

**BILL OF QUANTITY FOR ELECTRICAL WORK FOR CANARA BANK, HARSANA KALAN BRANCH, SONIPAT, HARYANA.**

**ELECTRICAL WORKS (BRANCH)**

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
1	<p><b>Light Primary Points in PVC Conduit -</b>                      Point Wiring for light points, controlled through modular switches complete with PVC boxes &amp; cover plate - The point wiring shall be done with 3x 1.5 sq.mm Fire Resistant Low smoke Low Halogen stranded Cu. Wire in PVC conduit pipe (HMS Grade) concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement.The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600 mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, modular switch complete with PVC box &amp; cover plate, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete &amp; to the entire satisfaction of the Bank. Circuit wiring to be included in the point wiring rates. The circuit wiring starts from DB to point control box/ switch box using Fire Resistant Low smoke Low Halogen stranded Cu. Wire 2x2.5 sqmm &amp; 1x2.5 sqmm earthing (min size) in 20/25/32 mm PVC conduit. All the wiring shall be carried out in recessed conduits unless instructed by Architect / Engineer in charge</p>	Each	40		
2	<p><b>Light Primary Points in PVC Conduit -</b>                      Point Wiring for light points, controlled through modular switches complete with PVC boxes &amp; cover plate - The point wiring shall be done with 3x 1.5 sq.mm Fire Resistant Low smoke Low Halogen stranded Cu. Wire in PVC conduit pipe (HMS Grade) concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement.The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600 mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, modular switch complete with PVC box &amp; cover plate, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete &amp; to the entire satisfaction of the Bank. Circuit wiring to be included in the point wiring rates. The circuit wiring starts from DB to point control box/ switch box using Fire Resistant Low smoke Low Halogen stranded Cu. Wire 2x2.5 sqmm &amp; 1x2.5 sqmm earthing (min size) in 20/25/32 mm PVC conduit. All the wiring shall be carried out in recessed conduits unless instructed by Architect / Engineer in charge</p>	Each	10		
3	<p><b>Light Secondary Points PVC Conduit -</b>                      Point Wiring for light points interlooped from the primary point. The secondary point wiring shall be done with 3x 1.5 sq.mm FRLSH (Fire Resistant Low smoke Low Halogen) stranded Cu. Wire in PVC Conduit (HMS Grade) concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement.The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600 mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, modular switch complete with MS box &amp; cover plate, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete &amp; to the entire satisfaction of the Bank. All the wiring shall be carried out in recessed conduits unless instructed by Architect / Engineer in charge</p>	Each	15		
4	<p><b>5/6A Primary point in PVC Conduit:-</b>                      Supply &amp; Installation of point wiring for Raw power plug points on workstations / table/ wall using 2X2.5 + 1x2.5 Sq.mm FR LSH ( Fire Resistant Low smoke Low Halogen) copper conductor PVC sheathed flexible wire pulled from distribution board through PVC Conduit pipe (HMS Grade) concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. Each point consisting of 1 nos of 6/10A , 3/5 pin sockets &amp; 1 No.,6/10A Switch , wired together forming one point. The earth wire of green color only. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete &amp; to the entire satisfaction of the Bank. The above includes supply &amp; fixing modular cover plates, base plates, PVC box/ Gang box in brick wall by making necessary chase/ recess and making good the same. All switches sockets and accessories must be modular. All new points must be provided in concealed /recessed conduit unless directed by architect / engineer in charge Interconnections to movable furniture, if any, shall be done using flexible PVC Conduit with end couplers.</p>	Each	9		

