

CONTRACTORS ARE ADVISED TO READ THE SPECIFICATIONS STATED BELOW CAREFULLY & QUOTE IN ONLINE BIDDING AND HAVE TO FOLLOW THE RECOMMENDED MAKES AS MENTIONED IN THE TENDER. NO OTHER MAKE WITHOUT PRIOR APPROVAL OF PROJECT IN CHARGE WILL BE ACCEPTED. PRODUCT CERTIFICATE FOR EARTHING IS MANDATORY.

VENDOR MUST SUBMIT VALID ELECTRICAL LICENSE



**Estimate for Electrical works of MODERNIZATION & Renovation at 1st floor Gaya Branch**

Sl.No.	Description	UOM	Qty.	Rate (Rs.) (Exclusive of GST on work contract)	Amount (Rs.) (Exclusive of GST on work contract)
1	<b>MAIN INCOMING SOURCE PANEL (MISP)</b> : Supply, installation, testing and commissioning of main incoming (MIP) Panel suitable for wall /floor mounted indoor type, air insulated, totally enclosed vermin-proof , dead front, cubicle type, 2 mm thick sheet steel enclosure use on 415 V, 3 Ph., 4 wire, 50 Hz. A.C. system, instrumental panel, CTs, incoming and outgoing cable compartment. The Panel shall be complete in all respect as per site requirement, interconnection, G.I. earth busbar of adequate size covering the total length of switch board with drilled holes, G.I. bolts, nuts, washers etc. as directed by E-I-C. The cubicle should be painted with two coats of light grey synthetic enamel paint over two coats of zinc chromate primer. The complete fabrication, construction shall be done as per the site condition and conforming to the relevant IS. Approval of Manufacturer's drawings from E-I-C.				
1.1	The Panel consists of the following (ABB/L&T/LEGRAND/SEIMENS) <b>INCOMING :</b> INCOMING : 1 No. : 415V,160A 4P MCCB (36 KA) for Mains, (Ics=Icu=100%) 1 No. : Digital Multi Function Meter (MFM) for Current, Voltage, Frequency, Power. 3 Nos.: LED Phase indicating lamps, 3 Nos.: Suitable CTS(200/5) PVC sleeved TPN Tinned Copper Busbar <b>35mm x 6mm</b> for phases and neutral. G.I. EARTH BUSBAR - 25mm x 3mm covering the total length of panel. <b>OUTGOING :</b> 1 No 40A DP MCB for Glow Sign Board and others, 1 No 63A 4P MCCB(25KA) for Raw Power VTPN , 2 NO 40A DP RCBO(300mA), 2 Nos 63A 4P RCBO(300mA), 2 Nos 40A TPN MCB Spare	SET	1		
2	<b>UPS Panel(IN UPS ROOM)</b> : Supply, installation, testing and commissioning of UPS Panel suitable for wall /floor mounted indoor type, air insulated, totally enclosed vermin-proof , dead front, cubicle type, 2 mm thick sheet steel enclosure use on 415 V, 3 Ph., 4 wire, 50 Hz. A.C. system, instrumental panel, CTs, incoming and outgoing cable compartment. The Panel shall be complete in all respect as per site requirement, interconnection, G.I. earth busbar of adequate size covering the total length of switch board with drilled holes, G.I. bolts, nuts, washers etc. as directed by E-I-C. The cubicle should be painted with two coats of light grey synthetic enamel paint over two coats of zinc chromate primer. The complete fabrication, construction shall be done as per the site condition and conforming to the relevant IS. Approval of Manufacturer's drawings from E-I-C.				
