EKLERA FOOD COURT Panels & Distribution Board		<u>Г</u>		BOQ	
CD NO	OUTLET-2 BIKANERWALA		0.771	TOTAL BOQ	
SR. NO. 1.0	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1.0	PANELS, SWITCHGEARS & DISTRIBUTION BOARD	Nee	1.00		
	MAIN PANEL-1 Incomer : 63 AMPS 4P MCCB, 25kA with TM Based O/C & SC Release.	Nos.	1.00		
	Meter & Protection: ELR with CBCT; 60/5A, 15VA, CL-1 CTs -3 Nos. for Schneider make Digital				
	Load Manager (EM 6400 NG)				
	Indication: Phase indicating lamps with 6A MCB Busbar: 100A TPN Cu Busbar		+ +		
	Outgoings:				
	a) 63A 4P MCCB, 16kA, TM BASED-1 Nos. d) 40A DP MCB-2 Nos.				
	f) 32A 4P MCCB 16kA TM Based Releases with 1.5 kW DOL Starter, Phase Indicating lamps, ON/OFF/TRIP Indication, ON/OFF Push Button-1 Nos.				
1.2	MAIN PANEL-2	Nos.	1.00		
	Incomer : 40 AMPS 4P MCCB, 25kA with TM Based O/C & SC Release.		1		
	Meter & Protection: ELR with CBCT; 40/5A, 15VA, CL-1 CT's -3 Nos. for Schneider make Digital				
	Load Manager (EM 6400 NG) Indication: Phase indicating lamps with 6A MCB		+ +		
	Busbar: 75A TPN Cu Busbar				
	Outgoings: a) 32A 4P MCB, 10kA-1 Nos.				
	b) 25A 4P MCB, 10kA-1 Nos.				
	c) 32A DP MCB, 10kA-1 Nos. d) 40A DP MCB, 10kA-1 Nos.				
2.0	SWITCHGEARS & DISTRIBUTION BOARD		1 1		
	Supplying & installing at site in positioning, connecting, testing and commissioning of the following type Distribution Boards & Switchgears. (IP-43) ACRY DB				
	Provide insulated dedicated earth link for UPS DB All MCB's for UPS shall be D Curve, C Curve for Power & B Curve for Lighting.		<u> </u>		
2.1	SWITCHGEARS		+ +		
2.1.1	Supply, installation, testing and commissioning of sheet metal enclosures for the following				
2.1.1.a	switchgears. 63/40/32/20 amps 4P MCB 'C' TYPE with complete with all mounting accessories - for Indoor Legrand	Nos.	2.00		
2.1.1.b	make 63/40/32/20 amps DP MCB 'C' TYPE with complete with all mounting accessories - IP-65		2.00		
2.1.1.0	65/40/52/20 amps DP MCB C 11 PE with complete with all mounting accessories – IP-65		2.00		
2.1.1.c	32 amps 4P MCB with 32A 5 Pin Ray Roll Socket complete with all mounting accessories waterproof (IP-65) for Kitchen	Nos.	3.00		
2.1.1.d	25 amps DP MCB with 25A 3 Pin Ray Roll Socket complete with all mounting accessories waterproof	Nos.	5.00		
2.1.1.d	(IP-65) for Kitchen 16 amps DP MCB with 15A 3 Pin Ray Roll Socket complete with all mounting accessories waterproof	Nos.	5.00		
	(IP-65) for Kitchen				
2.1.1.e	5/15 amps Switch Socket complete with all mounting accessories waterproof (IP-65) for Kitchen	Nos.			
2.2 2.2.1	DISTRIBUTION BOARDS 6 WAY SPN DB - UPS DB	Nos.	1.00		
2.2.1	Incomer : 20 AMPS DP MCB 10KA : 1 Nos.	INOS.	1.00		-
2.2.2	Outgoings : 6/10/16 A SP MCB "B" Type - 4 Nos. FABRICATED - LPDB	Nos.	1.00		-
	Incomer: 80A, FP, MCB, 10kA: 1 Nos	1403.	1.00		-
	Sub Incomer : 63A, DP, RCCB, 100mA: 3 Nos Outgoings : 10/16/20/25 A SP MCB "C" Type - 36 Nos.		+ +		-
	Outgoings : 32 A SP MCB "C" Type - 1 Nos.				-
2.2.3	12 WAY SPN DB - UPS DB Incomer : 32 AMPS DP RCBO 100mA	Nos.			
	Outgoings : 10/16/20 A SP MCB "C" Type - 6 Nos.				-
2.0	TOTAL FOR DISTRIBUTION BOARDS MV CABLES				-
2.1	POWER CABLING				-
	Supply and laying, effecting proper connections, testing & commissioning of the following sizes of 1.1 KV XLPE FRLS armoured/ unarmoured PVC insulated PVC sheathed aluminium /copper conductor				
	cables conforming to IS : 1554 and IS 694 for Flexible copper cable Part I - 1976 with latest				
	amendments laid over MS supports in existing RCC ducts/ laid in ground /laid on Cable Trays including clamping the cables to supports in an approved manner as required complete with all accessories.All				
	cables shall have thermo setting insulation XLPE and low emission of smoke and corrosive gas when				
	affected by fire. Necessary Markers shall be provided at the intervals as per the specifications.				
	Aluminium addus		<u> </u>		-
2.1.1 a	Aluminium cables 4C x 50 Sq.mm.	Mtr.	15.00		-
b	3.5C x 35 Sq.mm. 4C x 25 Sq.mm.	Mtr.	+		-
c	- do - but for copper cables	Mtr.			
