

ENCLOSURE-19					
Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
SECTION - I WIRING					
	Point Wiring (WG-PW)				
1	<p>Point wiring in PVC trunking (casing-capping) with 1.5 sq.mm (2+1E) FRLSH grade copper wire, flush type switch, earthing and required accessories as per specification No: WGPW/SW</p> <p>Notes</p> <p>1)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>2) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>3) For concealed type wiring multistrand wires shall be used preferably.</p> <p>4) Earth Wire of minimum 1.5 sq mm Shall be terminated in each point</p>	P	1.00	395.90	
2	<p>Point wiring for independent plug in 20 mm metal conduit with 1.5 sq.mm (2+1E) FRLSH grade copper wire, flush type switch, earthing and required accessories as per specification No: WG-PW/SW</p> <p>Notes</p> <p>Notes</p> <p>1)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>2) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>3) For concealed type wiring multistrand wires shall be used preferably.</p> <p>4) Earth Wire of minimum 1.5 sq mm Shall be terminated in each point</p> <p>rate of Point wiring with FRLSH Wire</p>	P	1.00	1020.66	
3	<p>Point wiring for independent plug in 20 mm FRLS grade HMS PVC conduit with 1.5 sq.mm (2+1E) FRLSH grade copper wire, flush type switch, earthing and required accessories as per specification No: WG-PW/SW</p> <p>Notes</p> <p>Notes</p> <p>1)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>2) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>3) For concealed type wiring multistrand wires shall be used preferably.</p> <p>4) Earth Wire of minimum 1.5 sq mm Shall be terminated in each point</p> <p>rate of Point wiring with FRLSH Wire</p>	P	1.00	607.40	

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4	<p>Wiring for plug on board with Switch socket, copper wiring and earthing as per specification No: WG-PW/SW</p> <p>Notes</p> <p>Notes</p> <p>1)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>2) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>3) For concealed type wiring multistrand wires shall be used preferably.</p> <p>4) Earth Wire of minimum 1.5 sq mm Shall be terminated in each point</p> <p>rate of Point wiring with FRLSH Wire</p>	P	1.00	125.82	
5	<p>Wiring for plug on board with Switch socket concealed type, copper wiring and earthing and with modular accessories as per specification No: WG-PW/CW</p> <p>Notes</p> <p>Notes</p> <p>1)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>2) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>3) For concealed type wiring multistrand wires shall be used preferably.</p> <p>4) Earth Wire of minimum 1.5 sq mm Shall be terminated in each point</p> <p>rate of Point wiring with FRLSH Wire</p>	P	1.00	418.67	
6	<p>Point wiring for light/fan/bell hybrid type (Surface type under false ceiling and concealed type for drops & switch boards on walls) in min 20 mm PVC conduit / casing n capping with 1.5 sq.mm. (2+1E) FR grade copper wires, modular type switch, earthing and required accessories as per specification No: WGPW/</p> <p>HW</p> <p>Notes</p> <p>1)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>2) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>3) For concealed type wiring multistrand wires shall be used preferably.</p> <p>4) Earth Wire of minimum 1.5 sq mm Shall be terminated in each point</p> <p>rate of Point wiring with FRLSH Wire</p>	p	1.00	596.56	
7	<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)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>2) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>3) For concealed type wiring multistrand wires shall be used preferably.</p> <p>4) Earth Wire of minimum 1.5 sq mm Shall be terminated in each point</p> <p>rate of Point wiring with FRLSH Wire</p>	AU	1.00	71.59	
8	<p>Refilling the holes for dismantled point wiring with cement mortar & finishing in an approved manner.</p>	P	1.00	39.05	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
9	<p>Secondary point wiring for additional light/ bell point, concealed type in min 20 mm PVC conduit with 1.5 sq.mm. (2+1E) FRLSH grade copper wires with required accessories as per specification No: WG-PW/CW</p> <p>Notes</p> <p>1)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>2) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>3) For concealed type wiring multistrand wires shall be used preferably.</p> <p>4) Earth Wire of minimum 1.5 sq mm Shall be terminated in each point</p> <p>rate of Point wiring with FRLSH Wire</p>	p	1.00	221.27	
10	<p>Secondary point wiring for additional light/ bell point in PVC trunking (casing-capping) with 1.5 sq.mm (2+1E) FRLSH grade copper wire with required accessories as per specification No: WG-PW/SW</p> <p>Notes</p> <p>1)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>2) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>3) For concealed type wiring multistrand wires shall be used preferably.</p> <p>4) Earth Wire of minimum 1.5 sq mm Shall be terminated in each point</p> <p>rate of Point wiring with FRLSH Wire</p>	p	1.00	213.68	
11	<p>Secondary point wiring for additional light/ bell point in min 20 mm metal conduit with 1.5 sq.mm (2+1E) FRLSH grade copper wire with required accessories as per specification No: WG-PW/SW</p> <p>Notes</p> <p>1)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>2) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>3) For concealed type wiring multistrand wires shall be used preferably.</p> <p>4) Earth Wire of minimum 1.5 sq mm Shall be terminated in each point</p> <p>rate of Point wiring with FRLSH Wire</p>	p	1.00	380.71	
12	<p>Point wiring for independent plug in PVC trunking (casing capping) with 1.5 sq.mm (2+1E)FRLSH grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW .</p> <p>Notes</p> <p>1)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>2) For covering at wall entries acrylic sheet of appropriate size shall be provided.</p> <p>3) For concealed type wiring multistrand wires shall be used preferably.</p> <p>4) Earth Wire of minimum 1.5 sq mm Shall be terminated in each point</p> <p>rate of Point wiring with FRLSH Wire</p>	P	1.00	811.32	
	Concealing of Conduits				
13	<p>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,</p>	M	1.00	213.68	

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14	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,	M	1.00	260.32	
15	supplying and erecting HMS PVC conduit FRLS grade 20 mm dia. with necessary accessories in wall/floor with chiselling appropriately as per specification No: WG-MA/CC.	M	1.00	122.57	
16	Supplying & laying HMS PVC conduit 20 mm dia. With necessary accessories in RCC work/false ceiling/false flooring as per specification No. WG-MA/CC.	M	1.00	107.38	
17	Supplying and erecting HMS PVC conduit FRLS grade 25 mm dia. with necessary accessories in wall/floor with chiselling appropriately as per specification No: WG-MA/CC.	M	1.00	137.75	
18	Supplying and laying HMS PVC conduit FRLS grade 25 mm dia with necessary accessories in RCC work/false ceiling/false flooring as per specification No. WG-MA/CC.	M	1.00	126.90	
19	Supplying and erecting HMS PVC conduit FRLS grade 32 mm dia. with necessary accessories in wall/floor with chiselling appropriately as per specification No: WG-MA/CC	M	1.00	195.24	
20	Concealing of provided G.I. pipe/H.G. screwed conduit/PVC pipe in wall/floor/false ceiling complete as per specification	M	1.00	80.26	
	PVC Flexible/Rigid Conduits/ Casing-n-capping / Under Floor Trunking/Raceways and Box System (WG-MA/CON)				
21	Supplying and erecting 20mm dia. corrugated flexible polypropylene conduit	M	1.00	17.35	
22	Supplying and erecting 25 mm dia. corrugated flexible polypropylene conduit	M	1.00	22.78	
23	Supplying and erecting HMS PVC conduit FRLS grade 20 mm dia. with PVC accessories on wall / ceiling as per specification	M	1.00	88.94	
24	Supplying and erecting HMS PVC conduit FRLS grade 25 mm dia. with PVC accessories on wall /ceiling as per specification	M	1.00	104.13	
25	Supplying and erect Supplying and erecting HMS PVC conduit FRLS grade 32 mm dia. with PVC accessories on wall / ceiling as per specification ting HMS PVC conduit 32 mm dia. with PVC accessories on wall / ceiling as per specification	M	1.00	147.51	
26	Supplying and erecting PVC trunking (PVC casing-n-capping) of size 20 mm with accessories on wall/ceiling as per specification	M	1.00	44.47	
27	Supplying and erecting PVC trunking (PVC casing-n-capping) of size 25 mm with accessories on wall/ceiling as per specification	M	1.00	47.72	
28	Supplying and erecting PVC trunking (PVC casing-n-capping) of size 40 mm with accessories on wall/ceiling as per specification	M	1.00	87.86	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
29	Supplying and erecting PVC box trunking of size 50x16/20 mm. with accessories on wall/ceiling as per specification	M	1.00	109.55	
30	Supplying and laying PVC trunking (PVC casing-n-capping) of size 50x50mm. with accessories on wall/ceiling as per specification	M	1.00	182.22	
31	Supplying and laying PVC trunking (PVC casing-n-capping) of size 75x50mm. with accessories on wall/ceiling as per specification	M	1.00	394.81	
32	Supplying and laying PVC trunking (PVC casing-n-capping) of size 75x75mm. with accessories on wall/ceiling as per specification	M	1.00	510.87	
33	Supplying and laying PVC trunking (PVC casing-n-capping) of size 100x50mm. with accessories on wall/ceiling as per specification	M	1.00	582.46	
34	Supplying and laying PVC slotted box trunking of size 100x100 mm.with accessories on wall/ceiling as per specification	M	1.00	513.04	
35	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	1.00	53.15	
36	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	1.00	63.99	
37	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	1.00	73.76	
	Bunch of Wires (WG-MA/BW)				
38	Supplying & erecting mains with 2x1.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification Note:- 1) 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 . 2) 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. 3) For all types of wiring stranded copper wires shall be invariably used.	M	1.00	54.93	
39	Supplying & erecting mains with 2x2.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification Note:- 1) 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 . 2) 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. 3) For all types of wiring stranded copper wires shall be invariably used.	M	1.00	86.06	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
40	<p>Supplying & erecting mains with 2x4 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification</p> <p>Note:-</p> <p>1) 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 .</p> <p>2) 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.</p> <p>3) For all types of wiring stranded copper wires shall be invariably used.</p>	M	1.00	132.48	
41	<p>Supplying & erecting mains with 2x6 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification</p> <p>Note:-</p> <p>1) 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 .</p> <p>2) 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.</p> <p>3) For all types of wiring stranded copper wires shall be invariably used.</p>	M	1.00	193.95	
42	<p>Supplying & erecting mains with 1x10 sq.mm FRLSH copper PVC insulated Green wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/ BW</p> <p>Note:-</p> <p>1) For all types of wiring Multi stranded copper wires shall be invariably used.</p>	M	1.00	332.99	
43	<p>Supplying & erecting mains with 1x16 sq.mm FRLSH copper PVC insulated Green wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/ BW</p> <p>Note:-</p> <p>1) For all types of wiring Multi stranded copper wires shall be invariably used.</p>	M	1.00	433.31	
44	<p>Supplying & erecting mains with 3x2.5 sq.mm FRLHS copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification</p> <p>Note:-</p> <p>1) 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 .</p> <p>2) 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.</p> <p>3) For all types of wiring stranded copper wires shall be invariably used.</p>	M	1.00	100.87	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
45	Supplying & erecting mains with 3x4 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification Note:- 1) 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 . 2) 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. 3) For all types of wiring stranded copper wires shall be invariably used.	M	1.00	146.43	
46	Supplying & erecting mains with 3x6 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification BW Note:- 1) 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 . 2) 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. 3) For all types of wiring stranded copper wires shall be invariably used.	M	1.00	212.59	
47	Supplying & erecting mains with 3x10 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification Note:- 1) 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 . 2) 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. 3) For all types of wiring stranded copper wires shall be invariably used.	M	1.00	376.37	
48	Supplying and erecting PVC insulated PVC round sheathed 1.5 sq.mm (30 no. x 0.25 mm dia.) 3 core flexible multi stranded copper Industrial cable for voltage grade up to 1.1 kV	M	1.00	66.16	
49	Supplying and erecting PVC insulated PVC round sheathed 2.5 sq.mm (50 no. x 0.25 mm dia.) 3 core flexible multi stranded copper Industrial cable for voltage grade up to 1.1 Kv	M	1.00	104.13	
50	Supplying and erecting PVC insulated PVC round sheathed 4 sq.mm (56 no. x 0.30 mm dia.) 3 core flexible multi stranded copper Industrial cable for voltage grade up to 1.1 Kv	M	1.00	157.27	
	Wiring Accessories				
51	Supplying and erecting Ceiling rose / Batten holder / Slanting holder / hanging cord switch / hanging bell push / pendent holder bakelite base 6A. erected on filled polypropylene board or polished double wooden block/ PVC junction box.	AU	1.00	42.30	
52	Supplying adaptor for lamp holder 230 V.A.C. supply.	AU	1.00	35.79	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
53	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.	AU	1.00	100.87	
54	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	AU	1.00	106.30	
55	Supplying and erecting ISI markflush 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.	AU	1.00	135.58	
56	Supplying and erecting flush type, shockproof plug socket 6 pin 6A and 16A with switch 16A combined unit erected on filled polypropylene board or double wooden block / 3mm thick hylam sheet / 4mm thick plywood pasted with 1.5 mm thick sunmica with S M screws and duly connected.	AU	1.00	150.77	
57	Supplying and erecting flush type shockproof plug socket 6A & 16A (6 pin) with 16A switch combined with indicator lamp and fuse with gang box on wooden board.	AU	1.00	175.71	
58	Supplying and erecting recess type 3 pin plug socket 6A with piano switch 6A combined unit erected on M.S box made up of 16 gauge sheet and covered with sunmica and with connecting leads	AU	1.00	125.82	
	Modular switches and Accessories				
59	Supplying and erecting ISI mark modular type switch 6A / 10A duly erected on provided plate and box with wiring connections complete.	AU	1.00	98.09	
60	Supplying and erecting ISI mark modular type switch 16A duly erected on provided plate and box with wiring connections complete	AU	1.00	199.86	
61	Supplying and erecting ISI mark modular type bell-push 6A / 10A duly erected on provided plate and box with wiring connections complete	AU	1.00	189.19	
62	Supplying and erecting ISI mark modular type Two way switch 6A / 10A (2 Module), duly erected on provided plate and box with wiring connections complete	AU	1.00	209.70	
63	Supplying and erecting ISI mark modular type switch 16 / 20 A with indicator, duly erected on provided plate and box with wiring connections complete	AU	1.00	243.30	
64	Supplying and erecting ISI mark modular type D.P. switch 32A with indicator, duly erected on provided plate and box with wiring connections complete	AU	1.00	559.62	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
65	Supplying and erecting ISI mark modular type 3 pin 6A multi sockets with safety shutter, duly erected on provided plate and box with wiring connections complete	AU	1.00	135.20	
66	Supplying and erecting ISI mark modular type 3 pin 6 / 16A multi socket with safety shutter, duly erected on provided plate and box with wiring connections complete.	AU	1.00	252.35	
67	Supplying and erecting ISI mark modular type indicator lamp, duly erected on provided plate and box with wiring connections complete	AU	1.00	95.73	
68	Supplying and erecting ISI mark modular type 6 / 16A fuse unit, duly erected on provided plate and box with wiring connections complete.	AU	1.00	119.31	
69	Supplying and erecting ISI mark modular type T.V. socket single outlet, duly erected on provided plate and box with wiring connections complete.	AU	1.00	167.26	
70	Supplying and erecting ISI marked modular type telephone socket one gang with safety shutter, duly erected on provided plate and box with wiring connections complete.	AU	1.00	192.36	
71	Supplying and erecting ISI mark modular type computer jack RJ 45 with safety shutter, duly erected on provided plate and box with wiring connections complete.	AU	1.00	484.25	
72	Supplying and erecting ISI mark modular type bell indicator, duly erected on provided plate and box with wiring connections	AU	1.00	417.95	
73	Supplying and erecting ISI mark modular type buzzer 220 / 250V, duly erected on provided plate and box with wiring connections complete	AU	1.00	539.14	
74	Supplying and erecting ISI mark modular type (two module) electronic step regulator for fan, duly erected on provided plate and box with wiring connections complete.	AU	1.00	685.66	
75	Supplying and erecting ISI mark modular type blanking plate one module, duly erected on provided plate & box.	AU	1.00	38.70	
76	Supplying and erecting ISI mark modular type blanking plate two module, duly erected on provided plate & box.	AU	1.00	32.54	
77	Supplying and erecting PVC Surface modular switch box with double mounting plate for 1 module complete duly erected in an approved manner.	AU	1.00	355.80	
78	Supplying and erecting PVC Surface modular switch box with double mounting plate for 2 module duly erected in an approved manner.	AU	1.00	359.03	
79	Supplying and erecting PVC Surface modular switch box with double mounting plate for 3 module duly erected in an approved manner.	AU	1.00	394.77	

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80	Supplying and erecting PVC Surface modular switch box with double mounting plate for 4 module duly erected in an approved manner.	AU	1.00	464.69	
81	Supplying and erecting PVC Surface modular switch box with double mounting plate for 6 module duly erected in an approved manner.	AU	1.00	578.38	
82	Supplying and erecting PVC Surface modular switch box with double mounting & front plate for 8 module complete duly connected.	AU	1.00	671.34	
83	Supplying and erecting PVC Surface modular switch box with double mounting plate for 12 module duly erected in an approved manner.	AU	1.00	903.83	
84	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	1.00	238.62	
85	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	1.00	239.71	
86	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	1.00	271.16	
87	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	1.00	300.45	
88	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	1.00	363.36	
89	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	1.00	452.30	
90	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.	AU	1.00	567.27	
91	Supplying and erecting 16 / 20 / 25 A starter (modular range) 2 module for AC unit on provided box complete & duly concealed with necessary material and connected.	AU	1.00	372.03	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
92	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	1.00	229.95	
93	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	1.00	255.98	
	Telephone Wiring(WG-TW/TW)				
94	Supplying & erecting 2 pair telephone copper cable 0.5 mm dia. with high density polyethylene insulation, polyester taped, Nylon Rip Cord & grey colour sheathed with FR PVC, conforming to ITD specification S/WS 113C laid in provided PVC casing capping/conduit as per specification No. WG-TW	M	1.00	24.95	
95	Supplying & erecting telephone copper c Supplying & erecting 3 pair telephone copper cable 0.5 mm dia. with high density polyethylene insulation, polyester taped, Nylon Rip Cord & grey colour sheathed with FR PVC, conforming to ITD specification S/WS 113C laid in provided PVC casing capping/conduit as per specification No. WG-TWable 3 pair with 0.5 mm dia. laid in provided PVC casing capping / conduit as per specification	M	1.00	17.90	
96	Supplying & erecting 4 pair telephone copper cable 0.5 mm dia. with high density polyethylene insulation, polyester taped, Nylon Rip Cord & grey colour sheathed with FR PVC, conforming to ITD specification S/WS 113C laid in provided PVC casing capping/conduit as per specification No. WG-TW	M	1.00	23.54	
97	Supplying & erecting 5 pair telephone copper cable 0.5 mm dia. with high density polyethylene insulation, polyester taped, Nylon Rip Cord & grey colour sheathed with FR PVC, conforming to ITD specification S/WS 113C laid in provided PVC casing capping/conduit as per specification No. WG-TW	M	1.00	29.31	
98	Supplying & erecting 10 pair telephone copper cable 0.5 mm dia. with high density polyethylene insulation, polyester taped, Nylon Rip Cord & grey colour sheathed with FR PVC, conforming to ITD specification S/WS 113C laid in provided PVC casing capping/conduit as per specification No. WG-TW	M	1.00	56.79	
99	Supplying & erecting 20 pair telephone copper cable 0.5 mm dia. with high density polyethylene insulation, polyester taped, Nylon Rip Cord & grey colour sheathed with FR PVC, conforming to ITD specification S/WS 113C laid in provided PVC casing capping/conduit as per specification No. WG-TW	M	1.00	105.22	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
100	Supplying & erecting 50 pair telephone copper cable 0.5 mm dia. with high density polyethylene insulation, polyester taped, Nylon Rip Cord & grey colour sheathed with FR PVC, conforming to ITD specification S/WS 113C laid in provided PVC casing capping/conduit as per specification No. WG-TW	M	1.00	327.56	
101	Supplying & erecting 10 pair, 0.5mm dia, jelly filled unarmoured telephone copper cable with poly-al laminate moisture barrier, laid in provided PVC casing capping/conduit as per specification No. WG-TW	M	1.00	121.02	
102	Supplying & erecting jelly filled unarmoured telephone copper cable 20 pair with 0.5 mm dia. laid in provided PVC casing capping / conduit as per specification	M	1.00	187.64	
103	Supplying & erecting Jelly filled armoured telephone cable 10 pair with 0.5 mm dia. laid in provided trench as per specification	M	1.00	179.93	
104	Supplying & erecting 10 pair, 0.5mm dia, jelly filled unarmoured telephone copper cable with poly-al laminate moisture barrier, laid in provided PVC casing capping/conduit as per specification No. WG-TW	M	1.00	262.12	
105	Supplying & erecting 50 pair, 0.5mm dia, jelly filled unarmoured telephone copper cable with poly-al laminate moisture barrier, laid in provided PVC casing capping/conduit as per specification No. WG-TW	M	1.00	564.36	
106	Supplying & erecting copper jumper wire with 0.5 mm dia as per specification	M	1.00	23.86	
107	Supplying & installing co-axial copper cable low voltage grade RG-11 as per specification	M	1.00	75.93	
108	Supplying & installing co-axial copper cable low voltage grade RG-6 as per specification	M	1.00	50.98	
109	Supplying erecting VGA cable to be laid in Provided conduits and Terminating as per specifications having 15mtr cord length with male/female VGA connectors as per requirements complete	AU	1.00	2904.69	