	The Panel consists of the following (ABB/L&T/LEGRAND/SEIMENS) <b>INCOMING :</b> The Panel consists of the following INCOMING : 1 No. : 415V, 100A 4P MCCB (36 KA) with overload and short circuit adj protection , for UPS Main Line from main panel , (Ics=Icu=100%) 1 No. : Digital Multi Function Meter (MFM) for main Line 3 Nos.: LED Phase indicating lamps. 3 Nos.: Suitable CTS PVC sleeved TPN Tinned suitable Copper Busbar (25mmX3mm) G.I. EARTH BUSBAR 25mm x 3mm covering the total length of panel. <b>OUTGOING :</b> Termination I: 2 No: 40 A 4P MCBs for UPS , 1 No 63A DP and 2 no 40 A DP MCBs spare	SET	1		
3	<b>Sub-main line:-(MAKE- POLYCAB/KEI/FINOLEX/HAVELLS)</b>  Wiring flame retardant FRLS/FRLSH as mentioned in rows below in MS conduit of IS specification of proper size with all material supply installation and commissioning complete from DB .The wiring shall be carried out on surface above false ceiling, and below of false ceiling by chiseling the existing surface and plastering the same with cement etc., or as cutting of tiles(with finishing), as per site conditions after fixing the MS conduit with all accessories like saddles screws, bends T-joint etc.				
i)	With 2 nos. 6 Sq.mm + 1 no. 6 Sq.mm. (green colour for earth) PVC insulated copper wire in MS conduit for LDB/RPDB/CDB or as per site requirement.	RM	300		
ii)	With 4 nos. 10 Sq.mm + 1 no. 6 Sq.mm. (green colour for earth) PVC insulated copper wire in MS conduit for 10 KVA UPS or as per site requirement.	RM	25		
iii)	With 2 nos. 10 Sq.mm + 1 no. 6 Sq.mm. (green colour for earth) PVC insulated copper wire in MS conduit from 10 KVA UPS to UPS DB or as per site requirement.	RM	20		

Sl.No.	Description	UOM	Qty.	Rate (Rs.) (Exclusive of GST on work contract)	Amount (Rs.) (Exclusive of GST on work contract)
iv)	With 2 nos. 4 Sq.mm + 1 no. 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire in MS conduit or as per site requirement.	RM	50		
v)	With 2 nos. 2.5 Sq.mm + 1 no. 1.5 Sq.mm. (green colour for earth) PVC insulated copper wire in MS conduit as per site requirement.	RM	50		
vi)	With 2 nos. 1.5 Sq.mm + 1 no. 1.5 Sq.mm. (green colour for earth) PVC insulated copper wire in MS conduit as per site requirement.	RM	225		
vii)	With 4 nos. 6 Sq.mm + 1 no. 6 Sq.mm. (green colour for earth) PVC insulated copper wire in MS conduit or as per site requirement.	RM	50		
4	SITC of following VTPN MCCB Distribution Board (HVAC DB), having vertical fishbone busbar type, factory assembled wall mounted, sheet metal fabricated, fully powder coated, having dust proof & vermin proof hinged door with all internals such as DIN channels, neutral link, internal wiring complete with double earthing lugs including DB wiring dressing with ferruling, termination of circuits with ping type copper lugs, etc. housing following switchgears. ( ABB/ Legrand / Siemens / L&T make)				
i)	Incoming:1 no 415V ,4P,63A MCCB,25/36KA rating(L&T/ABB/SIEMENS ) outgoing:- 8 nos 40A SP MCB(10KA), FOR RPDB/LDB etc	No.s	1		
5	RAVV POWER DB/ LIGHT DB / COMPUTER DB/UPSDB <b>(ABB/L&amp;T/LEGRAND/SEIMENS)</b> Supply and installation of following metallic double door MCB Distribution Board with MCB having breaking capacity of 10 KA (minimum) complete with busbar, interconnection, painting, mounted on flat iron frame on wall/flushed with finished wall by chase cutting, mending good to original finish painting etc. as required. Name plate & number of DBs are to be fixed up on front door of DBs for their identification. (position as per drawing or as advised by Architect/E-I-C.				
