

**Schedule of Quantities for Electrical, Fire alarm, IT and AC work for modernzation of BO -
Jhumritelliya under DO- Hazaribagh**

Item No.	Description of work	Qty.	Unit	Rate(Rs.)	Amount (Rs.)
1	TELEPHONE NETWORK				
1.01	Supply and laying of 2 pair 0.5 sq.mm dia, FRLS PVC insulated annealed copper conductor unarmoured telephone cable in the existing surface/recessed steel/FRLS PVC Conduit as required in the floor, partition / wall etc.	100	Rm	33.00	3300.00
1.02	Supply & installation of following pair MDF BOX with required pair KRONE with lock & key arrangement fabricated from the MS sheet with powder coat to be fixed in concealed manner including making good the damages.				
a	10 pair	2	No	387.00	774.00
1.03	Supply and fixing of Telephone box suitable for RJ 11 terminals including mounting box and top cover, to be fixed in concealed manner in partition by providing & fixing on channels with necessary bolts & nuts Or as directed at site.	10	No.	310.00	3100.00
1.04	Same as above but dual type.	1	No.	345.00	345.00
1.05	Supply and laying of 2 pair 0.5 sq.mm dia, FRLS PVC insulated annealed copper conductor unarmoured telephone cable in the suitable FRLS PVC Conduit as required at site alongwith supply & fixing of RJ-11 Terminal ,Mounting box,Top Cover,face plate etc & carrying out necessary saddling & fixing the same & tagging as required & as advised by engineer-in charge in the floor, partition / wall etc.				
(a)	Single Jack.	20	Pts.	335.00	6700.00
(b)	Double Jack.	1	Pt.	347.00	347.00
	SUB-TOTAL (TELEPHONE NETWORK)				14566.00
2	DATA NETWORK				
2.01	Supply and fixing of information out let box suitable for RJ 45 terminals including mounting box (MS / PVC) and top cover, to be fixed in concealed manner in partition by necessary bolts & nuts. Or as directed at site ('D' Link make)	10	No	466.00	4660.00
2.02	Supply & installation of 24 port, 19 inch PATCH PANNEL suitable for rack mounting (D Link make)	4	No	3883.00	15532.00
2.03	Installation& commissioning of managed Data Switches suitable for rack mounting supplied by LICI.	3	No	705.00	2115.00
2.04	Supply and laying of ECAT 6 UTP Cable for the data circuit through the FRLS PVC conduit.Rate to include termination on either end or as directed. ('D' Link make)	100	RM	35.00	3500.00
2.05	Supply of 2mtr long (cat-6)factory made PATCH CORD Original (Locally made patch cords shall not be accepted) ('D' Link make)	60	No	270.00	16200.00
2.06	Supply of 1 mtr long(cat-6) factory made PATCH CORD Original (Locally made patch cords shall not be accepted) ('D' Link make)	60	No	252.00	15120.00
2.07	Supply and Installation of 19", 9U (WALL MOUNTING TYPE) MODEM RACK with following accessories.	3	Set	8329.00	24987.00

Item No.	Description of work	Qty.	Unit	Rate(Rs.)	Amount (Rs.)
	1. 230 V, AC Distribution box with 6 nos of 5 A socket out lets – 1 No.				
	2. Cable manager – 2 Nos				
	3. Cantilever shelf – 2 Nos				
	4. Single fan module – 1 set				
	5. Mounting kit – 1 Packet				
2.08	Dismantling & re-installation with grouting etc of 12 U/ 9U /6U Rack as directed including making good the damages.	0	Set	846.00	0.00
2.09	S/L OF DATA POINT:- Supply and laying of E CAT 6 data cable and RJ-45 terminal along with top box and face plate all in modular in suitable Medium Class PVC FRLS conduit / race way as the case may be laid earlier in partition / wall etc as required at site and carrying out the necessary saddling and fixing and tagging as required and as advised by engineer in charge.				
a	Single Jack	60		1342.00	80520.00
b	Double Jack	1		1426.00	1426.00
2.10	Charges for Testing & Commissioning of the structured cabling system including dismantling of existing Patchcords (1 mtr & 2 mtr) & refixing the same patch cords as directed.	60	Pt.	59.00	3540.00
	SUB-TOTAL ((DATA NETWORKING)				167600.00
3	UPS POINT WIRING ALONG WITH ITS ANCILLARIES				
3.01	PRIMARY UPS POINT:- Supply & Installation of a primary UPS point consisting and supplying of a set of 3 No 10 Amps. 5 Pin modular multi socket & 3 No of 10 Amp. Modular Switch including suitable depth modular type PVC recessed type / surface type switch box & modular range faceplate & inner cover of same make to be concealed in partition / wall/work station etc including all connections & earthing with electrical wiring with 3 x 2.5 sqmm PVC insulated multi core round insulated FRLS flexible cables in rigid FRLS PVC conduit pipe (Medium classe) of suitable size/ PVC cable tray as required . (for UPS power on work stations & tables)	40	Pt.	2430.00	97200.00
3.02	SECONDARY UPS LOOPING POINT:- Supply & Installation of secondary UPS looping point consisting and supplying of of a set of 3 No 10 Amps. 5 Pin modular multi socket & 3 No of 10 Amp. Modular Switch including suitable depth modular type PVC recessed type / surface type switch box & modular range faceplate & inner cover of same make to be concealed in partition / wall/work station etc including all connections & earthing with electrical wiring with 3 x 1.5 sqmm PVC insulated multi core round insulated FRLS flexible cables and rigid FRLS PVC conduit pipe (medium class) of suitable size . This secondary point has to be looped from the Primary point as per item 3.01 (for UPS power on work stations & tables) maximum 3 pointms can be looped in one corcuit.	20	Pt.	1814.00	36280.00