110	Supplying & installing HDMI cable low voltage grade as per specification as per specifications having 3 mtr cord length with male/female 19pin HDMI connectors as per requirements complete.	AU	1.00	1351.47	
111	Supplying & installing HDMI cable low voltage grade as per specification as per specifications having 5 mtr cord length with male/female 19pin HDMI connectors as per requirements complete.	AU	1.00	2450.22	
112	Supplying & installing HDMI cable low voltage grade as per specification as per specifications having 10 mtr cord length with male/female 19pin HDMI connectors as per requirements complete	AU	1.00	4593.49	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
113	Supplying & installing HDMI cable low voltage grade as per specification as per specifications having 20 mtr cord length with male/female 19pin HDMI connectors as per requirements complete.	AU	1.00	7076.26	
114	Supplying & installing HDMI cable low voltage grade as per specification as per specifications having 25 mtr cord length with male/female 19pin HDMI connectors as per requirements complete	AU	1.00	10644.76	
115	Supplying & installing Audio Video cable low voltage grade as per specification having 15mtr cord length with required connectors 3RCA X 3RCA CABLE complete.	AU	1.00	3854.85	
116	Supplying & erecting HDMI extender over RJ45 Ethernet Cable Cat5e/6/7 60M 200ft complete.	AU	1.00	6221.55	
117	Supply Installation Testing & commissioning of DVI to Highspeed Category 2 HDMI Convertors Supporting Full HD 1080p, 2K, and 4K video up to 30 ft lengths, 3D having 24k gold-plated 19-pin Type A connectors with High-flex CL3-rated jacket. The Convertor should be RoHS compliant complete.	AU	1.00	7845.27	
	TELEPHONE ACCESSORIES (WG-TW/TA)				
118	Supplying, erecting & commissioning MDF Box 50x50 pairs made from min. 1.5mm thick MS sheet as per specification	AU	1.00	2377.55	
119	Supplying, erecting & commissioning MDF Box 100x100 pairs made from min. 1.5mm thick MS sheet as per specification	AU	1.00	3853.76	
120	Supplying, erecting & commissioning MDF Box 150x150 pairs made from min. 1.5mm thick MS sheet as per specification	AU	1.00	5392.88	
121	Supplying, erecting & commissioning 10 pairs FR junction box with moulded plastic enclosure as per specification	AU	1.00	767.93	
122	Supplying, erecting & commissioning 20 pairs FR junction box with moulded plastic enclosure as per specification	AU	1.00	928.46	
123	Supplying, erecting & commissioning 30 pairs FR junction box with moulded plastic enclosure as per specification	AU	1.00	1245.18	
124	Supplying, erecting & commissioning 50 pairs FR junction box with moulded plastic enclosure as per specification	AU	1.00	1607.45	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
125	Supplying, erecting & commissioning 100 pairs M.S. junction box made from min. 1.5mm thick MS sheet as per specification	AU	1.00	2505.54	
126	Supplying, erecting & commissioning 150 pairs M.S. junction box made from min. 1.5mm thick MS sheet as per specification	AU	1.00	3168.26	
127	Supplying, erecting & commissioning 10 pair module for connection & disconnection of telephone cable as per specification	AU	1.00	395.90	
128	Supplying & erecting over voltage protection magazine suitable for 10 pair as per specification	AU	1.00	429.52	
129	Supplying & erecting rosette box RJ type Bakelite box on wall with LED indication duly connected as per specification	AU	1.00	123.65	
	COMPUTER CABLING(WG-COC)				
130	Supplying & installing Cat-6 cable suitable for LAN / WAN Computer net-working as per specification	M	1.00	57.49	
131	Supplying and fixing Cat-6 LSZH cable suitable for LAN / WAN as per specification in approved manner	M	1.00	71.59	
132	Supplying and installing enhanced cat-6 cable with 4-connector channel, performance test report as per ANSI/TIA-568.2-D suitable for networking complete as per specification.	M	1.00	71.59	
133	Supplying and fixing 1 meter length, UTP Patch cord of Cat 6 type in position as per specification	AU	1.00	252.72	
134	Supplying and fixing 1 m length, UTP patch cord of enhanced Cat 6 type with 4-connector channel, performance test report as per ANSI/TIA-568.2-D in position as per specification	AU	1.00	275.50	
135	Supplying and fixing 2 m UTP patch cord of cat 6 type in position as per specification	AU	1.00	350.34	
136	Supplying and fixing 3 meter length, UTP Patch cord of Cat 6 type in position as per specification	AU	1.00	363.36	
137	Supplying and erecting LSZH armoured multimode optical fibre cable with 12 fibres, core dia 50/125 µm (OM3), suitable up to 10 GBPS ethernet distance at 850 nm of wavelength, on wall/ceiling or laid in provided pipe/trench as per specification	M	1.00	346.00	
138	Supplying and erecting LSZH armoured multimode optical fibre cable with 24 fibres, core dia 50/125 µm (OM3), suitable up to 10 GBPS ethernet distance at 850 nm of wavelength, on wall/ceiling or laid in provided pipe/trench as per specification	M	1.00	518.46	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
139	Supplying and erecting LSZH armoured multimode optical fibre cable with 6 fibres, core dia 50/125 µm (OM4) suitable up to 10 GBPS ethernet distance at 850 nm of wavelength, on wall/ceiling or laid in provided pipe/trench as per specification	M	1.00	1303.75	
140	Supplying and erecting LSZH armoured multimode optical fibre cable with 12 fibres, core dia 50/125 µm (OM4) suitable up to 10 GBPS ethernet distance at 850 nm of wavelength, on wall/ceiling or laid in provided pipe/trench as per specification	M	1.00	2195.33	
141	Supplying and installing armoured single mode optical fibre cable with 6 fiber, core dia 50/125µm (OS1/OS2) 10/40 GBPS speed in provided underground HDPE pipe complete.	M	1.00	112.80	
142	Supplying and installing armoured single mode optical fibre cable 12 fiber, core dia 50/125µm. (OS1/OS2) 10/40 GBPS speed in provided underground HDPE pipe complete.	M	1.00	121.48	
143	Supplying and installing 3 m fibre patch cord duplex single mode for OS1/OS2 complete	AU	1.00	2643.29	
144	Supplying and plugging 3 m fibre patch cord LC-SC MM (50) OM3 LSZH duplex complete as per specification	AU	1.00	2879.75	
145	Supplying and plugging 3 m fibre patch cord LC-SC MM (50) OM4 LSZH duplex complete as per specification	AU	1.00	3298.42	
146	Supplying and plugging 3 m fibre patch cord LC-LC MM (50) OM3 LSZH duplex complete as per specification	AU	1.00	3474.13	
147	Supplying and plugging 3 m fibre patch cord LC-LC MM (50) OM4 LSZH duplex complete as per specification	AU	1.00	5128.23	
148	Supplying and installing 6 port single mode fibre adapter with plate complete.	AU	1.00	4797.41	
149	Supplying and installing single mode simplex pigtail with SC/LC splicing complete.	AU	1.00	846.03	
150	Supplying and fixing multimode pigtails with SC/SC type splicing for (OM4) complete.	AU	1.00	1071.63	
151	Supplying and fixing IP66 enclosure for fibre splicing as per specification complete.	AU	1.00	9951.66	
	NETWORKING ACCESSORIES (WG-NAS)				
152	Supplying, installing & testing UTP Connector (RJ-45) as per specification	AU	1.00	85.69	
153	Supplying and fixing Tool-less Information Outlet (Ethernet) flush/surface type in position as per specification	AU	1.00	548.83	
154	Supplying and fixing Tool-less Keystone Jack (RJ-45) in provided Patch Panel complete as per specification	AU	1.00	122.57	
155	Supplying and fixing 24 port Patch Panel with tool-less keystone jacks in provided U Rack complete as per specification	AU	1.00	11514.64	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
156	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	AU	1.00	5263.81	
157	Supplying and fixing Wall Mount 12 Ports, Light guide unloaded Interconnect Unit with adapter Panel as per specification in approved manner	AU	1.00	5487.24	
158	Supplying and fixing 1 x 12 duplex adapter panel - SC complete	M	1.00	413.25	
159	Supplying and fixing SC/LC type multimode duplex adapter to couple two connectors between OFC & Fibre switch/Fibre module as per specification	AU	1.00	599.81	
160	Supplying and fixing SC/LC type Multimode Pigtails (OM3) for LIU to terminate OFC in LIU as per specification	AU	1.00	799.39	
161	Supplying and fixing power over ethernet adaptor to provide DC supply to Ethernet devices as per specification	AU	1.00	5450.37	
162	Supplying and fixing 6U Wall Mount Rack (Dimension-DxWXH - 450X550X367 mm) as per specification in approved manner	AU	1.00	9028.63	
163	Supplying and fixing 9U Wall Mount Rack (Dimension-DxWXH - 450X550X500 mm) as per specification in approved manner	AU	1.00	9833.44	
164	Supplying and fixing 12U Wall Mount Rack (Dimension-DxWXH - 450X550X635 mm) as per specification in approved manner	AU	1.00	11682.77	
SECTION - II FITTINGS					
	ACCESSORIES FOR INDOOR FITTINGS (FG-AS)				
165	Supplying and erecting double suspension heavy duty lacquered iron chain with hooks for erecting fluo. tube light fitting(for erecting various fixtures like FTL, LED, etc) with necessary shielded copper flexible wire three core of 1 sq mm for connecting leads. (for measurements half of the actual length used)	M	1.00	53.15	
166	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 shielded copper flexible wire three core of 1 sq mm for connecting leads (for measurements half of the actual length both pipes used)	M	1.00	250.55	
167	Supplying and erecting ball suspension plate cast aluminium erected with spring on wooden block in position.	AU	1.00	45.56	
168	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.	AU	1.00	104.13	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
169	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	1.00	296.11	
170	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	1.00	650.79	
171	Supplying and erecting electronic type 600 W dimmer complete erected on provided switch board.	AU	1.00	229.95	
172	Supplying and erecting electronic type 300/450 W dimmer complete erected on provided switch board.	AU	1.00	200.66	
173	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	1.00	506.53	
174	Supplying and erecting electronic type driver for indoor LED upto 9W fixtures suitable to operate on 230V A.C. 50 Hz. Having pf>0.95 and THD<10%.	AU	1.00	387.22	
175	Supplying and erecting electronic type driver for indoor LED upto 10W-18W fixtures suitable to operate on 230V A.C. 50 Hz. Having pf>0.95 and THD<10%.	AU	1.00	492.43	
176	Supplying and erecting electronic type driver for indoor LED upto 19W-24W fixtures suitable to operate on 230V A.C. 50 Hz. Having pf>0.95 and THD<10%.	AU	1.00	738.65	
177	Supplying and erecting electronic type driver for indoor LED upto 25W-40W fixtures suitable to operate on 230V A.C. 50 Hz. Having pf>0.95 and THD<10%.	AU	1.00	754.92	
ACCESSORIES FOR OUTDOOR FITTINGS (FG-AS)					
178	Supplying and erecting street light bracket 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	AU	1.00	710.45	
179	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	AU	1.00	798.30	
180	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	AU	1.00	723.46	
181	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	AU	1.00	891.58	
182	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	AU	1.00	1131.29	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
183	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	AU	1.00	1574.91	
	HIGHBAY LED FITTINGS (FG -ODF/LED)				
184	Supplying and erecting integrated LED Highbay Fitting 70W IP65 & IK08 class having die cast aluminium housing with polycarbonate diffuser with integrated optics, having system lumens output of Min.10000 Lumens, min. efficacy of 145 lumen/W, CRI>70, CCT upto 6500K, THD<10%, p.f. >0.90, operating range of 140-240V, inbuilt surge protection of 4 kV, Life class of 50,000 Hrs. at L50B50 , including driver complete with 3 Year warranty as per specification	AU	1.00	11822.69	
185	Supplying and erecting integrated LED Highbay Fitting 100W IP65 & IK08 class having die cast aluminium housing with polycarbonate diffuser with integrated optics, having system lumens output of Min. 15000 Lumens, min. efficacy of 145 lumen/W, CRI>70, CCT upto 6500K, THD<10%, p.f. >0.90, operating range of 140-240V, inbuilt surge protection of 4 kV, Life class of 50,000 Hrs. at L50B50 , including driver complete with 3 Year warranty as per specification	AU	1.00	14857.54	
186	Supplying and erecting integrated LED Highbay Fitting 135W IP65 & IK08 class having die cast aluminium housing with polycarbonate diffuser with integrated optics, having system lumens output of Min. 20000 Lumens, min. efficacy of 145 lumen/W, CRI>70, CCT upto 6500K, THD<10%, p.f. >0.90, operating range of 140-240V, inbuilt surge protection of 4kV, Life class of 50,000 Hrs. at L50B50 , including driver complete with 3 Year warranty as per specification	AU	1.00	16768.69	
187	Supplying and erecting highbay LED fitting IP 65 with lamp 200W, PF >0.95 of approved make and duly connecting complete	AU	1.00	21407.41	
	INDOOR LED FITTINGS (FG-IDF/LED)				

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
188	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 90 lumens/watt, 2) CRI shall be more than 80. 3) Total harmonic distortion voltage and current shall be less than 10% 4) Operating voltage range shall be in range of 160V to 270V 5) Power Factor of Luminaire shall be more than 0.95 6) Luminaire shall conform to respective IS. 7) Luminaire shall withstand surge protection upto 2 kV 8) Luminaire shall carry minimum three years warrantee. 9) Correlated Colour Temperature (CCT) shall be required between 2700K-6500K.	AU	1.00	304.79	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
189	Supplying, installation, Testing & Commissioning of LED Recessed/ surface Down lighter 5W-7W (Round/ square/ Rectangular) SMD type of following body material with PMMA and prismatic diffuser and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80 , UGR (Unified Glare Rating) < 19, Flicker free (flicker should be below 5%), life time (LED,Driver & electrical circuitary), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends , CCT 3000°K / 4000°K / 5700°K / 6000°K / 6500°K (As per ANSI Bin), SDCM (Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be confirming to relevant BIS standards and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing Complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥105 and <120 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C)	AU	1.00	438.76	
190	Supplying, installation, Testing & Commissioning of LED Recessed/ surface Down lighter 8W-10W (Round/ square/ Rectangular) SMD type of following body material with PMMA and prismatic diffuser and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80 , UGR (Unified Glare Rating) < 19, Flicker free (flicker should be below 5%), life time (LED,Driver & electrical circuitary), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends , CCT 3000°K / 4000°K / 5700°K / 6000°K / 6500°K (As per ANSI Bin), SDCM (Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be confirming to relevant BIS standards and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing Complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥105 and <120 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C)	AU	1.00	503.41	
191	Supplying, installation, Testing & Commissioning of LED Recessed/ surface Down lighter 12W-15W (Round/ square/ Rectangular) SMD type of following body material with PMMA and prismatic diffuser and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80 , UGR (Unified Glare Rating) < 19, Flicker free (flicker should be below 5%), life time (LED,Driver & electrical circuitary), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends , CCT 3000°K / 4000°K / 5700°K / 6000°K / 6500°K (As per ANSI Bin), SDCM (Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be confirming to relevant BIS standards and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing Complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥105 and <120 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C)	AU	1.00	574.09	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
192	Supplying, installation, Testing & Commissioning of LED Recessed/ surface Down lighter 18W (Round/ square/ Rectangular) SMD type of following body material with PMMA and prismatic diffuser and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80 , UGR (Unified Glare Rating) < 19, Flicker free (flicker should be below 5%), life time (LED,Driver & electrical circuitary), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends , CCT 3000°K / 4000°K / 5700°K / 6000°K / 6500°K (As per ANSI Bin), SDCM (Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be confirming to relevant BIS standards and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing Complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥105 and <120 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C)	AU	1.00	735.29	
193	Supplying, installation, Testing & Commissioning of LED Recessed/ surface Down lighter 22W (Round/ square/ Rectangular) SMD type of following body material with PMMA and prismatic diffuser and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80 , UGR (Unified Glare Rating) < 19, Flicker free (flicker should be below 5%), life time (LED,Driver & electrical circuitary), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends , CCT 3000°K / 4000°K / 5700°K / 6000°K / 6500°K (As per ANSI Bin), SDCM (Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be confirming to relevant BIS standards and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing Complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥105 and <120 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C)	AU	1.00	774.08	
194	Supplying, installation, Testing & Commissioning of Panel light 2x2 ft. 36W of following body material and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, freq 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80, UGR (Unified Glare Rating) < 19, Flicker free, (flicker should be below 5 %), life time (LED,Driver & electrical circuitry), of minimum 50000 Burning Hours with ,70% of initial Lumen maintained till life ends,CCT 3000°K / 4000°K / 5700°K / 6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C)	AU	1.00	2547.21	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
195	<p>Supplying, installation, Testing & Commissioning of Panel light 2x2 ft. 40W of following body material and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, freq 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80, UGR (Unified Glare Rating) < 19, Flicker free, (flicker should be below 5 %), life time (LED,Driver & electrical circuitry), of minimum 50000 Burning Hours with ,70% of initial Lumen maintained till life ends,CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C)</p>	AU	1.00	3170.44	
196	<p>Supplying and erecting rectangular shaped LED Panel Light(1200mm X 300mm) Max. 35 W having CRCA powder coated housing, polystyrene diffuser having system lumens output of Min. 4200 Lumens, min. efficacy of 120 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., max. ripple of 5%, THD<10%, p.f. >0.95, operating range of 120-270V, surge protection of 2.5 kV, Life class of 50,000 Hrs. at L70B50, including driver, having mounting arrangement with board for surface type or spring loaded mounting clips complete with 3 years warranty.</p> <p>Note:- 1) Driver and luminaire shall be of same make. 2) LM79 and all other reports of all luminaires shall be from accredited NABL laboratory. 3) Manufacturer Logo shall be embossed on all pressure die cast Luminaires and logo shall not be screen-print / sticker type. 4) All luminaires shall conform to respective IS.</p>	AU	1.00	3171.52	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
197	<p>Supplying and erecting LED Strip light 5m Length Max. 45 W IP20 class having minimum lumens output of 800 Lumens/m, min. efficacy of 90 lumen/W, CRI>80, CCT upto 5000K, Beam Angle of 110 deg., THD<10%, p.f. >0.95, operating range of 230-270V, Life class of 30,000 Hrs. at L70B50, including driver with 1 year warranty.</p> <p>Note :</p> <ol style="list-style-type: none"> 1) System efficacy shall not be less than 90 lumens/watt, 2) CRI shall be more than 80. 3) Total harmonic distortion voltage and current shall be less than 10% 4) Operating voltage range shall be in range of 160V to 270V 5) Power Factor of Luminaire shall be more than 0.95 6) Luminaire shall conform to respective IS. 7) Luminaire shall withstand surge protection upto 2 kV 8) Luminaire shall carry minimum three years warrantee. 9) Correlated Colour Temperature (CCT) shall be required between 2700K-6500K. 	AU	1.00	2067.34	
198	<p>Supplying and erecting LED Strip light 5m Length Max. 95 W IP20 class having minimum lumens output of 1600 Lumens/m, min. efficacy of 90 lumen/W, CRI>80, CCT upto 5000K, Beam Angle of 110 deg., THD<10%, p.f. >0.95, operating range of 230-270V, Life class of 30,000 Hrs. at L70B50 including driver with 1 year warranty.</p> <p>Note :</p> <ol style="list-style-type: none"> 1) System efficacy shall not be less than 90 lumens/watt, 2) CRI shall be more than 80. 3) Total harmonic distortion voltage and current shall be less than 10% 4) Operating voltage range shall be in range of 160V to 270V 5) Power Factor of Luminaire shall be more than 0.95 6) Luminaire shall conform to respective IS. 7) Luminaire shall withstand surge protection upto 2 kV 8) Luminaire shall carry minimum three years warrantee. 9) Correlated Colour Temperature (CCT) shall be required between 2700K-6500K. 	AU	1.00	2612.07	
199	<p>Supplying LED concealed type foot / step light with aluminium body for indoor/outdoor application suitable for 4W-6W LED including driver and erecting by making necessary arrangement / recess in wall to make it flush with surface with 1 year warranty.</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 80. 3) Total harmonic distortion voltage and current shall be less than 10% 4) Operating voltage range shall be in range of 160V to 270V 5) Power Factor of Luminaire shall be more than 0.95 6) Luminaire shall conform to respective IS. 7) Luminaire shall withstand surge protection upto 2 kV 8) Luminaire shall carry minimum three years warrantee. 9) Correlated Colour Temperature (CCT) shall be required between 2700K-6500K. 	AU	1.00	2077.10	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
200	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	AU	1.00	84.60	
201	Making suitable size of recess in any type of false ceiling for erection of flush type LED panel light 600mm x 600mm/1200x300mm and finishing the background to match the original ceiling surface.	AU	1.00	145.34	
202	<p>Supplying and erecting bulk head LED fitting max. 10W with high transitivity diffuser with system lumens output of min. 1100 lumens, min. efficacy of 110 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., THD<10%, p.f. >0.95, operating range of 140-260V, in built surge protection of 2.5 kV, Life class of 50,000 Hrs. at L70B50, including driver, IP66, IK09 rated on provided PVC Block / wooden board with 3 years warranty.</p> <p>Note :</p> <ol style="list-style-type: none"> 1) System efficacy shall not be less than 90 lumens/watt, 2) CRI shall be more than 80. 3) Total harmonic distortion voltage and current shall be less than 10% 4) Operating voltage range shall be in range of 160V to 270V 5) Power Factor of Luminaire shall be more than 0.95 6) Luminaire shall conform to respective IS. 7) Luminaire shall withstand surge protection upto 2 kV 8) Luminaire shall carry minimum three years warrantee. 9) Correlated Colour Temperature (CCT) shall be required between 2700K-6500K. 	AU	1.00	1535.86	
