/sheet metal work shall be considered and worked out as per steel data table.	KG	113.85	200.00	22770.00
424	Supplying and erecting self locking arrangement with duplicate keys, made of brass duly erected, flush with surface of panel/cupboard.	AU	203.67	20.00	4073.40
425	Supplying and erecting expanded metal jali enclosure made from G.I. square mesh 15 SWG having 20/25 mm square, complete, properly fixed/welded and duly painted with one coat of red oxide and two coats of silver/enamel paint (size of jali or enclosure to be specified in the estimate.)	M2	168.16	20.00	3363.20

Bus bars (CP-BB)					
426	Supplying and erecting Bus bar chamber triple pole with neutral with four aluminium bars, 500V, 100A complete as per specification no. CP-BB. Note:- 1) The cross sectional area of Copper Flexible Braided bus or bar shall be designed or considered with 30% more or existing cross sectional area of copper bus Patti 2) Measurment shall be done on actual weight basis after fabrication but before erection.	M	4600.93	10.00	46009.30
427	Supplying and erecting Bus bar chamber triple pole with neutral with four aluminium bars, 500V 200A complete as per specification no. CP-BB Note:- 1) The cross sectional area of Copper Flexible Braided bus or bar shall be designed or considered with 30% more or existing cross sectional area of copper bus Patti 2) Measurment shall be done on actual weight basis after fabrication but before erection.	M	4930.99	10.00	49309.90
428	Supplying and erecting Bus bar chamber triple pole with neutral with four aluminium bars, 500V 300A complete as per specification no. CP-BB Note:- 1) The cross sectional area of Copper Flexible Braided bus or bar shall be designed or considered with 30% more or existing cross sectional area of copper bus Patti 2) Measurment shall be done on actual weight basis after fabrication but before erection.	M	5150.33	10.00	51503.30
429	Supplying and erecting Bus bar chamber triple pole with neutral with four aluminium bars, 500V 400A complete as per specification no. CP-BB Note:- 1) The cross sectional area of Copper Flexible Braided bus or bar shall be designed or considered with 30% more or existing cross sectional area of copper bus Patti 2) Measurment shall be done on actual weight basis after fabrication but before erection.	M	8251.39	10.00	82513.90
430	Supplying and erecting Bus bar chamber triple pole with neutral with four aluminium bars, 500V 630A complete as per specification no. CP-BB Note:-1) The cross sectional area of Copper Flexible Braided bus or bar shall be designed or considered with 30% more or existing cross sectional area of copper bus Patti 2) Measurment shall be done on actual weight basis after fabrication but before erection.	M	9568.48	10.00	95684.80
431	Supplying and erecting Bus bar chamber	M	10444.80	10.00	104448.00

	<p>triple pole with neutral with four aluminium bars, 500V 800A complete as per specification no. CP-BB</p> <p>Note:- 1) The cross sectional area of Copper Flexible Braided bus or bar shall be designed or considered with 30% more or existing cross sectional area of copper bus Patti 2) Measurement shall be done on actual weight basis after fabrication but before erection.</p>				
432	<p>Supplying and erecting Bus bar chamber triple pole with neutral with four Copper bars, 500V, 100A complete as per specification no. CP-BB</p> <p>Note:- 1) The cross sectional area of Copper Flexible Braided bus or bar shall be designed or considered with 30% more or existing cross sectional area of copper bus Patti 2) Measurement shall be done on actual weight basis after fabrication but before erection.</p>	M	7244.51	10.00	72445.10
433	<p>Supplying and erecting Bus bar chamber triple pole with neutral with four Copper bars, 500V 200A complete as per specification no. CP-BB</p> <p>Note:- 1) The cross sectional area of Copper Flexible Braided bus or bar shall be designed or considered with 30% more or existing cross sectional area of copper bus Patti 2) Measurement shall be done on actual weight basis after fabrication but before erection.</p>	M	8863.45	10.00	88634.50
Measuring Instruments					
434	<p>Providing and erecting Analog type moving iron voltmeter for A.C Voltage 0 to 500V range, 50Hz, Accuracy class 1.5, flush type; on provided box / panel and connected with necessary PVC wire leads and lugs.</p> <p>Note:While framing the estimate for P.F. meter / RKVAH meter, provision of 3 CTs should invariably be made separately. All meters shall be with manufacturer's calibration certificate.</p>	AU	1034.04	20.00	20680.80
435	<p>Providing and erecting Analog type moving iron Ammeter for A.C current CT operated of suitable size in scale between 0 to 1000A, 500V accuracy class 1.5, flush type; on provided box /panel and connecting with provided CTs and necessary PVC wire leads and lugs.</p> <p>Note:While framing the estimate for P.F. meter / RKVAH meter, provision of 3 CTs should invariably be made separately. All meters shall be with manufacturer's calibration certificate.</p>	AU	1845.60	20.00	36912.00

436	<p>Supplying and erecting panel mounting type digital ammeter having Three and half digit LED display, external C.T. operated, calibrated for 0 to 1000A AC suitable to operate on 500V AC supply with necessary PVC wire leads and lugs and mounting hardware on provided panel complete with calibration certificate from manufacturer.</p> <p>Note:While framing the estimate for P.F. meter / RKVAH meter, provision of 3 CTs should invariably be made separately. All meters shall be with manufacturer's calibration certificate.</p>	AU	2953.79	20.00	59075.80
437	<p>Supplying and erecting panel mounting type digital voltmeter having Three and half digit LED display, calibrated for 0 to 750V AC suitable to operate on 500V AC supply with necessary PVC wire leads and lugs and mounting hardware on provided panel complete with calibration certificate from manufacturer.</p> <p>Note:While framing the estimate for P.F. meter / RKVAH meter, provision of 3 CTs should invariably be made separately. All meters shall be with manufacturer's calibration certificate.</p>	AU	2689.54	20.00	53790.80
438	<p>Supplying and erecting Intelligent flush mounted panel meter three phase four wire (IPM) 415V secondary 5A/1A class1 Flush mounted (96 x 96 mm) meter with Voltage, current, frequency, Reactive Power Management(RPM) metering with LED Display (excluding CT'S) complete with wiring connections and mounting hardware on provided panels complete with calibration certificate from manufacturer</p>	AU	2689.54	20.00	53790.80
439	<p>Supplying and erecting Intelligent flush mounted panel meter three phase four wire(IPM) 240V (L-N) 5A class1 Flush mounted meter with Voltage, current, frequency, power, energy & THD metering with LCD display (excluding CT'S) complete with wiring connections and mounting hardware on provided panels complete with calibration certificate from manufacturer</p>	AU	8660.83	20.00	173216.60
Accessories					
440	<p>Providing and erecting Selector Switch suitable for Voltmeter/Ammeter for 3 phase A.C supply 500V, 50Hz, on provided box / panel and duly connecting with necessary PVC wire leads and lugs.</p>	AU	298.72	10.00	2987.20
441	<p>Providing and erecting L.T. Current Transformer with bar primary 50/5 to 1000/5 ratio with 15VA burden erected in provided CRCA box duly secured with insulating materials connected to the meter with test certificates.</p>	AU	718.60	10.00	7186.00
442	<p>Supplying and erecting set of 3 pilot lamps all Bakelite with colour glasses with miniature lamps 230 V/250V erected on provided CRCA</p>	AU	780.23	20.00	15604.60

	box with panel type fuses and connected with PVC wires.				
443	Supplying & erecting LED type indicating pilot lamp with LED colours Red / Yellow / Green, 230 / 250V on provided box / panel with necessary material, wiring & connections etc.	AU	291.41	20.00	5828.20
444	Supplying & erecting LED type indicating pilot lamp with LED colour BLUE, 230 / 250 V on provided box / panel with necessary material, wiring & connections etc.	AU	706.06	20.00	14121.20
SECTION IV: CABLES					
445	Supplying , erecting & Terminating PVC armoured cable 4 core 16 sq mm aluminium conductor with continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable. 2) For all type of cables instead of reading supplying and erecting read as a supplying, erecting and terminating.	M	203.67	500.00	101835.00
446	Supplying , erecting & Terminating PVC armoured cable 3 1/2 core 25 sq mm aluminium conductor with continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable. 2) For all type of cables instead of reading supplying and erecting read as a supplying, erecting and terminating.	M	240.23	200.00	48046.00
447	Supplying , erecting & Terminating PVC armoured cable 3 1/2 core 35 sq mm aluminium conductor with continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable. 2) For all type of cables instead of reading supplying and erecting read as a supplying, erecting and terminating.	M	286.19	50.00	14309.50
448	Supplying , erecting & Terminating PVC armoured cable 3 1/2 core 50 sq mm aluminium conductor with continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL	M	372.88	50.00	18644.00

	Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable. 2) For all type of cables instead of reading supplying and erecting read as a supplying, erecting and terminating.				
449	Supplying , erecting & Terminating PVC armoured cable 3 1/2 core 70 sq mm aluminium conductor with continuous 8.35 sq mm (10 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable. 2) For all type of cables instead of reading supplying and erecting read as a supplying, erecting and terminating.	M	503.44	100.00	50344.00
450	Supplying , erecting & Terminating PVC armoured cable 3 1/2 core 95 sq mm aluminium conductor with continuous 8.35 sq mm (10 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable. 2) For all type of cables instead of reading supplying and erecting read as a supplying, erecting and terminating.	M	615.20	100.00	61520.00
451	Supplying , erecting & Terminating PVC armoured cable 4 core 25 sq mm aluminium conductor with continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/pipe as per specification no. CB-LT/AL Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable. 2) For all type of cables instead of reading supplying and erecting read as a supplying, erecting and terminating.	M	266.34	500.00	133170.00
452	Supplying , erecting & Terminating PVC armoured cable 4 core 35 sq mm aluminium conductor with continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/pipe as per specification no. CB-LT/AL Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable. 2) For all type of cables instead of reading supplying and erecting read as a supplying, erecting and terminating.	M	329.01	100.00	32901.00

453	<p>Supplying , erecting & TerminatingPVC armoured cable 4 core 50 sq mm aluminium conductor with continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/pipe as per specification no. CB-LT/AL</p> <p>Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable. 2) For all type of cables instead of reading supplying and erecting read as a supplying, erecting and terminating.</p>	M	414.66	100.00	41466.00
454	<p>Supplying , erecting & TerminatingPVC armoured cable 4 core 70 sq mm aluminium conductor with continuous 8.35 sq mm (10 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/pipe as per specification no. CB-LT/AL</p> <p>Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable. 2) For all type of cables instead of reading supplying and erecting read as a supplying, erecting and terminating.</p>	M	538.95	22.00	11856.90
455	<p>Supplying , erecting & Terminating PVC armoured cable 4 core 95 sq mm aluminium conductor with continuous 8.35 sq mm (10 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/pipe as per specification no. CB-LT/AL</p> <p>Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable. 2) For all type of cables instead of reading supplying and erecting read as a supplying, erecting and terminating.</p>	M	678.91	25.00	16972.75
456	<p>Supplying , erecting & Terminating PVC armoured cable 3 1/2 core 120 sq mm aluminium conductor with continuous 12.97 sq mm (8 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL</p> <p>Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable. 2) For all type of cables instead of reading supplying and erecting read as a supplying, erecting and terminating.</p>	M	768.73	100.00	76873.00
457	<p>Supplying , erecting & Terminating PVC armoured cable 3-1/2 core 150 sq mm aluminium conductor with continuous 12.97 sq mm (8 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe</p>	M	920.18	50.00	46009.00

	as per specification no. CB-LT/AL Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable. 2) For all type of cables instead of reading supplying and erecting read as a supplying, erecting and terminating.				
458	Supplying , erecting & Terminating PVC armoured cable 1100 V. 3-1/2 core 185 sq mm aluminium conductor with continuous 12.97 sq mm (8 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable. 2) For all type of cables instead of reading supplying and erecting read as a supplying, erecting and terminating.	M	1108.19	200.00	221638.00
459	Supplying , erecting & Terminating PVC armoured cable 3-1/2 core 240 sq mm aluminium conductor with continuous 12.97 sq mm (8 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable. 2) For all type of cables instead of reading supplying and erecting read as a supplying, erecting and terminating.	M	1397.51	500.00	698755.00
460	Supplying , erecting & Terminating PVC armoured cable 3-1/2 core 300 sq mm aluminium conductor with continuous 12.97 sq mm (8 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable. 2) For all type of cables instead of reading supplying and erecting read as a supplying, erecting and terminating.	M	1699.37	100.00	169937.00
461	Supplying , erecting & Terminating PVC armoured cable 3-1/2 core 400 sq mm aluminium conductor with continuous 12.97 sq mm (8 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable. 2) For all type of cables instead of reading	M	2143.28	100.00	214328.00

	supplying and erecting read as a supplying, erecting and terminating.				
462	Re-erecting PVC armoured cable 2 to 4 Core up to 50 sq mm on wall with necessary material & G.I. earth wire in an approved manner. Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable. 2) For all type of cables instead of reading supplying and erecting read as a supplying, erecting and terminating.	M	38.65	50.00	1932.50
463	Supplying , erecting & Terminating PVC armoured cable 2 core 2.5 sq mm copper conductor continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/pipe as per specification no. CB-LT/CU Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable.	M	151.45	1000.00	151450.00
464	Supplying , erecting & Terminating PVC armoured cable 2 core 4 sq mm copper conductor continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/pipe as per specification no. CB-LT/CU Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable.	M	197.41	500.00	98705.00
465	Supplying , erecting & Terminating PVC armoured cable 3 core 2.5 sq mm copper conductor continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/pipe as per specification no. CB-LT/CU Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable.	M	185.92	200.00	37184.00
466	Supplying , erecting & Terminating PVC armoured cable 3 core 4 sq mm copper conductor continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/pipe as per specification no. CB-LT/CU Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable.	M	252.77	100.00	25277.00
467	Supplying , erecting & Terminating PVC armoured cable 4 core 4 sq mm copper conductor continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands &	M	309.16	500.00	154580.00

	lugs, on wall/ trusses/pole or laid in provided trench/pipe as per specification no. CB-LT/CU Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable.				
468	Supplying , erecting & Terminating PVC armoured cable 4 core 6 sq mm copper conductor continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/pipe as per specification no. CB-LT/CU Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable.	M	417.79	300.00	125337.00
469	Supplying , erecting & Terminating PVC armoured cable 4 core 10 sq mm copper conduct or continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/pipe as per specification no. CB-LT/CU Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable.	M	637.13	500.00	318565.00
470	Supplying , erecting & Terminating PVC armoured cable 4 core 16 sq mm copper conduct or with continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/CU Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable.	M	930.63	500.00	465315.00
471	Supplying , erecting & Terminating PVC armoured cable 4 core 25 sq mm copper conductor with continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/CU Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable.	M	1405.87	100.00	140587.00
472	Supplying , erecting & Terminating PVC armoured cable 4 core 35 sq mm copper conductor with continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/CU Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable.	M	1935.42	200.00	387084.00