Item No.	Description of work	Qty.	Unit	Rate(Rs.)	Amount (Rs.)
3.03	POWER POINT:- Supply & Installation of a power point consisting and supplying of a set of 1 No 20 Amps snap switch and 3 nos 20 amp 6 Pin modular multi socket including suitable depth modular type PVC recessed type / surface type switch box & modular range faceplate & inner cover of same make to be concealed in partition / wall/work station etc including all connections & earthing with electrical wiring with 3 x 2.5 sqmm PVC insulated multi core round insulated FRLS flexible cables and rigid FRLS PVC conduit pipe (heavy gauge) of suitable size as per requirement. (for UPS power TO MODEM RACK,CURRENCY COUNTING MACHINES etc)	4	No	1943.00	19430.00
3.04	POWER POINT:- Supply & Installation of a point consisting and supplying of a set of 1 No 20 Amps snap switch and 1 nos 20 amp 6 Pin modular multi socket including suitable depth modular type PVC recessed type / surface type switch box & modular range faceplate & inner cover of same make to be concealed in partition / wall/work station etc including all connections & earthing with electrical wiring with 3 x 2.5 sqmm PVC insulated multi core round insulated FRLS flexible cables and rigid FRLS PVC conduit pipe (heavy gauge) of suitable size .	10	Pt.	1772.00	17720.00
	SUB-TOTAL (UPS POINT WIRING ALONG WITH ITS ANCILLARIES)				170630.00
4	CONDUIT & RACEWAYS				
4.01	Supply and laying of following size rigid PVC conduit pipe (Medium Class) through floor / wall / partition with GI spacer clamps including all accessories – bends, sockets T's etc. or as directed. Rate to include for cutting of walls/Floors including making good the damages i.e for filling and finishing the same with cement mortar.				
(a)	32mm dia	30	Rm	161.00	4830.00
(b)	25 mm dia	40	Rm	127.00	5080.00
(c)	20mm dia	50	Rm	112.00	5600.00
4.02	Supply & Fixing of following size PVC casing & Capping on the surface of wall / partition, including accessories				
	(a) 20 x 12mm	10	Rm	28.00	280.00
	(b) 25 x 12mm	10	Rm	33.00	330.00
	(c) 32 x 12mm	10	Rm	42.00	420.00
4.03	Supplying & fixing of following size MS Junction box (16SWG) with STAINLESS STEEL plate cover shall be provided flush with the floor / floor tiles or as directed. Rate to include for cutting the floor and making good the damages.				
(a)	250 x 200 x 50mm	5	No	610.00	3050.00
(b)	200 x 150 x 50mm	5	No	493.00	2465.00
(c)	150 x 100 x 50 mm	5	No	434.00	2170.00
(d)	100 x 100 x 50 mm	5	No	329.00	1645.00
4.04	Supply & laying of 100mm x 100mm size PVC cable tray on the surface of the wall.	10	Rm	164.00	1640.00
4.05	Doing cutting of floor tile / wall to lay and conceal the cables/ conduits as directed. Rate to include for filling and finishing the same with cement mortar.				