2.1.2	4C x 25 Sq.mm.	Mtr.	+		-
a	4C x 16 Sa mm	Mtr.	-		
	4C x 16 Sq.mm. 4C x 10 Sq.mm.	Mtr.	20.00		
a b c d	4C x 10 Sq.mm. 4C x 6 Sq.mm.	Mtr.	20.00		-
a b c	4C x 10 Sq.mm.		20.00		
a b c d e f g	4C x 10 Sq.mm. 4C x 6 Sq.mm. 4C x 4 Sq.mm. 4C x 2.5 Sq.mm. 3C x 6 Sq.mm.	Mtr. Mtr. Mtr. Mtr.	20.00		-
a b c d e f	4C x 10 Sq.mm.         4C x 6 Sq.mm.         4C x 4 Sq.mm.         4C x 4 Sq.mm.         3C x 4 Sq.mm.         3C x 2 Sq.mm.	Mtr. Mtr. Mtr.	20.00		
a b c d f f g h i 2.1.3	4C x 10 Sq.mm.         4C x 6 Sq.mm.         4C x 4 Sq.mm.         4C x 2.5 Sq.mm.         3C x 6 Sq.mm.         3C x 4 Sq.mm.	Mtr. Mtr. Mtr. Mtr. Mtr. Mtr.	20.00		
a b c d f f h i	4C x 10 Sq.mm.         4C x 6 Sq.mm.         4C x 4 Sq.mm.         3C x 4 Sq.mm.         3C x 4 Sq.mm.         3C x 2 Sq.mm.	Mtr. Mtr. Mtr. Mtr. Mtr.			
a b c d e f f g h i 2.1.3 a b c	4C x 10 Sq.mm.         4C x 6 Sq.mm.         4C x 4 Sq.mm.         4C x 2.5 Sq.mm.         3C x 6 Sq.mm.         3C x 4 Sq.mm.         CU Flexible Cables         4C x 6 Sq.mm.         4C x 6 Sq.mm.         3C x 4 Sq.mm.         3C x 4 Sq.mm.         3C x 4 Sq.mm.         3C x 4 Sq.mm.         4C x 4 Sq.mm.	Mtr. Mtr. Mtr. Mtr. Mtr. Mtr. Mtr. Mtr.	20.00		
a b c d f f 2.1.3 a b	4C x 10 Sq.mm.         4C x 6 Sq.mm.         4C x 4 Sq.mm.         4C x 2.5 Sq.mm.         3C x 4 Sq.mm.         3C x 4 Sq.mm.         3C x 4 Sq.mm.         4C x 2.5 Sq.mm.         4C x 4 Sq.mm.	Mtr. Mtr. Mtr. Mtr. Mtr. Mtr. Mtr. Mtr.			
a b c d e f f g h i 2.1.3 a b c d	4C x 10 Sq.mm.       4C x 6 Sq.mm.         4C x 4 Sq.mm.       4C x 4 Sq.mm.         3C x 6 Sq.mm.       3C x 6 Sq.mm.         3C x 4 Sq.mm.       3C x 4 Sq.mm.         3C x 4 Sq.mm.       3C x 2.5 Sq.mm.         3C x 4 Sq.mm.       3C x 2.5 Sq.mm.	Mtr. Mtr. Mtr. Mtr. Mtr. Mtr. Mtr. Mtr.			

2.2     Other (DEMONING)	SR. NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL BOQ AMOUNT
b.         1.0         1.0	2.2	Making cable and terminations including brass single compression glands and crimping type copper lugs				-
1         51:2 52000         100	а		Nos.			-
4         Sci. B. Sam.         Sci.         Sci.           4         Sci. B. Sam.         Sci.         Sci.         Sci.           4         Sci. S. Sam.         Sci.         Sci.         Sci.           4         Sci. S. Sam.         Sci.         Sci.         Sci.           4         Sci. S. Sam.         Sci.         Sci.         Sci.         Sci.           4         Sci. S. Sam.         Sci.         Sci. </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
1     50.2 65 gam     No.     -       1     50.2 5 gam     No.     -       2     1.0 5 gam     No.     -       2     1.0 5 gam     No.     -       3     1.0 5 gam     No.     -       4     1.0 5 gam     No.     -       4     1.0 5 gam     No.     -       4     1.0 5 gam     No.     -     -       5     1.0 5 gam     No.     -     -       4     1.0 5 gam     No.     -     -				1.00		-
						-
a. blic 12 55 sum         Name						
1     Stat 4 Sam     No.						-
k     No.1     Non	i					-
1.     Headsouth     No.	1 k					
a.         RC 4 fram.         Num.         Image: Constraint of the second sec	•	Flexible cable				-
						-
n         Unit 35 Summit Tradition         Non         Image: Constraint of the second secon						-
TOTAL DBLOWN CALL TRANSTORY         Image: Construct TRANSTORY <t< td=""><td></td><td>3C x 2.5 Sq.mm. (Lighting)</td><td></td><td></td><td></td><td>-</td></t<>		3C x 2.5 Sq.mm. (Lighting)				-
3.0         HACKEWAYS AND CARLE FRAYS.	q		Nos.			-
3.1       RUNKNC: Falsening orphysics to set of matulition, maillation are calling under 1.6 mm that       Image: Charge State Stat	3.0					-
b.     Some (node) x 50 multiple)     Mtc.     10.00        5.2     RACE MAY: Floringing applying the origin in the flore before the floring flore. The two length of the theory length of	3.1	G.I. Trunking of height 50 mm and 2.0 mm thick openable cover, totally enclosed, the joints between two lengths of channels or between channel and junction box shall be joined together with 3 mm thick G.I. coupler plates & Reducers as per requirement. <b>The cost shall including all supporting and fixing</b>				-
32       RACEWAY: Findnessing, supplying to use of installation, installation, in the floor before the flooring for memory, hall its finde with Collars, 50 mm wink, 3 mm find, 1 mm result or supplying to the flooring for the memory hall its finde with Collars, 50 mm wink, 3 mm find, 1 mm result or supplying to the flooring for the memory hall its flooring with the particular bay course the memory hall its flooring with the particular bay course the memory hall its flooring with the particular bay course the memory hall its flooring flooring flooring memory hall its flooring flooring memory hall its flooring flooring memory memory hall its flooring flooring flooring memory memory hall its flooring memory memory hall its flooring flooring memory memory hall its flooring flooring flooring flooring flooring memory memory hall its flooring memory mem						-
fon 2 um hick proglomical MS (EVCA sheet, colls) consider, keight aff um The to length of the consider with Colling. 30m milds. The constant has been shown moving the inter-bactation has all water served to the fiber site. This joint boware moving the inter-bactation has all water served to the fiber site. The joint boware moving the inter-bactation has all water served to the fiber site. The joint boware moving the inter-bactation has all water served to the fiber site. The joint boware moving the inter-bactation has all water served to the fiber site. The processing set of the server of the provides (2000) and the server of the server of the server of the provides (2000) and the server of the server server server server server server server server se			Mtr.	10.00		-