203	<p>Supplying and erecting anodized aluminium corridor / passage / mirror light LED fitting (2 feet) Max. 12W with high transitivity diffuser with min. system lumens output of 1200 lumens, min. efficacy of 100 lumen/W, CRI>80, CCT upto 6000K, Beam Angle of 110 deg., Ripple<5%, THD<10%, p.f. >0.95, operating range of 200-270V, surge protection of 2 kV, Life class of 50,000 Hrs. at L70B50, including driver</p> <p>Note :</p> <ol style="list-style-type: none"> 1) System efficacy shall not be less than 90 lumens/watt, 2) CRI shall be more than 80. 3) Total harmonic distortion voltage and current shall be less than 10% 4) Operating voltage range shall be in range of 160V to 270V 5) Power Factor of Luminaire shall be more than 0.95 6) Luminaire shall conform to respective IS. 7) Luminaire shall withstand surge protection upto 2 kV 8) Luminaire shall carry minimum three years warrantee. 9) Correlated Colour Temperature (CCT) shall be required between 2700K-6500K. 	AU	1.00	469.65	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
204	<p>Supplying and erecting anodized aluminium corridor / passage light LED fitting (4 feet) Max. 22W with high transitivity diffuser with system lumens output of Min.2200 lumens , min. efficacy of 100 lumen/W, CRI>80, CCT upto 6000K, Beam Angle of 110 deg., Ripple<5%, THD<10%, p.f. >0.95, operating range of 200-270V, surge protection of 2 kV, Life class of 50,000 Hrs. at L70B50, including driver, with end caps on provided PVC Block / wooden board with 3 years warranty.</p> <p>Note :</p> <p>1) System efficacy shall not be less than 90 lumens/watt,</p> <p>2) CRI shall be more than 80.</p> <p>3) Total harmonic distortion voltage and current shall be less than 10%</p> <p>4) Operating voltage range shall be in range of 160V to 270V</p> <p>5) Power Factor of Luminaire shall be more than 0.95</p> <p>6) Luminaire shall conform to respective IS.</p> <p>7) Luminaire shall withstand surge protection upto 2 kV</p> <p>8) Luminaire shall carry minimum three years warrantee.</p> <p>9) Correlated Colour Temperature (CCT) shall be required between 2700K-6500K.</p>	AU	1.00	864.47	
205	<p>Supplying and erecting CRCA powder coated corridor / passage light LED fitting (4 feet) Max. 33W with high transitivity diffuser with system lumens output of Min. 4000 lumens , min. efficacy of 120 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., Ripple<5%, THD<10%, p.f. >0.95, operating range of 120-270V, surge protection of 4 kV, Life class of 50,000 Hrs. at L70B50, including driver, with end caps on provided PVC Block / wooden board with 3 years warranty</p> <p>Note :</p> <p>1) System efficacy shall not be less than 90 lumens/watt,</p> <p>2) CRI shall be more than 80.</p> <p>3) Total harmonic distortion voltage and current shall be less than 10%</p> <p>4) Operating voltage range shall be in range of 160V to 270V</p> <p>5) Power Factor of Luminaire shall be more than 0.95</p> <p>6) Luminaire shall conform to respective IS.</p> <p>7) Luminaire shall withstand surge protection upto 2 kV</p> <p>8) Luminaire shall carry minimum three years warrantee.</p> <p>9) Correlated Colour Temperature (CCT) shall be required between 2700K-6500K.</p>	AU	1.00	1572.74	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
206	<p>Supplying & erecting inverter LED batten 10W tube light fitting with polycarbonate housing, heat sink, integrated HF electronic driver, Min. 2600 mAh Lithium ion Battery with charging time of 8-10 Hours and backup time of Min. 3 hrs. with minimum 25% of initial Watts having luminous efficacy of 100 lumen/watt, CRI>80, CCT of 6500K and THD<=20% having useful life of minimum 25000 hrs. with overheating protection with 2 years warranty.</p> <p>Note :</p> <p>1) System efficacy shall not be less than 90 lumens/watt, 2) CRI shall be more than 80. 3) Total harmonic distortion voltage and current shall be less than 10% 4) Operating voltage range shall be in range of 160V to 270V 5) Power Factor of Luminaire shall be more than 0.95 6) Luminaire shall conform to respective IS. 7) Luminaire shall withstand surge protection upto 2 kV 8) Luminaire shall carry minimum three years warrantee. 9) Correlated Colour Temperature (CCT) shall be required between 2700K-6500K..</p>	AU	1.00	722.38	
207	<p>Supplying, installation, Testing & Commissioning of LED surface mounted Batten light 18-22W with CRCA Sheet body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency >85% ,Operating voltage AC 140-270 Volt, freq 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80, Flicker free, (flicker should be below 5 %), life time (LED,Driver & electrical circuitary), of minimum 50000 Burning Hours with , 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥105 <120 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).</p>	AU	1.00	536.16	
208	<p>Supplying, installation, Testing & Commissioning of LED surface mounted Batten light 24-26W with CRCA Sheet body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency >85% ,Operating voltage AC 140-270 Volt, freq 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80, Flicker free, (flicker should be below 5 %), life time (LED,Driver & electrical circuitary), of minimum 50000 Burning Hours with , 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥105 <120 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).</p>	AU	1.00	544.78	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
209	Supplying, installation, Testing & Commissioning of LED surface mounted Batten light 36 W with CRCA Sheet body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency >85% ,Operating voltage AC 140-270 Volt, freq 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80, Flicker free, (flicker should be below 5 %), life time (LED,Driver & electrical circuitary), of minimum 50000 Burning Hours with , 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥105 <120 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).	AU	1.00	553.40	
210	Supplying, installation, Testing & Commissioning of LED surface mounted Batten light 40 W with CRCA Sheet body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency >85% ,Operating voltage AC 140-270 Volt, freq 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80, Flicker free, (flicker should be below 5 %), life time (LED,Driver & electrical circuitary), of minimum 50000 Burning Hours with , 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥105 <120 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).	AU	1.00	566.33	
211	Supplying & erecting UV Fly killer/ bug catcher Light Fitting having 2 x 20W UV Tube Lights to cover min. area of 500 sq.ft with powdered coated M.S./ steel body suitable to work on 230V, AC Supply having top mounting arrangement with SS chain complete and 3 core 1 mtr. flexible wire with 1 year warranty. Note:- 1) Driver and luminaire shall be of same make. 2) LM79 and all other reports of all luminaires shall be from accredited NABL laboratory. 3) Manufacturer Logo shall be embossed on all pressure die cast Luminaires and logo shall not be screen-print / sticker type. 4) All luminaires shall conform to respective IS.	AU	1.00	5225.95	
	INDUSTRIAL FITTINGS (FG-IDF)				
212	Supplying and erecting IP65 and IK08 rated UV shielded polycarbonate waterproof and dustproof industrial grade LED fitting (4 feet) max. 36W with high transitivity diffuser with system lumens output of min. 4300 lumens , min. efficacy of 120 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., Ripple<5%, THD<10%, p.f. >0.95, operating range of 120-270V, surge protection of 4 kV, Life class of 50,000 Hrs. at L70B50 , IP20 rated, including driver with auto cutoff & auto restart feature at 325V with end caps on PVC Block/wooden board with 3 years warranty.	AU	1.00	3508.07	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
	OUTDOOR LED FITTINGS (FG-ODF/LED)				
213	Supplying, installation, Testing & Commissioning of 14 W Street light LED fixture powder coated pressure die cast aluminum body with driver as per the requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP 66,IK-10, CRI >80, under voltage and over voltage protection, EMI EMC As per CISPR 15 , lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K / 6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).	AU	1.00	841.31	
214	Supplying, installation, Testing & Commissioning of 15 W Street light LED fixture powder coated pressure die cast aluminum body with driver as per the requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP 66,IK-10, CRI >80, under voltage and over voltage protection, EMI EMC As per CISPR 15 , lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K / 6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).	AU	1.00	865.45	
215	Supplying, installation, Testing & Commissioning of 18 W Street light LED fixture powder coated pressure die cast aluminum body with driver as per the requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP 66,IK-10, CRI >80, under voltage and over voltage protection, EMI EMC As per CISPR 15 , lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K / 6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).	AU	1.00	1005.09	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
216	Supplying, installation, Testing & Commissioning of 20 W Street light LED fixture powder coated pressure die cast aluminum body with driver as per the requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP 66,IK-10, CRI >80, under voltage and over voltage protection, EMI EMC As per CISPR 15 , lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).	AU	1.00	1111.98	
217	Supplying, installation, Testing & Commissioning of 24 W Street light LED fixture powder coated pressure die cast aluminum body with driver as per the requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP 66,IK-10, CRI >80, under voltage and over voltage protection, EMI EMC As per CISPR 15 , lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).	AU	1.00	1267.14	
218	Supplying, installation, Testing & Commissioning of 25 W Street light LED fixture powder coated pressure die cast aluminum body with driver as per the requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP 66,IK-10, CRI >80, under voltage and over voltage protection, EMI EMC As per CISPR 15 , lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).	AU	1.00	1309.38	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
219	Supplying, installation, Testing & Commissioning of 30 W Street light LED fixture powder coated pressure die cast aluminum body with driver as per the requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP 66,IK-10, CRI >80, under voltage and over voltage protection, EMI EMC As per CISPR 15 , lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).	AU	1.00	1333.51	
220	Supplying, installation, Testing & Commissioning of 36 W Street light LED fixture powder coated pressure die cast aluminum body with driver as per the requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP 66,IK-10, CRI >80, under voltage and over voltage protection, EMI EMC As per CISPR 15 , lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).	AU	1.00	1399.03	
221	Supplying, installation, Testing & Commissioning of 40 W Street light LED fixture powder coated pressure die cast aluminum body with driver as per the requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP 66,IK-10, CRI >80, under voltage and over voltage protection, EMI EMC As per CISPR 15 , lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).	AU	1.00	1411.09	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
222	Supplying, installation, Testing & Commissioning of 45 W Street light LED fixture powder coated pressure die cast aluminum body with driver as per the requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP 66,IK-10, CRI >80, under voltage and over voltage protection, EMI EMC As per CISPR 15 , lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).	AU	1.00	1497.29	
223	Supplying, installation, Testing & Commissioning of 50 W Street light LED fixture powder coated pressure die cast aluminum body with driver as per the requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP 66,IK-10, CRI >80, under voltage and over voltage protection, EMI EMC As per CISPR 15 , lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).	AU	1.00	1661.07	
224	Supplying, installation, Testing & Commissioning of 72 W Street light LED fixture powder coated pressure die cast aluminum body with driver as per the requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP 66,IK-10, CRI >80, under voltage and over voltage protection, EMI EMC As per CISPR 15 , lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).			1828.30	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
225	Supplying, installation, Testing & Commissioning of 90 W Street light LED fixture powder coated pressure die cast aluminum body with driver as per the requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP 66,IK-10, CRI >80, under voltage and over voltage protection, EMI EMC As per CISPR 15 , lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K / 6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).			2007.60	
226	Supplying, installation, Testing & Commissioning of 100 W Street light LED fixture powder coated pressure die cast aluminum body with driver as per the requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP 66,IK-10, CRI >80, under voltage and over voltage protection, EMI EMC As per CISPR 15 , lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K / 6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).			2305.85	
227	Supplying, installation, Testing & Commissioning of 120 W Street light LED fixture powder coated pressure die cast aluminum body with driver as per the requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP 66,IK-10, CRI >80, under voltage and over voltage protection, EMI EMC As per CISPR 15 , lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K / 6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).			2544.62	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
228	Supplying, installation, Testing & Commissioning of 150 W Street light LED fixture powder coated pressure die cast aluminum body with driver as per the requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP 66,IK-10, CRI >80, under voltage and over voltage protection, EMI EMC As per CISPR 15 , lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).			2961.83	
229	Supplying, installation, Testing & Commissioning of 180 W Street light LED fixture powder coated pressure die cast aluminum body with driver as per the requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP 66,IK-10, CRI >80, under voltage and over voltage protection, EMI EMC As per CISPR 15 , lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).			4154.84	
230	Supplying, installation, Testing & Commissioning of 200 W Street light LED fixture powder coated pressure die cast aluminum body with driver as per the requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP 66,IK-10, CRI >80, under voltage and over voltage protection, EMI EMC As per CISPR 15 , lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminum housing such that LED junction temperature shall not rise above 90°C).			4334.14	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
231	<p>Supplying, Testing and Commissioning of LED Flood Light 50 Watt, powder coated pressure die cast aluminum (System lumen efficacy >135 lm/Watt)</p> <p>Supplying, installation, Testing & Commissioning of Flood Light, powder coated pressure die cast aluminum body with built in or separate driver as per the requirement with Driver efficiency >85%, Input voltage: Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP-66,IK-10, CRI >80 , under voltage and over voltage protection, EMI-EMC as per CISPR-15, lenses for beam angle 30 deg-120deg as per the application and the project requirement deg., suitable tilt able fitting, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report , CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin) , SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required</p> <p>for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be</p>	AU	1.00	1794.68	
232	<p>Supplying, Testing and Commissioning of LED Flood Light 70 Watt, powder coated pressure die cast aluminum (System lumen efficacy >135 lm/Watt)</p> <p>Supplying, installation, Testing & Commissioning of Flood Light, powder coated pressure die cast aluminum body with built in or separate driver as per the requirement with Driver efficiency >85%, Input voltage: Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP-66,IK-10, CRI >80 , under voltage and over voltage protection, EMI-EMC as per CISPR-15, lenses for beam angle 30 deg-120deg as per the application and the project requirement deg., suitable tilt able fitting, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report , CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin) , SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required</p> <p>for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be</p>	AU	1.00	2055.87	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
233	<p>Supplying, Testing and Commissioning of LED Flood Light 100 Watt, powder coated pressure die cast aluminum (System lumen efficacy >135 lm/Watt)</p> <p>Supplying, installation, Testing & Commissioning of Flood Light, powder coated pressure die cast aluminum body with built in or separate driver as per the requirement with Driver efficiency >85%, Input voltage: Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP-66,IK-10, CRI >80 , under voltage and over voltage protection, EMI-EMC as per CISPR-15, lenses for beam angle 30 deg-120deg as per the application and the project requirement deg., suitable tilt able fitting, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report , CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin) , SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required</p> <p>for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be</p>	AU	1.00	2207.58	
234	<p>Supplying, Testing and Commissioning of LED Flood Light 150 Watt, powder coated pressure die cast aluminum (System lumen efficacy >135 lm/Watt)</p> <p>Supplying, installation, Testing & Commissioning of Flood Light, powder coated pressure die cast aluminum body with built in or separate driver as per the requirement with Driver efficiency >85%, Input voltage: Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP-66,IK-10, CRI >80 , under voltage and over voltage protection, EMI-EMC as per CISPR-15, lenses for beam angle 30 deg-120deg as per the application and the project requirement deg., suitable tilt able fitting, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report , CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin) , SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required</p> <p>for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be</p>	AU	1.00	3098.89	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
235	<p>Supplying, Testing and Commissioning of LED Flood Light 200 Watt, powder coated pressure die cast aluminum (System lumen efficacy >135 lm/Watt)</p> <p>Supplying, installation, Testing & Commissioning of Flood Light, powder coated pressure die cast aluminum body with built in or separate driver as per the requirement with Driver efficiency >85%, Input voltage: Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP-66,IK-10, CRI >80 , under voltage and over voltage protection, EMI-EMC as per CISPR-15, lenses for beam angle 30 deg-120deg as per the application and the project requirement deg., suitable tilt able fitting, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report , CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin) , SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required</p> <p>for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be</p>	AU	1.00	4739.28	
236	<p>Supplying, Testing and Commissioning of LED Flood Light 250 Watt, powder coated pressure die cast aluminum (System lumen efficacy >135 lm/Watt)</p> <p>Supplying, installation, Testing & Commissioning of Flood Light, powder coated pressure die cast aluminum body with built in or separate driver as per the requirement with Driver efficiency >85%, Input voltage: Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP-66,IK-10, CRI >80 , under voltage and over voltage protection, EMI-EMC as per CISPR-15, lenses for beam angle 30 deg-120deg as per the application and the project requirement deg., suitable tilt able fitting, life time (LED,Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report , CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin) , SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required</p> <p>for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be</p>	AU	1.00	5621.96	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
237	<p>Supplying and erecting integrated LED Bollard Cylindrical/Cubical shaped 500mm 8W IP65 & IK10 class having extrusion aluminium housing with polycarbonate diffuser, having system lumens output of Min. 800 Lumens, min. efficacy of 100 lumen/W, CRI>80, CCT upto 6500K, THD<10%, p.f. >0.90, operating range of 140-240V, inbuilt surge protection of 2 kV, Life class of 25,000 Hrs. at L50B50, including driver complete with 2 Year warranty as per specification</p> <p>Note:</p> <ol style="list-style-type: none"> 1) System efficacy shall not be less than 90 lumens/watt. 2) CRI shall be more than 70. 3) Total harmonic distortion voltage and current shall be less than 10% 4) Operating voltage range shall be in range of 160V to 270V 5) Power Factor of Luminaire shall be more than 0.95 6) Luminaire shall conform to respective IS. 7) Luminaire shall withstand surge protection upto 3 kV. 8) Luminaire shall carry minimum three years warrantee. 9) Correlated Color Temperature (CCT) shall be required between 2700K-6500K. 10) There shall be provision for termination of earth connection 	AU	1.00	5702.01	
238	<p>Supplying and erecting integrated LED Bollard Cylindrical/Cubical shaped 800mm 8W IP65 & IK10 class having extrusion aluminium housing with polycarbonate diffuser, having system lumens output of Min. 800 Lumens, min. efficacy of 100 lumen/W, CRI>80, CCT upto 6500K, THD<10%, p.f. >0.90, operating range of 140-240V, inbuilt surge protection of 2 kV, Life class of 25,000 Hrs. at L50B50, including driver complete with 2 Year warranty as per specification No FG-ODF/FLS2.</p> <p>Note:</p> <ol style="list-style-type: none"> 1) System efficacy shall not be less than 90 lumens/watt. 2) CRI shall be more than 70. 3) Total harmonic distortion voltage and current shall be less than 10% 4) Operating voltage range shall be in range of 160V to 270V 5) Power Factor of Luminaire shall be more than 0.95 6) Luminaire shall conform to respective IS. 7) Luminaire shall withstand surge protection upto 3 kV. 8) Luminaire shall carry minimum three years warrantee. 9) Correlated Color Temperature (CCT) shall be required between 2700K-6500K. 10) There shall be provision for termination of earth connection 	AU	1.00	7334.40	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
239	<p>Supplying and erecting integrated LED Post Top 45W IP65 & IK10 class having die cast aluminium housing with UV protected polycarbonate diffuser, having system lumens output of Min.4500 Lumens, min. efficacy of 100 lumen/W, CRI>80, CCT upto 6500K, THD<10%, p.f. >0.90, operating range of 140-240V, inbuilt surge protection of 2 kV, Life class of 30,000 Hrs. at L50B50 , including driver complete with 2 Year warranty as per specification No FG</p> <p>Note:</p> <p>1) System efficacy shall not be less than 90 lumens/watt.</p> <p>2) CRI shall be more than 70.</p> <p>3) Total harmonic distortion voltage and current shall be less than 10%</p> <p>4) Operating voltage range shall be in range of 160V to 270V</p> <p>5) Power Factor of Luminaire shall be more than 0.95</p> <p>6) Luminaire shall conform to respective IS.</p> <p>7) Luminaire shall withstand surge protection upto 3 kV.</p> <p>8) Luminaire shall carry minimum three years warrantee.</p> <p>9) Correlated Color Temperature (CCT) shall be required between 2700K-6500K.</p> <p>10) There shall be provision for termination of earth connection</p>	AU	1.00	4027.31	
