

**BLR-T1-080 Lounge Ph-2**  
**SUMMARY FOR ELECTRICAL WORKS BILL-RA-1**  
**DATE : 15.10.2024**  
 PO NO:BLR/PO/24-25/000131

Sr. No.	DESCRIPTION	TOTAL AMOUNT IN Rs.	RA-1 Certified
<b>A ELECTRICAL SUMMARY</b>			
I	PANEL & SWITCHGEAR	Rs. 1,333,000	1,199,700
II	UPS & BATTERY	Rs. 105,000	73,500
III	DISTRIBUTION BOARDS	Rs. 286,500	239,400
IV	CABLES & ACCESSORIES	Rs. 632,050	500,605
V	POINT WIRING & ACCESSORIES	Rs. 3,356,695	1,972,964
0	EARTHING	Rs. 261,350	130,675
0	MISCELLANEOUS	Rs. 259,700	189,750
<b>B EXTRA LOW VOLTAGE SYSTEM</b>			
I	PA SYSTEM	Rs. 446,850	76,838
II	CCTV CABLE	Rs. 817,190	467,082
<b>SUB TOTAL AMOUNT IN RS.</b>		Rs. 7,498,335	4,850,514
<b>GST</b>		## 1,349,700	873,093
<b>TOTAL WITH GST</b>		8,848,035	5,723,607

(Rupees fitfy seven lakhs twenty three thousand six hundred seven only)

RANJANDAS SHETTY

<b>CERTIFIED BY</b>	<b>Accepted By</b>
<b>RANJANDAS SHETTY</b>	<b>Arrow Electricals</b>

**BLR-TI-080 Lounge Ph-2  
ELECTRICAL BOQ RA-1 BILL**

**DATE : 15.10.2024**

SR. No	DESCRIPTION	UNIT	TOTAL QTY	AS PER WO		Certified	
				UNIT RATE, SUPPLY & INSTALLATION	TOTAL AMOUNT	Qty	Amount
<b>PO NO:BLR/PO/24-25/000131</b>							
<b>I</b>	<b>PANEL &amp; SWITCHGEAR</b>						
1	Supply, installation, testing & commissioning of free standing, floor mounting compartmentalized panels fabricated out of CRCA sheet steel sections after carrying out 7 tank cleaning process and duly powder coated using Siemens Grey Shade No. RAL 7032. The frame structure, doors and gland plates shall have 2.0 mm thick sheets and partitions shall be with 1.6 mm thick CRCA sheet. Base channel size 75 x 40 x 6 mm of ISMC shall be provided. The panel shall be dust and vermin proof with <b>neoprene gasket</b> . The doors shall be provided with concealed hinges and with brazing wherever required to avoid deformation and shall be earthed. The bus bar shall be of tinned Copper with epoxy supports and shall be insulated with colour coded heat shrink sleeves. The control wiring min. <b>2.5 Sq.mm shall be FRLS type</b> . The Panel shall be provided with CTs, phase indication lamps, meters, relays and all switchgear, etc. as per the SLD. The panel shall be complete in all aspects as per the final approval	1	Set	651800	651,800	1	90%
<b>A</b>	Providing & installing <b>MAIN PANEL (ZONE-1) as per SLD &amp; Spec.:</b> 100 Amps 4 pole, 25kA MCCB as a Incomer with MP based LSIG protection, Conserv make (or eqv.) EM6400 Energy manager with 4A SP MCB with 100/5A-3 Nos., 10VA, CL-1 CT's for metering & AE make and indicating lamps for RYB and on-off-trip etc. <b>for detail refer the SLD.</b> Busbar chamber - 1 set, 4 pole 200A Tinned AL. Busbar with necessary						
	<b>OUTGOINGS:</b>						
	i.) 63A 4P MCCB with electromagnetic LSIG protections- 3 Nos.						
	ii.) 40A 4P MCCB with electromagnetic LSIG protections - 4 Nos.						
	iii.) 32A 4P MCCB with electromagnetic LSIG protections - 1 Nos.						
	iv.) 32A 4P ELMCB with 30 mA sensitivity - 1 Nos.						
	v.) 32A 2P MCCB with electromagnetic LSIG protections - 1 Nos.						
	vi.) DOL starters, 1.1 kW as indicated in the SLD and with a provision to connect a Start-Stop push button station from remote. - 2 Nos.						
	vii.) DOL starters, 5.5 kW as indicated in the SLD and with a provision to connect Start-Stop push button station from remote. - 1 Nos.						
<b>B</b>	Providing & installing <b>MAIN PANEL (ZONE-2) as per SLD &amp; Spec.:</b> 320 Amps 4 pole, 25kA MCCB as a Incomer with MP based LSIG protection, Conserv make (or eqv.) EM6400 Energy manager with 4A SP MCB for control circuit with 320/5A-3 Nos., 10VA, CL-1 CT's for metering & AE make and indicating lamps for RYB and on-off-trip etc. <b>for detail refer the SLD.</b> Busbar chamber - 1 set, 4 pole 400A Tinned AL. Busbar with necessary supports etc.	1	Set	604700	604,700	1	90%
	<b>OUTGOINGS:</b>						
	i.) 100A 4P MCCB with electromagnetic LSIG protections- 1 Nos.						
	ii.) 63A 4P MCCB with electromagnetic LSIG protections- 5 Nos.						
	iii.) 40A 4P MCCB with electromagnetic LSIG protections - 1 Nos.						