b     65 mm (vide): 40 mm (height)     NH     -       3.3     JLVACTION NUXXE: Findering supplying to site of instillation, Junction boxs much from 2 mm that, pregabanised ever including proving and the sames, height app for institution of the province guices. The four junction box, number patch filthatom patch and the same is a proving the same institution of the same institution. The same institution of the same institution of the same institution of the same institution. The same institution of the same institution of the same institution. The same institution of the same institution of the same institution. The same institution of the same institution of the same institution. The same institution of the same institution of the same institution. The same institution of the same institution of the same institution. The same institution of the same institution of the same institution of the same institution. The same institution of the same institution of the same institution of the same institution. The same institution of the same institution of the same institution of the same institution of the same institution. The same institution of the same institution of the same institution of the same institution. The same institution of the same institution of the same institution of the same institution of the same institution. The same institution of the same insthod of the same institutis and the same institution of thes		from 2 mm thick pregalvanised MS CRCA sheet, totally enclosed, height 40 mm. The two lengths of raceways shall be fitted with Collars, 50 mm wide, 3 mm thick. The raceways shall be clamped to the floor slab with GI clamps 3mm thick and shall be screwed to the floor slab. The joint between raceway and junction box will be made with GI cover which will be nut bolted to the Junction box to cover the				
3.3       HUNCTRON BOXES: Fabricating supplying to its of intellation, Juscito boxes made from 2 mm this prevail water with 30 mm thick equalismation during subscription gray wherease the sector in the over and the jusciton box, cadmin platform lead serves, height as per site condition and by endoted Preper controls the subscription during subscription and by endoted Preper controls the subscription of the sector with subscription and by endoted Preper controls the subscription of the subscription of the subscription of the sector with subscription of the subscription of the sector with the sector with the sector with subscription of the sector with the	a	100 mm (wide) x 40 mm (height)	Mtr.	10.00		-
thick pregnationed sheet, with 30 mm fulk pregnational loss arcses, but where the condition. Additional the junction box, and but disk walls done that any moving in proper gates by the proper and all disk walls and a law walls addite welded accept to power and all disk and and a complete at out. The proper shealth be readed with M Scale in mate it due an exception and all disk and and a complete at out. The proper shealth be readed with M Scale in mate it due an exception and all disk and and a complete a sequired etc.            (variation in height may be considered for quoting as floor thickness may vary)         a         260 mm 2.02 works wheth the valend with M Scale in mate it due an exception and the sequend with M Scale in mate it due and exception and the sequend with M Scale in mate it due and exception and the sequend with M Scale in mate it due and exception and the sequend with M Scale in mate it due and exception and the sequend with M Scale in mate it due and exception and the sequend with M Scale in mate it due and exception and the sequend with M Scale in mate it due and exception and the sequend with M Scale in mate it due and exception and the sequend with M Scale in mate it due and exception and the sequend with M Scale in mate it due and exception and the sequend with M Scale in mate it due and exception and the sequend with M Scale in the sequend wit			Mtr.	-		-
a       220 mm x 250 x 60:50 mm (height)       Mtr.       5.00       -         b       150 mm x 150 x 60:50 mm (height)       Mtr.       5.00       -         c       100 mm x 150 x 60:50 mm (height)       Mtr.       5.00       -         3.4       SCABLE TRAY: Design multicure, supply and fixing in position the cable trays of the following sizes for supporting 1.1 KV grade annual chance diametinum (coper conductor cables, Theintack the cable trays form performatel 1.0 <sup>2</sup> mm thick MS. CRCA sheet duty galvanised with expansion coupler plates duty galvanised, with bolts, washer and nuts. Kanck co tables for eable connections as per approved design. The tray shead and nuts. Kanck co tables for eable connections as per approved design. The tray shead and nuts. Kanck co tables for the aspect field or supporting steel, fish plates, fixing accessive, nuts balks, supporting down one d, dahs fastere, cutating the K. C. etc. complete as required. (the horizontal and vertical bends, T's sheadd be factory fabricated and the me should include for the supporting steel, fish plates form x2.0 mm thk       Mtr.       -         a       300 mm wide x 50 mm x2.0 mm thk       Mtr.       -       -         d>10 mm wide x 50 mm x2.0 mm thk       Mtr.       -       -       -         d>10 mm wide x 50 mm x2.0 mm thk       Mtr.       -       -       -         d>10 mm wide x 50 mm x2.0 mm thk       Mtr.       -       -       -       -         d>10 mm wide x 50 mm x2.0 mm thk       Mtr.       - <t< td=""><td></td><td>condition,totally enclosed. Proper cutouts shall be made in the side walls for raceway entry wherever required. The floor junction box shall be all side walls should be welded expect top cover and all side walls shall have suitable size of rectangular knock out holes for taking raceways / conduits as required and not a complete cut out. The top cover should be sealed with M Seal to make it dust and water proof complete as required etc.</td><td></td><td></td><td></td><td></td></t<>		condition,totally enclosed. Proper cutouts shall be made in the side walls for raceway entry wherever required. The floor junction box shall be all side walls should be welded expect top cover and all side walls shall have suitable size of rectangular knock out holes for taking raceways / conduits as required and not a complete cut out. The top cover should be sealed with M Seal to make it dust and water proof complete as required etc.				