240	<p>Supplying and erecting integrated LED round burial light 6W IP65 & IK10 class having pressure die-cast housing, having system lumens output of Min. 500 Lumens, min. efficacy of 85 lumen/W, CRI>80, CCT upto 6500K, THD<10%, p.f. >0.90, operating range of 100-240V, inbuilt surge protection of 4 kV, Life class of 50,000 Hrs. at L50B50, including driver, salt spray tested for 500 Hrs. including making of recess of appropriate size for flushing into surface with 2 Year warranty as per specification No FG-ODF/FLS2.</p> <p>Note:</p> <p>1) System efficacy shall not be less than 90 lumens/watt.</p> <p>2) CRI shall be more than 70.</p> <p>3) Total harmonic distortion voltage and current shall be less than 10%</p> <p>4) Operating voltage range shall be in range of 160V to 270V</p> <p>5) Power Factor of Luminaire shall be more than 0.95</p> <p>6) Luminaire shall conform to respective IS.</p> <p>7) Luminaire shall withstand surge protection upto 3 kV.</p> <p>8) Luminaire shall carry minimum three years warrantee.</p> <p>9) Correlated Color Temperature (CCT) shall be required between 2700K-6500K.</p> <p>10) There shall be provision for termination of earth connection</p>	AU	1.00	4413.44	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
241	<p>Supplying and erecting Concealed type foot/step light Max. 5W having IP67. IK10 rated Pressure die cast housing having system lumens output of Min. 500 Lumens, min. efficacy of 100 lumen/W, CRI>80, CCT upto 5000K, Beam Angle of 110 deg., THD<10%, SDCM<5, p.f. >0.95, operating range of 230-270V, surge protection of 2.5 kV, Life class of 25,000 Hrs. at L70B50, including driver by making necessary arrangement/recess in wall to make it flush with surface with 2 Year warranty.</p> <p>Note:</p> <ol style="list-style-type: none"> 1) System efficacy shall not be less than 90 lumens/watt. 2) CRI shall be more than 70. 3) Total harmonic distortion voltage and current shall be less than 10% 4) Operating voltage range shall be in range of 160V to 270V 5) Power Factor of Luminaire shall be more than 0.95 6) Luminaire shall conform to respective IS. 7) Luminaire shall withstand surge protection upto 3 kV. 8) Luminaire shall carry minimum three years warrantee. 9) Correlated Color Temperature (CCT) shall be required between 2700K-6500K. 10) There shall be provision for termination of earth connection 	AU	1.00	4160.72	
	DECORATIVE OUTDOOR FITTINGS (FG-ODF)				
242	<p>Supplying and erecting Gate/garden light fitting with 200mm dia. glass bowl suitable for upto 12W LED Lamp on provided pipe as per specification</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	1.00	573.78	
243	<p>Supplying and erecting Gate/garden light fitting with 300mm dia. glass bowl suitable for upto 12W LED Lamp on provided pipe as per specification</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	1.00	1241.92	
244	<p>Supplying & erecting integral post top lantern fixtures (mushroom type) suitable for LED lamp upto 12 W consisting of clear acrylic top cover, cast aluminium pole cap complete with accessories on provided pole / bracket as per specification</p>	AU	1.00	2380.81	
245	<p>Supplying & erecting integral post top lantern fixtures (globe type) suitable for LED lamp upto 12 W consisting of aesthetic round clear acrylic top cover, cast aluminium pole cap on provided pole / bracket as per specification</p>	AU	1.00	1811.37	
246	<p>Supplying & erecting integral post top lantern fixtures (light house type) suitable upto LED 18 W Lamp consisting of combination of spun aluminium canopy & clear acrylic top cover, cast aluminium pole cap on provided pole/ bracket as per specification</p>	AU	1.00	2208.35	
	AVIATION LIGHT FITTING				

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
247	Supplying & erecting Aviation obstruction light consisting of yellow painted die cast aluminium alloy housing with Integral LED aviation light comprising of aluminium housing with polycarbonate enclosure complete.	AU	1.00	5233.44	
	FANS (FG-FN)				
248	Supply, Installation, Testing and Commissioning of ceiling fan 900mm, service value ≥ 5.1 CM/Min/Watt, air delivery 130 CM/Min (Minimum) with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. metal (Aluminum alloy) blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al body Power Factor not less than 0.9, Service Value (CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 10%, remote (preferably mobile app based) for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Ceiling Fan compliant to IS 374:2019 fan Supply, earthing etc. complete as req	AU	1.00	1977.43	
249	Supply, Installation, Testing and Commissioning of ceiling fan 1200mm, service value ≥ 6.0 CM/Min/Watt, air delivery 130 CM/Min (Minimum) with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. metal (Aluminum alloy) blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al body Power Factor not less than 0.9, Service Value (CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 10%, remote (preferably mobile app based) for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Ceiling Fan compliant to IS 374:2019 fan Supply, earthing etc. complete as req	AU	1.00	2052.42	
250	Supply, Installation, Testing and Commissioning of ceiling fan 1400mm, service value ≥ 6.0 CM/Min/Watt, air delivery 130 CM/Min (Minimum) with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. metal (Aluminum alloy) blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al body Power Factor not less than 0.9, Service Value (CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 10%, remote (preferably mobile app based) for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Ceiling Fan compliant to IS 374:2019 fan Supply, earthing etc. complete as req	AU	1.00	2102.42	
251	Supply, Installation, Testing and Commissioning of ceiling fan 1200mm, service value ≥ 6.0 CM/Min/Watt, air delivery 210 CM/Min (Minimum)with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. metal (Aluminum alloy) blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al body Power Factor not less than 0.9, Service Value (CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 10%, suitable for operation with regulator for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Ceiling Fan compliant to IS 374:2019 fan Supply, earthing etc. complete as req	AU	1.00	1922.26	
252	Supply, Installation, Testing and Commissioning of ceiling fan 1400mm, service value ≥ 6.0 CM/Min/Watt, air delivery 210 CM/Min (Minimum)with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. metal (Aluminum alloy) blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al body Power Factor not less than 0.9, Service Value (CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 10%, suitable for operation with regulator for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Ceiling Fan compliant to IS 374:2019 fan Supply, earthing etc. complete as req	AU	1.00	1977.43	
253	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	1.00	5899.41	
254	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	1.00	7500.35	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
255	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.	AU	1.00	2696.44	
256	Supplying, erecting, testing and commissioning of Pedestal type air circulator 600 mm sweep A.C. 230 V, 50Hz, of 1440 RPM oscillating 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" class insulation and marking Sr No and date of erection. Should be Crompton / Almonard / Bajaj or approved make.	AU	1.00	9050.32	
257	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.	AU	1.00	2194.25	
258	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	1.00	2257.16	
259	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	1.00	2330.91	
260	Supplying and erecting fresh air cum exhaust fan of light duty 250 V A.C. 50 cycles 300mm. 1400 RPM rust proof body & blades, wire mesh, duly erected in an approved manner.	AU	1.00	1715.92	
261	Supplying and erecting fresh air cum exhaust fan of light duty 250 V A.C. 50 cycles 225mm. 1400 RPM rust proof body & blades, wire mesh, duly erected in an approved manner.	AU	1.00	1587.93	
262	Supplying and erecting exhaust fan heavy duty 230 V, A.C. 50 cycles 375/380 mm. 900 RPM complete erected in position as per specification	AU	1.00	4180.24	
263	Supplying and erecting exhaust fan heavy duty 230 V A.C. 50 cycles 375/380 mm. 1400 RPM complete erected in position as per specification	AU	1.00	4312.57	
264	Supplying and erecting Exhaust fan heavy duty 230 V A.C. 50 cycles 450 mm. 1400 RPM complete erected in position as per specification	AU	1.00	5884.23	
265	Supplying and erecting Exhaust fan heavy duty 440 V A.C. 50 cycles 900 RPM 375 mm complete erected in position as per specification	AU	1.00	5438.44	
ACCESSORIES FOR FAN (FG-FN)					
266	Supplying & fixing Anchor type fastener Fan hook, with 2 Nos of 10 mm dia x 75 mm long with necessary materials for Ceiling Fan.	AU	1.00	111.72	
267	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.	AU	1.00	211.51	
268	Supplying and erecting Fan hook of 10 mm. M.S. round bar grouted in RCC slab with making the site as original.	AU	1.00	124.73	
269	Supplying and erecting 'B' grade G.I. pipe/M.S. pipe down rod duly painted for fan complete erected with PVC three core flexible cable 1sq. mm copper PVC wire.	AU	1.00	248.38	
270	Erection of departmentally supplied ceiling fan with necessary materials, and marking / painting the Sr. No. and date of erection by best quality enamel paint.	AU	1.00	112.80	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
271	Erection of departmentally supplied Exhaust fan with necessary materials, and marking / painting the Sr. No. and date of erection by best quality enamel paint.	AU	1.00	197.41	
272	Supplying and erecting electronic type step regulator for ceiling fan 600/ 900/ 1200/ 1400 mm. sweep, complete erected on provided switch board.	AU	1.00	223.44	
	DISMANTLING OF FITTINGS				
273	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	PTS	1.00	7.59	
274	Dismantling the existing Telephone / LAN / WAN / TV cables and wires of all sizes along with casing-capping / conduit complete as per specification	MTR	1.00	5.42	
275	Dismantling the existing Aluminium/copper mains, submains wiring upto 10 sq.mm. along with accessories etc. Complete as per specification Note:- Dismantled material of Point wiring / circuit mains/mains, sub-mains / telephone / LAN / WAN / TV wires / cables shall be retained by contractor.	M	1.00	3.25	
276	Dismantling of existing fluorescent fittings of any type & size	EACH	1.00	17.35	
277	Dismantling the existing W.T. fluorescent fitting / S.V. / M.V. / M.H. lamp /LED fitting from wall with brackets and making the site as original complete. Note:- Above rates are inclusive of transportation to the storage place as directed by Sectional Officer.	AU	1.00	50.98	
278	Dismantling the existing W.T. fluorescent fitting/ S.V. / M.V. / M.H. lamp /LED fitting from pole with brackets complete Note:- Above rates are inclusive of transportation to the storage place as directed by Sectional Officer.	AU	1.00	118.23	
279	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.	AU	1.00	40.13	
280	Dismantling the existing electric geyser or storage type water heater of any size along with plumbing connections and making the site clear	AU	1.00	202.83	
SECTION - III APPLIANCES					
	WATER HEATERS (AP-WH)				
281	Supplying and erecting ISI mark midget type 3.0 Ltr instant type water heater of ABS plastic body 3 kW, heating element 230/250 Volts 50 cycle AC supply with inlet and outlet, thermostatic control and thermal cutoff with 3 core PVC flexible wire leads complete duly tested and marking sr. no. and date of erection.	AU	1.00	4652.06	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
282	Supplying and erecting storage / pressure type horizontal / vertical water heater 25 litres with BEE 5 star rating of mild steel body, on wall / loft complete duly tested and marking sr. no. and date of erection. specification no. AP-WH/STWH	AU	1.00	12101.44	
283	Supplying and erecting storage type horizontal / vertical water heater 35 litres capacity with BEE 5 star rating high impact resistance engineering plastic body on wall /loft duly tested and marking sr. no. and date of erection. specification no. AP-WH/STWH	AU	1.00	14638.44	
284	Providing fiber reinforced PVC flexible pipe upto 1m length with brass locking nuts and washers and clips at both ends suitable for hot water and cold water both (1 set of 2 nos.) complete.	AU	1.00	205.00	
SECTION - IV SWITCHGEAR (SW)					
	LT - IC/MC SWITCHGEARS(SW-SWR)				
285	Supplying and erecting switch disconnecter fuse (SDF) switch 415V, 160A, open execution, four pole AC23 A rated with terminal shrouds on both sides and phase barriers along with telescopic shaft for depth adjustments and door interlock and padlock complying to IS/IEC 60947-3 Part-1/3 HRC - DIN type fuse, insulation voltage 1000 V for enclosing in panel with rotary handle for ON / OFF operation (without HRC fuse)	AU	1.00	15793.02	
286	Supplying and erecting switch disconnecter fuse (SDF) 415V, 25/32A, with enclosure, triple pole and neutral link AC23 A rated with terminal shrouds on both sides and phase barriers along with telescopic shaft for depth adjustments and door interlock and padlock complying to IS/IEC 60947-3 Part-1/3 HRC - DIN type fuse switch , insulation voltage 1000 V, with rotary handle for ON / OFF operation (without HRC fuse)	AU	1.00	5474.26	
287	Supplying and erecting switch disconnecter fuse (SDF) 415V, 63A, with enclosure, four pole AC23 A rated with terminal shrouds on both sides and phase barriers along with telescopic shaft for depth adjustments and door interlock and padlock complying to IS/IEC 60947-3 Part-1/3 HRC - DIN type fuse switch, insulation voltage 1000 V , with rotary handle for ON / OFF operation(without HRC fuse)	AU	1.00	6698.74	
288	Supplying and erecting switch disconnecter fuse (SDF) 415V, 100A, with enclosure, four pole AC23 A rated with terminal shrouds on both sides and phase barriers along with telescopic shaft for depth adjustments and door interlock and padlock complying to IS/IEC 60947-3 Part-1/3 HRC - DIN type fuse switch, insulation voltage 1000 V , with rotary handle for ON / OFF operation (without HRC fuse)	AU	1.00	11801.86	
289	Supplying and erecting switch disconnecter fuse (SDF) 415V, 200A, with enclosure, four pole AC23 A rated with terminal shrouds on both sides and phase barriers along with telescopic shaft for depth adjustments and door interlock and padlock complying to IS/IEC 60947-3 Part-1/3 HRC - DIN type fuse switch, insulation voltage 1000 V, with rotary handle for ON / OFF operation (without HRC fuse)	AU	1.00	18877.35	
290	Supplying and erecting switch disconnecter fuse (SDF) 415V, 250A, with enclosure, four pole AC23 A rated with terminal shrouds on both sides and phase barriers along with telescopic shaft for depth adjustments and door interlock and padlock complying to IS/IEC 60947-3 Part-1/3 HRC - DIN type fuse switch, insulation voltage 1000 V, with rotary handle for ON / OFF operation (without HRC fuse)	AU	1.00	24377.61	
291	Supplying and erecting switch disconnecter fuse (SDF) 415V, 300-320A, with enclosure, four pole and neutral link AC23 A rated with terminal shrouds on both sides and phase barriers along with telescopic shaft for depth adjustments and door interlock and padlock complying to IS/IEC 60947-3 Part-1/3 HRC - DIN type fuse switch, insulation voltage 1000 V, with rotary handle for ON / OFF operation (without HRC fuse)	AU	1.00	25170.94	
292	Supplying and erecting switch disconnecter fuse (SDF) 415V, 400A, with enclosure, four pole AC23 A rated with terminal shrouds on both sides and phase barriers along with telescopic shaft for depth adjustments and door interlock and padlock complying to IS/IEC 60947-3 Part-1/3 HRC - DIN type fuse switch, insulation voltage 1000 V, with rotary handle for ON / OFF operation (without HRC fuse)	AU	1.00	35228.37	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
293	Supplying and erecting switch disconnector fuse (SDF) 415V, 630A, with enclosure, four pole AC23 A rated with terminal shrouds on both sides and phase barriers along with telescopic shaft for depth adjustments and door interlock and padlock complying to IS/IEC 60947-3 Part-1/3 HRC - DIN type fuse switch, insulation voltage 1000 V, with rotary handle for ON / OFF operation (without HRC fuse)	AU	1.00	53870.52	
294	Supplying and erecting switch disconnector fuse (SDF) 415V, 800A, with enclosure, four pole AC23 A rated with terminal shrouds on both sides and phase barriers along with telescopic shaft for depth adjustments and door interlock and padlock complying to IS/IEC 60947-3 Part-1/3 HRC - DIN type fuse switch insulation voltage 1000 V, with rotary handle for ON / OFF operation (without HRC fuse)	AU	1.00	52181.84	
	IC / MC DISTRIBUTION BOARDS				
295	Supplying & erecting street light control panel outdoor type, for single phase 2 wire system having in built astronomical adjustable programmable timer with minimum 5 years battery backup, 2 pole contactor upto 60 A, with maintenance mode to switch ON street lights during time of repairs with energy consumption data recording for analysis and LCD display for energy monitoring with numeric key pad in provided box complete.	AU	1.00	22308.00	
296	Supplying & erecting street light control panel outdoor type, for three phase 4 wire system having in built astronomical adjustable programmable timer with minimum 5 years battery backup, 4 pole contactor upto 60 A, with maintenance mode to switch ON street lights during time of repairs with energy consumption data recording for analysis and LCD display for energy monitoring with numeric key pad in provided box complete	AU	1.00	39492.11	
	LT - MCB's (SW-MCB)				
297	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 2)ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and distribution board shall be preferred.	AU	1.00	578.31	
298	Supplying, erecting & marking SPMCB 6A to 32A, C-series (for motor/power) in provided distribution board as per specification 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)ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and distribution board shall be preferred.	AU	1.00	279.97	
299	Supplying, erecting & marking SPMCB 6A to 32A, B- series (for lighting) in provided distribution board as per specification 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)ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and distribution board shall be preferred.	AU	1.00	234.30	
300	Supplying, erecting & marking SPMCB 40A to 63A C- series (for motor/power) in provided distribution board as per specification 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)ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and distribution board shall be preferred.	AU	1.00	721.02	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
301	Supplying, erecting & marking SPMCB 40A to 63A, B- series (for lighting) in provided distribution board as per specification 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)ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and distribution board shall be preferred.	AU	1.00	565.40	
302	Supplying, erecting & marking DPMCB 6A to 32A, C- series (for motor/power) in provided distribution board as per specification 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)ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and distribution board shall be preferred.	AU	1.00	932.49	
303	Supplying, erecting & marking DPMCB 6 A to 32 A B- series (for lighting) in provided distribution board as per specification 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)ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and distribution board shall be preferred.	AU	1.00	568.38	
304	Supplying, erecting & marking DPMCB 40A to 63A, C- series (for motor/power) in provided distribution board as per specification 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)ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and distribution board shall be preferred.	AU	1.00	1535.04	
305	Supplying, erecting & marking DPMCB 40A to 63A, B- series (for lighting) in provided distribution board as per specification 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)ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and distribution board shall be preferred.	AU	1.00	1429.97	
306	Supplying, erecting & marking TPMCB 6 A to 32A in provided distribution board as per specification 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)ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and distribution board shall be preferred.	AU	1.00	1547.14	
307	Supplying, erecting & marking TPMCB 40A to 63A in provided distribution board as per specification 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)ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and distribution board shall be preferred.	AU	1.00	2374.31	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
308	Supplying, erecting & marking FPMCB 6A to 32A in provided distribution board as per specification 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)ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and distribution board shall be preferred.	AU	1.00	2091.02	
309	Supplying, erecting & marking FPMCB 40A to 63A in provided distribution board as per specification 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)ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and distribution board shall be preferred.	AU	1.00	3019.91	
310	Supplying erecting and marking double pole isolator only switch version of miniature circuit breaker of 40A with required wiring connections and lugs etc. in provided distribution board complete. 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)ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and distribution board shall be preferred.	AU	1.00	470.85	
311	Supplying, erecting & marking FPMCB 80 A 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 to be provided 3)ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and distribution board shall be preferred.	AU	1.00	6904.78	
312	Supplying, erecting & marking FPMCB 100 A 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)ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and distribution board shall be preferred.	AU	1.00	8295.90	
313	Supplying, erecting & marking DPMCB 6A to 32A, D- series (for welding / xray machine) 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 to be provided 3)ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and distribution board shall be preferred.	AU	1.00	2742.43	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
314	<p>Supplying, erecting & marking DPMCB 40A to 63A, D- series (for welding / xray machine) in provided distribution board as per specification No. SWSWR/MCB</p> <p>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 to be provided 3)ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and distribution board shall be preferred.</p>	AU	1.00	1689.81	
315	<p>Supplying, erecting & marking TPMCB 6A to 32A, D- series (for welding / xray machine) in provided distribution board as per specification No. SWSWR/MCB</p> <p>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 to be provided 3)ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and distribution board shall be preferred.</p>	AU	1.00	2063.36	