Item No.	Description of work	Qty.	Unit	Rate(Rs.)	Amount (Rs.)
(a)	1.5" width cutting	10	RM	100.00	1000.00
(b)	2.5" width cutting	15	RM	140.00	2100.00
(c)	3" width cutting	10	RM	160.00	1600.00
4.06	Supply & laying of ¾ " size PVC flexible conduit	20	Rm	25.00	500.00
4.07	SITC OF RACE WAY :-Supplying and installing following size aluminimum race way for laying data , ups andtelephone cables as required including cutting of floor and making the damage to original finish.				
(a)	100x30x1.6 mm	10	RM	325.00	3250.00
4.08	SITC of Cu. Wire ;--Supply & drawing of following size FRLS insulated copper conductor single core cable in the existing surface/recess steel/FR PVC Conduit as required.				
(a)	3x1.5 sqmm	30	RM	83.00	2490.00
(b)	3x2.5 sqmm	20	RM	120.00	2400.00
(c)	3x4 sqmm	40	RM	181.00	7240.00
SUB-TOTAL (CONDUIT & RACE WAYS)					48090.00
5	FITTINGS & FIXTURES				
	N.B :--supply & laying 3 core 1.5 sq.mm pvc insulated & pvc sheathed multi core copper conductor,round flexible cable as lead wire for light fittings from the existing ceiling roses to Light fittings for below mentioned item no-5.01 which is inclusive of cost of fittings.				
5.01	36 WATT LED 2 X 2 FT FITTINGS :-Supply,installation,testing and commissioning of LED recessed fittings Of 36 watt(3600 Lumens or more) system power suitable for 2 x 2 tile of armstrong/grid/pop ceiling with stainless steel chain to suuport ceiling complete with separate electronic driver . The fitting will provide glare free illumination with longer life and less maintenance. The model number of PHILIPS make(Model No-RC 380B LED 36S -6500 G6 L60 W60 PSU OD) or its equivalent make in CROMPTON and WIPRO etc.	65	No	2422.00	157430.00
	The samples are to be got approved by LIC before installaing the same.				
	N.B :--supply & laying 3 core 1 sq.mm pvc insulated & pvc sheathed multi core copper conductor,round flexible cable as lead wire for light fittings from the existing ceiling roses to Light fittings for below mentioned item no-5.02 which is inclusive of cost of fittings.				
5.02	LED down light :-Supply,installation,testing and commissioning of LED round recessed down ligher of 12 to 15 Watt (1200 Lumen or more)suitable for armstrong/grid/pop ceiling with separate electronic driver . The fitting will provide glare free illumination with longer life and less maintenance. The model number of PHILIPS make(Model No-DN 172 12.5 S LED DL G2(CDL) or its equivalent make in CROMPTON and WIPRO etc.	40	No	804.00	32160.00
	The samples are to be got approved by LIC before installaing the same.				

Item No.	Description of work	Qty.	Unit	Rate(Rs.)	Amount (Rs.)
	Surface LED Round light :--Supply,installation,testing and commissioning of LED round Ceiling light of 18 Watt with 3 core 1.5 sqmm Round cable from ceiling Rose (1800 Lumen or more)suitable for ceiling with separate electronic driver . The fitting will provide glare free illumination with longer life and less maintenance. The model number of CROMPTON make(Model No-LCDSPLN-S-18- CDL) or its equivalent make in PHILIPS / WIPRO .	2	No	1835.00	3670.00
5.03	Supply & Installation of 400mm sweep wall mounted fans(Oscillation type) of with metal blade on the wall / column by suitable size steel expansion fastener with pull cord for speed regulation & all necessary accessories.	25	No	3200.00	80000.00
5.04	Supply & installation of decorative basin light LED fittings of 5 Watt(Slimeline) with all necessary connections.(on the wash basins)	5	No	625.00	3125.00
5.05	Supply & installation of decorative false ceiling down LED fittings of 5 watt or more with all necessary connections with 2 core 1.0 sqmm round copper cable	2	No.	430.00	860.00
5.06	Supply,erection,testing & commissioning of 4 ft 22 Watt to 28 Watt LED light fitting with Round Blocks & necessary connections etc. The model number of PHILIPS make(Model No-BN021 LED 22S PSU CW GR) or its equivalent make in CROMPTON and WIPRO etc	5	No	1201.00	6005.00
5.07	Supply & installation of 225 mm Exhaust Fan(Heavy duty) on the existing circular openings with modification (if required) with Aluminium louvers and all necessary connections etc.	3	No	2406.00	7218.00
5.08	Supply, erection,testing,and commissioning of 1200mm (48") sweep brown colour BEE 5 star rating ceiling fan with condenser, double ball bearing,300 mm down rod,canopies,sackles etc but without speed regulator, suitable for operation with 230/240 volt, 50 Hz AC supply of approved make including all connections complete in all respect.	3	No	1610.00	4830.00
	SUB-TOTAL (FITTINGS & FIXTURES)				295298.00
6	FIRE ALARM SYSTEM				
	N.B:--Prior to commencement of work the Firm is required to prepare the Lay-out for the Fire Alarm System as per the Modernization drawing and submit to LICl for approval.				
6.01	Supply, erection, jointing, testing and commissioning of Optical type Detector complete with base having blinking facility.	60	No	1011.00	60660.00
6.02	Supply, erection, jointing, testing and commissioning of Heat Detector	2	No	939.00	1878.00
6.03	Supply, erection, jointing, testing and commissioning of LED Indication type response indicator.	12	No	172.00	2064.00
6.04	Supply, erection, jointing, testing and commissioning of electronic type hooter cum warning lamp	3	No	488.00	1464.00