b       150 mm x 150 x 60:30 mm (height)       Mtr.       5.00       -         c       100 mm x 150 x 60:30 mm (height)       Mtr.       5.00       -         3.4       CABLE TRAY: Design manufacture, supply and fixing in position the cable trays of the following its for supporting 1.1 KV grade amound/surrowand aluminim. (coper conductor cables, Tabricate the cable trays form performed 16.2mm thick M.S. CRCA sheet duly galvanised with expansion coupler physical design. The tray should comply with the specification of NEC (National Electric Cades) and NERMA (National Electric Manufacturers Association). The steel should do te as per 15:226 and galvanising as per 15:2269187 739/XETM 123. The rate shall also include for supporting steel, fish plates. fixing accessories, mits bolis, supporting down ods, dash finatener, cutting the RCC etc. complete as required, (the horizontal and vertical bends, Ts should be factory fabricated and the rate should include for the support of the CC etc. complete as required. (RC NAN SAN O CABLE TRAYS						-
c       100 mm s 150 x 60/30 mm (height)       Mtr.       5.00       -         3.4       CABLE TRAY: Design manufacture, supply and fixing in position the cable trays of the following sizes for supporting 1.1 KV grade amoune/furmamouned aluminium (copper conductor cables. Fabricate the cable trays form perforted 16.37c. A bater duly galvanised, with bolts, washer and muts. Knock out holes for cable connections as per sproved design. The tray should comply with the specification of NEC (Mixional Electric Codes) and NEMA (National Electric Codes) and NEMA (National Electric codes) and Standard (br supporting electric fully galvanising as per 15.2209 NS 73/NSTM 12.3. The met should be factory fabricated and the rate should include for the same)       Mtr.       5.00       -         a       300 mm wide x 50 mm x 2.0 mm flk       Mtr.       -       -       -         c       100 mm wide x 50 mm x 2.0 mm flk       Mtr.       -       -       -         c       100 mm wide x 50 mm x 2.0 mm flk       Mtr.       -       -       -       -         d       300 mm wide x 50 mm x 2.0 mm flk       Mtr.       Mtr.       - <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td>						-
sizes for supporting L1 KV grade amouncil/inamounced aluminium (copper conductor cables. Fabricate the cable trays from thick MS. CRCA sheet dug gubanised with expansion coupler plates duly galvanised, with bolts, washer and nuts. Knock out holes for cable connections as per paper del sign. The tray should comply with the specification of NLC (Ruitional Electric Codes) and NEMA (National Electric Manufacturers Association). The steel should be as per IS:226 and galvanising as per IS:2629(RS 729ASTM 12]. The trans shull albo include for supporting steel. risk plates , fixing accessories , muts bolts, supporting down rods , dash fastener, outring the RCC etc. complete as required. (the horizontal and vertical bends, Ts should be factory fabricated and the rate should include for the same) a 300 mm wide x 50 mm x 2.0 mm thk b 150 mm wide x 50 mm x 2.0 mm thk b 150 mm wide x 50 mm x 2.0 mm thk b 150 mm wide x 50 mm x 2.0 mm thk b 150 mm wide x 50 mm x 2.0 mm thk b 150 mm wide x 50 mm x 2.0 mm thk b 150 mm wide x 50 mm x 2.0 mm thk b 160 mm wide x 50 mm x 2.0 mm thk c 100 mm wide x 50 mm x 2.0 mm thk b 170 LF OR RACEWAYS AND CABLE TRAYS c 100 mm wide x 50 mm x 2.0 mm thk c 100 mm wide x 50 m						
b       150 mm wide x 50 mm x 2.0 mm thk       Mtr.       -       -         c       100 mm wide x 50 mm x 2.0 mm thk       Mtr.       20.00       -         d       35 mm wide x 50 mm x 2.0 mm thk       Mtr.       10.00       -         TOTAL FOR RACEWAYS AND CABLE TRAYS       Mtr.       0       -         4.0       POINT WIRNG       -       -         Point wiring LENGTH from DB to SB or First Light point control be MCB shall be avg. of 15Mtr. of 3C x 2.5 sq mm FRLS PVC insulated stranded copper conductor wires. For SB to SB the length shall be measured in Mtr.       -         The secondary/Loop point length shall be 10Mtr from Light fixture to light fixture. If secondary point shall be operated from MCB then the length shall be 10 Mtr.       -         All sockets to be checked with a Check Plug socket tester for live-neutral reverse, no earth, neutral fault, live earth reverse, neutral earth reverse.       -         The Circuit No. and DB no. label shall be provided on all UPS ,RAW sockets and switchboards with label arinter.       -         4.1       Wiring for the Primary light points with 3C x 2.5 Sq.mm FRLS PVC insulated stranded copper conductor wires in Gl conduits in F.ceiling/walls/ceiling as direc-ted from Distribution Board to Switch Board including providing 6 amps flush type switches, 5 sided GL Boxes for housing switc-hes and earth-ing complete as required. Rates shall exclusive of Switches & Switch boxes.       -         4.1.1       From DB to Normal Switch Board       Mtr.	3.4	sizes for supporting 1.1 KV grade armoured/unarmoured aluminium/copper conductor cables. Fabricate the cable trays from perforated 1.6/2mm thick M.S. CRCA sheet duly galvanised with expansion coupler plates duly galvanised, with bolts, washer and nuts. Knock out holes for cable connections as per approved design. The tray should comply with the specification of NEC (National Electric Codes) and NEMA (National Electric Manufacturers Association). The steel should be as per IS:226 and galvanising as per IS :2629/BS 729/ASTM 123. The rate shall also include for supporting steel, fish plates, fixing accessories, nuts bolts, supporting down rods , dash fastener, cutting the RCC etc. complete as required. (the horizontal and vertical bends, Ts should be factory fabricated and the rate				
b       150 mm wide x 50 mm x 2.0 mm thk       Mtr.       -       -         c       100 mm wide x 50 mm x 2.0 mm thk       Mtr.       20.00       -         d       35 mm wide x 50 mm x 2.0 mm thk       Mtr.       10.00       -         TOTAL FOR RACEWAYS AND CABLE TRAYS       Mtr.       0       -         4.0       POINT WIRNG       -       -         Point wiring LENGTH from DB to SB or First Light point control be MCB shall be avg. of 15Mtr. of 3C x 2.5 sq mm FRLS PVC insulated stranded copper conductor wires. For SB to SB the length shall be measured in Mtr.       -         The secondary/Loop point length shall be 10Mtr from Light fixture to light fixture. If secondary point shall be operated from MCB then the length shall be 10 Mtr.       -         All sockets to be checked with a Check Plug socket tester for live-neutral reverse, no earth, neutral fault, live earth reverse, neutral earth reverse.       -         The Circuit No. and DB no. label shall be provided on all UPS ,RAW sockets and switchboards with label arinter.       -         4.1       Wiring for the Primary light points with 3C x 2.5 Sq.mm FRLS PVC insulated stranded copper conductor wires in Gl conduits in F.ceiling/walls/ceiling as direc-ted from Distribution Board to Switch Board including providing 6 amps flush type switches, 5 sided GL Boxes for housing switc-hes and earth-ing complete as required. Rates shall exclusive of Switches & Switch boxes.       -         4.1.1       From DB to Normal Switch Board       Mtr.	а	300 mm wide x 50 mm x 2.0 mm thk	Mtr.	+ +		-
d       50 mm vide x 50 mm x 2.0 mm thk       Mtr.       10.00       -         TOTAL FOR RACEWAYS AND CABLE TRAYS       -       -         4.0       POINT WIRING       -       -         Point wiring LENGTH from DB to SB or First Light point control be MCB shall be avg. of 15Mtr. of 3C x 2.5 sq mm FRLS PVC insulated stranded copper conductor wires. For SB to SB the length shall be measured in Mtr.       -       -         The secondary/Loop point length shall be 10Mtr from Light fixture to light fixture. If secondary point shall be operated from MCB then the length shall be 10 Mtr.       -       -         All sockets to be checked with a Check Plug socket tester for live-neutral reverse, no earth,neutral fault, live earth reverse, neutral earth reverse.       -       -         The Circuit No. and DB no. label shall be provided on all UPS ,RAW sockets and switchboards with label orinter.       -       -         4.1       Wiring for the Primary light points with 3C x 2.5 Sq.mm FRLS PVC insulated stranded copper conductor wires in Gl conduits in F ceiling/walls/ceiling as direc-ted from Distribution Board to Switch Board including providing 6 amps flush type switches, 5 sided G1 Boxes for housing switc-hes and earth-ing complete as required. Rates shall exclusive of Switch boxes.       -       -         4.1.1       From DB to Normal Switch Board       Mtr.       15.00       -	b		Mtr.	-		-
TOTAL FOR RACEWAYS AND CABLE TRAYS						-
Point wiring LENGTH from DB to SB or First Light point control be MCB shall be avg. of 15Mrr. of 3C x 2.5 sq mm FRLS PVC insulated stranded copper conductor wires. For SB to SB the length shall be measured in Mtr.		TOTAL FOR RACEWAYS AND CABLE TRAYS		10.00		-
15Mtr. of 3C x 2.5 sq mm FRLS PVC insulated stranded copper conductor wires. For SB to SB the length shall be measured in Mtr.	4.0	POINT WIRING		+		-
point shall be operated from MCB then the length shall be 10 Mtr.		15Mtr. of 3C x 2.5 sq mm FRLS PVC insulated stranded copper conductor wires. For SB to SB				
fault, live earth reverse, neutral earth reverse.						