473	Supplying , erecting & Terminating PVC armoured cable 4 core 50 sq mm copper conductor with continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/CU Note:1) Rate of all cables includes cost of lugs, glands, etc. required for erection and connection of cable.	M	2639.40	100.00	263940.00
474	Supplying , erecting & Terminating 3 x 70 sq mm 11 kV, XLPE(E) armoured cable on wall/ceiling or laid in provided trench / pipe in an approved manner as perspecification No. CB-HT	M	931.68	100.00	93168.00
475	Supplying , erecting & Terminating 3 x 95 sq mm 11 kV, XLPE(E) armoured cable on wall/ceiling or laid in provided trench / pipe in an approved manner as per specification No. CB-HT	M	1031.94	300.00	309582.00
476	Supplying , erecting & Terminating 3 x 120 sq mm 11 kV, XLPE(E) armoured cable on wall/ceiling or laid in provided trench / pipe in an approved manner as per specification no. CB-HT	M	1206.37	100.00	120637.00
477	Supplying , erecting & Terminating 3 x 150 sq mm 11 kV, XLPE(E) armoured cable on wall/ceiling or laid in provided trench / pipe in an approved manner as per specification No. CB-HT	M	1356.78	25.00	33919.50
478	Supplying , erecting & Terminating 3 x 185 sq.mm 11 kV, XLPE(E) armoured cable on wall/ceiling or laid in provided trench / pipe in an approved manner as per specification No. CB-HT	M	1584.48	25.00	39612.00
479	Supplying , erecting & Terminating 3 x 240 sq mm 11 kV, XLPE(E) armoured cable on wall/ceiling or laid in provided trench / pipe in an approved manner as per specification No. CB-HT	M	1895.73	25.00	47393.25
480	Supplying , erecting & Terminating 3 x 300 sq mm 11 kV, XLPE(E) armoured cable on wall/ceiling or laid in provided trench / pipe in an approved manner as per specification No. CB-HT	M	2203.85	25.00	55096.25
481	Supplying , erecting & Terminating 3 x 400 sq mm 11 kV, XLPE(E) armoured cable on wall/ceiling or laid in provided trench / pipe in an approved manner as per specification No. CB-HT	M	2665.52	25.00	66638.00
482	Providing & erecting epoxy straight through joint outdoor/indoor for LT PVC armoured cable 2.5 to 16 sq mm. cable, with necessary material as per specification No. CB-JT/LT	AU	1279.49	10.00	12794.90
483	Providing & erecting epoxy straight through joint outdoor/indoor for LT PVC armoured cable 25 to 50 sq mm. cable, with necessary material as per specification No. CB-JT/LT	AU	1475.85	10.00	14758.50
484	Providing & erecting epoxy straight through joint outdoor/indoor for LT PVC armoured	AU	2146.41	10.00	21464.10

	cable 70 to 95 sq mm cable, with necessary material as per specification No. CB-JT/LT				
485	Providing & erecting epoxy straight through joint outdoor/indoor for LT PVC armoured cable 120 to 185 sq.mm. cable, with necessary material as per specification No. CB-JT/LT	AU	2923.50	10.00	29235.00
486	Providing & erecting epoxy straight through joint outdoor/indoor for LT PVC armoured cable 240 sq.mm. cable, with necessary material as per specification No. CB-JT/LT	AU	3165.81	10.00	31658.10
487	Providing & erecting epoxy straight through joint outdoor/indoor for LT PVC armoured cable 300 sq.mm. cable, with necessary material as per specification No. CB-JT/LT	AU	3764.31	10.00	37643.10
488	Providing & erecting epoxy straight through joint outdoor/indoor for LT PVC armoured cable 400 sq.mm. cable, with necessary material as per specification No. CB-JT/LT	AU	5053.19	10.00	50531.90
489	Providing & erecting epoxy outdoor/indoor end termination kit for LT PVC armoured cable 25 to 50 sq.mm. cable, with necessary material as per specification No. CB-JT/LT	AU	1440.34	10.00	14403.40
490	Providing & erecting epoxy outdoor/indoor end termination kit for LT PVC armoured cable 70 to 120 sq.mm. cable, with necessary material as per specification No. CB-JT/LT	AU	1676.39	10.00	16763.90
491	Providing & erecting epoxy outdoor/indoor end termination kit for LT PVC armoured cable 225 to 300 Sq.mm. cable, with necessary material as per specification no. CB-JT/LT	AU	2166.26	10.00	21662.60
492	Providing & erecting epoxy outdoor/indoor end termination kit for LT PVC armoured cable 400 sq.mm. cable, with necessary material as per specification No. CB-JT/LT	AU	2655.07	10.00	26550.70
493	Providing and erecting Heat shrinkable indoor termination kit for 11 kV (E) XLPE HT cable 3x70 to 120 sq. mm. with necessary material as per specification No. CB-JT/HT	AU	9636.37	10.00	96363.70
494	Providing and erecting Heat shrinkable indoor termination kit for 11 kV (E) XLPE HT cable 3x150 to 185 sq. mm. with necessary material as per specification No. CB-JT/HT	AU	11136.25	10.00	111362.50
495	Providing and erecting Heat shrinkable indoor termination kit for 11 kV (E) XLPE HT cable 3x240 to 400sq. mm. with necessary material as per specification No. CB-JT/HT	AU	11648.04	10.00	116480.40
496	Providing and erecting Heat shrinkable outdoor termination kit for 11 kV (E) XLPE HT cable 3x70 to 120 sq mm with necessary material as per specification No. CB-JT/HT	AU	13277.43	10.00	132774.30
497	Providing and erecting Heat shrinkable outdoor termination kit for 11 kV(E) XLPE HT cable 3x150 to 185 sq. mm. with necessary material as per specification no. CB-JT/HT	AU	14174.63	10.00	141746.30
498	Providing and erecting Heat shrinkable outdoor termination kit for 11 kV(E) XLPE HT cable 3x240 to 400 sq. mm. with necessary material as per specification No. CB-JT/HT	AU	15799.85	10.00	157998.50
499	Providing and erecting Heat shrinkable Straight through joint kit for 11 kV (E) XLPE	AU	21564.33	10.00	215643.30

	HT cable 3x70 to 120 sq. mm. with necessary material as per specification No. CB-JT/HT				
500	Providing and erecting Heat shrinkable Straight through joint kit for 11 kV (E) XLPE HT cable 3x150 to 240 sq. mm. with necessary material as per specification No. CB-JT/HT	AU	27160.66	10.00	271606.60
501	Providing and erecting Heat shrinkable Straight through joint kit for 11kV (E) XLPE HT cable 3x300 to 400 sq. mm. with necessary material as per specification No. CB-JT/HT	AU	29565.05	10.00	295650.50
Cable Tray (CB-CT)					
502	Providing & erecting Hot deeped Galvanised Perforated type Cable tray manufactured from 16 swg (1.6 mm thick) GI sheet of 150 mm width & 75 mm height complete with necessary coupler plates & hardware in approved manner. Note:- 1) Standard accessories shall typically include : a) 'Z' section support -30 x 35 mm in size - 312 mm in length - 6 nos. support for one piece ladder of 2.5 m in length each. b) Anchor fastner & nut bolts of adequate size - 16 nos.(2 nos. per each support) c) Coupler plates with hardware - 70 x 200 x 3 mm thick - 2 nos. for each piece of 2.5 m Ladder complete with neccessary accessories such as Reducer, Horizontal Elbow & Tee, Up & Down Vertical Elbow & bend, Cross Piece complete erected in approved manner. 2) Provision for resting arrangement or support for perforated type Cable tray shall be made separetly as per iron work Item 3) Provision of cover for perforated type Cable tray shall be made only where it is absolutely necessary and make sure for locking arrangement. 4) Both type of cable tray shall be earthed properly.	M	528.50	100.00	52850.00
503	Providing & erecting Hot deeped Galvanised Perforated type Cable tray manufactured from 16 swg (1.6 mm thick) GI sheet of 200 mm width & 75 mm height complete with necessary coupler plates & hardware in approved manner. Note:- 1) Standard accessories shall typically include : a) 'Z' section support -30 x 35 mm in size - 312 mm in length - 6 nos. support for one piece ladder of 2.5 m in length each. b) Anchor fastner & nut bolts of adequate size - 16 nos.(2 nos. per each support) c) Coupler plates with hardware - 70 x 200 x 3 mm thick - 2 nos. for each piece of 2.5 m Ladder complete with neccessary accessories such as Reducer, Horizontal Elbow & Tee, Up & Down Vertical Elbow & bend, Cross Piece complete erected in approved manner. 2) Provision for resting arrangement or	M	605.80	500.00	302900.00