Item No.	Description of work	Qty.	Unit	Rate(Rs.)	Amount (Rs.)
6.05	Supply, erection, jointing, testing and commissioning of Manual Call point.	3	No	416.00	1248.00
6.06	SITC OF FIRE ALARM PANNEL:- Supply,installation,testing and commissioning of Sector panel suitable for following zones, complete with visual indications for short cicuit fault,fire condition & all other standard facilities as per IS:2189 with mimic diagram for all area/zone covered complte with all connections,interconnections as required. (4 zone)	1	No	10678.00	10678.00
6.07	Removing & Re-fixing of existing 4 Zone Control Panel (Concealed/surface)as directed if found suitable.	1	Job	750.00	750.00
6.07	Supply and laying of 2 core 1.5 Sqmm PVC insulated armoured Copper cable – with necessary saddles with spacers, to be installed on surface of wall or ceiling. Rate is inclusive of chase cutting & concealing as directed at site (measurement of the cable is to be ensured prior to erection of false ceiling).	300	Rm	152.00	45600.00
SUB-TOTAL (FIRE ALARM SYSTEM)					124342.00
7	LT PANEL & ELECTRICAL INSTALLATION WORKS				
	ELECTRICAL CUBICLE PANNEL FOR AC				
	All interconnections & connection between switch gears shall be adequate capacity PVC insulated flexible copper conductor wires by socketing methods.The incoming & outgoing connections of the MCCBs of capacity 320 Amps & above are to be made by providing suitable size copper flats as extension to the spreader links of the MCCB.All MCCBs are to be of Thermal Magnetic Release type.				
7.01	Supply , installation,testing & commissioning of Cubicle Panel board made out of 16 gauge CRCA sheet steel enclosure, floor mounting type / wall mounting type of suitable size, duly painted with two coat of grey enamel paint over a coat of primer. Consisting of compartments, for switches, bus bars etc. with slotted hinged doors, din rails, copper earth strip cable entry box, gland plate at top and bottom, inter – connections by means of suitable size, 1100v grade PVC insulated copper conductors using lugs, bolts, nuts, etc., complete and consisting of the following : The panel board should be suitably designed for formation of Incoming Cables, out going cables, wires etc., with suitable cable chamber box etc. The incoming & out going connections of the MCCBs of capacity 320Amps & above are to be made by providing suitable size copper flats as extension to the spreader links of the MCCBs. All MCCBs are to be of Thermal Magnetic Release type. All inter connection , out going connection are to be properly socketed by crimping method .(DRAWING & PANNEL SHOULD BE GOT APPROVED BY LICI PRIOR TO FABRICATION.) The panel board should consist of the following of the followings :-	1	Set	122867.00	122867.00
(a)	200 Amp,36kA,FP,MCCB :- 1 No (as incomer)				