SR. No	DESCRIPTION	UNIT	TOTAL QTY	UNIT RATE, SUPPLY & INSTALLATION	TOTAL AMOUNT	Qty	%	Amount
	iii.) 32A 4P MCCB with electromagnetic LSIG protections – 1 Nos.							-
	iv) 63A 4P ELMCB with 30 mA sensitivity – 1 Nos.							-
	iv) 32A 4P ELMCB with 30 mA sensitivity – 1 Nos.							-
	v) 25A 4P ELMCB with 30 mA sensitivity – 1 Nos.							-
	vii) 16A 4P ELMCB with 30 mA sensitivity – 1 Nos.							-
	viii.) DOL strtrs, 0.75 kW as indicated in the SLD and with a provision to connect a Start-Stop push button station from remote. - 1 Nos.							-
	ix.) DOL strtrs, 1.1 kW as indicated in the SLD and with a provision to connect a Start-Stop push button station from remote. - 2 Nos.							-
	vii.) DOL strtrs, 5.5 kW as indicated in the SLD and with a provision to connect a Start-Stop push button station from remote. - 1 Nos.							-
1	Supply, installation, testing & commissioning of Switchgears. (Standard Product)							-
a	100 amps 4P MCCB with thermal magnetic releases in FRP enclosure, IP-65, complete with all mounting accessories – for 34 TR VRF ODU	Nos.	1	22500	22,500	1	90%	20,250
b	32 amps 4P MCB 'C' TYPE in FRP enclosure, IP-65, complete with all mounting accessories – for 3.5 TR DX ODU.	Nos.	1	12500	12,500	1	90%	11,250
d	63 amps 4P MCB with 63A 5 Pin Industrial Socket complete with all mounting accessories (for induction cook top)	Nos.	1	14500	14,500	1	90%	13,050
e	32 amps 4P MCB with 32A 5 Pin Industrial Socket complete with all mounting accessories (for Pasta Cooker & Electric Fry Top)	Nos.	2	13500	27,000	2	90%	24,300
	<b>TOTAL FOR MAIN PANEL &amp; SWITCHGEAR</b>				<b>1,333,000</b>			<b>1,199,700</b>
II	<b>UPS &amp; BATTERY</b>							-
1	Supply, Installation, testing and commissioning of <b>4.0 KVA UPS</b> System with 1-Phase I/C & 1-Phase O/G complete with 30 Minutes Battery Back-up and the required accessories as specified in the drawings & the specifications.	Set	1	105000	105,000	1	70%	73,500
	<b>TOTAL FOR UPS &amp; BATTERY</b>				<b>105,000</b>			<b>73,500</b>