5	<p><b>5/6A Secondary point in PVC Conduit:-</b>  Supply &amp; Installation of point wiring for Raw power plug points on workstations / table/ wall using 2X2.5 + 1x2.5 Sq.mm FR LSH ( Fire Resistant Low smoke Low Halogen) copper conductor PVC sheathed flexible wire pulled from nearby point through PVC Conduit pipe (HMS) concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. Each point consisting of 1 nos of 6/10A , 3/5 pin sockets &amp; 1 No. 6/10A Switch , wired together forming one point. The earth wire of green color only. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete &amp; to the entire satisfaction of the Bank. The above includes supply &amp; fixing modular cover plates, base plates, PVC box/ Gang box in brick wall by making necessary chase/ recess and making good the same. All switches sockets and accessories must be modular. All new points must be provided in concealed/recessed conduit unless directed by architect / engineer in charge Interconnections to movable furniture, if any, shall be done using flexible PVC Conduit with end couplers.</p>	Each	2		
6	<p><b>UPS Primary point in PVC Conduit:-</b>  Supply &amp; Installation of point wiring for UPS points on workstations / table/ wall using 2X2.5 + 1x2.5 Sq.mm FR LSH ( Fire Resistant Low smoke Low Halogen) copper conductor PVC sheathed flexible wire pulled from distribution board through PVC Conduit pipe (HMS Grade) concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. Each point consisting of 3 nos of 6/10A , 3/5 pin sockets &amp; 1 No.,6/10A Switch , wired together forming one point. The earth wire of green color only. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete &amp; to the entire satisfaction of the Bank. The above includes supply &amp; fixing modular cover plates, base plates, PVC box/ Gang box in brick wall by making necessary chase/ recess and making good the same. All switches sockets and accessories must be modular. All new points must be provided in concealed/recessed conduit unless directed by architect / engineer in charge Interconnections to movable furniture, if any, shall be done using flexible PVC Conduit with end couplers.</p>	Each	10		
7	<p><b>UPS secondary point in PVC Conduit:-</b>  Supply &amp; Installation of point wiring for UPS points on workstations / table/ wall using 2X2.5 + 1x2.5 Sq.mm FR LSH ( Fire Resistant Low smoke Low Halogen) copper conductor PVC sheathed flexible wire looped from nearest UPS point through PVC Conduit pipe (HMS Grade) concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. Each point consisting of 3 nos of 6/10A , 3/5 pin sockets &amp; 1 No., 6/10A Switch , wired together forming one point. The earth wire of green color only. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete &amp; to the entire satisfaction of the Bank. The above includes supply &amp; fixing modular cover plates, base plates, PVC box/ Gang box in brick wall by making necessary chase/ recess and making good the same. All switches sockets and accessories must be modular. All new points must be provided in concealed/recessed conduit unless directed by architect / engineer in charge Interconnections to movable furniture, if any, shall be done using flexible PVC Conduit with end couplers.</p>	Each	2		
8	<p><b>15/16A Primary point in PVC Conduit:-</b>  Supply &amp; Installation of point wiring for Raw power plug points on workstations / table/ wall using 2X4 + 1x4 Sq.mm FR LSH ( Fire Resistant Low smoke Low Halogen) copper conductor PVC sheathed flexible wire pulled from distribution board through PVC Conduit pipe (HMS Grade) concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. Each point consisting of 1 nos of 16/20A , 3/5 pin sockets &amp; 1 No., 16/20A Switch , wired together forming one point. The earth wire of green color only. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete &amp; to the entire satisfaction of the Bank. The above includes supply &amp; fixing modular cover plates, base plates, PVC box/ Gang box in brick wall by making necessary chase/ recess and making good the same. All switches sockets and accessories must be modular. All new points must be provided in concealed /recessed conduit unless directed by architect / engineer in charge Interconnections to movable furniture, if any, shall be done using flexible PVC Conduit with end couplers.</p>	Each	9		

9	<p><b>15/16A Secondary point in PVC Conduit:-</b>  Supply &amp; Installation of point wiring for Raw power plug points on workstations / table/ wall using 2X4 + 1x4 Sq.mm FR LSH ( Fire Resistant Low smoke Low Halogen) copper conductor PVC sheathed flexible wire pulled from nearest power point through PVC Conduit pipe (HMS Grade) concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. Each point consisting of 1 nos of 16/20A , 3/5 pin sockets &amp; 1 No.,16/20A Switch , wired together forming one point. The earth wire of green color only. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete &amp; to the entire satisfaction of the Bank. The above includes supply &amp; fixing modular cover plates, base plates, PVC box/ Gang box in brick wall by making necessary chase/ recess and making good the same. All switches sockets and accessories must be modular. All new points must be provided in concealed/ recessed conduit unless directed by architect / engineer in charge Interconnections to movable furniture, if any, shall be done using flexible PVC Conduit with end couplers.</p>	Each	2		
10	<p><b>AC point in PVC Conduit:-</b>  Supply &amp; Installation of point wiring for Air Conditioner on workstations / table/ wall using 2X4 + 1x4 Sq.mm FR LSH ( Fire Resistant Low smoke Low Halogen) copper conductor PVC sheathed flexible wire pulled from distribution board through PVC Conduit pipe (HMS Grade) concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. Each point consisting of 1 nos of 20/25A , 3/5 pin sockets &amp; 1 No. Single module 20/25A MCB, 1 Nos 25A Motor starter switch wired together forming one point. The earth wire of green color only. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete &amp; to the entire satisfaction of the Bank. The above includes supply &amp; fixing modular cover plates, base plates, PVC box/ Gang box in brick wall by making necessary chase/ recess and making good the same. All switches sockets and accessories must be modular. All new points must be provided in concealed/recessed conduit unless directed by architect / engineer in charge Interconnections to movable furniture, if any, shall be done using flexible PVC Conduit with end couplers.</p>	Each	5		
11	<p>Supply and laying 20 mm PVC conduit (MHS Grade) through wall / floor / above false ceiling / partition etc. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.</p>	RM	30		
12	<p>Supply and laying 25 mm PVC conduit (HMS Grade) through wall / floor / above false ceiling / partition etc. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.</p>	RM	35		
13	<p><b>3x6 sq mm submains wiring in PVC conduit:-</b>  Supply and laying of 2x6 sq mm + 1x6 sq mm FR LSH ( Fire Resistant Low smoke Low Halogen) stranded Cu. Wire in PVC Conduit (HMS Grade) through wall / floor / above false ceiling / partition etc. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.</p>	RM	75		
14	<p>Supply and laying of 3x10 submains wiring in PVC conduit  Supply and laying of 2x10 sq mm + 1x10 sq mm FR ( Fire Resistant) stranded Cu. Wire in PVC Conduit (HMS Grade) through wall / floor / above false ceiling / partition etc. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.</p>	RM	45		
15	<p>Supply and laying of 4x10 flexible wire in PVC Conduit  Supply and laying of 3x10 sq mm + 1x10 sq mm FR ( Fire Resistant) stranded Cu. Wire in PVC Conduit (HMS Grade) through wall / floor / above false ceiling / partition etc. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.</p>	RM	45		