Item No.	Description of work	Qty.	Unit	Rate(Rs.)	Amount (Rs.)
(b)	Bus bars of size 50mm x 6mm of 750 mm length (4 nos tinned copper flats) fixed on porcelain insulators and duly colour coded for three phases and neutral – 2 set.				
(c)	Out goings:				
(i)	160 Amp,36kA,FP,MCCB:- 1 no,160 A Change over switch				
(ii)	100 Amps,FP MCCB,25kA:-4 Nos,				
(iii)	32 Amp DP MCB-08 Nos.				
(iv)	125 A 4 POLE 25KA MCCB- 3 NOS				
	All the above MCCBs are Thermal Magnetic & O/L & S/C protection type.				
(d)	The cubicle should be provided with a Digital voltmeter (0-500V) and ammeter (0-200A) with phase suitable selector switch and suitable capacity CT-1 No & heavy-duty LED indicator lamps set for the phases(R ,Y,B) for State Board supply.				
7.02	Display of final duly laminated electrical line diagrams of individual BO building in meter rooms with supply & fixing on hard board & a frame of suitable size A-2 including supplying extra two – two copies each to LIC.	1	Job.	3500.00	3500.00
7.03	supply & fixing of following size XLPE insulated aluminium conductotr armoured cable 1100 volt grade along with 2 runs of GI wire as earth wire as mentioned against each item on the surface of the wall or underground as the case may be with the help of GI saddles on the surface of the wall or ceiling with spacers including termination on either end with required size of aluminium sockets .Rate is inclusive of suitable size cable glands etc.				
(a)	3.5 Core 120 sq mm.+ 2 x 8 SWG, GI wire as continuous earth from Sub-station Feeder Panel to Main LT Panel.	50	RM	1091.00	54550.00
b)	3.5 Core 70 sq mm.+ 2 x 12 SWG, GI wire as continuous earth	25	RM	496.00	12400.00
(c)	3.5 Core 35 sq mm.+ 2 x 12 SWG, GI wire as continuous earth(IT Room TP DB & AC Vertical DB)	25	Rm	449.00	11225.00
(d)	3.5 Core 25 sq mm.+ 2 x 12 SWG, GI wire as continuous earth.	10	RM	390.00	3900.00
7.04	Laying of one number PVC insulated & PVC Sheathed /XLPE power cable of 1.1 KV grade of following size direct in ground including excavation ,sand cushioning,protective covering by Brick three side & refill the trench etc as directed. (Above 95 sqmm & upto 185 sqmm)	25	RM	370.00	9250.00
7.05	P:C:C Pavement cutting in any thickness including disposal of Debris (500 mtr away)	1.5	CUM	941.00	1411.50
7.06	Providing B Class GI Pipe of 75 mm including T joints ,Bends etc.	10	RM	980.00	9800.00

Item No.	Description of work	Qty.	Unit	Rate(Rs.)	Amount (Rs.)
7.07	supply & laying of following size XLPE insulated Copper conductotr armoured cable 1100 volt grade along with 2 runs of HDDB wire as earth wire as mentioned against each item on the surface of the wall or underground as the case may be with the help of GI saddles on the surface of the wall or ceiling with spacers including termination on either end with required size of aluminium sockets .Rate is inclusive of suitable size cable glands.				
(a)	4 Core 10 sq mm.Cu.+2 Run of 14 SWG HDDB wire (For AC TP DB)	50.0	Rm	880.00	44000.00
7.08	Supplying and fixing of following way, single pole and neutral, sheet steel, company made MCB distribution board, 240 volts, on surface/ recess/Concealed(as directed), complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
(a)	8 way, Double door .	1	Set	2030.00	2030.00
(b)	12 way, Double door (IT-03 +Light-04)	7	Set	2256.00	15792.00
7.09	Supplying and fixing of following ways horizontal type surface/ recess mounting, 415 volts, company made TPN MCB distribution board , complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
(a)	4 way (4 + 12), Double door	1	Set	3587.00	3587.00
7.10	Supplying and fixing of following ways VERTICAL type surface/ recess mounting/Concealed, 415 volts, company made TPN MCB distribution board of sheet steel,dust protected,duly power painted, inclusive of 200 Amp tinned copper BUS BAR, Common neutral link, earth bar,din bar , interconnections, powder painted including earthing etc. for mounting MCBs(but without MCBs & Incomer) as required.Note : Vertical type MCB TP DB is normally used where three phase outlets are required)				
(a)	4 way (4 + 12), Double door	1	Set	6587.00	6587.00
7.11	Supplying and fixing 5 amps to 32 amps rating, 240 / 415 volts, "C" curve, 10KA miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a	Single pole	56	No	224.00	12544.00
b	Double pole	19	No	575.00	10925.00
c	Triple pole and neutral	4	Nos	1077.00	4308.00
7.12	Supply & installation of following capacity MCB along with factory made enclosure of same make with the folwing configuration:				0.00
(a)	63 Amp FP MCB(C-SERIES)	6	Set	4409.00	26454.00
(b)	32 Amp DP MCB(C-SERIES)	1	Set	3667.00	3667.00