316	<p>Supplying, erecting & marking TPMCB 40A to 63A, D- series (for welding / xray machine) in provided distribution board as per specification No. SWSWR/MCB</p> <p>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 to be provided 3)ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and distribution board shall be preferred.</p>	AU	1.00	2704.58	
317	<p>Supplying, erecting & marking FPMCB 40A to 63A, D- series (for welding / xray machine) in provided distribution board as per specification No. SWSWR/MCB</p> <p>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 to be provided 3)ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and distribution board shall be preferred.</p>	AU	1.00	3226.93	
	LT - MCBDB's (SW-MCBDB)				

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
318	<p>Supplying & erecting triple pole and neutral distribution board (TPNDB), SPMCB of 4 ways/phase (12 poles), with door, 1.2mm thickness, surface/flush mounted, IP 43 protection on iron/GI frame (horizontal busbar type) as per specification</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA.</p> <p>2) Above rates are applicable only to factory made enclosures.</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 2 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</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> <p>8) ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be preferred.</p> <p>9) DB,s with IEC 61439 part 1 &3 and minimum IK 08 shall be preferred.</p>	AU	1.00	7487.84	
319	<p>Supplying & erecting triple pole and neutral distribution board (TPNDB), SPMCB of 6 ways/phase (18 poles), with door, 1.2mm thickness, surface/flush mounted, IP 43 protection on iron/GI frame (horizontal busbar type) as per specification</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA.</p> <p>2) Above rates are applicable only to factory made enclosures.</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 2 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</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> <p>8) ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be preferred.</p> <p>9) DB,s with IEC 61439 part 1 &3 and minimum IK 08 shall be preferred.</p>	AU	1.00	8435.88	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
320	<p>Supplying & erecting triple pole and neutral distribution board (TPNDB), SPMCB of 8 ways / phase (24 poles), with door, 1.2mm thickness surface/ flush mounted, IP 43 Protection on iron/GI frame (horizontal busbar type) as per specification</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 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 2 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 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 8) ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be preferred. 9) DB's with IEC 61439 part 1 & 2 and minimum IK 08 shall be preferred.</p>	AU	1.00	10075.59	
321	<p>Supplying & erecting triple pole and neutral distribution board (TPNDB), SPMCB of 12 ways /phase (36 poles), with door, 1.2mm thickness surface/flush mounted, IP 43 Protection on iron/GI frame (horizontal busbar type) as per specification</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. 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 2 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 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 8) ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be preferred. 9) DB,s with IEC 61439 part 1 & 3 and minimum IK 08 shall be preferred.</p>	AU	1.00	14420.28	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
322	<p>Supplying & erecting triple pole and neutral distribution board (TPNDB), SP/TP MCBs total 4 ways /12 Poles, with door, 1.2mm thickness surface/flush mounted, IP 43 Protection on iron/GI frame (vertical busbar type) as per specification</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. 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 2 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 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 8) ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be preferred. 9) DB,s with IEC 61439 part 1 &3 and minimum IK 08 shall be preferred.</p>	AU	1.00	14107.09	
323	<p>Supplying & erecting triple pole and neutral distribution board (TPNDB), SP/TP MCBs total 6 ways /18 Poles, with door, 1.2mm thickness surface/flush mounted, IP 43 Protection on iron/GI frame (vertical busbar type) as per specification</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. 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 2 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 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 8) ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be preferred. 9) DB,s with IEC 61439 part 1 &3 and minimum IK 08 shall be preferred.</p>	AU	1.00	14539.71	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
324	<p>Supplying & erecting triple pole and neutral distribution board (TPNDB), SP/TP MCBs total 8 ways /24 poles, with door, 1.2mm thickness surface/flush mounted, IP 43 Protection on iron/GI frame (vertical busbar type) as per specification</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA.</p> <p>2) Above rates are applicable only to factory made enclosures.</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 2 kW load RCCB shall invariably be provided & erected preferably on the same distribution board.</p> <p>(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</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> <p>8) ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be preferred.</p> <p>9) DB,s with IEC 61439 part 1 &3 and minimum IK 08 shall be preferred.</p>	AU	1.00	18233.53	
325	<p>Supplying & erecting triple pole and neutral distribution board (TPNDB), SP/TP MCBs total 12 ways /36 poles, with door, 1.2mm thickness surface/flush mounted, IP 43 Protection on iron/GI frame (vertical busbar type) as per specification</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA.</p> <p>2) Above rates are applicable only to factory made enclosures.</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 2 kW load RCCB shall invariably be provided & erected preferably on the same distribution board.</p> <p>(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</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> <p>8) ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be preferred.</p> <p>9) DB,s with IEC 61439 part 1 &3 and minimum IK 08 shall be preferred.</p>	AU	1.00	22565.27	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
326	<p>Supplying and erecting single pole and neutral distribution board (SPNDB), with 2 ways for incoming and 2 ways (2 poles) for outgoing SP MCBs, with door, 1.2mm thickness surface / flush mounted, IP 43 Protection on iron / GI frame as per specification</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. 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 2 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 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 8) ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be preferred. 9) DB,s with IEC 61439 part 1 &3 and minimum IK 08 shall be preferred.</p>	AU	1.00	1435.55	
327	<p>Supplying and erecting single pole and neutral distribution board (SPNDB), with 2 ways for incoming and 6 ways (6 poles) for outgoing SP MCBs, with door, 1.2mm thickness surface / flush mounted, IP 43 Protection on iron / GI frame as per specification</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. 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 2 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 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 8) ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be preferred. 9) DB,s with IEC 61439 part 1 &3 and minimum IK 08 shall be preferred.</p>	AU	1.00	2764.91	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
328	<p>Supplying and erecting single pole and neutral distribution board (SPNDB), with 2 ways for incoming and 10 ways (10 poles) for outgoing SP MCBs, with door, 1.2mm thickness surface / flush mounted, IP 43 Protection on iron / GI frame as per specification</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA.</p> <p>2) Above rates are applicable only to factory made enclosures.</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 2 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</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> <p>8) ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be preferred.</p> <p>9) DB,s with IEC 61439 part 1 &3 and minimum IK 08 shall be preferred.</p>	AU	1.00	3271.17	
329	<p>Supplying & erecting CRCA sheet metal enclosures of 1.2mm thickness with 10A, 2 pin plug & earth socket and 10A, 3 pin plug top with 10A single pole MCB having rated short - circuit breaking capacity (Icn) 10kA complete erected on angle iron / GI frame</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA.</p> <p>2) Above rates are applicable only to factory made enclosures.</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 2 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</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> <p>8) ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be preferred.</p> <p>9) DB,s with IEC 61439 part 1 &3 and minimum IK 08 shall be preferred.</p>	AU	1.00	1565.67	
330	<p>Supplying & erecting CRCA sheet metal enclosures of 1.2mm thickness with 20A, 2 pin plug & earth socket and 20A, 3 pin plug top with 20A/30A single pole MCB having rated short - circuit breaking capacity (Icn) 10kA complete erected on angle iron/ GI frame.</p> <p>Note 1) All MCBs shall have rated short-circuit breaking capacity not less than 10kA.</p> <p>2) For more than 2 kW load RCCB shall invariably be provided & erected preferably in the same distribution board. (RCCB+MCB) or (RCCB+MCCB etc.). Separate box for RCCB/ELCB is not permissible.</p> <p>3) DBs and allied switchgears must be of same make.</p> <p>4) DBs with IEC 61439 part 1 & 3 and minimum IK 08 rating shall be preferred.</p>	AU	1.00	2264.40	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
331	<p>Supplying & erecting CRCA sheet metal enclosures of 1.2mm thickness with 30 A, 3 pin plug & earth socket and 30A, 3 pin plug top with 30A triple pole MCB having rated short - circuit breaking capacity (Icn) 10kA complete erected on angle iron / GI frame.</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. 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 2 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 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 8) ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be preferred. 9) DB,s with IEC 61439 part 1 &3 and minimum IK 08 shall be preferred.</p>	AU	1.00	4897.10	
332	<p>Supplying & erecting CRCA sheet metal one way enclosures of 1.2mm thickness suitable for DP MCB /TP MCB/FP MCB/RCCB/RCBO complete erected ON+C365n angle iron/GI frame.</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. 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 2 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 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 8) ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be preferred. 9) DB,s with IEC 61439 part 1 &3 and minimum IK 08 shall be preferred.</p>	AU	1.00	858.14	
333	Supplying and erecting blanking plate of suitable size on MCB DB	AU	1.00	34.23	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
334	<p>Supplying & erecting triple pole and neutral distribution board (TPNDB), 3 pole/ 4 pole MCCB as incomer & outgoing SP MCB (12 poles) or TP MCB of 4 ways (12 poles), with door, 1.2mm thickness, surface/flush mounted, on iron/GI frame (vertical busbar type) as per specification</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA.</p> <p>2) Above rates are applicable only to factory made enclosures.</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 2 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</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> <p>8) ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be preferred.</p> <p>9) DB,s with IEC 61439 part 1 &3 and minimum IK 08 shall be</p>	AU	1.00	19292.07	
335	<p>Supplying & erecting triple pole and neutral distribution board (TPNDB), 3 pole/ 4 pole MCCB as incomer & outgoing SP MCB (12 poles) or TP MCB of 6 ways (18 poles), with door, 1.2mm thickness, surface/flush mounted, on iron/GI frame (vertical busbar type) as per specification</p> <p>Note:- 1) All MCB's shall have breaking capacity not less than 10 kA.</p> <p>2) Above rates are applicable only to factory made enclosures.</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 2 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</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> <p>8) ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be preferred.</p> <p>9) DB,s with IEC 61439 part 1 &3 and minimum IK 08 shall be</p>	AU	1.00	15941.64	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
336	<p>Supplying & erecting triple pole and neutral distribution board (TPNDB), 3 pole/4 pole MCCB as incomer & outgoing SP MCB (24 poles) or TP MCB of 8 ways (24 poles), with door, 1.2mm thickness, surface/flush mounted, on iron/GI frame (vertical busbar type) as per specification</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. 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 2 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 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 8) ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be preferred. 9) DB.s with IEC 61439 part 1 &3 and minimum IK 08 shall be</p>			19788.13	
337	<p>Supplying & erecting triple pole and neutral distribution board (TPNDB), 3 pole/4 pole MCCB as incomer & outgoing SP MCB (36 poles) or TP MCB of 12 ways (36 poles), with door, 1.2mm thickness, surface/flush mounted, on iron/GI frame (vertical busbar type) as per specification</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. 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 2 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 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 8) ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be preferred. 9) DB.s with IEC 61439 part 1 &3 and minimum IK 08 shall be</p>			26045.81	
338	<p>Supplying & erecting IP 65 Weather proof one way FRP enclosures 2/4/6/8 modules suitable for DP MCB /TP MCB/FP MCB/RCCB/RCBO complete erected on angle iron/GI frame.</p>			2983.82	
	LT - MCCB's (SW-MCCB)				
339	<p>Providing & erecting 3 Pole MCCB upto 100A, 415V, with short circuit rating 25 kA (Ics=100% of Icu),adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt / UV/ trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron /GI frame as per specification</p> <p>Note: 1)ROHCompliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be</p>	AU	1.00	7276.24	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
340	Providing & erecting 3 Pole MCCB upto 125A, 415V, with short circuit rating 25 kA (Ics=100% of Icu),adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron /GI frame as per specification no. SW-SWR/MCCB Note: 1) ROHCcompliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be	AU	1.00	7661.87	
341	Providing & erecting 3 Pole MCCB upto 160A, 415V, with short circuit rating 25 kA (Ics=100% of Icu),adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron /GI frame as per specification no. SW-SWR/MCCB Note: 1)ROHCcompliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be	AU	1.00	11858.33	
342	Providing & erecting 3 Pole MCCB of 200A,415V capacity with short circuit rating 25 kA (Ics=100% of Icu) adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron /GI frame as per specification Note: 1)ROHCcompliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be	AU	1.00	16133.00	
343	Providing & erecting 3 Pole MCCB of 250A,415V capacity with short circuit rating 36 kA (Ics=100% of Icu) adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron /GI frame as per specification Note: 1)ROHCcompliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be	AU	1.00	18139.03	
344	Providing & erecting 3 Pole MCCB of 315/400A, 415V capacity with short circuit rating 36 kA (Ics=100% of Icu), adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron /GI frame as per specification Note: 1)ROHCcompliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be	AU	1.00	27413.42	
345	Providing & erecting 3 Pole MCCB of 600/630 A, 415V capacity with short circuit rating 36 kA (Ics=100% of Icu), adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron /GI frame as per specification Note: 1)ROHCcompliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be	AU	1.00	36516.79	
346	Providing & erecting 3 Pole MCCB of 800A, 415V capacity with short circuit rating 50 kA ,(Ics=100% of Icu), adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron /GI frame as per specification Note: 1)ROHCcompliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be	AU	1.00	51703.58	
347	Providing & erecting 4 Pole MCCB of 315/400A, 415V capacity with short circuit rating 36 kA (Ics=100% of Icu), adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron /GI frame as per specification	AU	1.00	35223.86	
348	Providing & erecting 4 Pole MCCB of 600/630 A, 415V capacity with short circuit rating 36 kA (Ics=100% of Icu), adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron /GI frame as per specification	AU	1.00	46358.48	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
349	Providing & erecting 4 Pole MCCB of 800A, 415V capacity with short circuit rating 50 kA (Ics=100% of Icu), adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron /GI frame as per specification	AU	1.00	64514.03	
	RCCB (SW-RCCB)				
350	Providing, erecting and commissioning 2 pole RCCB only of electromagnetic type with 30/100/300 mA sensitivity and having capacity of 16/ 25A complete as per specification Note:- 1) For human safety RCCB with 30mA sensitivity shall be selected. 2) ROHS Compliance MCB's,MCCB's,RCCB's,RCBO's, & Distribution Boards shall be preferred 3) For use of RCBO's with inbuilt short circuit indication on each pole & separate earth leakage tripping indication shall be preferably used 4)Item no 5-6-17 to 5-6-19 shall be preferably used for lift applications to avoid nuisance tripping.	AU	1.00	3699.46	
351	Providing, erecting and commissioning 2 pole RCCB only of electromagnetic type with 30/100/300 mA sensitivity and having capacity of 40A complete as per specification Note:- 1) For human safety RCCB with 30mA sensitivity shall be selected. 2) ROHS Compliance MCB's,MCCB's,RCCB's,RCBO's, & Distribution Boards shall be preferred 3) For use of RCBO's with inbuilt short circuit indication on each pole & separate earth leakage tripping indication shall be preferably used 4) Item no 5-6-17 to 5-6-19 shall be preferably used for lift applications to avoid nuisance tripping.	AU	1.00	4162.64	
352	Providing, erecting and commissioning 4 pole RCCB only of electromagnetic type with 30/100/300 mA sensitivity and having capacity of 16/25A complete as per specification Note:- 1) For human safety RCCB with 30mA sensitivity shall be selected. 2) ROHS Compliance MCB's,MCCB's,RCCB's,RCBO's, & Distribution Boards shall be preferred 3) For use of RCBO's with inbuilt short circuit indication on each pole & separate earth leakage tripping indication shall be preferably used 4) Item no 5-6-17 to 5-6-19 shall be preferably used for lift applications to avoid nuisance tripping.	AU	1.00	4879.44	
353	Providing, erecting and commissioning 4 pole RCCB only of electromagnetic type with 30/100/300 mA sensitivity and having capacity of 40A complete as per specification Note:- 1) For human safety RCCB with 30mA sensitivity shall be selected 2) ROHS Compliance MCB's,MCCB's,RCCB's,RCBO's, & Distribution Boards shall be preferred 3) For use of RCBO's with inbuilt short circuit indication on each pole & separate earth leakage tripping indication shall be preferably used 4)Item no 5-6-17 to 5-6-19 shall be preferably used for lift applications to avoid nuisance tripping.	AU	1.00	4943.28	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
354	Providing, erecting and commissioning 4 pole RCCB of electromagnetic type with 30/100/300 mA sensitivity and having capacity of 63A complete as per specification Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) ROHS Compliance MCB's,MCCB's,RCCB's,RCBO's, & Distribution Boards shall be preferred 3) For use of RCBO's with inbuilt short circuit indication on each pole & separate earth leakage tripping indication shall be preferably used4)Item no 5-6-17 to 5-6-19 shall be preferably used for lift applications to avoid nuisance tripping.	AU	1.00	5608.61	
355	Providing, erecting and commissioning 4 pole RCCB of electromagnetic type with 30/100/300 mA sensitivity and having capacity of 80A. complete as per specification Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) ROHS Compliance MCB's,MCCB's,RCCB's,RCBO's, & Distribution Boards shall be preferred 3) For use of RCBO's with inbuilt short circuit indication on each pole & separate earth leakage tripping indication shall be preferably used	AU	1.00	7529.33	
356	Providing, erecting and commissioning 4 pole RCCB of electromagnetic type with 30/100/300 mA sensitivity and having capacity of 100A. complete as per specification Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) ROHS Compliance MCB's,MCCB's,RCCB's,RCBO's, & Distribution Boards shall be preferred 3) For use of RCBO's with inbuilt short circuit indication on each pole & separate earth leakage tripping indication shall be preferably used	AU	1.00	7886.17	
357	Providing, erecting & commissioning 4 pole, 40A RCCB with added immunity which can avoid nuisance DC pulse tripping with 30/100/300 mA sensitivity complete as per specification Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) ROHS Compliance MCB's,MCCB's,RCCB's,RCBO's, & Distribution Boards shall be preferred 3) For use of RCBO's with inbuilt short circuit indication on each pole & separate earth leakage tripping indication shall be preferably used 4)Item no 5-6-17 to 5-6-19 shall be preferably used for lift applications to avoid nuisance tripping.	AU	1.00	6037.16	
358	Providing, erecting & commissioning 4 pole, 63A RCCB with added immunity which can avoid nuisance DC pulse tripping with 30/100/300 mA sensitivity complete as per specification Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) ROHS Compliance MCB's,MCCB's,RCCB's,RCBO's, & Distribution Boards shall be preferred 3) For use of RCBO's with inbuilt short circuit indication on each pole & separate earth leakage tripping indication shall be preferably used 4)Item no 5-6-17 to 5-6-19 shall be preferably used for lift applications to avoid nuisance tripping.	AU	1.00	6568.64	
359	Providing, erecting & commissioning 4 pole,100A RCCB with added immunity which can avoid nuisance DC pulse tripping with 30/100/300 mA sensitivity complete as per specification Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) ROHS Compliance MCB's,MCCB's,RCCB's,RCBO's, & Distribution Boards shall be preferred 3) For use of RCBO's with inbuilt short circuit indication on each pole & separate earth leakage tripping indication shall be preferably used 4)Item no 5-6-17 to 5-6-19 shall be preferably used for lift applications to avoid nuisance tripping.	AU	1.00	8672.86	
	RCBO (SWRCCB/ RCBO)				

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
360	<p>Supplying, fixing and commissioning 2 pole,RCBO (residual current breaker with overcurrent short circuit 10 kA and earth leakage protection), with 30/100/300 mA sensitivity and having capacity of 6/10/16/20/25A, as per specification</p> <p>Note:- 1) For human safety RCCB with 30mA sensitivity shall be selected. 2) ROHS compliant MCB's,MCCB's, RCCB's, RCBO's and Distribution Boards shall be preferred. 3)For use of RCBO's with inbuilt short circuit indication on each pole and separate earth leakage tripping indication shall be preferably used. 4) For use of RCBO's with inbuilt short circuit indication on each pole and separate earth leakage tripping indication shall be preferably used.</p>	AU	1.00	4206.05	