	<p>support for perforated type Cable tray shall be made separately as per iron work Item</p> <p>3) Provision of cover for perforated type Cable tray shall be made only where it is absolutely necessary and make sure for locking arrangement.</p> <p>4) Both type of cable tray shall be earthed properly.</p>				
504	<p>Providing & erecting Hot deeped Galvanised Perforated type Cable tray manufactured from 16 swg (1.6 mm thick) GI sheet of 300 mm width & 75 mm height complete with necessary coupler plates & hardware in approved manner.</p> <p>Note:-</p> <p>1) Standard accessories shall typically include : a) 'Z' section support -30 x 35 mm in size - 312 mm in length - 6 nos. support for one piece ladder of 2.5 m in length each. b) Anchor fastner & nut bolts of adequate size - 16 nos.(2 nos. per each support) c) Coupler plates with hardware - 70 x 200 x 3 mm thick - 2 nos. for each piece of 2.5 m Ladder complete with necessary accessories such as Reducer, Horizontal Elbow & Tee, Up & Down Vertical Elbow & bend, Cross Piece complete erected in approved manner. 2) Provision for resting arrangement or support for perforated type Cable tray shall be made separately as per iron work Item 3) Provision of cover for perforated type Cable tray shall be made only where it is absolutely necessary and make sure for locking arrangement. 4) Both type of cable tray shall be earthed properly.</p>	M	761.43	200.00	152286.00
505	<p>Providing & erecting Hot deeped Galvanised Perforated type Cable tray manufactured from 16 swg (1.6 mm thick) GI sheet of 400 mm width & 75 mm height complete with necessary coupler plates & hardware in approved manner.</p> <p>Note:-</p> <p>1) Standard accessories shall typically include : a) 'Z' section support -30 x 35 mm in size - 312 mm in length - 6 nos. support for one piece ladder of 2.5 m in length each. b) Anchor fastner & nut bolts of adequate size - 16 nos.(2 nos. per each support) c) Coupler plates with hardware - 70 x 200 x 3 mm thick - 2 nos. for each piece of 2.5 m Ladder complete with necessary accessories such as Reducer, Horizontal Elbow & Tee, Up & Down Vertical Elbow & bend, Cross Piece complete erected in approved manner. 2) Provision for resting arrangement or support for perforated type Cable tray shall be made separately as per iron work Item 3) Provision of cover for perforated type Cable tray shall be made only where it is absolutely</p>	M	917.05	100.00	91705.00

	necessary and make sure for locking arrangement. 4) Both type of cable tray shall be earthed properly.				
506	<p>Providing & erecting Hot deeped Galvanised Perforated type Cable tray manufactured from 16 swg (1.6 mm thick) GI sheet of 500 mm width & 75 mm height complete with necessary coupler plates & hardware in approved manner.</p> <p>Note:- 1) Standard accessories shall typically include : a) 'Z' section support -30 x 35 mm in size - 312 mm in length - 6 nos. support for one piece ladder of 2.5 m in length each. b) Anchor fastner & nut bolts of adequate size - 16 nos.(2 nos. per each support) c) Coupler plates with hardware - 70 x 200 x 3 mm thick - 2 nos. for each piece of 2.5 m Ladder complete with necessary accessories such as Reducer, Horizontal Elbow & Tee, Up & Down Vertical Elbow & bend, Cross Piece complete erected in approved manner. 2) Provision for resting arrangement or support for perforated type Cable tray shall be made separetly as per iron work Item 3) Provision of cover for perforated type Cable tray shall be made only where it is absolutely necessary and make sure for locking arrangement. 4) Both type of cable tray shall be earthed properly.</p>	M	1072.68	50.00	53634.00
507	<p>Providing & erecting Hot deeped Galvanised cover suitable for perforated type Cable tray manufactured from 18 swg (1.2 mm thick) GI sheet of 150 mm width & 15 mm height complete with necessary hardware in approved manner.</p> <p>Note:- 1) Standard accessories shall typically include : a) 'Z' section support -30 x 35 mm in size - 312 mm in length - 6 nos. support for one piece ladder of 2.5 m in length each. b) Anchor fastner & nut bolts of adequate size - 16 nos.(2 nos. per each support) c) Coupler plates with hardware - 70 x 200 x 3 mm thick - 2 nos. for each piece of 2.5 m Ladder complete with necessary accessories such as Reducer, Horizontal Elbow & Tee, Up & Down Vertical Elbow & bend, Cross Piece complete erected in approved manner. 2) Provision for resting arrangement or support for perforated type Cable tray shall be made separetly as per iron work Item 3) Provision of cover for perforated type Cable tray shall be made only where it is absolutely necessary and make sure for locking arrangement. 4) Both type of cable tray shall be earthed properly.</p>	M	244.41	50.00	12220.50

508	<p>Providing & erecting Hot deeped Galvanised cover suitable for perforated type Cable tray manufactured from 18 swg (1.2 mm thick) GI sheet of 200 mm width & 15 mm height complete with necessary hardware in approved manner.Note:-1) Standard accessories shall typically include : a) 'Z' section support -30 x 35 mm in size - 312 mm in length - 6 nos. support for one piece ladder of 2.5 m in length each.b) Anchor fastner & nut bolts of adequate size - 16 nos.(2 nos. per each support)c) Coupler plates with hardware - 70 x 200 x 3 mm thick - 2 nos. for each piece of 2.5 m Ladder complete with neccessory accessories such as Reducer, Horizontal Elbow & Tee, Up & Down Vertical Elbow & bend, Cross Piece complete erected in approved manner.2) Provision for resting arrangement or support for perforated type Cable tray shall be made separetly as per iron work Item3) Provision of cover for perforated type Cable tray shall be made only where it is absolutely necessary and make sure for locking arrangement.4) Both type of cable tray shall be earthed properly.</p>	M	302.90	100.00	30290.00
509	<p>Providing & erecting Hot deeped Galvanised cover suitable for perforated type Cable tray manufactured from 18 swg (1.2 mm thick) GI sheet of 300 mm width & 15 mm height complete with necessary hardware in approved manner.</p> <p>Note:-</p> <p>1) Standard accessories shall typically include : a) 'Z' section support -30 x 35 mm in size - 312 mm in length - 6 nos. support for one piece ladder of 2.5 m in length each. b) Anchor fastner & nut bolts of adequate size - 16 nos.(2 nos. per each support) c) Coupler plates with hardware - 70 x 200 x 3 mm thick - 2 nos. for each piece of 2.5 m Ladder complete with neccessory accessories such as Reducer, Horizontal Elbow & Tee, Up & Down Vertical Elbow & bend, Cross Piece complete erected in approved manner. 2) Provision for resting arrangement or support for perforated type Cable tray shall be made separetly as per iron work Item 3) Provision of cover for perforated type Cable tray shall be made only where it is absolutely necessary and make sure for locking arrangement. 4) Both type of cable tray shall be earthed properly.</p>	M	420.92	50.00	21046.00
510	<p>Providing & erecting Hot deeped Galvanised cover suitable for perforated type Cable tray manufactured from 18 swg (1.2 mm thick) GI sheet of 400 mm width & 15 mm height complete with necessary hardwere in approved manner.</p> <p>Note:-</p>	M	538.95	50.00	26947.50