with label nrinter.     Image: Constraint of the length shall be paid as per the actual measurements & as per following manner.     Image: Constraint of the length shall be paid as per the actual measurements & as per following manner.       4.1     Wiring for the Primary light points with 3C x 2.5 Sq.mm FRLS PVC insulated stranded copper conductor wires in GI conduits in F.ceiling/walls/ceiling as directed from Distribution Board to Switch Board including providing 6 amps flush type switches, 5 sided G.I Boxes for housing switc-hes and earth-ing complete as required. Rates shall exclusive of Switch boxes.     Image: Constraint of the length shall be paid as per the actual measurements as the length shall be paid as per the actual measurements as the length shall be paid as per the actual measurement of the length shall be paid as per the actual measurements as the length shall be paid as per the actual measurement of the length shall be paid as per the actual measurement of the length shall be paid as per the actual measurement of the length shall be paid as per the actual measurement of the length shall be paid as per the actual measurement of the length shall be paid as per the actual measurement of the length shall be paid as per the actual measurement of the length shall be paid as per the actual measurement of the length shall be paid as per the actual measurement of the length shall be paid as per the actual measurement of the length shall be paid as the length shall be paid as per the actual measurement of the length shall be paid as per the actual measurement of the length shall be paid as the length shall be paid ashall be paid as the length shall be paid ashall be paid as the len		fault, live earth reverse, neutral earth reverse.				-
conductor wires in GI conduits in F.ceiling/walls/ceiling as direc-ted from Distribution Board to Switch Board including providing 6 amps flush type switches, 5 sided GI Boxes for housing switc-hes and earth-ing complete as required. Rates shall exclusive of Switches & Switch boxes.		with label printer.				
	4.1	conductor wires in GI conduits in F.ceiling/walls/ceiling as direc-ted from Distribution Board to Switch Board including providing 6 amps flush type switches, 5 sided G.I Boxes for housing switc-hes and				<u> </u>
4.1.2 From DB to Emergency Switch Board Mtr. 20.00 -		From DB to Normal Switch Board From DB to Emergency Switch Board				-

SR. NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL BOQ AMOUNT
4.2	Wiring for the following light points with 3 x 2.5 Sq.mm FRLS PVC insulated stranded copper conductor wires in GI conduits in F.ceiling/walls/ceiling as direc-ted including providing 6 amps flush type switches, 5 sided G.I Boxes for housing switc-hes and earth-ing complete as required from the above switch board. Rates shall exclusive of Switches & Switch Box. (FROM SB TO LIGHT)				
					-
4.2.1	First point controlled by one no. 6 amp switch. (upto 10Mtr.) First point controlled by one no. 6 amp switch. (upto 20Mtr.)	Nos. Nos.	10.00		-
4.2.2	First point controlled by one no. 6 amp switch. (upto 20Mr.) First point controlled by one no. 6 amp switch. For Emergency Light (upto 10Mtr.)	Nos.	5.00		-
4.2.4	First point controlled by one no. 6 amp switch. For Emergency Light (upto 20Mtr.)	Nos.			-
4.3	Same as item No. 4.2.1 & 4.2.2 above but LOOP POINT i.e. wiring of point looped from first point with 3C x 2.5 sq. mm FRLS PVC insulated copper conductor wire in concealed/exposed GI conduit and	Nos.	35.00		-
4.4	earthing Same as item No. 4.2.3 & 4.2.4 above but LOOP POINT i.e. wiring of point looped from first point with 3C x 2.5 sq. mm FRLS PVC insulated copper conductor wire in concealed/exposed GI conduit and earthing For Emergency Light	Nos.	20.00		
4.5	Wiring for the following light points controlled by MCB in DB (Cost of MCB has been taken elsewhere in the tender) with 3C x 2.5 sq. mm FRLS PVC insulated copper conductor wires in concealed/exposed GI conduits as called for and earthing.				-
4.5.1	First point controlled by existing MCB in D.B.	Mtr.			-
4.5.2 4.6	First Emergency point controlled by existing MCB in D.B. Same as item No.4.5.1 above but LOOP POINT i.e. wiring of point looped from first point with 3C x 2.5	Mtr. Nos.			-
	sq. mm FRLS. insulated copper conductor wire in concealed/exposed GI conduit and earthing				-
4.7	Same as item No. 4.5.2 above but LOOP POINT i.e. wiring of point looped from first point with 3C x 2.5 sq. mm FRLS. insulated copper conductor wire in concealed/exposed M.S. conduit and earthing For Emergency Lighting	Nos.			-
4.8	Wiring for UPS/Raw plug outlets points with 3C x 4 sqmm FRLS PVC Insulated and PVC sheathed flexible eable with bright annealed electrolytic copper conductor, 1100 volt grade confirming to IS : 694-1990 with latest amendments, in existing Channels/ conduit in ceiling/walls/floor including all cable termination accessories) (including body earth for GI boxes)	Mtr.	400.00		_
4.9	Wiring for UPS/Raw plug outlets points with 4C x 4 sqmm FRLS PVC Insulated and PVC sheathed flexible cable with bright annealed electrolytic copper conductor, 1100 volt grade confirming to IS : 694-1990 with latest amendments, in existing Channels/ conduit in ceiling/walls/floor including all cable termination accessories) (including body earth for GI boxes)	Mtr.			