Item No.	Description of work	Qty.	Unit	Rate(Rs.)	Amount (Rs.)
7.13	Removing of existing MS Switch Boxes(Piano Switch Boxes) & Supply , Installation of MS Box in concealed manner with inner cover & face plate of the same make of that switches suitable for modular switches on walls / partitions or as directed at site after dismantling the existing switch boards from the existing locations or as directed for the followings :--				
(a)	1 or 2 Module(75 mm x 75 mm)	0	No	261.00	0.00
(b)	3 Module(100mm x75 mm)	0	No	287.00	0.00
(c)	4 Module(125 mm x75 mm)	0	No	300.00	0.00
(d)	6 Module(200 mm x 75 mm)	0	No	352.00	0.00
(e)	8 Module(125 mm x 125 mm)	0	No	398.00	0.00
(f)	12 Module(200 mm x150 mm)	0	No	480.00	0.00
7.14	Supplying & fixing following Rating Double pole (Single phase & neutral) 240V, Residual current circuit breaker(RCCB) having a sensitivity current 30mA in the existing MCB DB complete with connections,testing & commissioning as required.				
(a)	40 Amp.	4	No.	2795.00	11180.00
7.15	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
(a)	5/6 amps switch	20	Each	90.00	1800.00
(b)	2 Way 5/6 Amp Switch.	2	Each	130.00	260.00
(c)	15/16 amp switch	5	Each	137.00	685.00
(d)	3 pin 5/6A socket outlet	10	Each	107.00	1070.00
(e)	6 pin 15/16 amp socket outlet	4	Each	173.00	692.00
(f)	Bell push	1	Each	123.00	123.00
7.16	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	25	Each	35.00	875.00
7.17	Supplying and fixing stepped type electronic (2 Module) fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	4	Each	324.00	1296.00
7.18	Supplying & fixing of Brass Batten/Angle holder including connection etc.	10	Each	96.00	960.00
7.19	Wiring for group controlled(Looped light) without independent switch with 1.5 sqmm FRLS PVC insulated copper conductor single core cable in surface/recessed PVC conduit & earthing the point with 1.5 sqmm FRLS PVC insulated copper conductor single core cable etc. as required.(5 to 6 LED light of 12 Watt /5 Watt)	8	Pt.	569.00	4552.00
7.20	Supplying & fixing suitable size GI Box with Modular plate & cover on concealed or recess including providing & fixing 25 Amp Modular Socket outlet & 25 Amp Modular SP MCB C Curve including connections painting etc. as required.(For 1.5 Tr AC/ 2.0 Tr)	35	Each	637.00	22295.00
7.21	Supplying & fixing of Call bell/buzzer suitable for single phase 230V Complete as required.	1	Each.	87.00	87.00

Item No.	Description of work	Qty.	Unit	Rate(Rs.)	Amount (Rs.)
7.22	Supplying & fixing 3 pin 5 Amp ceiling rose on the existing junction box/wooden block including connections etc. as required.	10	Each.	76.00	760.00
7.23	Dismantling of existing ceiling fans and handing over to LICl with proper acknowledgement. (Ceiling fans to be dismantled as directed)	0	No	40.00	0.00
7.24	Dismantling of existing exhaust fans and handing over to LICl with proper acknowledgement.	0	No	40.00	0.00
7.25	Dismantling of fluorescent tube light fittings with down rods & tubes as directed at site or handing over to LICl with proper acknowledgement. .	0	No	40.00	0.00
7.26	Refixing of old ceiling fan / Exhaust fan / Tube light fittings in new BO building including servicing & shifting from old BO building.	0	No	150.00	0.00
7.27	Replacement of following switch fuse units & Chage over after dismantling the defective units including all connections cleaning of panel , cutting of cable terminals, socketing etc of Skeleton type existing LT Panel .				
a)	100 Amp.Four Pole 415 Volt Change Over Switch	0	No	10140.00	0.00
b)	63 Amp. TPN SFU with HRC Fuse.	0	Nos	3980.00	0.00
c)	32 Amp. TPN SFU with HRC Fuse.	0	No	2130.00	0.00
d)	32Amp DP SFU with HRC Fuse.	0	No.	1510.00	0.00
7.28	WIRING				
	Wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class FRLS conduit as required				
	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	30.0	RM	810.00	24300.00
	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	300.0	RM	516.00	154800.00
	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	300.0	RM	375.00	112500.00
	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	20.0	RM	324.00	6480.00
	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	20.0	RM	287.00	5740.00
	POINT WIRING				
7.29	Wiring for light point/ fan point/ exhaust fan point/ call bell point (NEW) with 2X 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class FRLS conduit, with modular switch, modular plate, suitable G.I. box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc. as required. Rate include cost of switch, plate etc. and circuit wiring with 3 x 2.5 Sqmm FRLS wire in suitable medium guage FRLS PVC conduit from DB to switch board/ switch board to switch board.	95.0	Pt.	890.00	84550.00
7.30	Providing plug point on switch board including supplying & fixing of 10 Amp, 5 pin modular socket and 10 Amp modular switch of Anchor Roma or its equivalent make as per tender specifications including all connections.	10	No	294.00	2940.00
7.31	Supply and fixing of 12 watt LED Lamp of approved make.	10	No	170.00	1700.00
7.32	Supply & fixing of call bell of approved make including connections.	1	No	120.00	120.00