a	CDB : Consumer unit SPN MCB DB complete with busbar and the following MCBs. INCOMING : 1 No. 240V 40A (10KA) DP RCBO(30mA-100mA), OUTGOING : 8 Nos. 240V 10A (10 KA) SP MCB	No.	3		
b	LDB : Consumer unit SPN MCB DB complete with busbar and the following MCBs. INCOMING : 1 No. 415V 40A (10KA) DP MCB OUTGOING : 8 Nos. 240V 10A (10 KA) SP MCB	No.	3		
c	UPS Essential DB for CCTV, Fire Alarm Etc: Consumer unit SPN MCB DB complete with busbar and the following MCBs. INCOMING : 1 No. 240V 40A (10KA) DP RCBO OUTGOING : 6 Nos. 240V 10A (10 KA) SP MCB	No.	1		
d	RPDB :Consumer unit SPN MCB DB complete with busbar and the following MCBs. INCOMING : 1 No. 415V 40A (10KA) DP MCB OUTGOING : 8 Nos. 240V 10A-16A (10 KA) SP MCB	No.	3		
e	DB FOR AC INDOOR UNITS : 1 NO 32A DP RCBO(300mA); OUTGOING : 12 Nos. 240V 6A (10 KA) SP MCB(10KA)	No.	2		
f	SITC of Double Door DB with 40A 4POLE(300mA) RCBO complete in all respects as per direction of Architect/E-I-C.	No.	2		
g	UPS OUTGOING DB for UPS ROOM : Supply of all required materials and fixing of output UPS box (Company made) having provision of the following arrangement complete with all respects as per the direction of engineer in charge. : With 4 no. 63 A DP MCB(10 KA)	NO	1		
h	B) UPS OUTGOING SUBMAIN DB for UPS : Supply of all required materials and fixing of output UPS box (Company made) having provision of the following arrangement complete with all respects as per the direction of engineer in charge. Incoming: 1 no. 63 A DP MCB Outgoing: 5 No. 40A (10KA) DP MCB	NO	2		
i	DB with 25 A DP RCCB (30mA to 100 mA), AC Socket & Top for AC complete in all respect	No.s	2		
	<b>POWER CABLES</b>				

Sl.No.	Description	UOM	Qty.	Rate (Rs.) (Exclusive of GST on work contract)	Amount (Rs.) (Exclusive of GST on work contract)
6	SUPPLY, LAYING, LUGGING, DRESSING, GLANDING, FINISHING, TESTING AND COMMISSIONING OF POWER CABLE: Following 1.1KV grade fire resistant A2XFY XLPE armored aluminium conductor cable with one no. 10 SWG GI wire, laying of the cable partly on wall/column including supply and fixing with 300mm apart MS clamps/galvanized bar saddles and double compression type brass cable gland Dowel make along with rubber rings for dust and moisture proof entry of the cable and finishing the ends by crimping method. <b>(POLYCAB/FINOLEX/NICCO/UNIVERSAL)</b>				
6.1	SITC of 3.5CX 70 SQMM cable incoming cable	Mtr	50		
6.2	SITC of 3.5CX 50 SQMM cable incoming cable for UPS panel	Mtr	50		
6.3	SITC of 3.5CX 35 SQMM cable incoming cable for Raw Power VTPN	Mtr	60		
7	SUPPLY, LAYING, LUGGING, DRESSING, GLANDING, FINISHING, TESTING AND COMMISSIONING OF FOLLOWING COPPER(cu conductor, 4core XLPE insulated armoured cable) POWER CABLE				
7.1	SITC of 4CX 06 SQMM cable for VRF Outdoor unit	Mtr	65		
7.2	SITC of 4CX 10 SQMM cable VRF Outdoor unit	Mtr	65		
8	<b>COMPUTER SOCKET WITH WIRING</b>				
	(A) COMPUTER SOCKET OUTLET WITH WIRING Computer socket outlet cluster point including supply and fixing of modular type socket outlet clusters components and its wiring from CDB, complete in all respect as detailed below. Each computer socket outlet cluster comprising the following 5 Nos. 6/16A 5 pin modular type International sockets 1 No. 16A modular type common controlling switch with indicator on table top with 2 Nos. 2.5 Sq.mm. + 1 x 1.5 Sq.mm.FRLS (green colour for earth) PVC insulated copper wire in (as per ISI) M.S. conduit , with chiseling, cutting floor, tiles ,fillin gthe same, painting etc. as required to be completed in all respect from CDB to Computer point. <b>(LEGRAND(MYRIUS)/NORTHWEST(STYLUS)/ABB(TVISHA)/HAVELLS(CRABTREE)/EQUIVALENT AS APPROVED BY ARCHITECT/E-I-C.</b>	No.	24		