361	<p>Supplying, fixing and commissioning 2 pole RCBO (residual current breaker with overcurrent short circuit 10 kA and earth leakage protection), with 30/100/300 mA sensitivity and having capacity of 32A/40A as per specification</p> <p>Note:- 1) For human safety RCCB with 30mA sensitivity shall be selected. 2) ROHS compliant MCB's,MCCB's, RCCB's, RCBO's and Distribution Boards shall be preferred. 3)For use of RCBO's with inbuilt short circuit indication on each pole and separate earth leakage tripping indication shall be preferably used.4) For use of RCBO's with inbuilt short circuit indication on each pole and separate earth leakage tripping indication shall be preferably used.</p>	AU	1.00	5012.91	
362	<p>Supplying, fixing and commissioning 2 pole RCBO 63A, with overcurrent, rated short-circuit breaking capacity (10 kA) and earth leakage protection, with 30/100/300 mA sensitivity and short circuit and earth leakage trip indication as per specification</p> <p>Note:- 1) For human safety RCCB with 30mA sensitivity shall be selected. 2) ROHS compliant MCB's,MCCB's, RCCB's, RCBO's and Distribution Boards shall be preferred. 3)For use of RCBO's with inbuilt short circuit indication on each pole and separate earth leakage tripping indication shall be preferably used.4) For use of RCBO's with inbuilt short circuit indication on each pole and separate earth leakage tripping indication shall be preferably used.</p>	AU	1.00	6147.70	
363	<p>Supplying, fixing and commissioning 4 pole RCBO (residual current breaker with overcurrent short circuit 10 kA and earth leakage protection), with 30/100/300 mA sensitivity and having capacity of 6A/10A/16A/20A/25/A as per specification</p> <p>Note:- 1) For human safety RCCB with 30mA sensitivity shall be selected. 2) ROHS compliant MCB's,MCCB's, RCCB's, RCBO's and Distribution Boards shall be preferred. 3)For use of RCBO's with inbuilt short circuit indication on each pole and separate earth leakage tripping indication shall be preferably used.4) For use of RCBO's with inbuilt short circuit indication on each pole and separate earth leakage tripping indication shall be preferably used.</p>	AU	1.00	3851.19	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
364	<p>Supplying, fixing and commissioning 4 pole RCBO (residual current breaker with overcurrent short circuit 10 kA and earth leakage protection), with 30/100/300 mA sensitivity and having capacity of 32A/40A as per specification</p> <p>Note:- 1) For human safety RCCB with 30mA sensitivity shall be selected. 2) ROHS compliant MCB's,MCCB's, RCCB's, RCBO's and Distribution Boards shall be preferred. 3)For use of RCBO's with inbuilt short circuit indication on each pole and separate earth leakage tripping indication shall be preferably used.4) For use of RCBO's with inbuilt short circuit indication on each pole and separate earth leakage tripping indication shall be preferably used.</p>	AU	1.00	5588.70	
365	<p>Supplying, fixing and commissioning 4 pole RCBO 63A, with overcurrent, rated short-circuit breaking capacity (10 kA) and earth leakage protection, with 30/100/300 mA sensitivity and short circuit and earth leakage trip indication as per specification</p> <p>Note:- 1) For human safety RCCB with 30mA sensitivity shall be selected. 2) ROHS compliant MCB's,MCCB's, RCCB's, RCBO's and Distribution Boards shall be preferred. 3)For use of RCBO's with inbuilt short circuit indication on each pole and separate earth leakage tripping indication shall be preferably used.4) For use of RCBO's with inbuilt short circuit indication on each pole and separate earth leakage tripping indication shall be preferably used.</p>	AU	1.00	6796.73	
	MCCB PANEL BOARDS AND ACCESSORIES (SWSWR-MCCBPB)				
366	<p>Providing & erecting Floor / Wall mounting, MCCB Panel board suitable for Four Pole Incoming 250A, 4 ways Four pole outgoing upto 100 A MCCB's on provided iron frame, as per Specification. (Excluding MCCB'S)</p> <p>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. 4)ROHS compliant MCB's,MCCB's, RCCB's, RCBO's and distribution boards shall be preferred</p>	AU	1.00	43721.16	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
367	<p>Providing & erecting Floor / Wall mounting, MCCB Panel board suitable for Four Pole Incoming 250A, 6 ways Four pole outgoing upto 100 A MCCB's on provided iron frame, as per Specification. (Excluding MCCB'S)</p> <p>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. 4)ROHS compliant MCB's,MCCB's, RCCB's, RCBO's and distribution boards shall be preferred</p>	AU	1.00	49234.43	
368	<p>Providing & erecting floor / wall mounting, MCCB panel board with door suitable for four pole incoming 400A, 4 ways four pole outgoing upto 100 A MCCB's on provided iron frame, as per specification. (Excluding MCCB'S)</p> <p>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. 4)ROHS compliant MCB's,MCCB's, RCCB's, RCBO's and distribution boards shall be preferred</p>	AU	1.00	51256.22	
369	<p>Providing & erecting Floor / Wall mounting, MCCB Panel board suitable for Four Pole Incoming 400 A, 6 ways Four pole outgoing upto 100 A MCCB's on provided iron frame, as per Specification. (Excluding MCCB'S)</p> <p>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. 4)ROHS compliant MCB's,MCCB's, RCCB's, RCBO's and distribution boards shall be preferred</p>	AU	1.00	58836.84	
370	<p>Providing & erecting floor / wall mounting, MCCB panel board with door suitable for four pole incoming 400A, 8 ways four pole outgoing upto 100 A MCCB's on iron frame, as per specification. (Excluding MCCB'S)</p> <p>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</p>	AU	1.00	58794.54	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
371	<p>Providing & erecting incoming and outgoing cable alleys suitable for MCCB panel board with door of 250A incoming and 4 way outgoing or 400A incoming and 2 way outgoing made from CRCA sheet 1.6 mm thick duly powder coated and having vertical insulated partition for shielding between the shared face of cableway and DB complete.</p> <p>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.</p>	AU	1.00	17094.08	
372	<p>Providing & erecting incoming and outgoing cable alleys suitable for MCCB panel board with door of 250A incoming and 6 way outgoing or 400A incoming and 4 way outgoing made from CRCA sheet 1.6 mm thick duly powder coated and having vertical insulated partition for shielding between the shared face of cableway and DB complete.</p> <p>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.</p>	AU	1.00	18056.17	
373	<p>Providing & erecting incoming and outgoing cable alleys suitable for MCCB panel board with door of 250A incoming and 8 way outgoing or 400A incoming and 6 way outgoing made from CRCA sheet 1.6 mm thick duly powder coated and having vertical insulated partition for shielding between the shared face of cableway and DB complete.</p> <p>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</p>	AU	1.00	19866.45	
374	<p>Providing & erecting incoming and outgoing cable alleys suitable for MCCB panel board with door of 250A incoming and 12 way outgoing or 400A incoming and 6/8 way outgoing made from CRCA sheet 1.6 mm thick duly powder coated and having vertical insulated partition for shielding between the shared face of cableway and DB complete.</p> <p>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</p>	AU	1.00	23497.86	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
375	Providing & erecting prewired meter module suitable for MCCB panel board with CT's and emf's VIF meter complete.	AU	1.00	13418.21	
	Accessories for MCCB's				
376	Supplying and erecting terminal spreaders for use on MCCB incoming and outgoing terminals for 3 pole upto 100A MCCB.	AU	1.00	215.85	
377	Supplying and erecting terminal spreaders for use on MCCB incoming and outgoing terminals for 3 pole upto 250A MCCB.	AU	1.00	1019.57	
378	Supplying and erecting terminal spreaders for use on MCCB incoming and outgoing terminals for 3 pole upto 300- 400A MCCB.	AU	1.00	1798.35	
379	Supplying and erecting terminal spreaders for use on MCCB incoming and outgoing terminals for 3 pole upto 630A MCCB.	AU	1.00	2023.96	
380	Supplying and erecting terminal spreaders for use on MCCB incoming and outgoing terminals for 3 pole upto 800A MCCB.	AU	1.00	4185.66	
381	Supplying and erecting extended rotary handle for MCCB with adjustable telescopic rod suitable for upto 250A MCCB.	AU	1.00	1361.24	
382	Supplying and erecting extended rotary handle for MCCB with adjustable telescopic rod suitable for upto 250-630A MCCB.	AU	1.00	2023.96	
383	Supplying and erecting extended rotary handle for MCCB with adjustable telescopic rod suitable for 630-800A MCCB.	AU	1.00	2891.68	
384	Supplying and erecting SS enclosure for MCCB suitable for upto 100A MCCB.	AU	1.00	1067.30	
385	Supplying and erecting SS enclosure for MCCB suitable for 125 to 200A MCCB.	AU	1.00	1763.64	
	DISMANTLING OF DB				
386	Dismantling the existing switchgears, DB, and bus bar of any size complete with/ without board or angle iron frame	AU	1.00	100.87	
387	Making the site clear of dismantled DB and switchgears by refilling the holes with cement mortar & finishing in an approved manner.	AU	1.00	110.63	
388	Dismantling existing OCB, ACB, LBS, VCB complete from existing panel board in an approved manner complete.	AU	1.00	1501.16	
389	Dismantling any type of unserviceable feeder pillar, switch gear panel, capacitor panel, metering panel, bus-bar panel, electronic equipment panel, etc. and remaking the site good as original complete. (approx. size (upto 150 cm x 70 cm x 45 cm) - small cupboard	AU	1.00	1630.23	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
390	Dismantling any type of unserviceable feeder pillar, switch gear panel, capacitor panel, metering panel, bus-bar panel, electronic equipment panel, etc. and remaking the site good as original complete. (approx. size (upto 200cm. x 90 cm x 45 cm and above) - big cupboard)	AU	1.00	2072.77	
391	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	1.00	1464.28	
392	Acrylic sheet 2 mm thick for covering wall entries including cutting drilling and fixing with nut bolts / screws etc. complete	M²	1.00	1274.46	
393	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	1.00	1939.35	
394	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	1.00	533.65	
395	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	1.00	201.74	
396	Supplying and erecting self locking arrangement with duplicate keys, made of brass duly erected, flush with surface of panel/cupboard.	AU	1.00	314.55	
397	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	1.00	224.52	
398	Supplying and erecting slotted angles, frames 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	KG	1.00	159.44	
SECTION - V CONTROL PANEL (CP)					
	SHEETS				
399	Supplying and erecting metal work in CRCA sheet including Iron work for supports with fabrication of boxes, panel boards, etc. including cutting, bending, drilling, welding, riveting, treated with anti-rust treatment and duly powder coated or painted with one coat of red lead paint and 2 coats of enamel paint complete. Note:- For the purpose of panel boards above rates shall be inclusive of work along with angle iron work.	kg	1.00	270.08	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
400	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.	M ²	1.00	2776.70	
401	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.	M ²	1.00	2360.20	
402	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.	M ²	1.00	2155.20	
403	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.	M ²	1.00	1464.28	
404	Acrylic sheet 2 mm thick for covering wall entries including cutting drilling and fixing with nut bolts / screws etc. complete	M ²	1.00	1274.46	
405	Supplying and erecting Hylam sheet/ Ebonite 6 mm thick for covering wall entries including cutting drilling and fixing with nut bolts / screws etc.complete.	M ²	1.00	1939.35	
406	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.	M ²	1.00	533.65	
407	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	1.00	201.74	
408	Supplying and erecting self locking arrangement with duplicate keys, made of brass duly erected, flush with surface of panel/cupboard.	AU	1.00	314.55	
409	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.)	M ²	1.00	224.52	
410	Supplying and erecting slotted angles, frames 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	KG	1.00	159.44	
BUS BARS (CP-BB)					
411	Supplying and erecting Bus bar chamber triple pole with neutral with four aluminium bars, 500V, 100A complete as per specification	M	1.00	6389.67	
412	Supplying and erecting Bus bar chamber triple pole with neutral with four aluminium bars, 500V 200A complete as per specification	M	1.00	6632.63	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
413	Supplying and erecting Bus bar chamber triple pole with neutral with four aluminium bars, 500V 300A complete as per specification	M	1.00	6946.10	
414	Supplying and erecting Bus bar chamber triple pole with neutral with four aluminium bars, 500V 400A complete as per specification	M	1.00	9749.92	
415	Supplying and erecting Bus bar chamber triple pole with neutral with four aluminium bars, 500V 630A complete as per specification	M	1.00	11011.37	
416	Supplying and erecting Bus bar chamber triple pole with neutral with four aluminium bars, 500V 800A complete as per specification	M	1.00	11834.62	
417	Supplying and erecting Bus bar chamber triple pole with neutral with four Copper bars, 500V, 100A complete as per specification	M	1.00	9555.77	
418	Supplying and erecting Bus bar chamber triple pole with neutral with four Copper bars, 500V 200A complete as per specification	M	1.00	11254.33	
419	Supplying & erecting of required size electrolyte copper flexible braided bus patti or bar in bus bar chamber/in panel or any other purpose, suitable for 500 volt with require capacity with 99.9% copper purity with fixing arrangement (like lug or bottle type lug) to both the end with high grade polyolefin insulation sleeve complete as per specification no. BCP-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) Measurement shall be done on actual weight basis after fabrication but before erection.	kg	1.00	1545.63	
420	Supplying and erecting of any size electrolyte copper patti or bar in bus bar chamber / in panel or any other purpose, 500 V with require capacity with 99.9% copper purity with fixing arrangement (like lug or bottle type lug) to both the end with high grade polyolefin insulation sleeve complete as per specification no. BCP-BB Note:- Nut, bolts holding the lugs to bus bar shall be of bimetallic/ brass/ cadmium plated steel.	kg	1.00	1341.71	
421	Supplying and erecting of any size electrolyte aluminium patti or bar in bus bar chamber / in panel or any other purpose, 500 V with require capacity with 99.9% aluminium purity with fixing arrangement (like lug or bottle type lug) to both the end with high grade polyolefin insulation sleeve complete as per specification no. BCP-BB Note:- Nut, bolts holding the lugs to bus bar shall be of bimetallic/ brass/ cadmium plated steel.	kg	1.00	749.49	
	MEASURING INSTRUMENT				

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
422	Supplying and erecting static energy meter with 240V 50 Hz. AC supply 5 to 30 A, ISI mark, accuracy class 1.0 with backlit LCD display, (measuring and display kWh, V, I, kW six month history of energy and MD in kVA) with transparent hinge type box complete erected on polished teak wood board duly wired with required size of weather proof PVC wires duly tested by electric supply company.	AU	1.00	3205.14	
423	Supplying and erecting static energy meter with 240V 50 Hz. AC supply 10 to 60 A, ISI mark, accuracy class 1.0 with backlit LCD display, (measuring and display kWh, V, I, kW, six month history of energy and MD in kVA) with transparent hinge type box complete erected on polished teak wood board duly wired with required size of weather proof PVC wires duly tested by electric supply company.	AU	1.00	3215.99	
424	Supplying and erecting static energy meter 440 V 50 Hz. 100A ISI mark meter AC 3 phase 4 wires LCD/LED display complete erected on polished teak wood board duly wired with required size of weather proof PVC wires duly tested for class II accuracy by electric supply company.	AU	1.00	8938.60	
425	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. 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.	AU	1.00	2206.18	
426	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. 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.	AU	1.00	1813.53	
427	Supplying and erecting Intelligent flush mounted panel meter three phase four wire (IPM) input voltage measurement range 50-550 V AC (P-P) 415V, aux. supply 90- 300 V AC/DC, flush mounted (96 x 96 mm) meter constant Wh viewing in LCD multifunction meters in auto scroll mode with voltage, current, frequency, power factor kW, kVA, kVAR, kWh, kVAh, kVARh, phase angle, interrupts, THD, complete with RS 485 communication protocol, class 1 accuracy and wiring connections and mounting hardware on provided panels complete with calibration certificate from manufacturer.	AU	1.00	9610.00	
428	Supplying and erecting dual source intelligent flush mounted panel meter three phase four wire (IPM) 415V CT/ PT site programmable class I flush mounted (96 x 96 mm) meter with voltage, current, frequency, power factor , ON hrs, kWh, EB and DG set metering with LED display (excluding CTs) complete with RS 485 communication protocol, class I accuracy and wiring connections and mounting hardware on provided panels complete with calibration certificate from manufacturer.	AU	1.00	5768.17	
	ACCESSORIES				
429	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.	AU	1.00	362.27	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
430	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.	AU	1.00	1113.94	
431	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	1.00	268.99	
432	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	1.00	383.97	
433	Supplying & erecting porcelain/epoxy bus bar support complete erected in provided MS box for 100A complete.	AU	1.00	74.84	
434	Supplying & erecting porcelain/epoxy bus bar support complete erected in provided MS box for 200/300A complete.	AU	1.00	105.21	
435	Supplying & erecting porcelain/epoxy bus bar support complete erected in provided MS box for 400A complete.	AU	1.00	130.16	
436	Supplying and erecting DIN Type HRC Fuse cartridge 500V, 32A	AU	1.00	322.14	
437	Supplying and erecting DIN Type HRC Fuse cartridge 500V, 63A	AU	1.00	331.90	
438	Supplying and erecting DIN Type HRC Fuse cartridge 500V, 100A	AU	1.00	346.00	
439	Supplying and erecting DIN Type HRC Fuse cartridge 500V, 160A	AU	1.00	463.15	
440	Supplying and erecting DIN Type HRC Fuse cartridge 500V, 200A	AU	1.00	593.30	
SECTION - VI CABLES (CB)					
	ALUMINIUM CABELS				
441	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3 core 2.5 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	50.96	
442	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3 core 4 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	156.53	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
443	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3 core 6 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	174.36	
444	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3½ core 25 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	382.08	
445	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3½ core 35 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	508.33	
446	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3½ core 50 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	682.83	
447	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3½ core 70 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	920.91	
448	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3½ core 95 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	1165.64	
449	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3½ core 120 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	1462.45	
450	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3½ core 150 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	1736.20	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
451	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3½ core 185 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	2184.98	
452	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3½core 240 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	2746.00	
453	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3½ core 300 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable	M	1.00	3383.23	
454	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3½core 400 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable	M	1.00	4355.31	
	COPPER CABELS				
455	Supplying, erecting & terminating XLPE unarmoured cable 1 core 25 sq. mm. copper conductor complete erected with provided lugs, laid in provided control panel /distribution boards / pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	874.06	
456	Supplying, erecting & terminating XLPE insulated unarmoured cable 1100 V. 1 core 35 sq. mm. copper conductor complete erected with provided lugs, laid in provided control panel /distribution boards / pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	1201.11	
457	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 2 core 2.5 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	72.15	
458	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 2 core 6 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	427.69	
459	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3 core 2.5 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	43.08	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
460	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3 core 4 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	409.84	
461	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3 core 6 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	582.11	
462	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3 core 10 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	937.52	
463	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3½ core 25 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	2699.07	
464	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3½ core 35 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	3562.25	
465	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3½ core 50 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	4677.71	
466	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 4 core 4 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	523.28	
467	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 4 core 6 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	758.87	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
468	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 4 core 10 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	1210.52	
469	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 4 core 16 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	1797.11	
470	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 4 core 25 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	2934.87	
471	Re-erecting PVC / XLPE 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 : OEM test report has to be submitted with cable.	M	1.00	58.57	