G

SR. No	DESCRIPTION	UNIT	TOTAL QTY	UNIT RATE, SUPPLY & INSTALLATION	TOTAL AMOUNT	Qty	%	Amount
III	<b>DISTRIBUTION BOARDS</b> Supply, installation, testing & commissioning of Distribution Boards surface / flush mounted with <b>Double door</b> containing MCB/ELMCB as incomer and SPMCB as outgoing. All MCBs are of 10KA breaking capacity and ELMCBs/RCCB should be of 30mA/100 MA sensitivity. The DB shall have appropriate no. of top and bottom knock outs for outgoing circuits and shall be complete with necessary busbars, interconnection terminals and earth studs. All terminations in DB shall be complete with ferruling, dressing and all circuits shall be properly labeled with PVC strip (sticker type) having identification as per the final approval of Consultant. For UPS DB MCB shall be 'D' type and other MCBs shall be 'C' category for lighting and raw power DB <b>LEGRAND/HAGER/SCHNEIDER.</b>							
1	<b>VTPN DB</b> 4 way TPN DB <i>Incomer:</i> 63A 4P MCB 10KA – 1no. <i>Outgoings</i> 63/25 SP MCB, 'C' Type – 4 Nos	Nos.	R.O.	24500				
2	<b>Lighting Distribution Board (LDB)</b> 8+2 way TPN PPI DB <i>Incomer:</i> 32/40A 4P MCB 10KA – 1no. <i>Subincomer:</i> 32A DP ELCB 30mA - 3 nos <i>Outgoings</i> :6/10 SP MCB, 'B' Curve Type – 24 Nos	Nos.	2	27500	55,000	2	90%	49,500
2	<b>Small Power Distribution Board (For small power and SPA)</b> 6+2 way TPN PPI DB <i>Incomer:</i> 32/40A 4P MCB 10KA – 1no. <i>Subincomer:</i> 40A DP ELCB 30mA - 3 nos <i>Outgoings</i> :10/16/20 SP MCB, 'C' Type -- 18 Nos	Nos.	3	30500	91,500	3	90%	82,350
3	<b>Power Distribution Board (For Bar/Office/Store, Buffet Counter-1 &amp; 2)</b> 8+2 way TPN PPI DB <i>Incomer:</i> 63A 4P MCB 10KA – 1no. <i>Subincomer:</i> 63A DP ELCB 30mA - 3 nos <i>Outgoings</i> : 10/16/20 SP MCB, 'C' Type – 24 Nos	Nos.	3	32500	97,500	3	90%	87,750
4	<b>Power Distribution Board (For Beverage Station and Sports Lounge)</b> 6+2 way TPN PPI DB	Nos.	1	31500	31,500			