	(B) COMPUTER SOCKET OUTLET AND ITS WIRING Computer socket outlet cluster point including supply and fixing of modular type socket outlet clusters components complete in all respect as detailed below. Each computer socket outlet cluster comprising the following 3 Nos. 6/16A 5 pin modular type International sockets 1 No. 16A modular type common controlling switch with indicator on table top with 2 Nos. 2.5 Sq.mm. + 1 x 1.5 Sq.mm. PVC insulated copper wire (1.1 KV grade FRLS/FR-LSH) in pre - laid (as per ISI) M.S. conduit including interconnection, with chiseling, cutting floor, tiles ,painting etc.. as required to be completed in all respect from CDB to Computer point. (proper colour code must be followed)	No.	4		
	C ) UPS/ RAW POWER SOCKET OUTLET AND ITS WIRING Raw power socket outlet cluster point including supply and fixing of modular type socket outlet clusters components AND WIRING 1100V grade, FRLS complete in all respect as detailed below. Each computer socket outlet cluster comprising the following 2 Nos. 6A/16A 5 pin modular type International sockets. 1 No. 16/20A modular type controlling switch with 2 Nos. 2.5 Sq.mm. + 1 x 1.5 Sq.mm. (green colour for earth) PVC insulated copper wire in (as per ISI) M.S. conduit including interconnection, chiseling, cutting floor, tiles ,painting etc. as required to be completed in all respect from RPDB to Raw Power Outlet. Proper colour code must be followed.	No.	26		
	D ) UPS / RAW POWER SOCKET OUTLET AND ITS WIRING Raw power socket outlet cluster point including supply and fixing of modular type socket outlet clusters components AND WIRING 1100V grade, FRLS complete in all respect as detailed below. Each computer socket outlet cluster comprising the following 1 Nos. 6A/16A 5 pin modular type International sockets with indicator 1 No. 16/20A modular type controlling switch with 2 Nos. 2.5 Sq.mm. + 1 x 1.5 Sq.mm. (green colour for earth) PVC insulated copper wire in pre - laid (as per ISI) M.S. conduit including interconnection, painting etc. as required to be completed in all respect from RPDB to Raw Power Outlet. Proper colour code must be followed.	No.	4		

Sl.No.	Description	UOM	Qty.	Rate (Rs.) (Exclusive of GST on work contract)	Amount (Rs.) (Exclusive of GST on work contract)
9	<p>. SITC of OBO Betterman/PHOENIX/DHEN make earthing system – * - UL Listed Earth Electrode - Copper bonded low carbon steel electrode, coating 250 microns</p> <p>- Tested as per IEC 62561-2</p> <p>- Meets the requirement of IS 3043 and IEC 60364-5-54</p> <p>- Tested for short circuit withstanding capacity</p> <p>- High tensile strength</p> <p>In one set it should include:</p> <p>a) One nos of Earthing rod-Type 17 3000 CCER, Length – 3000 mm</p> <p>Outer Dia – 17.2 mm Copper bonded low carbon steel Electrode WITH 250 microns copper bonded</p> <p>b) One bag (25 KG) Earth Enhancement Compound confirming to IEC 62561-7</p> <p>c) One nos of universal clamp .The work shall also include required masonry work, CI cover plate &amp; Earthing name plate. The vendor shall also submit the earth test report with required values. Pics of earthing to be shown. <b>(one Earthing for VRF outdoor unit)</b></p>	No.	3		
10	SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel and UPS, comprising of a bus bar of 3x25x180mm cu strip(one to be provided near VRF outdoor)	SET	3		
11	Supply and laying of 8 SWG Cu cotton coated wire in 20mm dia rigid PVC conduit for earthing From the existing earth pit to the Main panel/UPS	Mtr.	100		