472	11kv/22kv/33kv Cable fault detection for HT power underground cable from 35 sq. mm. to 400 sq. mm. by acoustic method by using surge wave tester & surge wave receiver (Duo phone) up to 250 meter length cable with recording results & submission of test reports. Note : OEM test report has to be submitted with cable.	AU	1.00	8681.54	
473	11kv/22kv/33kv Cable fault detection for HT power underground cable from 35 sq. mm. to 400 sq. mm. by acoustic method by using surge wave tester & surge wave receiver (Duo phone) 251 meter to 500 meter length cable with recording results & submission of test reports Note : OEM test report has to be submitted with cable.	AU	1.00	8325.77	
474	Cable fault detection for all types of LT underground cable from 16sq. mm. to 400 sq. mm. by acoustic method by using surge wave tester & surge wave receiver (Duo phone) up to 250 meter length cable with recording results & submission of test reports. Note : OEM test report has to be submitted with cable.	AU	1.00	8195.62	
	H.T. CABELS				
475	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 Note : OEM test report has to be submitted with cable.	M	1.00	1257.99	
476	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 Note : OEM test report has to be submitted with cable.	M	1.00	1710.71	
477	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 Note : OEM test report has to be submitted with cable.	M	1.00	2026.73	
478	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 Note : OEM test report has to be submitted with cable.	M	1.00	2359.31	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
479	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 Note : OEM test report has to be submitted with cable.	M	1.00	2711.32	
480	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 Note : OEM test report has to be submitted with cable.	M	1.00	3275.00	
481	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 Note : OEM test report has to be submitted with cable.	M	1.00	3857.66	
482	Supplying , erecting & Terminating 3 x 400 sq mm 11 kV, FR XLPE(E) armoured cable on wall/ceiling or laid in provided trench / pipe in an approved manner as per specification Note : OEM test report has to be submitted with cable.	M	1.00	4843.33	
483	Supplying , erecting & terminating XLPE insulated, galvanised steel formed wire armoured (strip) cable 11 kV(UE), 3 x 95 sq. mm. aluminium conductor laid in provided trench / pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	2406.07	
484	Supplying , erecting & terminating XLPE insulated, galvanised steel formed wire armoured (strip) cable 11 kV(UE), 3 x 120 sq. mm. aluminium conductor laid in provided trench / pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	2701.03	
485	Supplying , erecting & terminating XLPE insulated, galvanised steel formed wire armoured (strip) cable 11 kV(UE), 3 x 150 sq. mm. aluminium conductor laid in provided trench / pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	3066.17	
486	Supplying , erecting & terminating XLPE insulated, galvanised steel formed wire armoured (strip) cable 11 kV(UE), 3 x 185 sq. mm. aluminium conductor laid in provided trench / pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	3478.45	
487	Supplying , erecting & terminating XLPE insulated, galvanised steel formed wire armoured (strip) cable 11 kV(UE), 3 x 240 sq. mm. aluminium conductor laid in provided trench / pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	4093.64	
488	Supplying , erecting & terminating XLPE insulated, galvanised steel formed wire armoured (strip) cable 11 kV(UE), 3 x 300 sq. mm. aluminium conductor laid in provided trench / pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	4832.74	
489	Supplying , erecting & terminating XLPE insulated galvanised steel formed wire armoured (strip) cable 11 kV(UE), 3 x 400 sq. mm. aluminium conductor laid in provided trench / pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	5852.58	
490	Supplying , erecting & terminating XLPE insulated galvanised steel formed wire armoured (strip) cable 22 kV(E), 3 x 95 sq. mm. aluminium conductor laid in provided trench / pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	2327.83	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
491	Supplying , erecting & terminating XLPE insulated galvanised steel formed wire armoured (strip) cable, 22 kV(E), 3 x 120 sq. mm. aluminium conductor laid in provided trench / pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	2606.55	
492	Supplying , erecting & terminating XLPE insulated galvanised steel formed wire armoured (strip) cable 22 kV(E), 3 x 150 sq. mm. aluminium conductor laid in provided trench / pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	2973.49	
493	Supplying , erecting & terminating XLPE insulated, galvanised steel formed wire armoured (strip) cable 22 kV(E), 3 x 185 sq. mm. aluminium conductor laid in provided trench / pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	3351.57	
494	Supplying , erecting & terminating XLPE insulated, galvanised steel formed wire armoured (strip) cable 22 kV(E), 3 x 240 sq. mm. aluminium conductor laid in provided trench / pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	4021.26	
495	Supplying , erecting & terminating XLPE insulated, galvanised steel formed wire armoured (strip) cable 22 kV(E), 3 x 300 sq. mm. aluminium conductor laid in provided trench / pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	4640.27	
496	Supplying , erecting & terminating XLPE insulated, galvanised steel formed wire armoured (strip) cable 33 kV(E), 3 x 95 sq. mm. aluminium conductor laid in provided trench / pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	3063.88	
497	Supplying , erecting & terminating XLPE insulated, galvanised steel formed wire armoured (strip) cable 33 kV(E), 3 x 120 sq. mm. aluminium conductor laid in provided trench / pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	3458.49	
498	Supplying , erecting & terminating XLPE insulated, galvanised steel formed wire armoured (strip) cable 33 kV(E), 3 x 150 sq. mm. aluminium conductor laid in provided trench / pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	3739.53	
499	Supplying , erecting & terminating XLPE insulated, galvanised steel formed wire armoured (strip) cable 33 kV(E), 3 x 185 sq. mm. aluminium conductor laid in provided trench / pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	4163.74	
500	Supplying , erecting & terminating XLPE insulated, galvanised steel formed wire armoured (strip) cable 33 kV(E), 3 x 240 sq. mm. aluminium conductor laid in provided trench / pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	4859.46	
501	Supplying , erecting & terminating XLPE insulated, galvanised steel formed wire armoured (strip) cable 33 kV(E), 3 x 300 sq. mm. aluminium conductor laid in provided trench / pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	5464.64	
502	Supplying , erecting & terminating XLPE insulated, galvanised steel formed wire armoured (strip) cable 33 kV(UE), 3 x 150 sq. mm. aluminium conductor laid in provided trench / pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	3887.40	
503	Supplying , erecting & terminating XLPE insulated, galvanised steel formed wire armoured (strip) cable 33 kV(UE), 3 x 185 sq. mm. aluminium conductor laid in provided trench / pipe as per specification Note : OEM test report has to be submitted with cable.	M	1.00	4323.80	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
504	Supplying , erecting & terminating XLPE insulated, galvanised steel formed wire (strip) armoured cable 33 kV(UE), 3 x 240 sq. mm. aluminium conductor laid in provided trench / pipe as per specification Note : OEM test report has to be submitted with cable	M	1.00	5014.67	
505	Supplying , erecting & terminating XLPE insulated, galvanised steel formed wire armoured (strip) cable 33 kV(UE), 3 x 300 sq. mm. aluminium conductor laid in provided trench / pipe as per specification Note : OEM test report has to be submitted with cable	M	1.00	5886.20	
	CABLE JOINTS & END TERMINATION KITS (LT CABLE)				
506	Providing & erecting epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 2.5 to 16 sq. mm. cable, with necessary material as per pecification	AU	1.00	2417.68	
507	Providing & erecting epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 25 to 50 sq mm. cable, with necessary material as per specification	AU	1.00	2898.18	
508	Providing & erecting epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 70 to 95 sq mm cable, with necessary material as per specification	AU	1.00	3808.21	
509	Providing & erecting epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 120 to 185 sq.mm. cable, with necessary material as per specification	AU	1.00	3953.55	
510	Providing & erecting epoxy straight through joint outdoor/indoor for LT PVC armoured cable 240 sq.mm. cable, with necessary material as per specification	AU	1.00	6133.70	
511	Providing & erecting epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 300 sq.mm. cable, with necessary material as per specification	AU	1.00	7563.26	
512	Providing & erecting epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 400 sq.mm. cable, with necessary material as per specification	AU	1.00	7630.51	
513	Providing & erecting epoxy outdoor/indoor end termination kit for LT XLPE armoured cable 25 to 50 sq.mm. cable, with necessary material as per specification	AU	1.00	2099.88	
514	Providing & erecting epoxy outdoor/indoor end termination kit for LT XLPE armoured cable 70 to 120 sq.mm. cable, with necessary material as per specification	AU	1.00	2452.39	
515	Providing & erecting epoxy outdoor/indoor end termination kit for LT XLPE armoured cable 240 to 300 Sq.mm. cable, with necessary material as per specification	AU	1.00	3157.42	
516	Providing & erecting epoxy outdoor/indoor end termination kit for LT XLPE armoured cable 400 sq.mm. cable, with necessary material as per specification	AU	1.00	3872.20	
	CABLE JOINTS & END TERMINATION KITS (HT CABLE)				
517	Providing and erecting Heat shrinkable indoor termination kit for 11 kV (E) XLPE HT cable 3x up to 95 sq. mm. with necessary material as per specification	AU	1.00	9391.98	
518	Providing and erecting Heat shrinkable indoor termination kit for 11 kV (E) XLPE HT cable 3x240 to 300 sq. mm. with necessary material as per specification	AU	1.00	12232.68	
519	Providing and erecting Heat shrinkable indoor termination kit for 11 kV (E) XLPE HT cable 3x400 sq. mm. with necessary material as per specification	AU	1.00	12717.52	
520	Providing and erecting Heat shrinkable out door termination kit for 11 kV (E) XLPE HT cable 3 x up to 95 sq. mm. with necessary material as per specification	AU	1.00	16351.10	
521	Providing and erecting Heat shrinkable outdoor termination kit for 11 kV (E) XLPE HT cable 3x120 to 185 sq. mm. with necessary material as per specification	AU	1.00	14234.95	
522	Providing and erecting Heat shrinkable out door termination kit for 11 kV (E) XLPE HT cable 3x240 to 300 sq. mm. with necessary material as per specification	AU	1.00	15842.40	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
523	Providing and erecting Heat shrinkable outdoor termination kit for 11 kV (E) XLPE HT cable 3x400 sq. mm. with necessary material as per specification	AU	1.00	16350.01	
524	Providing and erecting Heat shrinkable straight through joint kit for 11 kV (E) XLPE HT cable 3x up to 95 sq. mm. with necessary material as per specification	AU	1.00	24346.05	
525	Providing and erecting Heat shrinkable straight through joint kit for 11 kV (E) XLPE HT cable 3x120 to 185 sq. mm. with necessary material as per specification	AU	1.00	28873.38	
526	Providing and erecting Heat shrinkable straight through joint kit for 11 kV (E) XLPE HT cable 3x240 to 400 sq. mm. with necessary material as per specification	AU	1.00	34772.79	
	CABLE TRAY (CB-CT)				
527	<p>Providing & erecting hot dipped galvanised ladder 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.</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 neccesory 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 separetly 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	1.00	665.98	
528	<p>Providing & erecting hot dipped galvanised ladder 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.</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 neccesory 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 separetly 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	1.00	758.17	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
529	<p>Providing & erecting hot dipped galvanised ladder 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.</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 neccesory 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 separetly 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	1.00	943.65	
530	<p>Providing & erecting hot dipped galvanised ladder 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.</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 neccesory 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 separetly 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	1.00	1130.21	
531	<p>Providing & erecting hot dipped galvanised ladder 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.</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 neccesory 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 separetly 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	1.00	1315.68	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
532	<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 & 20 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 neccesory 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	1.00	400.24	
533	<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 & 20 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 neccesory 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	1.00	493.52	
534	<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 & 20 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 neccesory 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	1.00	678.99	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
535	<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 & 20 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 neccesory 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	1.00	864.47	
536	<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 & 20 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 neccesory 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	1.00	1051.03	
	Cable Enclosures				
537	<p>Supplying & erecting G.I. pipe 'A' class 25 mm dia. erected for enclosing XLPE armoured cable on wall/pole as per specification no. CB-CE 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	1.00	235.37	
538	<p>Supplying & erecting G.I. pipe 'A' class 40 mm dia. Erected for enclosing XLPE armoured cable on wall/pole as per specification no. CB-CE 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	1.00	365.53	
539	<p>Supplying & erecting G.I. pipe 'A' class 50 mm dia. Erected for enclosing XLPE armoured cable on wall/pole as per specification no. CB-CE 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	1.00	481.58	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
540	Supplying & erecting G.I. pipe 'A' class 75 mm dia. Erected for enclosing XLPE armoured cable on wall/pole as per specification no. CB-CE 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.	M	1.00	728.88	
541	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). 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.	M	1.00	617.17	
542	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). 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.	M	1.00	551.00	
543	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 Engineer 3) For running the cable across the field / along the road , it should be covered by half round Hume Pipe only.	M	1.00	694.18	
544	Supplying & laying (including excavation) 25 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). 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.	M	1.00	591.13	
545	Supplying and laying (including excavation of suitable width & depth up to 90 cm) 50 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete 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.	M	1.00	227.78	
546	Supplying and laying (including excavation of suitable width & depth up to 90 cm) 75 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete. 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.	M	1.00	261.40	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
547	Supplying and laying (including excavation of suitable width & depth up to 90 cm) 90 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete 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.	M	1.00	365.53	
	CABLE GLANDS (CB-GL)				
548	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 XLPE armoured cable as per specification Note:1) Glands are to be provided at time of joints/repairs.	AU	1.00	73.76	
549	Supplying & erecting Siemens type brass cable glands for 3 to 4 core 6 sq mm /2 to 4 core 10 sq mm for XLPE armoured cable as per specification Note:1) Glands are to be provided at time of joints/repairs.	AU	1.00	94.36	
550	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 XLPE armoured cable as per specification Note:1) Glands are to be provided at time of joints/repairs.	AU	1.00	187.64	
551	Supplying & erecting Siemens type brass cable glands for 4 core 35 Sq.mm./3 core 50 Sq.mm. for XLPE armoured cable as per specification Note:1) Glands are to be provided at time of joints/repairs.	AU	1.00	212.59	
552	Supplying & erecting Siemens type brass cable glands for 4 core 50 sq mm for XLPE armoured cable as per specification Note:1) Glands are to be provided at time of joints/repairs.	AU	1.00	284.18	
553	Supplying & erecting Siemens type brass cable glands for 3 1/2 core 70 sq mm for XLPE armoured cable as per specification Note:1) Glands are to be provided at time of joints/repairs.	AU	1.00	284.18	
554	Supplying & erecting Siemens type brass cable glands for 3 1/2 core 95 sq mm for XLPE armoured cable as per specification Note:1) Glands are to be provided at time of joints/repairs.	AU	1.00	319.97	
555	Supplying & erecting Siemens type brass cable glands for 3 1/2 core 120 sq mm for XLPE armoured cable as per specification Note:1) Glands are to be provided at time of joints/repairs.	AU	1.00	378.54	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
556	Supplying & erecting Siemens type brass cable glands for 3 1/2 core 150 sq mm for XLPE armoured cablen as per specification Note:1) Glands are to be provided at time of joints/repairs.	AU	1.00	378.54	
557	Supplying & erecting Siemens type brass cable glands for 3 1/2 core 185 sq mm for XLPE armoured cable as per specification Note:1) Glands are to be provided at time of joints/repairs.	AU	1.00	606.32	
558	Supplying & erecting Siemens type brass cable glands for 3 1/2 core 240 sq mm for XLPE armoured cable as per specification Note:1) Glands are to be provided at time of joints/repairs.	AU	1.00	606.32	
559	Supplying & erecting Siemens type brass cable glands for 3 1/2 core 300 sq mm for XLPE armoured cable as per specification Note:1) Glands are to be provided at time of joints/repairs.	AU	1.00	828.67	
560	Supplying & erecting Siemens type brass cable glands for 3 1/2 core 400 sq mm for XLPE armoured cable as per specification Note:1) Glands are to be provided at time of joints/repairs.	AU	1.00	989.20	
STREET LIGHT BOXES & CABLE INDICATOR					
561	Supplying & erecting cast iron cable indicator plate buried along with route of cable for PVC / XLPE armoured cable as per specification	AU	1.00	186.56	
562	Supplying & erecting water tight terminal box of 1.6 mm (16 gauge) CRCA sheet of size 200 x 150 x 150 mm. complete on pole as per specification	AU	1.00	522.80	
563	Supplying & erecting water tight terminal box of 1.6 mm (16 gauge) CRCA sheet of size 300 x 200 x 150 mm complete on pole as per specification	AU	1.00	737.56	
564	Supplying & erecting water tight terminal box of 1.6 mm (16 gauge) CRCA sheet of size 150 x 100 x 100 mm complete on pole as per specification	AU	1.00	352.51	
565	Supplying & erecting water tight terminal box of cast iron of size 200 x 150 x 150 mm complete on pole as per specification	AU	1.00	651.87	
566	Supplying & erecting water tight terminal box of cast iron of size 300 x 200 x 150 mm complete on pole as per specification	AU	1.00	769.02	
567	Supplying & erecting water tight terminal box of cast iron of size 150 x 100 x 100 mm complete on pole as per specification	AU	1.00	555.34	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
568	Supplying & erecting FRP box of size 300 x 200 x 150 mm, 2.7 mm thick complete on pole/wall as per specification	AU	1.00	537.99	
569	Supplying & erecting FRP box of size 250 x 200 x 100 mm, 2.7 mm thick complete on pole/wall as per specification	AU	1.00	637.77	
570	Supplying & erecting FRP box of size 300 x 200 x 125 mm, 2.7 mm thick complete on pole/wall as per specification	AU	1.00	852.53	
	CABLE LUGS (Copper) (CB-CL/CU)				
571	Supplying & erecting crimping type copper lugs for cable upto 16 sq mm complete as per specification	AU	1.00	24.95	
572	Supplying & erecting crimping type copper lugs for cable 25 sq mm complete as per specification	AU	1.00	37.96	
573	Supplying & erecting crimping type copper lugs for cable 35 sq mm complete as per specification	AU	1.00	46.64	
574	Supplying & erecting crimping type copper lugs for cable 50 sq mm complete as per specification	AU	1.00	62.91	
575	Supplying & erecting crimping type copper lugs for cable 70 sq mm complete as per specification	AU	1.00	87.86	
576	Supplying & erecting crimping type copper lugs for cable 95 sq mm complete as per specification	AU	1.00	121.48	
577	Supplying & erecting crimping type copper lugs for cable 120 sq mm complete as per specification	AU	1.00	159.44	
578	Supplying & erecting crimping type aluminium lugs for cable upto 16 sq mm complete as per specification	AU	1.00	10.85	
579	Supplying & erecting crimping type aluminium lugs for cable 25 sq mm complete as per specification	AU	1.00	11.93	
580	Supplying & erecting crimping type aluminium lugs for cable 35 sq mm complete as per specification	AU	1.00	19.52	
581	Supplying & erecting crimping type aluminium lugs for cable 50 sq mm complete as per specification	AU	1.00	24.95	
582	Supplying & erecting crimping type aluminium lugs for cable 70 sq mm complete as per specification	AU	1.00	32.54	
583	Supplying & erecting crimping type aluminium lugs for cable 95 sq mm complete as per specification	AU	1.00	34.71	
584	Supplying & erecting crimping type aluminium lugs for cable 120 sq mm complete as per specification	AU	1.00	48.81	
585	Supplying & erecting crimping type aluminium lugs for cable 150 sq mm complete as per specification	AU	1.00	61.83	
586	Supplying & erecting crimping type aluminium lugs for cable 185 sq mm complete as per specification	AU	1.00	81.35	
587	Supplying & erecting crimping type aluminium lugs for cable 240 sq mm complete as per specification	AU	1.00	118.23	
588	Supplying & erecting crimping type aluminium lugs for cable 300 sq mm complete as per specification	AU	1.00	171.37	
589	Supplying & erecting crimping type aluminium lugs for cable 400 sq mm complete as per specification	AU	1.00	234.28	
SECTION - VII EARTHING (EA)					
	Plate & Pipe type earthing				
590	Providing earthing with galvanized 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 back filling ground enhancing 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) Determination of size of lugs shall be decided with respect to soil resistivity.	AU	1.00	5113.04	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
