



INDIAN BANK

BRANCH: RISHIKESH- RENOVATION WORKS

ELECTRICAL WIRING & UPS CABLING WORKS (Branch & ATM)

Bill of Quantities (BoQ) and detailed specifications

S.NO.	ITEM DESCRIPTION	QTY	UNIT	RATE	AMOUNT (Rs.)
A)	ELECTRICAL WORKS:				
1	POINT WIRING				
	<p>Supplying materials and fixing in position wiring for light points, fan points, wall fan points, exhaust fan points, light sockets, etc.</p> <p>The work shall include:</p> <p>Wiring for points using 1.5 Sq.mm PVC insulated 1100V grade copper conductor (FRLS) wires along with 1.5 Sq.mm copper earth wire, concealed or surface-mounted as required, using 1.5 PVC conduit with all necessary accessories such as:</p> <p>Bends, inner plates, cover plates, tees, saddles Draw boxes, mounting boxes, ceiling roses, etc. Chromium/plated brass screws, rawl plugs, and other fixing accessories Circuit wiring from Distribution Board (DB) to point control box / switch box using:</p> <p>2 × 2.5 Sq.mm PVC insulated 1100V grade multi-stranded copper conductor wires 1.5 Sq.mm PVC insulated earth wire Colour codes to be followed as per standard practice</p> <p>Installation requirements:</p> <p>Conduits shall be rigid PVC, flexible conduits/elbows are not allowed. Conduits shall be fixed in ceilings, walls, and floors with proper clamps, and trenches/chases shall be filled with cement mortar. In case of wooden partitions or above false ceilings, conduits shall be fixed neatly with proper clamps and supports, maintaining alignment.</p> <p>Completion:</p> <p>All wiring shall be neatly routed, concealed or surface-mounted as required, and connections shall be properly terminated at switch boxes, control boxes, and points.</p> <p>The work shall include all materials, labour, tools, fixing accessories, and incidental works for complete and proper execution.</p>				
1.1	One Light Points Controlled by one 6Amp. Moduler switch.	26.00	Nos.		
		TOTAL C/F			

S.NO.	ITEM DESCRIPTION	QTY	UNIT	RATE	AMOUNT (Rs.)
		TOTAL B/F			
1.2	Two Light Points Controlled by one 6Amp. Moduler switch.	8.00	Nos.		
1.3	One ceiling fan Points Controlled by one 6Amp. Moduler switch.	2.00	Nos.		
1.4	<p>Providing and fixing 6 Amp, 3-pin light plug sockets controlled by a single 6 Amp modular switch at switchboard level.</p> <p>The work shall include: Supply and installation of the socket and modular switch of approved make and rating. Wiring for the socket as per the specifications mentioned in the main wiring item (using 1.5 Sq.mm PVC insulated 1100V grade copper conductor wires with proper earthing). All materials, labour, tools, accessories, and fixing hardware required for complete and proper installation. The installation shall ensure neat alignment, proper connection, and functional operation of the switch-socket combination in all respects, as directed by the Architect / Engineer-in-Charge.</p>	12.00	Nos.		
1.5	<p>Providing and fixing 16 Amp, 5-pin power plug sockets controlled by a single 16 Amp modular switch at switchboard level.</p> <p>The work shall include: Supply and installation of the socket and modular switch of approved make and rating. Wiring for the socket as per the specifications mentioned in the main wiring item (using 2 × 2.5 Sq.mm PVC insulated 1100V grade multi-stranded copper conductor wires with 1.5 Sq.mm PVC insulated earth wire). Other specifications shall be as item no. 1.4</p>	6.00	Nos.		
		TOTAL C/F			