12	<p>POINT WIRING AND CIRCUIT WIRING</p> <p>Point wiring with FRLS 1100 V grade 3 nos. single core 1.5 sq.mm. and 1 for common earth by looping method) PVC insulated stranded copper conductor wire (IS:694) through suitable size M.S. conduit (ISI marked embossed on conduit surface) by thred cutting, complete with junction box, circular box, elbows, bends, couplers and other accessories on surface above false ceiling or concealed by chase cutting on wall from light &amp; fan switch board to light, fan &amp; 6A socket outlet on the same switch board or separately mounted switch board. The work includes supply and fixing of all materials such as modular type 6A switch for light and fan point, 6A 2/3 pin shuttered socket outlet with switch in each switch board, 3 plate ceiling rose / angle or batten holder etc. as required. The point wiring also includes circuit wiring with FRLS 1100 V grade 2 nos. single core 2.5 sq.mm. + 1 no. single core 1.5 sq.mm. PVC insulated stranded copper conductor cable (IS:694) through suitable size M.S. conduit as described above from DB to switch board, interconnection, mending good all damages to original finish, painting etc.</p>				

Sl.No.	Description	UOM	Qty.	Rate (Rs.) (Exclusive of GST on work contract)	Amount (Rs.) (Exclusive of GST on work contract)
a	Light points	No.	140		
c	UPS light point	No.	15		
d	Glow sign board wiring	No.	1		
e	Exhaust fan point	No.	5		
f	Ceiling fan point with supply and fixing of Electronic Regulator as required as per site conditions.	No.	3		
g	1x16A 2/3 pin modular socket with switch on separate switch board outside the Cash Room complete with wiring. Suitable Top to be provided for supply to Cash Room. /RECORD ROOM/STATIONERY ROOM	No.	2		
h	Wall fan point with socket	No.	20		
i	3 pin 6/10A modular socket with switch in board	No.	10		
13	Supply and fixing of ding-dong calling bell with complete wiring in BM's Chamber as per direction of E-I-C	No.	2		
	<b>PART B-SUPPLY AND FITTING OF ELECTRICAL FITTINGS</b>				

Sl.No.	Description	UOM	Qty.	Rate (Rs.) (Exclusive of GST on work contract)	Amount (Rs.) (Exclusive of GST on work contract)
14	Supply & Fixing of 36W-2'x2' LED Panel light recessed mounted make complete with all accessories. (PHILIPS/HAVELLS/WIPRO/CROMPTON)	No.	40		
15	Supply & Fixing of 12W/15W LED Downlighter recessed mounted of make complete with all accessories	No.	60		
16	Supply & fixing of 20W/22W LED T5 Batten fitting complete with all respect.	No.	5		
17	Supply & Fixing of 18 W LED Downlighter Surface mounted of make complete with all accessories	No.	10		
	<b>LED STRIP FOR COVE IN CEILING.COLUMN.FRONT OF TABLE OR COUNTER FACIA AS PER DETAIL OR MENTIONED</b>				
18	Supply & Installation of single color (warm white / any other approved color) flexible LED strip light for cove including required rated driver / power supply, consisting multiples of 72 LED /1 Rmtr as approved along with all necessary hardware & accessories, etc. Complete in all respect. MAKE PHILIPS OR HAVELLS OR WIPRO and model as approved by Architect/E-I-C.(lumens>=500lm/mtr) Product dimensions	Rmt	125		
	<b>Artificial light for highlights on column or beam as per design area</b>				
19	SITC of LED 7W Spot light with driver cut out size 46mm size fixture recessed type ROUND COB in gypsum / wooden ceiling cove with all interconnection and fixing arrangements as Required. WARM COLOUR OR MODEL AS PER INSTRUCTED & APPROVED BY BANK ARCHITECT/ ENGINEER (PHILIPS/HAVELLS/WIPRO)	No.	14		
20	Supply & fixing of 10 W drum SPOT light model as per approved by Architect/E-I-C. IN GALLERY				
21	Supply & fixing of 10 W drum shape track light black/white fixed in track model no 31445 philips make as per approved by Architect/E-I-C.	No.	26		