4.10	Providing and fixing in position the following GI RIGID conduits including all accessories concealed in F. ceiling/wall/floor as required including pull boxes with 3mm thick perspex sheet cover plate complete with 1.6 mm dia. G.I. pull wires in the length of conduit.				_
4.10.1	20 mm dia GI Conduit	Mtr.			-
4.10.2 4.11	25 mm dia GI Conduit Providing and fixing in position the following GI FLEXIBLE conduits including all accessories concealed in F. ceiling/wall/floor as required including pull boxes with 3mm thick perspex sheet cover plate complete with 1.6 mm dia. G.I. pull wires in the length of conduit.	Mtr.	650.00		-
4.11.1 4.11.2	20 mm dia GI Conduit 25 mm dia GI Conduit	Mtr. Mtr.	150.00		
4.12		Mtr.	70.00		-
4.12	Supply & Laying of 2Cx2.5 Sq.mm FRLS Cu Flexible Cable in 25mm dia. GI Conduit for CCTV TOTAL FOR POINT WIRING	MUT.	70.00		-
5.0	MODULAR SWITCHES				-
5.1	Supply, installation, testing & commissioning of following types of modular switches, cover plates, 5 sided G.I. Boxes for housing the modular switches & earthing complete as required. GI Boxes to have earth pin for body earthing. The Circuit No. and DB no. label shall be provided on all UPS ,RAW sockets and switchboards with label printer.(Make- Legrand Aretor Series)				
5.1.1	6A One Way Switch	Nos.	10.00		-
5.1.2 5.1.3	6A 5 pin Socket - 1Nos. & 6A Switch - 1Nos. 6/16A Socket outlet - 1Nos. & 16A Switch - 1Nos.(Raw/UPS Power)	Nos. Nos.	15.00		-
5.1.4	5/15 amps Switch Socket complete with all mounting accessories waterproof (IP-65) for Kitchen	Nos.	5.00		
5.1.5	20 Amp 1- Ph Industrial Socket (Metal Clad)	Nos.	10.00		-
5.1.5	32 Amp 3- Ph Industrial Socket (Metal Clad)	Nos.	2.00		-
5.1.6	20 Amp 1- Ph Electrical Outlet Data Outlet (RJ-45)	Nos. Nos.	3.00 7.00		-
5.1.7			1.00		-
5.1.7 5.1.8	Telephone Outlet (RJ-11)	Nos.	1.00		
5.1.8	Telephone Outlet (RJ-11) TOTAL FOR MODULAR SWITCHES	Nos.	1.00		-
	Telephone Outlet (RJ-11)				
5.1.8 6.0 6.1	Telephone Outlet (RJ-11)         TOTAL FOR MODULAR SWITCHES         GENERAL EARTHING         Supplying and crecting following GI strip used for earthing on wall with necessary MS clamps fixed on wall/Cable trays/Hume pipes etc. The jointes shall be Bolted/Welded. The joints shall be painted with bituminous paint in an approved manner.         25 x 3 mm	Nos. Mtr.			
5.1.8 6.0 6.1	Telephone Outlet (RJ-11)         TOTAL FOR MODULAR SWITCHES         GENERAL EARTHING         Supplying and erecting following GI strip used for earthing on wall with necessary MS clamps fixed on wall/Cable trays/Hume pipes etc. The jointes shall be Bolted/Welded. The joints shall be painted with bituminous paint in an approved manner.         25 x 3 mm         Supplying and erecting bare Copper conductor of following sizes         8 SWG		80.00		-
5.1.8 6.0 6.1 6.1 6.2 6.2.1	Telephone Outlet (RJ-11)         TOTAL FOR MODULAR SWITCHES         GENERAL EARTHING         Supplying and erecting following GI strip used for earthing on wall with necessary MS clamps fixed on wall/Cable trays/Hume pipes etc. The jointes shall be Bolted/Welded. The joints shall be painted with bituminous paint in an approved manner.         25 x 3 mm         Supplying and erecting bare Copper conductor of following sizes         8 SWG         TOTAL FOR GENERAL EARTHING	Mtr.			
5.1.8 6.0 6.1 6.1.1 6.2	Telephone Outlet (RJ-11)         TOTAL FOR MODULAR SWITCHES         GENERAL EARTHING         Supplying and erecting following GI strip used for earthing on wall with necessary MS clamps fixed on wall/Cable trays/Hume pipes etc. The jointes shall be Bolted/Welded. The joints shall be painted with bituminous paint in an approved manner.         25 x 3 mm         Supplying and erecting bare Copper conductor of following sizes         8 SWG	Mtr.			
5.1.8 6.0 6.1 6.1 6.2 6.2.1 7.0	Telephone Outlet (RJ-11)       TOTAL FOR MODULAR SWITCHES         GENERAL EARTHING       GENERAL EARTHING         Supplying and crecting following GI strip used for earthing on wall with necessary MS clamps fixed on wall/Cable trays/Hume pipes etc. The jointes shall be Bolted/Welded. The joints shall be painted with bituminous paint in an approved manner.         25 x 3 mm       Supplying and erecting bare Copper conductor of following sizes         8 SWG       TOTAL FOR GENERAL EARTHING         LIGHT FIXTURES INSTALLATION       Receiving from Store, Installation, testing & commissioning of following light fixtures with complete installation hardwares including Anchor fastner, supporting Hook/Rods as per final approval from Architect/Client/Consultant         ROUND CEILING LIGHT       ROUND CEILING LIGHT	Mtr.			