S.NO.	ITEM DESCRIPTION	QTY	UNIT	RATE	AMOUNT (Rs.)
		TOTAL B/F			
1.6	MAIN , SUB-MAIN & CIRCUIT WIRING				
	<p>Supplying and drawing PVC insulated copper conductor wires of 1100 V grade (ISI marked & fire authority approved), laid in existing surface/recessed PVC or steel conduits / PVC casing and capping as required.</p> <p>The work shall include:</p> <p>Supply of wires of the following sizes as per requirement: 1.5 Sq.mm, 2.5 Sq.mm, 4 Sq.mm, 6 Sq.mm, or as specified in the electrical layout.</p> <p>Laying of wires in conduits, casing, or capping neatly, maintaining proper alignment, bending radius, and support.</p> <p>Terminations and connections at distribution boards, switchboards, sockets, points, and other devices as per approved drawings.</p> <p>Provision of all materials, labour, tools, accessories, and hardware required for complete and proper execution of the wiring work.</p> <p>Testing and commissioning of the wiring to ensure continuity, insulation resistance, and proper functioning.</p> <p>The installation shall comply with all relevant IS standards and safety regulations, and be executed under the supervision of the Architect / Engineer-in-Charge.</p>				
2	CIRCUIT WIRING AND CONDUITING:				
a)	2×1.5 sq.mm PVC copper conductor with 1 sq.mm PVC copper earth complete with accessories.	300.00	Rmt		
b)	2X2.5Sq.mm PVC copper conductor with 1.5 sq.mm PVC copper earth complete with accessories.	200.00	Rmt		
c)	2X4.0Sq.mm PVC copper conductor with 4 sq.mm PVC copper earth complete with accessories.	100.00	Rmt		
d)	2×6 sq.mm PVC copper conductor with 4 sq.mm PVC copper earth, complete with accessories.	50.0	Rmt		
e)	2×10 sq.mm PVC copper conductor with 6 sq.mm PVC copper earth, complete with accessories.	10.0	Rmt		
2.0	Supplying and fixing 63/40 A TPN MCB/Isolator for UPS input/output, in sheet steel enclosure, complete with tinned copper bus bars, neutral and earth links, interconnections, earthing, painting, testing and commissioning, complete in all respects.	2.00	Nos.		
		TOTAL C/F			

S.NO.	ITEM DESCRIPTION	QTY	UNIT	RATE	AMOUNT (Rs.)
		TOTAL B/F			
3	AC POINT	5.00	Nos.		
	Supplying and fixing wiring for AC sockets using 6 Sq.mm PVC insulated 1100V grade copper conductor wire, complete with: 25Amp, 3-pin socket outlet (Phase, Neutral & Earth) of approved make for a single-phase connection. Each socket outlet shall be protected by one 25 Amp SP MCB. Wiring and connections shall ensure that one outlet is connected to one circuit only, providing safe and independent operation. The item shall include all materials, labour, tools, accessories, conduit / casing, terminations, and incidental works required for complete and proper installation in all respects, as directed by the Architect / Engineer-in-Charge.				
4.0	3.5 Core X 16 sqmm Al armoured cable	0.00	Rmt.	Rate only	-
	Supplying and laying 1.1 KV grade Aluminium Armoured (AA) Cable, including all necessary materials and accessories for a complete installation. The work shall include: Supply of AA cable of approved make and size as per electrical load requirements. Termination of cables with appropriate size brass / aluminium glands, clamps, lugs, and other necessary accessories. Fixing of cables on walls, ceilings, or trenches using clamps, saddles, rowl plugs, and screws as required. Provision of 8 SWG ISI-marked copper earth continuity wire along the cable run. All labour, tools, plants (T&P), and incidental works required for proper and complete execution of the cabling work, ensuring alignment, support, and mechanical protection as per IS standards and safety regulations. The installation shall be carried out neatly, securely, and in accordance with approved drawings and instructions of the Architect / Engineer-in-Charge.				
5.0	TELEPHONE POINT AND WIRING				
5.1	Supplying and fixing in position G.I. box suitable for modular type telephone point switches for the telephone outlet, complete with: Cover plate of approved make. Two-pin switch socket / jack type socket as required. All materials, labour, screws, fasteners, and accessories necessary for complete installation. The installation shall be carried out as per the instructions of the Architect / Engineer-in-Charge, ensuring neat alignment, proper fixing, and full functionality of the telephone outlet in all respects.	4.00	Nos.		
		TOTAL C/F			

S.NO.	ITEM DESCRIPTION	QTY	UNIT	RATE	AMOUNT (Rs.)
		TOTAL B/F			
5.2	Supplying and wiring for telephone point using 2 pairs of 0.51 mm ² dia. annealed tinned copper conductor wires, drawn through PVC insulated rigid ISI-marked conduit / pipe from the telephone point to the main Telephone Distribution Board (DB). The work shall include: Supply and termination at both ends with RJ-11 telephone sockets of modular type. Installation of M.S. concealed boxes for housing the sockets at the outlet points. All materials, labour, tools, fasteners, and accessories required for complete and proper installation. The installation shall ensure neat routing, secure fixing, proper connections, and fully functional telephone points as per the instructions of the Architect / Engineer-in-Charge.	100.00	R.mt.		
6.0	MAIN DISTRIBUTION BOARD	1.00	Nos.		
	Supplying, installing, testing, and commissioning of cubicle-type wall-mounted panel as per the following specifications: Construction: Dust- and vermin-proof cubicle made of 20 SWG CRCA sheet steel with separate chambers for bus bars and control equipment. Bus Bar: copper bus bars of suitable rating. Switching Arrangement: Provided with a change-over switch as required. Doors: Lockable, double-hinged door construction for easy access and safety. Mounting: Suitable for wall mounting. Finish: Painted with stove-enameled paint of approved shade, ensuring durable and corrosion-resistant finish. The item shall include all materials, labour, fasteners, tools, testing, and commissioning, ensuring the panel is fully functional, securely mounted, and safe for operation as directed by the Architect / Engineer-in-Charge.				
	Complete in all respects as follows:-				
	INCOMING				
	100Amp, 4 Pole MCCB 50 KA - 1 No.				
	OUTGOING				
	2 Nos. 40 amps 415 volt 3 phase 50 Hz TPN M.C.C.B.'s of 35 KA rupturing capacity.				
	Upto 1No. 100 Amps TPN MCCB of 25KA rupturing capacity.				
	Upto 1 No. Changeover 100 amps 4 Pole TPN (ATS)				
	Copper Bus Bar , Neutral & Copper Earth links.				
	Upto 1No. 63 Amps TPN 415Volt				
		TOTAL C/F			