	<p>1) Standard accessories shall typically include : a) 'Z' section support -30 x 35 mm in size - 312 mm in length - 6 nos. support for one piece ladder of 2.5 m in length each.</p> <p>b) Anchor fastner & nut bolts of adequate size - 16 nos.(2 nos. per each support)</p> <p>c) Coupler plates with hardware - 70 x 200 x 3 mm thick - 2 nos. for each piece of 2.5 m Ladder complete with necessary accessories such as Reducer, Horizontal Elbow & Tee, Up & Down Vertical Elbow & bend, Cross Piece complete erected in approved manner.</p> <p>2) Provision for resting arrangement or support for perforated type Cable tray shall be made separately as per iron work Item</p> <p>3) Provision of cover for perforated type Cable tray shall be made only where it is absolutely necessary and make sure for locking arrangement.</p> <p>4) Both type of cable tray shall be earthed properly.</p>				
511	<p>Providing & erecting Hot deeped Galvanised cover suitable for perforated type Cable tray manufactured from 18 swg (1.2mm thick) GI sheet of 500 mm width & 15 mm height complete with necessary hardware in approved manner.</p> <p>Note:-</p> <p>1) Standard accessories shall typically include : a) 'Z' section support -30 x 35 mm in size - 312 mm in length - 6 nos. support for one piece ladder of 2.5 m in length each.</p> <p>b) Anchor fastner & nut bolts of adequate size - 16 nos.(2 nos. per each support)</p> <p>c) Coupler plates with hardware - 70 x 200 x 3 mm thick - 2 nos. for each piece of 2.5 m Ladder complete with necessary accessories such as Reducer, Horizontal Elbow & Tee, Up & Down Vertical Elbow & bend, Cross Piece complete erected in approved manner.</p> <p>2) Provision for resting arrangement or support for perforated type Cable tray shall be made separately as per iron work Item</p> <p>3) Provision of cover for perforated type Cable tray shall be made only where it is absolutely necessary and make sure for locking arrangement.</p> <p>4) Both type of cable tray shall be earthed properly.</p>	M	655.93	20.00	13118.60
512	Size of Cable tray- 100mm W x 25 mm H.(18 SWG-1.2mm)	M	220.57	500.00	110285.00
513	Size of cable tray- 300 mm * 50 mm	M	809.55	200.00	161910.00
514	Size of Cable tray- 75mm W x 25 mm H.(18 SWG-1.2mm)	M	190.50	300.00	57150.00
515	Supplying, erecting of 40x40x5 mm of M.S angle	M	319.74	500.00	159870.00
516	Supplying, erecting of Flat Bars 25 mm x 3 mm thick	M	70.17	500.00	35085.00
517	Supplying, erecting of Flat Bars 50 mm x 6 mm thick	M	257.69	100.00	25769.00

Cable Enclosures (CB-CE)					
518	<p>Supplying & laying (including excavation) 15 cm dia RCC Hume pipe with coupling collar of standard thickness at required depth up to 90 cm below road / ground surface, for enclosing provided cable & necessary back filling with light ramming to make the road/ground surface as it was (Except bitumen carpet).</p> <p>Note:1) All the GI pipes and DWC pipes shall be ISI marked. 2) DWC pipe shall be preferably used for the length where possibility of damaging of cable is more. If DWC pipe for length of more than 25m is to be used depending on environmental condition , approval should be taken from concerned Superintending Engineer 3) For running the cable across the field / along the road , it should be covered by half round Hume Pipe only.</p>	M	662.20	100.00	66220.00
519	<p>Supplying & laying (including excavation) 15 cm dia half round RCC Hume pipe of standard thickness at required depth up to 90 cms. below road / ground surface, for enclosing provided cable & necessary back filling with light ramming to make the road/ground surface as it was (Except bitumen carpet).</p> <p>Note:1) All the GI pipes and DWC pipes shall be ISI marked. 2) DWC pipe shall be preferably used for the length where possibility of damaging of cable is more. If DWC pipe for length of more than 25m is to be used depending on environmental condition , approval should be taken from concerned Superintending Engineer 3) For running the cable across the field / along the road , it should be covered by half round Hume Pipe only.</p>	M	493.00	200.00	98600.00
520	<p>Supplying & laying (including excavation) 25 cm dia RCC Hume pipe of standard thickness at required depth up to 90 cms. below road / ground surface, for covering provided cable & necessary back filling with light ramming to make the road/ground surface as it was (Except bitumen carpet).Note:1) All the GI pipes and DWC pipes shall be ISI marked.2) DWC pipe shall be preferably used for the length where possibility of damaging of cable is more. If DWC pipe for length of more than 25m is to be used depending on environmental condition , approval should be taken from concerned Superintending Engineer3) For running the cable across the field / along the road , it should be covered by half round Hume Pipe only.</p>	M	784.40	100.00	78440.00
521	<p>Supplying & laying (including excavation) 25 cm Dia half round RCC Hume pipe of standard thickness at required depth up to 90</p>	M	602.67	50.00	30133.50

	<p>cms. below road / ground surface, for enclosing provided cable & necessary back filling with light ramming to make the road/ground surface as it was (Except bitumen carpet).</p> <p>Note:1) All the GI pipes and DWC pipes shall be ISI marked. 2) DWC pipe shall be preferably used for the length where possibility of damaging of cable is more. If DWC pipe for length of more than 25m is to be used depending on environmental condition , approval should be taken from concerned Superintending Engineer 3) For running the cable across the field / along the road , it should be covered by half round Hume Pipe only.</p>				
	Cable Glands(CB-GL)				
522	<p>Supplying & erecting Siemens type brass cable glands for 2 to 4 core 2.5 sq mm /2 to 4 core 4 sq mm /2 core 6 sq mm for PVC armoured cable as per specification No. CB-GL</p> <p>Note:1) Glands are to be provided at time of joints/repairs.</p>	AU	35.52	8.00	284.16
523	<p>Supplying & erecting Siemens type brass cable glands for 3 to 4 core 6 sq mm /2 to 4 core 10 sq mm for PVC armoured cable as per specification No. CB-GL</p> <p>Note:1) Glands are to be provided at time of joints/repairs.</p>	AU	40.74	13.00	529.62
524	<p>Supplying & erecting Siemens type brass cable glands for 3 to 4 core 16 sq mm /3 to 4 core 25 sq mm /3 core 35 sq mm for PVC armoured cable as per specification No. CB-GL</p> <p>Note:1) Glands are to be provided at time of joints/repairs.</p>	AU	52.22	10.00	522.20
525	<p>Supplying & erecting Siemens type brass cable glands for 4 core 35 Sq.mm./3 core 50 Sq.mm. for PVC armoured cable as per specification no. CB-GL</p> <p>Note:1) Glands are to be provided at time of joints/repairs.</p>	AU	67.89	10.00	678.90
526	<p>Supplying & erecting Siemens type brass cable glands for 4 core 50 sq mm for PVC armoured cable as per specification No. CB-GL</p> <p>Note:1) Glands are to be provided at time of joints/repairs.</p>	AU	85.65	10.00	856.50
527	<p>Supplying & erecting Siemens type brass cable glands for 3 1/2 core 70 sq mm for PVC armoured cable as per specification No. CB-GL</p> <p>Note:1) Glands are to be provided at time of joints/repairs.</p>	AU	99.23	10.00	992.30
528	<p>Supplying & erecting Siemens type brass cable glands for 3 1/2 core 95 sq mm for PVC</p>	AU	116.98	20.00	2339.60