Item No.	Description of work	Qty.	Unit	Rate(Rs.)	Amount (Rs.)
7.33	Wiring for Wall Fan plug point 2x1.5 sqmm copper wire including Modular Type 5 pin 5 Amps socket & 5 Amp Switch all mounted in same Modular box.MS Box covered with switch plate,face plate including earthing 3 rd pin with 1.5 sqmm pvc insulated copper wire, PVC Conduit etc as required..(For wall fans)	25	Pt.	690.00	17250.00
7.34	Supply and installation of earth station with copper plate of size 600 × 600 × 3 mm bolted by means of G.I. bolts and nuts with 2.7 mtr. Long 15 mm dia G.I. pipe, B-Class with 2 runs of 8 SWG bare copper conductor from the plate upto the top of the electrode. The copper plate is to be buried 2.5 mtr. Below the G.L. & 4.5 mtr. Away from the building. Foundation as per I.S. – 3043 – 1987 code of practice or its latest version including provision for watering arrangement through 20 mm dia B-Class G.I. pipe and G.I. funnel, masonry chamber with concrete cover and lifting arrangement (including Charcoal /coke & salt as required.)	1	Set	12133.00	12133.00
7.35	Providing & laying earth connection from earth electrode with 2X 4.0 mm dia copper wire in 15mm dia GI Pipe (cost of 15 mm B -Class pipe is included) from earth electrode including connection with copper thimble excavation & re-filling as required.	35.0	RM	324.00	11340.00
7.36	Supplying & fixing of 25 Amp,240V, SPN Industrial type socket outlet with 2 pole & earth,metal enclosed Plug Top alongwith 25Amp C Curve SP MCB in sheet Metal enclosure on surface or recess with chained metal cover for the socket outlet & complete with connection ,testing & commissioning etc as required.	4.0	Sets	1421.00	5684.00
7.37	SITC OF CHANGE OVER SWITCH:- Supply,installation,testing and commissioning of following type Changeover switch in steel sheet enclosure off load type on existing angle iron frame of following sizes:				
(a)	25 Amp Double Pole	2.0	Sets	1575.00	3150.00
(b)	Removing & Re-fixing of 25Amp Double Pole 230V Change over switch from IT Room to New IT Room including connection etc.	0.0	Sets.	350.00	0.00
7.38	Supply & Fixing of 63Amp 10kA MCB C-Series including connection etc.	1.0	No	2825.00	2825.00
EARTH STATIONS(GI)					
7.39	Supply & Installation of earth electrode made of 40 mm dia. B-class G.I. pipe of 4.5 meter long as per IS-3043 – 1987 code of practice & its latest version with brick masonry chamber, concrete slab cover of 50 mm thick with lifting arrangement, including providing charcoal & salt in alternate layer, GI funnel for watering, clamping arrangement with bolts & nuts at the top of GI pipe electrode for connecting the earth wires as per the sketch enclosed	2	Sets	6010.00	12020.00
7.40	Supply & fixing of Cu. Earth Busbar of size 25 mm x 3 mm x 250 mm including connection etc.	3	No	320.00	960.00