16	Supply installation testing and commissioning of 4 way SPN DB flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof and vermin 'proof, gasketed and hinged door with all internals such as DIN rails, neutral link, interconnected wiring, complete with earthing legs, housing following switch gears(Double door HORIZONTAL DB ) with 2 Nos 63A DP MCB for Single Phase UPS input and output isolation	Set	4		
17	SITC of 12 way SPN DB flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof and vermin 'proof, gasketed and hinged door with all internals such as DIN rails, neutral link, interconnected wiring, complete with earthing legs, housing following switch gears(Double door HORIZONTAL DB ) i/c 1 Nos 63A DP MCB o/g 10 nos SP MCB (6-32A) 10 KA Breaking Capacity	Set	2		
18	SITC of 4 way Horizontal DB flush mounted on wall, sheet metal fabricated, powder coated, having dust- proof and vermin'proof, gasketed and hinged door with all internals such as DIN rails, neutral link, interconnected wiring, complete with earthing eggs, housing following switch gears(Double door HORIZONTAL DB ) with i/c 1 Nos 63A TPN MCB o/g 12 nos SP MCB (6-32A) 10 KA Breaking Capacity	Set	2		
19	SITC of 4 way VTPN MCCB DB flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof and vermin 'proof, gasketed and hinged door with all internals such as DIN rails, neutral link, interconnected wiring, complete with earthing legs, housing following switch gears (Double door VerticalL DB ) with i/c 1 Nos 63A TPN MCCB Thermal Magnetic Release Adjustable overload: 0.8-1.0 x In Adjustable Short Circuit: 6-10 x In o/g 12 nos SP MCB (6-32A) 10 KA Breaking Capacity	Set	1		
20	<p><b>SITC OF LT PANEL AS UNDER:</b> (Manufactrurer must be approved from CPRI)</p> <p>Construction: Free Standing with front access, Dust &amp; vermin Proof, Form 3b construction.</p> <p>Supply: 415V, 3Phase, 4 Wire, 50 Hz.</p> <p>Control Supply: 230V Single Phase</p> <p>Fault Level: 36KA for 1 Sec</p> <p>Fabrication: CRCA Sheet 14SWG for Gland Plate, Load Bearing Structure and Body, 16 SWG for partitions, doors and panels.</p> <p>25x3 mm neoprene gasket for door, cover and gland plate. 40x5 mm gasket for joints and canopy. DC Locks to be provided on doors, danger plates on front and rear of bus bar chambers, live parts.</p> <p>Cable Entry / Exit : From top.</p> <p>Name plate: COPPER</p> <p>Powder Coating: Pre treated with 7 tank process and duly powder coated.</p> <p>TPN Busbars: 150A Rated copeer current density 1A/sq mm) with colour coded heat shrinkable sleeve. Neutral Bar of half size of Phase. Earth Bar of suitable size to be provided with earthing terminal on both ends</p> <p>Separate bus bar system to be provided for Emergency and Non Emergency supply outgoing</p> <p>Instrumentation: 1 Set 3 nos phase indicating lamps each backed up with MCB and switch shall be provided for each incomer. 1 no. VAF meter 0-200A with CT, selector switch, and fuse as reqd.</p> <p>Main Incomer- 100A MCCB</p> <p>Change Over - 63A Manual Changeover &amp; 1 No. 63 A Automatic changeover for UPS</p> <p>Non Emergency Outgoing - 1 Nos 63A MCCB</p> <p>Emergency Outgoing 2 Nos 63A MCCB, 2 Nos 63A FP MCB, 4 Nos 40A DP MCB</p> <p>One Section in outgoing section in both emergency and non emergency section be kept spare for future provisions</p>	Set	1		
21	Supply and installation of MCCB enclosure along with 125 A 4 pole MCCB 36KA breaking capacity with thermal magnetic release, Adjustable overload: 0.8-1.0 x InAdjustable Short Circuit: 6-10 x In	Set	1		
22	S & I of earth pit comprising of 600mm x 600mmx 3mm. thick copper plate buried at a minimum depth of 2.7 meter including necessary materials like charcoal,salt etc as required conforming to BIS standards having brick masonry chamber with hinged cover and watering arrangement.	Set	2		
23	S & I of earth pit comprising of G.I. earth pipe 4.5 metre long, 40 mm dia including necessary materials like charcoal,salt etc as required conforming to BIS standards having brick masonry chamber with hinged cover and watering arrangement.	Set	0		