	armoured cable as per specification No. CB-GL Note:1) Glands are to be provided at time of joints/repairs.				
529	Supplying & erecting Siemens type brass cable glands for 3 1/2 core 120 sq mm for PVC armoured cable as per specification No. CB-GL Note:1) Glands are to be provided at time of joints/repairs.	AU	136.82	10.00	1368.20
530	Supplying & erecting Siemens type brass cable glands for 3 1/2 core 150 sq mm for PVC armoured cable as per specification No. CB-GL Note:1) Glands are to be provided at time of joints/repairs.	AU	166.08	10.00	1660.80
531	Supplying & erecting Siemens type brass cable glands for 3 1/2 core 185 sq mm for PVC armoured cable as per specification No. CB-GL Note:1) Glands are to be provided at time of joints/repairs.	AU	214.12	10.00	2141.20
532	Supplying & erecting Siemens type brass cable glands for 3 1/2 core 240 sq mm for PVC armoured cable as per specification No. CB-GL Note:1) Glands are to be provided at time of joints/repairs.	AU	247.54	10.00	2475.40
533	Supplying & erecting Siemens type brass cable glands for 3 1/2 core 300 sq mm for PVC armoured cable as per specification No. CB-GL Note:1) Glands are to be provided at time of joints/repairs.	AU	294.55	10.00	2945.50
534	Supplying & erecting Siemens type brass cable glands for 3 1/2 core 400 sq mm for PVC armoured cable as per specification No. CB-GL Note:1) Glands are to be provided at time of joints/repairs.	AU	336.32	10.00	3363.20
535	Supplying & erecting cast iron cable indicator plate buried along with route of cable for PVC / XLPE armoured cable as per specification No. CBCIP	AU	195.32	10.00	1953.20
536	Supplying & erecting water tight terminal box of 1.6 mm (16 gauge) CRCA sheet of size 200 x 150 mm. complete on pole as per specification No. CB-SB	AU	514.93	10.00	5149.30
	Cable Lugs (Copper) (CB-CL/CU)				
537	Supplying & erecting crimping type copper lugs for cable upto 16 sq mm complete as per specification No. CB-CL/CU	AU	15.67	50.00	783.50
538	Supplying & erecting crimping type copper lugs for cable 25 sq mm complete as per specification No. CB-CL/CU	AU	22.98	20.00	459.60
539	Supplying & erecting crimping type copper lugs for cable 35 sq mm complete as per specification No. CB-CL/CU	AU	27.15	20.00	543.00
540	Supplying & erecting crimping type copper lugs for cable 50 sq mm complete as per	AU	33.43	20.00	668.60

	specification No. CB-CL/CU				
541	Supplying & erecting crimping type copper lugs for cable 70 sq mm complete as per specification No. CB-CL/CU	AU	48.04	10.00	480.40
542	Supplying & erecting crimping type copper lugs for cable 95 sq mm complete as per specification No. CB-CL/CU	AU	63.71	10.00	637.10
543	Supplying & erecting crimping type copper lugs for cable 120 sq mm complete as per specification No. CB-CL/CU	AU	86.69	10.00	866.90
544	Supplying & erecting crimping type aluminium lugs for cable upto 16 sq mm complete as per specification No. CB-CL/AL	AU	6.26	10.00	62.60
545	Supplying & erecting crimping type aluminium lugs for cable 25 sq mm complete as per specification No. CB-CL/AL	AU	6.26	8.00	50.08
546	Supplying & erecting crimping type aluminium lugs for cable 35 sq mm complete as per specification No. CB-CL/AL	AU	10.44	10.00	104.40
547	Supplying & erecting crimping type aluminium lugs for cable 50 sq mm complete as per specification No. CB-CL/AL	AU	12.54	10.00	125.40
548	Supplying & erecting crimping type aluminium lugs for cable 70 sq mm complete as per specification No. CB-CL/AL	AU	16.71	10.00	167.10
549	Supplying & erecting crimping type aluminium lugs for cable 95 sq mm complete as per specification No. CB-CL/AL	AU	17.76	10.00	177.60
550	Supplying & erecting crimping type aluminium lugs for cable 120 sq mm complete as per specification No. CB-CL/AL	AU	26.11	10.00	261.10
551	Supplying & erecting crimping type aluminium lugs for cable 150 sq mm complete as per specification No. CB-CL/AL	AU	33.43	10.00	334.30
552	Supplying & erecting crimping type aluminium lugs for cable 185 sq mm complete as per specification No. CB-CL/AL	AU	43.87	10.00	438.70
553	Supplying & erecting crimping type aluminium lugs for cable 240 sq mm complete as per specification No. CB-CL/AL	AU	63.71	10.00	637.10
554	Supplying & erecting crimping type aluminium lugs for cable 300 sq mm complete as per specification No. CB-CL/AL	AU	94.00	10.00	940.00
555	Supplying & erecting crimping type aluminium lugs for cable 400 sq mm complete as per specification No. CB-CL/AL	AU	125.34	10.00	1253.40
SECTION V: DISMANTLING					
DISMANTLING OF WIRES					
556	Dismantling the existing light, fan, bell, clock, independent plug point, wiring including circuit mains of all types along with accessories etc. complete as per specification No: WG-DM/PW Note:- Dismantled material of Point wiring / circuit mains/mains, sub-mains / telephone / LAN / WAN / TV wires / cables shall be retained by contractor.	P	6.26	500.00	3130.00
557	Dismantling the existing Telephone / Lan /	M	3.13	500.00	1565.00

	Wan / TV cables and wires of all sizes along with casing-capping / conduit complete as per specification No: WG-DM/PW Note:- Dismantled material of Point wiring / circuit mains/mains, sub-mains / telephone / LAN / WAN / TV wires / cables shall be retained by contractor.				
558	Dismantling the existing Aluminium/copper mains,submains wiring upto 10 sq.mm. along with accessories etc.Complete as per specification No: WG-DM/PW Note:- Dismantled material of Point wiring / circuit mains/mains, sub-mains / telephone / LAN / WAN / TV wires / cables shall be retained by contractor.	M	2.09	500.00	1045.00
DISMANTLING OF FITTINGS AND FAN					
559	Dismantling of existing fluorescent fittings of any type & size. Note:- Above rates are inclusive of transportation to the storage place as directed by Sectional Officer.	AU	10.44	500.00	5220.00
560	Dismantling the existing ceiling fan/exhaust fan /cabin fan/ bracket fan complete with accessories, G.I. down rod, frame etc. and making the site clear. Note:- Above rates are inclusive of transportation to the storage place as directed by Sectional Officer.	AU	25.07	300.00	7521.00
DISMANTLING OF DB					
561	Dismantling the existing switchgears, DB, and Bus bar of any size complete with/ without board or angle iron frame Note:- The rates for item no 5.12.1 to 5.12.3 are for dismantling and handing over to section office inclusive of transportation upto 25 km, between site and section office.	AU	61.63	50.00	3081.50
562	Making the site clear of dismantled DB and switch gears by refilling the holes with cement mortar & finishing in an approved manner. Note:- The rates for item no 5.12.1 to 5.12.3 are for dismantling and handing over to section office inclusive of transportation upto 25 km, between site and section office.	AU	47.00	100.00	4700.00
DISMANTLING OF CABLES					
563	Dismantling the existing cables of all types & size upto 10 sq mm. Note:- 1)The rates for item no 7.12.1 to 7.12.5 are for dismantling and handing over to section office inclusive of transportation upto 25 km, between site and section office.	M	10.44	500.00	5220.00
564	Dismantling the existing cables of all types & size above 10 sq mm upto 50 sq.mm.	M	15.67	500.00	7835.00
565	Dismantling the existing cables of all types & size above 50 sq mm.	M	20.89	100.00	2089.00