22	Supply & fixing of 450mm sweep, oscillating type, wall mounting, multi speed wall fan metal blades three pin complete with all respect as per direction of Bank/E-I-C.	No.	15		
23	SITC of 1200MM ceiling fan	No.	3		
24	SITC of 9" dia 230V,1400 rpm exhaust fan as in toilets, ups room, toilets etc.	No.	5		
	<b>PART C- LAN CABLING WORK</b>				
25	Supply of 1 mtr. Long E-CAT 6 PATCH CHORD	No.	25		
26	Supply of 2 mtr. Long E-CAT 6 PATCH CHORD (Make: D-LINK, AMP, HCL, Legrand)	No.	25		
27	INTERNET SOCKET: SITC of modular RJ-45 internet sockets with suitable mounting box (modular type) including all inter-connections as required with front plate D link or equivalent make approved by the bank connections etc as required all complete job as per the standard specification and direction of the bank .	No.	48		
28	SITC OF 24 PORT PATCH PANEL complete in all respect as per direction of Architect/E-I-C.	No.	2		
29	DATA CABLING: Supply and wiring of CAT6 DATA cable(D-LINK) wiring in recessed surface/ recessed PVC conduit pipe connection etc as required all complete job as per the standard specification and direction of the Architect/E-I-C.	Mtr.	1920		
30	Supply & installation of 9U Rack(D-LINK) with power supply arrangement, ventilation fan , mounting racks ect. Complete with all accessories.	No.	1		
31	Charges for making and submitting neat and clean computerised Electrical Drawing of the Branch indicating SLD of the Branch, indicating DB, switch boards, etc along with proper numbering and indicating power flow and laminating the same.	SET	1		
32	Charges for making and submitting neat and clean computerised lan WIRING Drawing of the Branch indicating Data Rack , lan wiring to different I/O boxes etc along with proper numbering and laminating the same..	SET	1		
33	Dismantling of Existing wiring, Distribution Boards, Panels complete in all respects as per direction of Architect/E-I-C.	JOB	1		
34	ONLOAD CHANGE OVER SWITCH: SITC of 1 no. 415V, 63A, 2P with on indication on load Change over switch with suitable enclosure. Complete with all respect.	No	2		
	<b>PROVIDING AND FIXING TRACK FOR SPOT LIGHT</b>				
35	Supply and fitting track 1.0 mts black/white philips make or equivalent or as per approved by Architect/E-I-C. (PHILIPS/HAVELLS/WIPRO)	Rmt	15		
		<b>Grand Total (in Rs)</b>			
	<b>GST on work contract will be extra as applicable.</b>	<b>Grand Total (in Rs)</b>			

Sl.No.	Description	UOM	Qty.	Rate (Rs.) (Exclusive of GST on work contract)	Amount (Rs.) (Exclusive of GST on work contract)
<b>NOTE:</b>	The rate quoted shall be firm and shall include all costs, allowances, Charges, levies, Royalties, Cess, transportation etc. but excluding GST as applicable which will be reimbursed by the Bank as per Government norms prevailing from time to time. Contractor's are advised to visit the site before quoting. The quantities are tentative may increase or decrease as per site requirement.				
<b>RECOMMENDED MANUFACTURERS</b>					
Cables- (POLYCAB/FINOLEX/NICCO/UNIVERSAL)					
WIRES – (POLYCAB/KEI/FINOLEX/HAVELLS)					
DB/MCCB/MCB/RCBO/ELCB- LEGRAND/ABB/L&T/SEIMENS					
CHANGE-OVER-SWITCH – HPL /SOCOMEK/ABB/L&T					
SWITCHES/sockets/REGULATOR- LEGRAND(MYRIUS)/NORTHWEST(STYLUS)/ABB(TVISHA)/HAVELLS(CRABTREE)					
METAL CLAD SOCKET & PLUG- L&T/LEGRAND/ABB/C&S					
MEASURING INSTRUMENTS- AE/ IMP/ L&T/ GE/ TELEMECANIQUE/ PROK/EQUIVALENT					
LED LIGHTS – PHILIPS/HAVELLS/CROMPTON/WIPRO					
CEILING FAN/WALL FAN/EXHAUST FAN- CROMPTON/HAVELLS/ALMONARD/USHA/POLAR					
EXHAUST FAN - CROMPTON/ BAJAJ/ALSTOM/ALMONARD/GOLD MEDAL/HAVELLS					
Conduit					
MS- BEC/ NIC/ AKG/ BHARAT/ JINDAL					
PVC RIGID - BEC/ AKG/ PRECISION/Equivalent					