5.1.8 6.0 6.1 6.1 6.2 6.2.1 7.0 7.1 7.1.1 7.1.2	Telephone Outlet (RJ-11)       IT         TOTAL FOR MODULAR SWITCHES       IT         GENERAL EARTHING       Supplying and erecting following GI strip used for earthing on wall with necessary MS clamps fixed on wall/Cable trays/Hume pipes etc. The jointes shall be Bolted/Welded. The joints shall be painted with bituminous paint in an approved manner.         25 x 3 mm       Supplying and erecting bare Copper conductor of following sizes         8 SWG       It         TOTAL FOR GENERAL EARTHING       LIGHT FIXTURES INSTALLATION         Receiving from Store, Installation, testing & commissioning of following light fixtures with complete installation hardwares including Anchor fastner, supporting Hook/Rods as per final approval from Architect/Client/Consultant         ROUND CEILING LIGHT       PENDENT LIGHT	Mtr. RMtr. Nos. Nos.	80.00		-
5.1.8 6.0 6.1 6.1 7.0 7.1 7.1.1 7.1.2 7.1.3	Telephone Outlet (RJ-11)         TOTAL FOR MODULAR SWITCHES         GENERAL EARTHING         Supplying and erecting following GI strip used for earthing on wall with necessary MS clamps fixed on wall/Cable trays/Hume pipes etc. The jointes shall be Bolted/Welded. The joints shall be painted with bituminous paint in an approved manner.         25 x 3 mm         Supplying and erecting bare Copper conductor of following sizes         8 SWG         TOTAL FOR GENERAL EARTHING         LIGHT FINTURES INSTALLATION         Receiving from Store, Installation, testing & commissioning of following light fixtures with complete installation hardwares including Anchor fastner, supporting Hook/Rods as per final approval from Architect/Client/Consultant         ROUND CEILING LIGHT         PENDENT LIGHT         HANGING LIGHT	Mtr. RMtr. Nos. Nos. Nos.	80.00		
5.1.8 6.0 6.1 6.1 6.2 6.2.1 7.0 7.1 7.1.1 7.1.2	Telephone Outlet (RJ-11)       Intervention of the second se	Mtr. RMtr. Nos. Nos.	80.00		
5.1.8 6.0 6.1 6.1 7.0 7.1 7.1 7.1.1 7.1.2 7.1.3 7.1.4 7.1.6 7.1.7	Telephone Outlet (RJ-11)         TOTAL FOR MODULAR SWITCHES         GENERAL EARTHING         Supplying and erecting following GI strip used for earthing on wall with necessary MS clamps fixed on wall/Cable trays/Hume pipes etc. The jointes shall be Bolted/Welded. The joints shall be painted with bituminous paint in an approved manner.         25 x 3 mm         Supplying and erecting bare Copper conductor of following sizes         8 SWG         TOTAL FOR GENERAL EARTHING         LIGHT FIXTURES INSTALLATION         Receiving from Store, Installation, testing & commissioning of following light fixtures with complete installation hardwares including Anchor fastner, supporting Hook/Rods as per final approval from Architect/Client/Consultant         ROUND CEILING LIGHT         PENDENT LIGHT         HANGING LIGHT         HANGING LIGHT         LEDS TRIP (15 M)         WALL LIGHT	Mtr. RMtr. Nos. Nos. Nos. Nos.	80.00		- - - - - - - - - - - - - - - - - - -
5.1.8 6.0 6.1 6.1 6.2 6.2.1 7.0 7.1 7.1.1 7.1.2 7.1.3 7.1.4 7.1.4 7.1.6	Telephone Outlet (RJ-11)       Intervention of the second se	Mtr. RMtr. Nos. Nos. Nos. Nos. Mtr.	80.00		- - - - - - - - - - - - - - - - - - -

SR. NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL BOQ AMOUNT
8.2	Supply & fixing in position the best quality danger notice boards of approved shape & size as reqd. by the local Electrical Inspecting Authority written in English, Hindi & local language.	Nos.	1.00		_
8.3	The contractor to submit all the AS BUILT DRAWINGS after the completion of the project for Electrical & ELV Services executed at site.	Part of Tender			-
8.0	CCTV System				
8.1	Supply Installation, testing & commissining of Indoor type Analogue Dome Camera with 1/2" 2 Mega Pixel, integrated 4/omm Fixed lens, Full HD high definition, Inbuilt Smart IR LED upto 10m distance, 0.02 lux color/0 lux with IR LEDs on, H.264, H.265 high profile, True Day/Night, , & 12VDC operated, ONVIF compliant, with Junction box & required accessories.	Nos.	8.00		
8.2	Supply, installation, testing & commissioning of 16 Channel Licence Server & hardware based Digital Video Recorder (DVR) with 3 Client licence, Embedded OS & per-loaded video recording software, Minimum 256 Mbps incoming bandwidth and 256 Mbps outgoing bandwidth, 1x 1000Mbps Ports, ONVIF, H.265 high profile, 2 x HDMI & VGA output for monitor, Upto 40TB storage capacity, minimum 4 SATA Interfaces, upto 10TB capacity for each SATA, including 20TB Storage HDD (Hard Disk) @ recording resolution of 25fps @ 1080P and H.265 for 30 days, including required accessories. Vendor to submit Bandwidth & Storage calculation sheet.	Nos	1.00		_
8.3	Supply, laving, testing of RG 6 Cable for CCTV.	Mrt	450.00		-
8.4	Supply, laying, testing (for continuity) of 23 AWG Copper, Cat 6 UTP Cable, Data & Wi-Fi points including end termination, dressing, bunching of cables with identification ferruling.	Mrt	500.00		-