24	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required complete with insulation sleeve	RM	0		
25	Providing and fixing 25 mm X 5 mm GI strip on surface or in recess for connections etc. as required complete with insulation sleeve	RM	0		
26	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface recessed conduit / submain wiring / cable as required.	RM	0		
27	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing along with existing surface / recessed conduit submain wiring / cable as required	RM	35		
28	<b>Telephone point primary in PVC conduit:</b> Supply & fixing on wall/ furniture/ partition recessed type modular telephone socket outlet (RJ-11) with mounting box & front plate complete with chase cutting, mending good etc. as required complete including Supply & laying of 1 pair 0.5 mm dia. PVC insulated unarmoured telephone cables through PVC Conduit pipe (HMS) concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement drawn from telephone tag block. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval & finally finishing the surface & matching the same with the existing surface. The rate should include the cost of all materials, labour, T&P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc. The job shall be complete & to the entire satisfaction of the Bank. The above includes supply & fixing modular cover plates, base plates, PVC box/ Gang box in brick wall by making necessary chase/ recess and making good the same. All switches sockets and accessories must be modular. All new points must be provided in concealed/recessed conduit unless directed by architect / engineer in charge Interconnections to movable furniture, if any, shall be done using flexible PVC Conduit with end couplers.	Each	3		
29	Providing, laying and connecting PVC insulated copper telephone cable of following sizes including termination in approved manner. 20-pair telephone cable.	RM	25		
30	Providing and fixing of telephone tag block (Krone type) of 50 pair housed in GI box with cover of suitable size including termination	Each	1		
31	Supply and laying, effecting proper connections, testing & commissioning of the following sizes of 1.1 KV armoured/ unarmoured XLPE insulated PVC sheathed aluminium /copper conductor cables conforming to IS: 7098 Part 1 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. Supply and laying of 3x6 sq mm armoured aluminium cable in existing pipe / cable tray	RM	0		
32	Supply and laying, effecting proper connections, testing & commissioning of the following sizes of 1.1 KV armoured/ unarmoured XLPE insulated PVC sheathed aluminium /copper conductor cables conforming to IS: 7098 Part 1 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. Supply and laying of 3.5x70 armoured aluminium cable in existing pipe / cable tray	RM	0		
33	Supply and laying, effecting proper connections, testing & commissioning of the following sizes of 1.1 KV armoured/ unarmoured XLPE insulated PVC sheathed aluminium /copper conductor cables conforming to IS: 7098 Part 1 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. Supply and laying of 3.5x50 armoured aluminium cable in existing pipe / cable tray	RM	55		
34	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as reqd. End termination of 3.5x70 aluminium armoured cable	SET	0		
35	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as reqd. End termination of 3.5x50 aluminium armoured cable	SET	8		
36	Supply, Installation, testing and commissioning of 2'X2' Recessed type LED LIGHT FITTINGS of 33-36 W with minimum lumen level of 3900 lumens, CRCA / Extruded aluminium housing, efficiency of 120 lumens per watt and & Average life not less than 50000 hrs. The light should be hanged/supported by MS chain from ceiling directly and not be kept directly on false ceiling frame. Cutting of ceiling, framing etc. be included in the costs. Standard warranty of light fittings shall be minimum 2 years.	Each	13		
37	Supply, Installation, testing and commissioning of LED DOWNLIGHT FITTINGS of 15-18 W with minimum lumen level of 1650 lumens with die cast aluminium, efficiency of 110 lumens per watt and & Average life not less than 30000 hrs. Cutting of ceiling, modifications required to the ceiling be included in the cost. Standard warranty of light fittings shall be minimum 2 years.	Each	31		
38	Supply Installation testing and commissioning of 4 ft, 18-20 watt LED batten with 2000 lumen output and 2 year warranty	Each	13		
39	Supply, Installation, Testing and commissioning of <b>100% metal body Wall mounted Fan</b> , 3/4 blade design, sweep 400-450 mm power input max 90 watt, Speed 1300-1330rpm with all accessories.	Each	7		