S.NO.	ITEM DESCRIPTION	QTY	UNIT	RATE	AMOUNT (Rs.)
		TOTAL B/F			
7.0	SUB-DISTRIBUTION BOARD				
a)	<p>Supplying and fixing 8-way MCB SPN Distribution Board (DB), 3-pole and neutral, 415 volts, made of sheet steel, suitable for surface or recessed mounting, complete with:</p> <p>Incoming Protection: 1 No. 40 Amp FP MCB, 415 V. Outgoing Circuits: 8 Nos. SP MCBs, 16–25 Amp of various capacities as required.</p> <p>Internal Accessories: Tinned copper bus bar, neutral link, earth bar, DIN rail, detachable gland plate, and necessary interconnections.</p> <p>Additional Protection: 100 Amp isolator FP for AC circuits.</p> <p>Earthing: Proper earthing as per standard.</p> <p>Finish: Painted with approved shade. The item includes all materials, labour, tools, fasteners, mounting accessories, interconnections, testing, and commissioning, ensuring the DB is fully functional, safe, and as per approved specifications, suitable for the AC system, as directed by the Architect / Engineer-in-Charge.</p>	0.00	Nos.		
b)	<p>Supplying and Fixing 8–12 Way MCB SPN Distribution Board (DB) Supplying, installation, testing and commissioning of 8–12 way MCB SPN DB, Three Pole & Neutral, suitable for 415 Volts, fabricated from high-quality sheet steel, suitable for surface or recessed mounting, comprising the following:</p> <p>Incoming: FP 40 Amps, 415 Volts MCB/Isolator</p> <p>Outgoing: 10–12 Nos. SP MCBs of 6–32 Amps (of various ratings as required)</p> <p>Complete with tinned copper bus bar, neutral link, earth bar, DIN rail, detachable gland plate, and all necessary internal interconnections</p> <p>Including 40 Amp FP isolator, proper earthing, and painting/finishing as required</p> <p>All works to be completed in all respects as per standard specifications and as directed at site</p> <p>(For UPS – Branch & ATM)</p>	1.00	Nos.		
c)	<p>Supplying & Fixing 12 Way MCB SPN Distribution Board (DB)</p> <p>Supplying, installation, testing and commissioning of 12-way MCB SPN DB, Three Pole & Neutral, suitable for 415 volts, fabricated from high-quality sheet steel, suitable for surface or recessed mounting, comprising:</p> <p>Incoming: FP 40 Amps, 415 Volts MCB/Isolator Outgoing: 8-10 Nos. SP MCBs of 6–32 Amps (of various capacities as required) Complete with tinned copper bus bar, neutral link, earth bar, DIN bar, detachable gland plate, and all necessary internal interconnections Including 40 Amp FP isolator, proper earthing, and painting/finishing</p> <p>Installation to be completed in all respects as per standard electrical specifications and direction of the Engineer-in-Charge (For Power Plug – Branch)</p>	1.00	Nos.		
		TOTAL C/F			