Item No.	Description of work	Qty.	Unit	Rate(Rs.)	Amount (Rs.)
7.41	Supplying & laying of 6 SWG G.I wire at 0.50 meter below ground level for conductor earth electrode including connection/termination with GI thimble etc. as required.	40	RM	45.00	1800.00
7.42	SITC of S- Type Fan Hook :--Supplying & fixing of "S-" Type Fan Hook 12 mm dia M.S Rod.The fan Hook shall be fixed to the R.C.C Ceiling & plastered to the original finish.	2	Each	240.00	480.00
7.43	Supply & Fixing of white bakelite sheet including nut screws etc.	500	sqinch	1.00	500.00
7.44(a)	Removing & re-fixing of Three Phase DB alongwith old MCBs in concealed manner including connection etc as directed.	0	Set	500.00	0.00
7.44(b)	Removing & re-fixing of Three Phase 415 V Main Switch from Stair Case & Re-fixing of the same in LT Panel Room along with nut, bolts, socketing, Al. lugs, Cable glands, connection etc as directed.	0	Set.	750.00	0.00
7.44(c)	Removing & re-fixing of LT Cables from existing location(3.5 x 35 sqmm Al.Ar.Cable) to proposed location including socketing, Al. lugs, Cable glands, connection etc as directed.	0	R.M	70.00	0.00
7.42(d)	Removing & re-fixing of LED 4 Feet light including Round Block,Clamps etc as per requirement & necessary connection as directed (From BO Building to New BO Building.)	0	Set.	70.00	0.00
7.43	Dismantling the existing UPS(5 KVA/7.5 KVA) alongwith Battery Bank from old IT Room & to be shifted to New IT Room including Connection etc.	2	Job	1000.00	2000.00
7.44	Temporary arrangement of LAN /UPS Pts/ Electrical etc. as directed for Functioning of Branch Office during execution period of work as well as the old data cables/ UPS wiring etc is to be removed from the flooring etc as directed.	0	Job.	6000.00	0.00
	Sub-Total (LT PANEL & ELECTRICAL INSTALLATION WORKS)				868704.50
8	<u>AIRCONDITIONING SYSTEM</u>				
8.01 (a)	Supply Installation, Testing & commissioning of 1.5 Tr. capacity High wall split Inverter Room Air Conditioners having rotary compressor and all accessories consisting of high wall mounting type Indoor unit with remote control and out door unit consisting of compressor, condenser coil, laying of refrigerant pipe up to 3.0 mtr length, condenser fan operating with single phase 230 volt AC supply, protection unit for under voltage, complete in all respect including suitable size Cu.Flexible Round cable for input power supply as well as indoor to out door power cable. Rate should include for initial gas charging/ filling and mounting arrangement for both indoor & outdoor unit including brick masonry works/ suitable bracket etc. (5 Star rated Inverter)(The copper pipe up to 3 meter will not be measured per machine)(Make-Hitachi/Voltas/Carrier/Blue star)	6	Set	39500.00	237000.00
8.01 (b)	Same as above but 2.0 TR	16	Set	42150.00	674400.00

Item No.	Description of work	Qty.	Unit	Rate(Rs.)	Amount (Rs.)
8.02	Supply Installation, Testing & commissioning of 4 way 2.0 TR Cassette Type Air conditioner, at least BEE 3 rated with scroll/ rotary/twin rotary compressor, having R32/R37/R/410(Eco friendly) refrigerent including indoor unit out door unit, decorative grills and cordless remote and machine shall have copper condensor unit. Control cable between indoor and outdoor unit & suitable for operation on 50 Hz single phase AC supply etc.(Make-Hitachi/Voltas/Carrier/Blue star)	8	Set	85000.00	680000.00
8.03	Providing & fixing refrigerant copper pipe of required size with nitrile rubber/Heatlon insulation for following size of A.C. Units with the help of GI sadling on wall or with suitable hangers from the ceiling as the case may be . (Note:The measurement shall be taken for the refrigerant pipe including the control cable from ODU to IDU and all the three items (suction,pressure & control cable) shall be considered as one run).(The measurement will be taken in running meter excluding 3 .0 meter length).				
(a)	1.5 Tr/ 2.0 Tr/2.5 Tr. highwall split units & Casstte AC	150	Rm	580.00	87000.00
8.04	Providing & fixing following size of Rigid PVC Drain pipe with all accessories etc. complete on wall/ beam/ ceiling in concealed manner by chasing wall/ floor or on surface including providing of U trap to avoid sweating/ condensation specially on false ceiling up to a height of one meter above the plinth protection.				
a	25mm dia	250	Rm	135	33750.00
b	100mm dia	50	RM	330	16500.00
8.05	SITC of Copper Cable :Supply,installation,testing & commissioning of suitable size copper interconnection cable from indoor to out door unit in suitable size PVC pipe for Ductable Split Acs.	50	RM	180	9000.00
	Sub total for AC INSTALLATION OF WORK				1737650.00
	TRADE SUMMARY				
1	TELEPHONE NETWORK				14566.00
2	DATA NETWORKING				167600.00
3	UPS POINT WIRING ALONG WITH ITS ANCILLARIES				170630.00
4	CONDUIT & RACE WAYS				48090.00
5	FITTINGS & FIXTURES				295298.00
6	FIRE ALARM SYSTEM				124342.00
7	LT PANEL & INTERNAL ELECTRICAL INSTALLATION				868704.50
8	AIRCONDITIONING SYSTEM				1737650.00
	TOTAL				3426880.50

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