SR. No	DESCRIPTION	UNIT	TOTAL QTY	UNIT RATE, SUPPLY & INSTALLATION	TOTAL AMOUNT	Qty	%	Amount
	<i>Incomer:</i>							
	63A 4P MCB 10KA – 1no.							-
	<i>Subincomer:</i>							-
	63A DP ELCB 30mA - 3 nos							-
	<i>Outgoings:</i> 10/16/20 SP MCB, 'C' Type – 18 Nos							-
5	<b>UPS LDB</b>							
	12 way SPN DB	Nos.	1	11000	11,000	2	90%	19,800
	<i>Incomer:</i> 25A DP MCB							-
	<i>Outgoings:</i> 6/10A SP MCB, 'C' Type – 8 Nos							-
	<b>TOTAL FOR DISTRIBUTION BOARDS</b>				<b>286,500</b>			<b>239,400</b>
IV	<b>CABLES &amp; ACCESSORIES</b>							
	<b>Note : Make a provision for suspenders as per site ceiling requirement.</b>							
	Supply & installation of following armoured LT cables (XLPE insulated, Cu/Al conductor, ST-2 rated inner FR PVC sheath and FRLS PVC outer sheath) rated for 1100 volts AC as per IS standard 1554 Part 1 and IS: 7098, Part-1. with necessary M.S. clamps. All cables shall be properly clamped or tied when run on cable trays. All such cables shall be provided with temporary labelling at every 20 mtrs and ten finally with metal identification tags showing the size and the location from/to the specific Panel/DB at both ends.							
4	4C x 16 Sq. mm CU. Armoured XLPE CABLE (For VRF ODU, PDB for Beverages Sports)	Mtr.	125.00	995	124,375			
5	4C x 10 Sq. mm CU. Armoured XLPE CABLE (for induction cook top, DBs, Buffet counter KPDB)	Mtr.	135.00	785	105,975	129	100%	101,265
6	4C x 6 Sq. mm CU. armoured XLPE Cable (For electric fry top, SPA DB, SPA Geyser, LDB, small power DB etc)	Mtr.	225.00	590	132,750	221	100%	130,390
7	4C x 4 Sq. mm CU. armoured XLPE Cable (For DX ODU, 20 TR CSU, Pasta Cooker, Induction WOK, Floor AHU etc.)	Mtr.	275.00	462	127,050	275	100%	127,050
8	4C x 2.5 Sq. mm CU. armoured XLPE Cable (Exhaust, FA fans, CSUs etc)	Mtr.	250.00	331	82,750	250	100%	82,750
10	3C x 6 Sq. mm CU. Unarmoured XLPE Cable (For UPS I P and output upto the isolator)	Mtr.	35.00	485	16,975	35	100%	16,975
13	3Rx1Cx6 Sq.mm YY FRLS Cable (Cu) (For UPS I, O P from isolator) in flexible metallic conduit.	Mtr.	35.00	325	11,375	35	100%	11,375
B	Termination of following sizes of cables with Single compression cable gland.							
1	3.5C x 185 Sq. mm AL. Armoured XLPE CABLE	Nos.	2.00	1850	3,700	2.00	100%	3,700
2	3.5C x 120 Sq. mm AL. Armoured XLPE CABLE	Nos.	2.00	1450	2,900	2.00	100%	2,900
4	4C x 16 Sq. mm CU. Armoured XLPE CABLE (For VRF ODU, PDB for Beverages Sports)	Nos.	6.00	750	4,500	6.00	100%	4,500
5	4C x 10 Sq. mm CU. Armoured XLPE CABLE (for induction cook top, DBs, Buffet counter KPDB)	Nos.	8.00	620	4,960	8.00	100%	4,960