591	<p>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</p> <p>Note:-</p> <p>1) Resistivity of the soil shall be checked and no of back filling ground enhancing compound bags shall be used as per guidelines elaborated in specification.</p> <p>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.</p> <p>3) Record entries for earthing work shall be maintained.</p>	AU	1.00	7035.04	
592	<p>Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm with funnel with a wire mesh for watering and brick masonry block C.I. cover complete with all materials, testing & recording the results as per specification no. EA-EP</p> <p>Note:-</p> <p>1) Resistivity of the soil shall be checked and no of back filling ground enhancing compound bags shall be used as per guidelines elaborated in specification.</p> <p>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.</p> <p>3) Record entries for earthing work shall be maintained.</p>	AU	1.00	6567.56	
593	<p>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. EAEP</p> <p>Note:-</p> <p>1) Resistivity of the soil shall be checked and no of Terrc Compound bags shall be used as per guidelines elaborated in specification</p> <p>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.</p> <p>3) Record entries for earthing work shall be maintained.</p> <p>4) Requirement of no of bags shall be decided with respect to soil resistivity</p>	AU	1.00	1626.98	
594	<p>Supply, Installation, Testing and commissioning of 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 complete. Specification no. EA-MOBI</p> <p>Note:-</p> <p>1) Resistivity of the soil shall be checked and no of back filling ground enhancing compound bags shall be used as per guidelines elaborated in specification.</p> <p>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.</p> <p>3) Record entries for earthing work shall be maintained.</p> <p>4) Requirement of no of bags shall be decided with respect to soil resistivity</p>	AU	1.00	14973.59	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
595	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 Carbon based environment friendly back fill Ground Enhancing 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 back filling ground enhancing 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	1.00	17065.88	
	ACCESSORIES				
596	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	1.00	441.45	
597	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	1.00	957.75	
598	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	1.00	240.79	
599	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	1.00	915.44	
600	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	1.00	168.12	
601	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 with insulating and non-corrosive bond in an approved manner with required joints. As per specification no. EAEP.	KG	1.00	694.18	
602	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 insulating and non-corrosive bond in an approved manner with required joints As per specification no. EA-EP.	KG	1.00	1262.53	
603	Supplying and erecting GI strip of required size used for earthing on wall and/or any other purpose with necessary GI clamps fixed on wall painted with insulating and non-corrosive bond in an approved manner with required joints As per specification no. EAEP.	KG	1.00	490.26	
	LIGHTNING CONDUCTOR & ACCESSORIES				
604	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	1.00	6593.59	
605	Providing and Back filling back filling ground enhancing compound 25 kg bag complete.	AU	1.00	1347.14	
	SECTION - VIII WATER PUMPS (WP)				
	PUMP & ACCESSORIES				
606	Supplying and erecting minimum Three & above star rated 1 phase 230 V, 50 Hz, submersible pump set of 0.75 KW/1HP for erection on open well, pump having delivery head from 30 to 15 m and discharge from 30 to 270 litres. per minute & pipe of Suction 32 mm/Delivery 25 mm diameter erected with necessary H type clamps as per specification No. WP-OSP	AU	1.00	20234.15	
607	Supplying and erecting D. O. L. Starter suitable for 250V.single phase, 50 cycles with overload element with necessary materials and connected to supply upto 3 H.P.	AU	1.00	1264.70	
608	Supplying and erecting D.O.L. Starter 400V. 3 phase, 50 cycles with no volt coil and overload element with necessary materials and connected to supply upto 7.5 H.P.	AU	1.00	2022.87	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
609	Supplying and erecting D.O.L. Starter 400V. 3 phase, 50 cycles with no volt coil and overload element with necessary materials and connected to supply for 10 H.P.	AU	1.00	3213.82	
610	Supplying and erecting fully Automatic star/delta starter suitable for 12.5 H.P. to 15 H.P. for 3 phase squirrel cage motor totally enclosed with overload and no volt relay complete erected on provided angle iron frame.	AU	1.00	8464.61	
611	Supplying and erecting fully Automatic star/delta starter suitable for above 15 H.P. upto 25 H.P. squirrel cage motor totally enclosed with overload and no volt relay complete erected on provided angle iron frame.	AU	1.00	14319.55	
612	Supplying and erecting pump protection relay comprising current sensing phase failure and UV+OV relay with dry run and overload protection suitable for 3 phase pumps	AU	1.00	3209.48	
613	Supplying and erecting flat flexible 3 core 2.5 sq mm PVC sheathed submersible type copper cable suitably clamped at fixed intervals with column pipe assembly complete.	M	1.00	150.77	
614	Supplying and erecting flat flexible 3 core 4 sq mm PVC sheathed submersible type copper cable suitably clamped at fixed intervals with column pipe assembly complete.	M	1.00	208.25	
615	Supplying and erecting thermal Overload Relay for motor starter suitable for up to 12.5 HP.	AU	1.00	1275.55	
616	Supplying and erecting thermal Overload Relay for motor starter suitable for up to 15 HP.	AU	1.00	890.50	
617	Supplying and erecting thermal over load relay for motor starter 10 H.P. to 17.5 H.P	AU	1.00	1257.11	
618	Supplying and erecting thermal over load relay for motor starter 20 H.P. to 25 H.P.	AU	1.00	1449.09	
619	Supplying & erecting timer for STAR/DELTA motor starter upto 12.5 H.P.	AU	1.00	671.40	
620	Supplying & erecting Timer with Combination Coil for motor starter suitable from 15 H.P to 30 H.P.	AU	1.00	2148.69	
621	Supplying & replacing contactor for DOL motor starter from 7.5 H.P. to 10 H.P.	AU	1.00	1147.56	
622	Supplying & replacing contactor for Star Delta motor starter from 12.5 H.P. to 15 H.P.	AU	1.00	1174.68	
623	Supplying & replacing contactor for Star Delta motor starter from 15 H.P. to 25 H.P.	AU	1.00	2664.99	
SECTION - IX CIVIL WORK					
OTHER CIVIL WORK					
624	<p>Making trench in soft soil having 0.75 m depth and minimum 0.3 m width for laying provided cables up to voltage level of 1.1kV complete As per specification No. CW-EXN-CTR</p> <p>Note:- 1) For laying additional cable in same trench add Rs. 45/- per meter for additional bricks between and above the extra cable. 2) For laying additional cable in same trench above 25 sq.mm, bricks shall be laid width wise above the cable. Total rate shall be increased by Rs. 48/- per meter.</p>	M	1.00	174.63	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
625	<p>Making trench in Hard murum/Tar road having 0.75 m depth and minimum 0.3mtr width as per IS for laying provided cables up to voltage level 1.1Kv cable complete as per specification No. CW-EXN-CTR</p> <p>Note:- 1) For laying additional cable in same trench add Rs. 45/- per meter for additional bricks between and above the extra cable. 2) For laying additional cable in same trench above 25 sq.mm, bricks shall be laid width wise above the cable. Total rate shall be increased by Rs. 48/- per meter.</p>	M	1.00	215.85	
626	<p>Making trench in soft soil having 0.9m depth and minimum 0.3 m width as per IS for laying provided cables of voltage range 3.3 kV to 11 kV complete as per specification No. CW-EXN-CTR</p> <p>Note:- 1) For laying additional cable in same trench add Rs. 45/- per meter for additional bricks between and above the extra cable. 2) For laying additional cable in same trench above 25 sq.mm, bricks shall be laid width wise above the cable. Total rate shall be increased by Rs. 48/- per meter.</p>	M	1.00	241.88	
627	<p>Making trench in hard murum/Tar road having 0.9 m depth and minimum 0.3mtr width for laying provided cables of voltage range 3.3 kV to 11 kV complete as per specification No. CW-EXN-CTR</p> <p>Note:- 1) For laying additional cable in same trench add Rs. 45/- per meter for additional bricks between and above the extra cable. 2) For laying additional cable in same trench above 25 sq.mm, bricks shall be laid width wise above the cable. Total rate shall be increased by Rs. 48/- per meter.</p>	M	1.00	297.19	
628	Excavating hard Rock or bituminous road by chiselling for preparing pit for pole / stay/earth plate / for laying cable/ pipe & clearing the site by removing debris & making the site as required complete.	M ³	1.00	1172.51	
629	Excavating hard murum / metal 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 as required complete.	M ³	1.00	292.86	
630	Excavating soft murum / soft 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 complete.	M ³	1.00	251.64	
631	Making cement concrete foundation including excavation (45 x 45 x 120) cm deep in 1:3:6 cement concrete, 20 to 25 mm stone metal, (45 x 45 x 45) cm / 45 cm dia. x 45 cm height plinth duly plastered, with necessary curing and finishing complete. (for 6 m pole)	AU	1.00	1411.13	
632	Making cement concrete foundation including excavation (60 x 60 x 150) cm deep in 1:3:6 cement concrete 20 x 25 mm stone metal, (45 x 45 x 45) cm / 45 cm dia. x 45 cm height plinth duly plastered, with necessary curing and finishing complete. (above 6 m to 9 m poles)	AU	1.00	2205.09	
633	Making cement concrete foundation including excavation (60 x 60) cm x deep 1/6 of pole length in 1:3:6 cement concrete 20 x 25 mm stone metal, 45 cm x 45 cm x 45 cm / 45 cm dia. x 45 cm. height plinth duly plastered, with necessary curing and finishing complete. (for above 9 m poles)	AU	1.00	2361.28	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
634	Making M- 20 cement concrete foundation by considering the safe soil bearing capacity at site as 10 T/sq. m at 2 m depth including excavation and fixing provided nut bolts with the help of template, duly plastered as per design complete (for 16 m raising lowering high mast).	AU	1.00	33406.14	
635	Making M- 20 cement concrete foundation by considering the safe soil bearing capacity at site as 10 T/sq. m at 2 m depth including excavation and fixing provided nut bolts with the help of template, duly plastered as per design complete (for 20 m raising lowering high mast) .	AU	1.00	40808.87	
636	Making M- 20 cement concrete foundation suitable by considering the safe soil bearing capacity at site as 10 T/sq. m at 2 m depth including excavation and fixing provided nut bolts with the help of template, duly plastered as per design complete (for 25 m high mast).	AU	1.00	47407.88	
637	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% for sr. No. 258 & 259 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	1.00	413.25	
638	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% for sr. No. 258 & 259 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	1.00	503.28	
SECTION - X MISCELLANEOUS (MSC)					
639	SITC of 03 Phase (3P+N+E) 32 Amp , (IP44) Industrial Socket with MCB provision & corresponding plug of Approved Make Complete	AU	1.00	6499.40	
640	SITC of Supply of 03 Phase (3P+N+E) 63 Amp , (IP44) Industrial Socket with MCB Provision & corresponding plug of Approved Make Complete	AU	1.00	14770.68	
641	SITC of 03 Phase (3P+N+E) 125 Amp , (IP44) Industrial Socket with MCB provision & corresponding plug of Approved Make Complete	AU	1.00	46801.72	
642	SITC of 03 Phase (3P+N+E) 32 Amp , (IP67) Industrial Socket with MCB provision & corresponding plug of Approved Make Complete	AU	1.00	7333.08	
643	SITC of 03 Phase (3P+N+E) 63 Amp , (IP67) Industrial Socket with MCB provision & corresponding plug of Approved Make Complete	AU	1.00	15424.27	
644	SITC of 03 Phase (3P+N+E) 125 Amp , (IP67) Industrial Socket with MCB provision & corresponding plug of Approved Make Complete	AU	1.00	46801.72	
645	SITC of 3 Pole MCCB , 80 A, 415V, with short circuit rating 25 kA (Ics=100% of Icu),adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact with phase barriers both sides of Approved Make	AU	1.00	6970.39	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
646	SITC of 3 Pole MCCB , 63A, 415V, with short circuit rating 25 kA (Ics=100% of Icu),adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact with phase barriers both sides of Approved Make	AU	1.00	6970.39	
647	SITC of 3 Pole MCCB , 40 A, 415V, with short circuit rating 25 kA (Ics=100% of Icu),adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact with phase barriers both sides of Approved Make	AU	1.00	6970.39	
648	SITC of 3 Pole MCCB , 25 A, 415V, with short circuit rating 25 kA (Ics=100% of Icu),adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact with phase barriers both sides of Approved Make	AU	1.00	6970.39	
649	SITC of 3 Pole MCCB , 16 A, 415V, with short circuit rating 25 kA (Ics=100% of Icu),adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact with phase barriers both sides of Approved Make	AU	1.00	6970.39	
650	Supplying, fixing and configuring Single Mode 1 Gbps transceiver "1000BaseLH" with PID: GLC-LH-SMD compatible with netork switch of CISCO/HP/Janitor	AU	1.00	15962.53	
651	Supplying & erecting G.I. pipe 'A' class 50 mm dia. erected for enclosing XLPE armoured cable on wall/pole as per specification no. CB-CE	M	1.00	507.75	
652	Supplying & erecting G.I. pipe 'A' class 75 mm dia. erected for enclosing XLPE armoured cable on wall/pole as per specification no. CB-CE	M	1.00	769.03	
653	<u>Un-installation of Solar Plant from the Asbestos Sheet Roof & Re-Installation after sheet work</u>	W	1.00	3.84	
654	Supplying and fixing SC/LC type multimode duplex adapter to couple two connectors between OFC & Fibre switch/Fibre module as per specification no. WG-NAS/MMA	AU	1.00	645.81	
655	Supplying & installing SC LC Type single mode simplex pigtail complete	AU	1.00	542.48	
656	Supply and Installation of 100X38 mm GI powder coated under floor raceway for Data ,Voice & Power	M	1.00	371.40	
657	Supply and Installation of 50X38 mm GI powder coated under floor raceway for Data , Voice & Power.	M	1.00	278.55	
658	Supply and Installation of GI powder coated junction box of size 200X200X50 mm with partition.	AU	1.00	517.31	
659	Supply and Installation of GI powder coated junction box of size 150X150X50 mm with partition.	AU	1.00	344.86	
660	Supplying and erecting RCC chamber cover with frame 600 mm x 450 mm medium duty 100kg with lifting arrangement including laying of angle iron frame of angle size as 50 x 50 x6 mm to be fixed / embedded on top of chamber complete.	AU	1.00	3346.70	
SECTION - XI SUPPLY OF HOUSE WIRING ACCESSORIES AND APPLIANCES					
661	Supply of Piano type flush mounting 5 Amp switch of Anchor / Cona/ Greatwhite /Rabbit/B &Five make, 250 volts, Single pole	AU	1.00	15.30	
662	Supply of Piano type 250 volts, Single pole, two way switch 5 Amp. Anchor / Cona/ Greatwhite/Rabbit/B &Five make	AU	1.00	30.60	
663	Supply of modular type 250 volts, Single pole, Bell push switch 5 Amp. Anchor roma / Cona/ Greatwhite/Rabbit/B &Five make	AU	1.00	91.80	
664	Supply of Surface mounted, Piano type, single pole,230 volts, 5A, 5 pin switch socket combined of Anchor /Greatwhite/TRIO/Havells make	AU	1.00	76.50	
665	Supply of Surface mounted, Piano type, single pole,230 volts, 15A, 5 pin switch socket combined of Anchor/ havells/cona /Greatwhite /TRIO/Havells make	AU	1.00	122.40	
666	Supply of 32 Amp,230V, DP Switch , surface mount, Anchor / Cona / Greatwhite /Havells/B & Five make.	AU	1.00	109.14	
667	Supply of capacitor for Ceiling fan, Philips / Crompton/Electro/Epcon/Havells make	AU	1.00	56.10	
668	Rewinding of Exhaust fan 12"/16	AU	1.00	408.00	
669	Rewinding of Ceiling fan 48"/56	AU	1.00	459.00	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
670	Supply step type electronic regulator (socket type) for Ceiling fan of Anchor / Havells / cona/B & Five/Recon make	AU	1.00	163.20	
671	Supply of bush bearing (single) for Ceiling Fan	AU	1.00	81.60	
672	Supply of Thermostat of 250 V,Single Phase for 3 KW Mini Boiler)	AU	1.00	183.60	
673	Supply of S type M.S. hook for Ceiling fan, 12mm dia in the R.C.C. Ceiling,finishing the surface with cement plaster.	AU	1.00	76.50	
674	Supply of fan M.S. hook fabricated from suitable dia MS rod for fixing Ceiling fan using pair of Anchor fastener	AU	1.00	96.90	
675	Supply of EXHAUST FAN,250mm,Black colour, brisk air, PVC body, Make Crompton/Bajaj/Usha/Orient/CG	AU	1.00	1428.00	
676	Supply of ELCB (RCCB+MCB) of Make Legrand/Havells/L&T/Schnieder/Siemens 415 volts, 4 pole,Load current 40 Amp, Leakage current 30mA	AU	1.00	2550.00	
677	Supply of ELCB (RCCB+MCB) of Make legrand/Havells/L&T/Schnieder/Siemens 230 V , 1 phase, Load current 40Amp, leakage current 100mA	AU	1.00	2448.00	
678	Supply of 3 Pole,32A,440V,MCB Legrand/Havells/L&T/Schnieder/Siemens make	AU	1.00	1060.80	
679	Supply of 4 Pole,63A,440V, MCB Legrand/Havells/L&T/Schnieder/Siemens mak	AU	1.00	1387.20	
680	Supply of 2 Pole,32A,MCB Legrand / Havells / L&T/Schnieder/Siemens make	AU	1.00	448.80	
681	Supply of 2W-3W, 230V integral type LED lamp	AU	1.00	71.40	
682	Supply of 9W, 230V integral type LED lamp	AU	1.00	71.40	
683	Supply of 12 W, 230V integral type LED lamp	AU	1.00	127.50	
684	Supply of 18 W, 230V integral type LED lamp	AU	1.00	168.30	
685	Supply of 5W-8W, 230V integral type LED lamp	AU	1.00	66.30	
686	Supply & erection of T-8 LED- tube light Fitting, 18 W	AU	1.00	244.80	
687	Supply of T-8 LED- tube light Fitting, 22 W	AU	1.00	255.00	
688	Replacement of Old Geyser (Mini boiler) with New 230V,3KW,1Litre capacity,Racold/ Bajaj/Crompton/Philips/Havells.New Geyser will be supplied by contractor (with Warranty).	AU	1.00	2407.20	
689	Service Charges for one Electrician	Day	1.00	822.35	
690	Service Charges for one Highly Skilled Helper	Day	1.00	755.11	

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Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
691	Supply of ceiling fan 900mm, BEE 5 star rating, service value . 5.1 CM/Min/Watt, air delivery 130 CM/Min (Minimum) with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. metal(Aluminum alloy) blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al body Power Factor not less than 0.9, Service Value (CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 10%, remote (preferably mobile app based) for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Ceiling Fan compliant to IS 374:2019 fan Supply, earthing etc. complete as req.			1267.14	
692	Supply of ceiling fan 1200mm, BEE 5 star rating, service value . 6.0 CM/Min/Watt, air delivery 210 CM/Min (Minimum) with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. metal(Aluminum alloy) blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al body Power Factor not less than 0.9, Service Value (CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 10%, remote (preferably mobile app based) for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Ceiling Fan compliant to IS 374:2019 fan Supply, earthing etc. complete as req.			1321.45	
693	Supply of ceiling fan 1400mm, BEE 5 star rating, service value ≥ 6.0 CM/Min/Watt, air delivery 245 CM/Min (Minimum) with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. metal(Aluminum alloy) blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al body Power Factor not less than 0.9, Service Value (CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 10%, remote (preferably mobile app based) for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Ceiling Fan compliant to IS 374:2019 fan Supply, earthing etc. complete as req.			1357.65	
SECTION - XII FLAME PROOF FITTING & ACCESSORIES					
	FLAME PROOF FITTING & ACCESSORIES				

BRC ELECTRICAL 2025-2027

Sr No.	Item DESCRIPTION	UNIT	Quantity	Rate	Amount
694	Supply, installation, testing and commissioning of heavy duty armoured XLPE LSZH cable 1100 Volt grade with ISI mark of (Rallison/Finolex/ Polycab/RR make) 3 core, 2.5 Sq. mm. stranded / solid copper conductor, XLPE insulated, LSZH sheath, galvanized steel strip or wire armoured and with an overall outer LSZH sheath. Cables shall be fitted on wall/ MS tresses ceiling by means of G.I. spacers & G.I. saddles or clamps of 18/22 SWG 25 mm. width G.I. strips at 300 mm apart. The cable shall be terminated through copper lugs only. <u>Complete as directed</u>	Mtr	1.00	308.81	
695	Supply,Installation, Testing and Commissioning of heavy duty brass cable gland for 3 core x 2.5 Sq. mm XLPE armoured cable with brass washers, rubber ring complete erected with cable ends & leads connected. Complete as directed. (The glands shall be NPT threaded) (Cable glands shall be Siemens, Braco or approve make	AU	1.00	443.61	
696	Supplying, Installing, Testing and Commissioning of Flameproof IP 66 LED Tube light fitting suitable for 2 x 20 watt LED Fixture with Driver, controlgear box with external M.S. Reflectopr and mounted on angle iron frame Zone I & Zone II Gas Group IIA & IIB. Should be Sudhir/FCG/Prateek /Prompt or approved make. Completed as directed.	AU	1.00	10171.45	
697	Supplying, Installing, Testing and Commissioning of Flameproof IP 66 LED Flood Light Fitting 125 Watt with Driver, controlgear box with external M.S. Reflectopr and mounted on angle iron frame Zone I & Zone II Gas Group IIA & IIB. Should be Sudhir/FCG/Prompt or approved make. Completed as directed.	AU	1.00	13724.38	
698	Supplying, Installing, Testing and Commissioning of Flameproof IP 66 Junction box in alluminium alloy LM6 constrction with internal Dia. 100mm Dept 60mm with 3/4"ET entries 4 way certified by CMRI for GROUP IIA & IIB. Terminal ; 6 nos of 2.5 sq.mm connectwell / Phonix make. (Suitable for Zone I & II) (The glands shall be NPT Threaded) Should be FCG/Sudhir/Prateek/Prompt or approved make	AU	1.00	1049.50	
699	Supplying, Installing, Testing and Commissioning of Flameproof IP 66 Junction box in alluminium alloy LM6 constrction with internal Dia. 100mm Dept 60mm with 3/4"ET entries 3 way certified by CMRI for GROUP IIA & IIB. Terminal ; 6 nos of 2.5 sq.mm connectwell / Phonix make. (Suitable for Zone I & II) (The glands shall be NPT Threaded) Should be FCG/Sudhir/Prateek/Prompt or approved make	AU	1.00	1089.94	
700	Supplying, Installing, Testing and Commissioning of Flameproof of IP 66 Junction box in alluminium alloy LM6 constrction with internal Dia. 100mm Dept 60mm with 3/4"ET entries 2 way certified by CMRI for GROUP IIA & IIB. Terminal ; 6 nos of 2.5 sq.mm connectwell / Phonix make. (Suitable for Zone I & II) (The glands shall be NPT Threaded) Should be FCG/Sudhir/Prateek/Prompt or approved make	AU	1.00	971.02	
701	Supplying, Installing, Testing and Commissioning of Flameproof of IP 66 Junction box in alluminium alloy LM6 constrction with internal Dia. 100mm Dept 60mm with 3/4"ET entries 2 way certified by CMRI for GROUP IIA & IIB. Terminal ; 6 nos of 2.5 sq.mm connectwell / Phonix make. (Suitable for Zone I & II) (The glands shall be NPT Threaded) Should be FCG/Sudhir/Prateek/Prompt or approved make	AU	1.00	971.02	
702	Providing & erecting 3 Pole MCCB, 415 V, 300A, rated short-circuit breaking capacity 25 kA (Ics=100% of Icu), adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/UV/trip alarm contact. MCCB with phase barriers on both sides, insulation withstand capacity 800V, no line-load bias in provided enclosure/panel	AU	1.00	21510.27	
703	Supplying and erecting BLDC type Super Energy Efficient Bracket Fan 400 mm. sweep A. C. 230 volts 50 cycles. Oscillating type, plastic or metal blades chrome plated guard with with remote control complete at site.	AU	1.00	4627.74	