	Note:- 1)The rates for item no 7.12.1 to 7.12.5 are for dismantling and handing over to section office inclusive of transportation upto 25 km, between site and section office.				
566	Refilling the holes for dismantled cables with cement mortar & finishing in an aproved manner etc. complete	M	36.56	50.00	1828.00
	Note:- 1)The rates for item no 7.12.1 to 7.12.5 are for dismantling and handing over to section office inclusive of transportation upto 25 km, between site and section office.				
SECTION VI: EARTHING (EA)					
567	Providing earthing with Galvanised cast iron earth plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification No. EA-EP Note:- 1) Resistivity of the soil shall be checked and no of Terrc Compound bags shall be used as per guidelines elaborated in specification 2)Additional GI pipe required from earth pit & GI / Copper wire/strip more than 8 m in length from earth pit to installation to be provided separately. 3) Record entries for earthing work shall be maintained. 4) Requirement of no of bags shall be decided with respect to soil resistivity	AU	4196.72	50.00	209836.00
568	Providing earthing with Copper earth plate size 30 x 30 x 0.315 cm complete with all materials, testing & recording the results as per specification No. EA-EP Note:- 1) Resistivity of the soil shall be checked and no of Terrc Compound bags shall be used as per guidelines elaborated in specification 2)Additional GI pipe required from earth pit & GI / Copper wire/strip more than 8 m in length from earth pit to installation to be provided separately. 3) Record entries for earthing work shall be maintained. 4) Requirement of no of bags shall be decided with respect to soil resistivity	AU	7770.93	100.00	777093.00
569	Providing earthing with Galvanised cast iron earth plate size 60 x 60 x 0.6 cm with funnel with a wire mesh for watering and brick masonry block C.l. cover complete with all materials, testing & recording the results as per specification No. EA-EP Note:- 1) Resistivity of the soil shall be checked and no of Terrc Compound bags shall be used as per guidelines elaborated in specification 2)Additional GI pipe required from earth pit & GI / Copper wire/strip more than 8 m in	AU	5466.81	50.00	273340.50

	length from earth pit to installation to be provided separately. 3) Record entries for earthing work shall be maintained. 4) Requirement of no of bags shall be decided with respect to soil resistivity				
570	Providing pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod complete with all materials as per specification No. EA-EP Note:- 1) Resistivity of the soil shall be checked and no of Terrc Compound bags shall be used as per guidelines elaborated in specification 2)Additional GI pipe required from earth pit & GI / Copper wire/strip more than 8 m in length from earth pit to installation to be provided separately. 3) Record entries for earthing work shall be maintained. 4) Requirement of no of bags shall be decided with respect to soil resistivity	AU	1604.32	50.00	80216.00
571	Supply, Installation, Testing and commissioning of UL Certified / CPRI Tested Maintenance Free Earthing comprising of Electrode of 17.2 mm diameter Low Carbon Steel with 250 micron Molecular Copper Bonded Earthing Rod of Length 3m along with 25 kg Carbon Based environment friendly back fill Ground Enhancing compound required to fill up the excavated earth with required quantity as per specification no EA-MOBI Note:- 1) Resistivity of the soil shall be checked and no of Terrc Compound bags shall be used as per guidelines elaborated in specification 2)Additional GI pipe required from earth pit & GI / Copper wire/strip more than 8 m in length from earth pit to installation to be provided separately. 3) Record entries for earthing work shall be maintained. 4) Requirement of no of bags shall be decided with respect to soil resistivity	AU	15681.83	20.00	313636.60
572	Providing earthing with Copper earth plate size 60 x 60 x 0.315 cm with funnel with a wire mesh for watering and brick masonry block C.I. cover with minimum 25 kg of maintenance free earth conductivity enhancing mineral earthing compound complete with all materials, testing & recording the results as per specification no ESE -LA Note:- 1) Resistivity of the soil shall be checked and no of Terrc Compound bags shall be used as per guidelines elaborated in specification 2)Additional GI pipe required from earth pit &	AU	20686.97	50.00	1034348.50

	GI / Copper wire/strip more than 8 m in length from earth pit to installation to be provided separately. 3) Record entries for earthing work shall be maintained. 4) Requirement of no of bags shall be decided with respect to soil resistivity				
	Accessories				
573	Supplying and erecting aluminium strip of required sizes used for earthing on wall and/or any other purpose with necessary aluminium clamps fixed on wall painted with bituminous paint in an approved manner with joints required. as per specification No (EA-EP).	KG	406.31	150.00	60946.50
574	Supplying and erecting copper strip of required size used for earthing on wall and/or any other purpose with necessary copper clamps fixed on wall painted with bituminous paint in an approved manner with joints required. as per specification No (EA-EP).	KG	903.48	150.00	135522.00
575	Supplying and erecting G.I. strip of required size used for earthing on wall and/or any other purpose with necessary GI clamps fixed on wall painted with bituminous paint in an approved manner with joint required. as per specification No (EA-EP).	KG	165.03	100.00	16503.00
576	Supplying and erecting Annealed bare copper wire of high purity of different sizes used for earthing on wall with necessary copper clamps fixed on wall/cable/conduit with screws in an approved manner.	KG	925.41	100.00	92541.00
577	Supplying and erecting G. I. Earth Wire of high purity of different sizes used for earthing or any other purposes on wall with necessary G. I. Clamps fixed on wall/cable/ conduit with screws in an approved manner.	KG	158.76	100.00	15876.00
SECTION VII : MISCELLANEOUS ITEMS					
	Lightning Conductor and Accessories				
578	Supplying & erecting conventional spike type air termination suitable to carry lightning stroke made up of heavy gauge 40 mm dia copper pipe of standard length with 5 Nos. copper spikes fixed on copper ball as air terminals duly threaded in copper pipe erected on provided foundation in an approved manner	AU	4564.38	20.00	91287.60
579	Providing and Back filling earth conductivity enhancing mineral earthing compound of 25 kg Bag complete.	AU	5998.45	20.00	119969.00
	Other Civil Work				
580	Making trench in soft soil of suitable width and depth as per IS for laying provided L.T cable up to 25 sq mm complete. As per specification No. CW-EXN-CTR Note:- 1) For use of additional bricks between and above cables , for additional cable laid by the side in the same trench, add Rs. 60/- per meter.	M	133.69	20.00	2673.80

	2) For cables above 25 sq. mm bricks be laid on the cable width wise & overall rate shall be increased by Rs. 30/- per meter. 3) Reduce rate by Rs. 20/- per meter in case riddled soil is used instead of screened sand bed.				
581	Making the trench in Hard murum/Tar road of suitable width and depth as per IS for laying provided L.T cable up to 10 sq.mm.complete. As per specification No. CW-EXN-CTR Note:- 1) For use of additional bricks between and above cables , for additional cable laid by the side in the same trench, add Rs. 60/- per meter. 2) For cables above 25 sq. mm bricks be laid on the cable width wise & overall rate shall be increased by Rs. 30/- per meter. 3) Reduce rate by Rs. 20/- per meter in case riddled soil is used instead of screened sand bed.	M	159.80	20.00	3196.00
582	Making the trench in Hard murum/Tar road of suitable width and depth as per IS for laying provided L.T cable of 25 sq mm & above and covered with Half round hume pipe complete. As per specification no. CW-EXN-CTR Note:- 1) For use of additional bricks between and above cables , for additional cable laid by the side in the same trench, add Rs. 60/- per meter.2) For cables above 25 sq. mm bricks be laid on the cable width wise & overall rate shall be increased by Rs. 30/- per meter.3) Reduce rate by Rs. 20/- per meter in case riddled soil is used instead of screened sand bed.	M	276.79	20.00	5535.80
583	Making the trench in soft soil of suitable width and depth as per IS for laying provided L.T cable of 25 sq mm & above and covered with Half round hume pipe complete. As per specification no. CW-EXN-CTR Note:- 1) For use of additional bricks between and above cables , for additional cable laid by the side in the same trench, add Rs. 60/- per meter. 2) For cables above 25 sq. mm bricks be laid on the cable width wise & overall rate shall be increased by Rs. 30/- per meter. 3) Reduce rate by Rs. 20/- per meter in case riddled soil is used instead of screened sand bed.	M	250.68	20.00	5013.60
584	Excavating hard Rock or bituminous road (B.T.) by chiseling for preparing pit for poles stay or earth plates or for laying cables, pipes & clearing the site by removing debris & making the site good.	M3	709.21	20.00	14184.20
585	Excavating Hard Murum/metal road (B.T.) by chiselling for preparing pit for poles stay or earth plates or for laying cables, pipes & clearing the site by removing debris & making the site good.	M3	174.43	20.00	3488.60