40	Ceiling Fan- Supply, Erecting, and testing of approved/specified make ceiling fans complete with down rod, canopy, blades and Electronic speed regulator 230-250 volts including connection with all necessary materials as required. Make- Usha/ Havells/Crompton	Each	3		
41	Supply & fixing of 230 mm exhaust fan <b>100% METAL body</b> with all accessories etc. complete of make As specified in tender document or approved by concerned office in charge.	Each	3		
42	Wiring for computer networking from Jack Panel in data rack to computer workstation with Cat-6 computer cable in PVC conduits of size 20/ 25 mm including providing ferrules at both ends and termination at both ends including providing & fixing frame for Cat-6 with shutter, RJ 45 outlet, faceplate and mounting box complete of modular type, this work includes supply and laying of CAT-6 cable in PVC conduits throughout the length, from the I/O hub to the point.	Nos.	9		
43	Providing & fixing 9 U (Rack with glass door, opening in the front power panel 1 (horizontal), cable manager 1 lock & key) with switch.	Nos.	1		
44	Supply & fixing, Installation, Testing & Commissioning of 24 port Jack Panel.	Nos.	1		
45	Supplying and fixing Patch Cord-2 Meter- (DBPS Mounting Cord)	Nos.	9		
46	Supplying and fixing Patch Cord-1 Meter-	Nos.	9		
47	One call bell point with ceiling rose/ 6amp. 3 pin sockets controlled by one 6 amp. Push Modular switch. With call bell	Nos.	1		
48	Supplying , Installing Testing & Commissioning of LED Indicator ( Red, Blue & Yellow colour ) for showing the Power ON/ Off position in Branch Light / Raw Power (1) , AC (1) , UPS OUT POWER SUPPLY (1). All indicators which needs to be off will be placed in one line and all indicator which needs to be off must be in other line . Marking of the Indicators to be done as per architect instructions.	Set	1		
49	<b>DISMANTLING WORK</b>				
	Existing items i.e. lights, wall Fans, ceiling fans, cables & wires and other electrical items after approval of architect.	1	Lot		
<b>A</b>	<b>TOTAL</b>				
<b>B</b>	<b>BUYBACK OF OLD ITEMS</b>				
	Existing items i.e. lights, wall Fans, ceiling fans, cables & wires and other electrical items	1	LS		
<b>GRAND TOTAL AMOUNT (A-B)</b>					
	<b>GST Extra</b>				

**APPROVED MAKE LIST**

S.N.	DESCRIPTION	Approved Makes
S.N.	PVC Conduit	Precision/AKG /VIP
1	Ceiling Junction Boxes	Home lite/ANCHOR
2	Wires & cables	R.R./Havells/ Polycab
3	Modular Switches, Sockets etc	Crabtree / Northwest /Legrand
4	Lighting Fixtures	Philips/Wipro/Crompton
5	M.C.B./RCCB/RCBO etc	Legrand/Havells/ HAGER
6	Distribution Boards	Same As Above
7	MCCB	Schneider/Legrand/Havells
8	Change Over Switches	H.P.L./A.B.B./Standard/ L.& T.
9	End Termination accessories	Dowells/Usha/Brecco/Cosmos
10	Telephone Cables & accessories	Havells, Krone, Finolex,
11	Fans/Exhaust fans	Crompton/Havell/USHA
12	Music Speakers	Philips/Bosch/Ahuja
13	Amplifiers	Philips/Bosch/Ahuja
14	DVR	Samsung, Honeywell , HIKVISION
15	Rq11, CAT5/CAT6 cables/Telephone wires	Legrand, Molex, D'Link ,AMP

16	CCTV Dome Camera	Honywell, HIKVision
17	Hard Disk drive	Seagate, HIKVISION
18	Smoke/Heat/Optical Fire Detectors	Edward.Siemens, Appolo Or
19	Response Indicators, Hooters	Edward.Siemens OR other ISI
20	Telephone Tag Block	Krone

Place:

Date:

Signature of contractor with seal