6	4C x 6 Sq. mm CU. armoured XLPE Cable (For electric fry top, SPA DB, SPA Geyser, LDB, small power DB etc)	Nos.	8.00	510	4,080	8.00	100%	4,080
7	4C x 4 Sq. mm CU. armoured XLPE Cable (For DX ODU, 20 TR CSU, Pasta Cooker, Induction WOK, Floor AHU etc.)	Nos.	8.00	410	3,280	8.00	100%	3,280

Sr. No	DESCRIPTION	UNIT	TOTAL QTY	UNIT RATE, SUPPLY & INSTALLATION	TOTAL AMOUNT	Qty	%	Amount
8	4C x 2.5 Sq. mm CU. armoured XLPE Cable (Exhaust, FA fans, CSUs etc)	Nos.	8.00	250	2,000	8.00	100%	2,000
9	3C x 4 Sq. mm CU. armoured XLPE Cable	Nos.	8.00	310	2,480	8.00	100%	2,480
10	3C x 6 Sq. mm CU. Unarmoured XLPE Cable (For UPS I P and output upto the isolator)	Nos.	4.00	350	1,400	4.00	100%	1,400
13	3Rx1Cx6 Sq.mm YY FRLS Cable (Cu) (For UPS I P, O P from isolator) in flexible metallic conduit.	Nos.	6.00	250	1,500	6.00	100%	1,500
<b>TOTAL FOR CABLES &amp; ACCESSORIES</b>					<b>632,050</b>			<b>500,605</b>
V	<b>POINT WIRING &amp; ACCESSORIES</b>							
1	<b>Note : Make a provision for suspenders as per site ceiling requirement.</b> Wiring of circuit mains from DB to the switchboards or power points. 3RX2.5 sq.mm FR-LSH insulated multistrand copper conductor wires, 1.1 KV grade, in G.I. Conduits of 20 mm dia a 2RX4 sq.mm + 1R X 2.5 sq. mm. FR-LSH insulated multistrand copper conductor wires, 1.1 KV grade in G.I. Conduits of 20 mm dia b	Mtrs.	1750	342	598,500	773	90%	237,929
		Mtrs.	2750	385	1,058,750	1,383	90%	479,210
2	<b>SWITCH OPERATED LIGHT POINT WIRING</b> Supply, installation, testing & commissioning of point wiring for lights / plug points / bell point etc. in G.I. conduit of suitable diameter, surface or recessed mounted complete with junction box, joints, bends, switch box, cover plate etc. including 1.1kv grade 2 x 2.5+ 1 x 1.5 sq.mm. (Primary Points) Copper multi-stranded PVC insulated FRLS wires and 2 x 1.5 + 1 x 1.5 sq.mm. (Secondary Points) Copper multi-stranded PVC insulated FRLS wires, along with 6A modular surface/ recessed mounted switch, ceiling rose, connectors switch boxes etc. The work shall be completed with all material, labour, chiselling, making good surface etc. in cordination with civil agency complying with IE rules, regulations, standards & local supply authority requirements. All G.I. conduit pipes, FRLS wires shall be considered) <b>Note:</b> <b>1) The cost of Circuit Wiring from DB to switch board and switch board to switch board shall be covered by wiring of circuit mains</b>	Each	55	3950	217,250	10	90%	35,550
a	Primary point	Each	85	2050	174,250	6	90%	11,070
b	Secondary point							
3	<b>MCB OPERATED LIGHT POINT WIRING (DIRECT FROM LDB)</b>							