586	Excavating soft Murum/Soil road by chiselling for preparing pit for poles stay or earth plates or for laying cables, pipes & clearing the site by removing debris & making the site good.	M3	135.78	20.00	2715.60
587	Providing recess in brick wall suitable for erection of exhaust fan up to 450mm. sweep complete with grouting of nut, bolts, plastering and colour washing to match the colour of the wall for the wall thickness of 225 mm Note:1) Reduce overall rate by 20% if separate angle iron is provided. 2) For ceiling fans the extra down rod shall be provided only if the roof / slab height is more than 4.0 m 3)Before erection , accessories such as hook,shackle,nuts,bolts, U clamps,quater pin,down rod & checknuts shall be checked thoroughly for its quality.	AU	300.81	20.00	6016.20
588	Providing recess in brick wall suitable for erection of exhaust fan up to 450mm. sweep complete with grouting of nut, bolts, plastering and colour washing to match the colour of the wall for the wall thickness of 375 mm. Note:1) Reduce overall rate by 20% if separate angle iron is provided. 2) For ceiling fans the extra down rod shall be provided only if the roof / slab height is more than 4.0 m 3)Before erection , accessories such as hook,shackle,nuts,bolts, U clamps,quater pin,down rod & checknuts shall be checked thoroughly for its quality.	AU	366.61	20.00	7332.20
589	Supplying & erecting 22 guage G.I sheet metal CAWL sector shaped with 25 mm x 25mm x 3mm angle iron frame, metal mesh to avoid birds entry with necessary material, suitable for exhaust fan of 300 mm as per specification no FG-FAS/MSC Note:1) Reduce overall rate by 20% if separate angle iron is provided. 2) For ceiling fans the extra down rod shall be provided only if the roof / slab height is more than 4.0 m 3)Before erection , accessories such as hook,shackle,nuts,bolts, U clamps,quater pin,down rod & checknuts shall be checked thoroughly for its quality.	AU	1086.26	20.00	21725.20
590	Supplying & erecting 22 guage G.I sheet metal CAWL sector shaped with 25 mm x 25mm x 3mm angle iron frame, metal mesh to avoid birds entry with necessary material, suitable for exhaust fan of 400 mm as per specification no FG-FAS/MSC Note:1) Reduce overall rate by 20% if separate angle iron is provided. 2) For ceiling fans the extra down rod shall be	AU	1184.44	20.00	23688.80

	provided only if the roof / slab height is more than 4.0 m 3)Before erection , accessories such as hook,shackle,nuts,bolts, U clamps,quater pin,down rod & checknuts shall be checked thoroughly for its quality.				
	Public Address System (FF-PAS)				
591	Supplying, erecting, testing and commissioning amplifier 120 W for Public address system suitable to operate on 230 Volts A.C. / 12 Volts D.C. supply as per specification No. FFPA/ AFR	AU	19523.42	20.00	390468.40
592	Supplying, erecting, testing and commissioning sound column 15 Watts complete as per specification No. FFPA/ SOC	AU	2978.86	20.00	59577.20
593	Supplying, erecting, testing and commissioning microphone as per specification No. FF-PA/MIC	AU	5691.38	20.00	113827.60
594	Supplying & erecting, stand for microphone. (Similar to AHUJA make model DGN)	AU	2009.58	20.00	40191.60
595	Supplying & erecting, Table stand for microphone. (Similar to AHUJA make model DGT)	AU	1252.34	20.00	25046.80
596	Supplying erecting, testing to 2 core shielded Microphone cable as per specification No. FF-PA/MCC	M	143.10	20.00	2862.00
	FIRE ALARM SYSTEM				
597	S/I/T/C of UL approved 32 bit microprocessor based TCP/IP networkable, Intelligent Addressable Fire Alarm Control panel with 1 Loop with battery back up for minimum 48 hours. The panel shall be networkable & expandable without changing the cabinet. The panel should be modular, decentralized. The panel shall consisting with minimum 240 character LCD display. Panel Should have onboard 16 relay output for integration with other system like PA, Access control etc. Panel should be able to record events history. Each loop should be capable to have atleast 99 elements / devices.(One loop is spare) The FACP shall also be provided with a dedicated standby power supply system (battery and charger .The FACP shall have network driver cards to integrate with repeater panel . The FACP shall consists of following other components. Auto dialing system shall be provided to indicating fire. 1. Single Loop Panel 2. Bacnet card to integrate with third party systems.	AU	147306.67	3.00	441920.01
598	Supply, Installation, Testing and commissioning of Vds approved Soft Addressable type intelligent multicriteria detector with base for use as smoke detector combined both with automatic electronic addressing, microprocessor type and must have integrated short circuit isolator (in case short circuit isolator is not inbuilt, the price of this item shall be inclusive of an independent short-circuit isolator along with each detector).	AU	4250.00	30.00	127500.00

	The detector shall have IP 44 protection category & ambient temperature -25°C to + 60°C. The quoted item shall completely comply to the technical specification and required accessories including JB & glands				
599	Supply, Installation, Testing and commissioning of Vds approved Soft Addressable type intelligent multicriteria detector with base for use as heat detector with automatic electronic addressing, microprocessor type and must have integrated short circuit isolator (in case short circuit isolator is not inbuilt, the price of this item shall be inclusive of an independent short-circuit isolator along with each detector). The detector shall have IP 44 protection category & ambient temperature - 25°C to + 60°C. The quoted item shall completely comply to the technical specification and required accessories including JB & glands.	AU	4550.00	10.00	45500.00
600	Supply, Installation, Testing and commissioning of multi tone sounder cum flasher with 32 selectable tone shall have 99 db output @ 1m , with necessary interfacing module having inbuilt fault isolator with IP 66 Box and required accessories including JB & glands	AU	5750.00	25.00	143750.00
601	Supply, Installation testing & commissioning of Addressable Manual call points . The same shall be of ABS plastic, square in shape and 4 "x 4" in size. It shall have a "Break glass" message embedded on the glass.	AU	6166.67	25.00	154166.75
INSECT KILLER					
602	Supplying, erecting & commissioning of Electric UV Mosquito Lamp(2 x20 W)(Note :Work on all kind of insects such as mosquitos, flies, wasps, bees & moths)	AU	10766.67	20.00	215333.40
FLAME FITTINGS					
603	Supplying, Installing, Testing and Commissioning of Flameproof /weatherproof IP65 Tube light fitting suitable for 1 x 40 watt Fluorescent Fixture with control gear box with external M.S. Reflector and fluorescent tube and electronic choke. Zone I & Zone II Gas Group IIA & IIB. Complete as directed. Should be Crompton Greaves or approved make. Complete as per attached technical specification TS-FLP-1	AU	8251.19	30.00	247535.70
604	Supply, Installation, Testing and Commissioning of Flameproof / weatherproof IP65 Junction Box in aluminium alloy LM6 construction with internal dia 100mm depth 60mm with 3/4" ET entries 4 way certified by CMRS for group IIA & IIB Terminal, 6 Nos of 2.5 sqmm, Connectwell / Phoenix or approved make.	AU	592.52	30.00	17775.60
605	Supplying, Installing, Testing and Commissioning of IP 65 Flameproof / weatherproof 18" Single Phase Exhaust fan fitted with FLP motor 0.33 H.P. 1440 RPM. fan is certified by CMRI FOR Zone I & II Gas GROUP IIA & IIB. with Louvers only with mounting bracket. Should be	AU	14812.16	20.00	296243.20

	FCG/Sudhir/Prompt or approved make. Complete as per attached technical specification TS-FLP-2				
	SENSORS				
606	SITC of motion sensors for light & AC control inside the closed cabin of approved make.	AU	4000.00	50.00	200000.00