9

SR. NO	DESCRIPTION	UNIT	TOTAL QTY	UNIT RATE, SUPPLY & INSTALLATION	TOTAL AMOUNT	Qty	%	Amount
	Supply, installation, testing & commissioning of point wiring for lights / plug points / bell point etc. in G.I. conduit of suitable diameter, surface or recessed mounted complete with junction box, joints, bends, switch box, cover plate etc. including 1.1KV grade 2 x 2.5+ 1 x 1.5 sq.mm. (Primary Points) Copper multi-stranded PVC insulated FRLS wires and 2 x 1.5 + 1 x 1.5 sq.mm. (Secondary Points) Copper multi-stranded PVC insulated FRLS wires, along with 6A modular surface/ recessed mounted switch, ceiling rose, connectors switch boxes etc. The work shall be completed with all material, labour, chiselling, making good surface etc. in cordination with civil agency complying with IE rules, regulations, standards & local supply authority requirements. All G.I. conduit pipes, FRLS wires shall be considered)							
a	Primary point	Each	35	4250	148,750	41	90%	156,825
b	Secondary point	Each	77	2400	184,800	217	90%	468,720
	<b>POWER POINT WIRING</b>							

8

SR. NO	DESCRIPTION	UNIT	TOTAL QTY	UNIT RATE, SUPPLY & INSTALLATION	TOTAL AMOUNT	Qty	%	Amount
4	Supplying, erecting, testing & commissioning independent surface or recessed mounting modular 5A switch & 5/15A socket complete with switch box, internal wiring with required chiseling making good surface etc...in coordination with civil agency complying with IE rules, regulations, standards & local supply authority requirements. as per final approval of Architect/Consultant. (3X2.5 sq.mm wires for primary shall be multistrand copper conductor, FR-LSH type in G.I. conduit) Excluding of switch socket. <b>(First power point shall be measure as per circuit mains wiring. The secondary is power point shall be about 5Mtr.</b> Secondary point	Nos.	35	1850	64,750	46	90%	76,590
5	Supplying, erecting, testing & commissioning independent surface or recessed mounting modular 15A switch & socket complete with switch box, internal wiring with required chiseling making good surface etc...in coordination with civil agency complying with IE rules, regulations, standards & local supply authority requirements. as per final approval of Architect/Consultant. (4sq.mm Wires shall be for primary FRLS type & G.I. conduit ) Excluding of switch socket. <b>(First power point shall be measure as per circuit mains wiring. The secondary is power point shall be about 5Mtr.</b> Secondary point	Each	30	2190	65,700			
6	Supply and installation of Perforated Cable Tray out of 14 gauge GI sheet complete with necessary fixing arrangement with Anchor Fastener and all other accessories as per the final approval of the Consultant/Architect. <b>Note: Make a provision for suspenders as per site ceiling requirement.</b> 450 x 50 x 2mm	Mtr.	30	1647	49,410	55	90%	81,527
7	Supply and installation of AL raceway with 2 mm thickness & proper ties/clamps at appropriate intervals & as per the route approved by Architect/Consultant. (Cost of cutting the floor for laying of raceways to be included).							
a	2 runs of underfloor AL raceways of size 100 x 40 mm (Type-A)	Mtr.	47	1850	86,950	29	90%	48,285
b	1 runs of underfloor AL raceways of size 100 x 40 mm	Mtr.	5	920	4,600	63	90%	52,412
c	1 runs of underfloor AL raceways of size 85 x 38 mm	Mtr.	18	790	14,220			
d	1 runs of underfloor AL raceway of size 65 x 38 mm	Mtr.	75	655	49,125	68	90%	39,791
e	2 runs of underfloor HMS grade uPVC Conduit Pipes 25 mm dia	Mtr.	72	230	16,560	50	90%	10,350
8	Supply & installation of GI junction boxes with 2 mm thickness, 2mm thick SS cover with 2" extra on all sides SS cover on top and having screw fixed plates on all four sides with knock out holes for conduits. The plates shall be retained on the sides having no conduit or raceway so as to avoid the entry of any unwanted material. Earth stud to be provided for all Junction boxes for earthing. Junction box to be prepared as per the final approval of Architect/Consultant. The junction boxes shall be protected from the entry of unwanted material till the completion of the project & the SS plates shall be installed after the final polishing of flooring. Note:							
a	450 x 450 x 50 mm	Nos.	5	1750	8,750			



SR. No	DESCRIPTION	UNIT	TOTAL QTY	UNIT RATE, SUPPLY & INSTALLATION	TOTAL AMOUNT	Qty	%	Amount
b	50 x 350 x 50 mm	Nos.	5	1550	7,750	4	90%	5,580
c	250 x 250 x 50 mm	Nos.	25	1250	31,250	5	90%	5,625
d	150 x 150 x 50 mm	Nos.	38	950	36,100	42	90%	35,910
e	Waterproofing of Junction Boxes in the planter box area by applying Sealing compound, NEER of Emerson make (or eqv.)	Nos.	10	1500	15,000			-
9	Supply, installation of temporary lighting & power arrangement for construction purpose of with industrial type switch & sockets/ MCB's/ELCB's & lighting fittings as required to finish the work for interior contractor & necessary electrical protections throughout the site for construction work till the handover of site. Contractor shall maintain the safety rules & regulations as per Airport Security Department. The material shall be taken back by the contractor, also included scaffolded work at site during execution.	Job	1	40000	40,000	1	90%	36,000

8

SR. NO	DESCRIPTION	UNIT	TOTAL QTY	UNIT RATE, SUPPLY & INSTALLATION	TOTAL AMOUNT	Qty	%	Amount
10	Supply, installation, testing & commissioning of modular type flush mounted plate type switch and switch + sockets with hot dipped GI box complete as per the final approval of Architect/Consultant							
a	6A one way plate type switch	Nos.	55	240	13,200	55	50%	6,600
c	6A 5pin switch socket outlet (Raw/UPS power) + USB	Nos.	36	2195	79,020	36	50%	39,510
c	6/16A 5pin switch socket outlet (Raw/UPS power) + USB	Nos.	40	2250	90,000	40	50%	45,000
d	2nos 6/16A 5pin switch socket outlet (Raw power)	Nos.	18	1350	24,300	18	50%	12,150
e	3 nos. 6/13A socket controlled by 1no 16A switch + USB	Nos.	12	3130	37,560	12	50%	18,780
g	1 nos. 16A socket controlled by 1nos 16A switch	Nos.	6	750	4,500	6	50%	2,250
h	RG6 coaxial TV outlet	Nos.	12	550	6,600	12	50%	3,300
11	Supply, installation, testing & commissioning of industrial type plug and sockets conforming to IEC-60309 of Make-C & S / Legrand / Havells or eqv.							
h	Industrial Socket, panel/surface mounting type, IP-67, 63 Amps, 5-Pin, 3P+N+E, 415 V, 3-Ph, with 4-P MCB of 63A (For Induction Cook Top)	No.	1	16500	16,500	1	50%	8,250
i	Industrial Socket, panel/surface mounting type, IP-67, 32 Amps, 5-Pin, 3P+N+E, 415 V, 3-Ph with 4-P MCB of 32A. (For Pasta Cooker, Elect. Fry Top & Induction WOK)	Nos.	3	15500	46,500	3	50%	23,250
j	Industrial Socket, panel/surface mounting type, IP-67, 32 Amps, 3-Pin, 2P+E, 230 V, 1-Ph with 2-P MCB of 16/20/32A. (For Kitchen and Buffet Counter as required)	Nos.	10	6500	65,000	10	50%	32,500
13	Providing Television wiring inside 25mm dia GI conduit from each TV outlet to LV Shaft by using coaxial cable of type RG 6. Tinned copper conductor with necessary accessories viz. deep junction boxes, inspection boxes bends, termination etc.	RM	450	220	99,000			
14	SITC of following Splitter unit in Metal enclosure for Cable TV.							
14.1	4 way Splitter	Nos.	1	950	950			
14.2	6 way Splitter	Nos.	1	1100	1,100			
	<b>TOTAL FOR WIRING &amp; ACCESSORIES</b>				<b>3,356,695</b>			<b>1,972,964</b>
	<b>EARTHING</b>							
1	Supply & erection of G.I. strip of 25 x 3 mm used for earthing of DBs, AHUs, ODUs etc. by laying on wall, cable trays with necessary clamps fixed on wall painted with bituminous paint in an approved manner.	Mtr.	350	205	71,750	350	50%	35,875
2	Supply & erection of G.I. strip of 40 x 5 mm used for earthing of Main Panels by laying on wall, cable trays with necessary clamps fixed on wall painted with bituminous paint in an approved manner.	Mtr.	450	322	144,900	450	50%	72,450
3	1 no. 4 sq. mm YY cable in 25mm G.I. conduit for earthing for UPS, networking and other ELV applications.etc	Mtr.	250	55	13,750	250	50%	6,875
4	Supplying & erecting bare copper conductor of 8 swg for earthing purpose. As required.	Mtr.	50	110	5,500	50	50%	2,750
5	Supplying & erecting bare GI conductor of 8 swg for earthing purpose	Mtr.	125	70	8,750	125	50%	4,375
7	SITC of Earthing terminal Box for distribution with 40X5 mm G.I. strip of 300 mm length.	Nos.	1	7500	7,500	1	50%	3,750

SR. No	DESCRIPTION	UNIT	TOTAL QTY	UNIT RATE, SUPPLY & INSTALLATION	TOTAL AMOUNT	Qty	%	Amount
8	SITC of Earthing terminal Box for distribution with 25X6 mm Copper strip of 300 mm length.	Nos.	1	9200	9,200	1	50%	4,600
	<b>TOTAL FOR EARTHING</b>				<b>261,350</b>			<b>130,675</b>
	<b>MISCELLANEOUS</b>							
1	Supply, fabrication and erection of M.S. Structural steel such as base mounting frames, brackets & supports for installation of panels, cable tray etc.from M.S channel, angle, flats as per the requirement with painting of one coat of red oxide primer and two coats of approved shade of epoxy paint.	kgs.	1500	145	217,500	1,200	100%	174,000
1	Supply & fixing of the best quality <b>LT Danger Boards(415V)</b> for of approved shape and size as specified by the local electrical authorities written in English, and local language	Nos.	2	350	700			
2	Supply & handed over to client of First Aid Box	Set	2	2500	5,000	2	50%	2,500

B

SR. NO	DESCRIPTION	UNIT	TOTAL QTY	UNIT RATE, SUPPLY & INSTALLATION	TOTAL AMOUNT	Qty	%	Amount
3	Supply of 2M x 1M Rubber mat as per IS 15652:2006, 2mm thick, suitable upto 3.3 KV, fire retardant, no effect of acids, alkalies and transformer oils, moisture proof, high tensile strength and texture finish / cloth impression (Anti slip, marking on top) . Make - DOZZ or equivalent	Nos.	4	2250	9,000	4	50%	4,500
	Supply & fixing in position approved shock treatment chart written in English, Hindi and Gujarati. These charts shall be put in wooden frame & covered with clear glass.	No.	2	1250	2,500	2	50%	1,250
	Fire Extinguisher 4.5 Kg (BCE Type).	No.	2	7500	15,000	2	50%	7,500
	Liaisoning with electrical inspector for necessary approvals of electrical installations.	LS	1	10000	10,000			-
	<b>TOTAL FOR MISLANIOUS</b>				<b>259,700</b>			<b>189,750</b>
<b>II</b>	<b>PA &amp; MUSIC SYSTEM CONTAINMENT (BIAMP - 8600)</b>							
	<b>Note: The PA system shall be integrated with Fire Alarm System to activate evacuation message at preset loud volume in case of emergency</b>							
1	Supply, Installation, Testing & Commissioning of 6 Zone Controller (Make - BIAMP), Location - Reception	Nos.	1	12600	12,600			-
2	Supply, Installation, Testing & Commissioning of 6W ceiling mount speaker. (Make - BIAMP)	Nos.	30	1850	55,500			-
3	Supply, Installation, Testing & Commissioning of 12W Wall Mounted Speaker. (Make - BIAMP)	Nos.	6	3850	23,100			-
4	Supply, Installation, Testing & Commissioning of 300W Booster amplifier with zone controller (BIAMP), Location - Reception	Nos.	1	42500	42,500			-
5	Audio Message Manager	No.	1	5350	5,350			-
6	Desk Microphone, (6-Zone Call Station), Location - Reception	No.	1	6300	6,300			-
7	Supply and laying of 2 Core Speaker Cable including 25mm G.I. conduit.	Mtr	1250	232	290,000	368	90%	76,838
8	Required connectors, jumper patch cables etc & other accessories required.	Lot	1	11500	11,500			-
	<b>TOTAL FOR PA SYSTEM</b>				<b>446,850</b>			<b>76,838</b>
<b>I</b>	<b>DATA, WIFI &amp; TELEPHONE SYSTEM</b>							
1	Supplying, Installation, Testing and Commissioning of CAT 6 cable for CCTV connectivity pulled in G.I. conduit.	Rmt	2150	220	473,000	2,359	90%	467,082
2	Supplying, Installation, Testing and Commissioning of CAT 6 cable for Telephone & Data connectivity pulled in Al raceways laid already.	Rmt	1880	90	169,200			-
3	Supply, Installation of CAT 6 Information Outlet							-
a	DATA OUTLET	Nos.	48	590	28,320			-
b	WI-FI	Nos.	10	650	6,500			-
c	CCTV	Nos.	33	650	21,450			-

SR. NO	DESCRIPTION	UNIT	TOTAL QTY	UNIT RATE, SUPPLY & INSTALLATION	TOTAL AMOUNT	Qty	%	Amount
4	Supply, installation & Configuration of Network Switch EX 4200, 24-port 10/100/1000BaseT (24 ports PoE+) with 1x930W AC PS PART NO. EX4200-24PX.	Nos	2					
5	Supply, installation & Configuration of Network Switch EX 4200, 48-port 10/100/1000BaseT (48 ports PoE+) with 1x930W AC PS PART NO. EX4200-48PX.	Nos.	1					
6	Supply, installation of 27 U Wall Mount Rack with Std. Accessories & required mounting Hardware ( WQ ) Black	Nos	1					
7	Supply & Installation of WLAN CONTROLLER for supporting UPTO 25 ACCESS POINTS.	Nos.	RO					
8	Supply, installation of Dual band (5 GHz and 2.4 GHz concurrent) Mid – Range 802.11n Wireless Access Point + Power Adaptor + PoE Injector + Ceiling Mounting Kit.	Nos	10					
9	<b>HEAT MAP ANALYSIS TEST FOR WIFI NETWORK</b> : Test to plan and create Wi-Fi networks according to client performance and capacity requirements and simulating real-life application usage such as VoIP, HD video streaming and web browsing.	LS	RO					
	<b>Distributed Antenna System (DAS)</b>							
10	<b>SIGNAL MAP ANALYSIS TEST FOR MOBILE NETWORK</b> : Carry out tests for signal strength to plan DAS network.	LS	1					
10.1	Supply, installation, testing and commissioning of Antenna points suitable for 4 Band coverage, low or medium power as shown in the layout.	Nos.	8					
10.2	Supply, installation and termination of RG-6 coaxial cable in GI conduits of 25 mm dia	Mtrs.	530	224	118,720			
10.3	Termination and integration at the main existing DAS antenna point	LS	1					
<b>TOTAL FOR CCTV CABLE</b>					<b>817,190</b>			<b>467,082</b>