S.NO.	ITEM DESCRIPTION	QTY	UNIT	RATE	AMOUNT (Rs.)
		TOTAL B/F			
8.0	Providing & fixing Bell for Branch Manager as per direction & instruction of the bank/ Architect	1.00	Nos.		
9.0	Supplying and fixing recessed type 2'×2' mirror optic luminaire suitable for 4×36W LED lamps, made of CRCA housing with powder coating, high-efficiency anodized aluminum mirror louvers, complete with electronic ballast, wiring, holders, and all necessary accessories for installation in modular false ceiling, complete in all respects.	13.00	Nos.		
10.0	Supplying and fixing surface-mounted rail-type LED luminaire suitable for 1×36W/40W T8 fluorescent lamp, fabricated from CRCA sheet steel with powder-coated finish, complete with electronic/electromagnetic ballast, starter (if applicable), holders, internal wiring, and all accessories required for proper installation, complete in all respects.	6.00	Nos.		
11.0	Supplying and fixing recessed downlight luminaire complete with 1×10W LED lamp, housing, reflector, electronic ballast, holder, internal wiring, clamps, and all required accessories, suitable for installation in false ceiling, complete in all respects.	24.00	Nos.		
12.0	FANS, EXHAUST FANS				
i)	Supplying, fixing, connecting, testing and commissioning of ceiling fan of 1200 mm sweep, high-speed type, complete with down rod, canopy set, capacitor, blades, suspension arrangement, and all petty materials required for proper installation, including wiring connection from ceiling rose/point, testing and commissioning, complete in all respects.	0.00	Nos.		
ii)	Supplying, fixing, connecting, testing and commissioning of high-speed wall fan of standard size (typically 400 mm/16 inch), complete with mounting bracket, oscillation mechanism, regulator/speed control, power cord, and all petty materials required for proper installation, including making necessary electrical connections, complete in all respects.	8.00	Nos.		
iii)	Supplying, fixing, connecting, testing and commissioning of exhaust fan of 300 mm sweep, complete with all petty material, including cutting/making a hole in the wall, providing and fixing cowl/louvers, making good the wall surface, and completing the installation in all respects as required.	3.00	Nos.		
13.0	EARTHING WORKS				
13.1	Supplying and making maintenance-free earthing using a 40 mm diameter × 2.0 m long copper-coated (copper-bonded) earthing electrode, including excavation of earth pit of size approx. 300 mm × 2500 mm depth, providing and filling two bags of chemical compound (backfill enhancer) around the electrode, fixing of inspection chamber/pipe, watering arrangement, and making the pit complete in all respects	0.00	Nos.		
13.2	Supplying, fixing, connecting and testing of PVC insulated single core 1×10 sqmm copper conductor cable laid through 12 mm diameter GI pipe (medium class) casing, including all bends, clamps, saddles, connectors and petty materials required for proper installation, complete in all respects	0.00	R.mt.		
	TOTAL FOR ELECTRICAL WORKS				

S.NO.	ITEM DESCRIPTION	QTY	UNIT	RATE	AMOUNT (Rs.)
B:	UPS WORKS:(Incl. ATM)				
1.0	UNINTRERUPTED POWER SUPPLY	12.00	Nos.		
	Supplying, installing, wiring, connecting, testing and commissioning of UPS point wiring consisting of 2×2.5 sqmm PVC insulated copper conductor cables in recessed medium-gauge PVC conduit, including providing and fixing 3 nos. 5-pin 5/16A switch–socket units (Havells or equivalent) in suitable concealed White PVC. boxes, with third-pin earthing using 1×1.0 sq. mm PVC insulated copper conductor, complete with all accessories such as bends, junction boxes, pull boxes, clamps, and petty materials as required. The work includes providing 5A moulded switches and sockets for UPS circuits and a separate 16A switch–socket point on main supply. Each UPS outlet will have a separate dedicated circuit from UPS DB to the outlet.				
2.0	Supplying and laying 25 mm diameter PVC conduit (medium gauge) for UPS/ computer terminal/LAN wiring, including provision of PVC/metallic junction boxes at every terminal point as required, complete with bends, tees, couplers, saddles, clamps and all necessary accessories, laid concealed in walls, floors, partitions or above false ceiling as directed.	100.00	RMT		
3.0	EARTHING WORKS				
3.1	Supplying, providing, and laying maintenance-free chemical earthing for electrical works, including excavation of earth pit, providing copper-bonded rod or plate electrode of 40mm dia and 2.0 m. in length as per design, filling with approved chemical compound, connecting with PVC insulated copper conductor for earthing, providing inspection chamber/pipe, making good the pit, and testing and commissioning the earth electrode complete in all respects. Maintenance-Free Chemical Earthing Scope of Work: Excavate an earth pit as per the site requirement and design specifications. Electrode Installation: Supply and provide a copper-bonded electrode (rod or plate) of 40 mm diameter and 2.0 m length, as per the approved design. Chemical Backfilling: Fill the pit with approved chemical compounds suitable for maintenance-free earthing. Earthing Connection: Connect the electrode with a PVC-insulated copper conductor for earthing. Inspection Provision: Provide an inspection chamber or pipe for easy access and monitoring. Restoration: Make good the excavated pit area after installation. Testing & Commissioning: Conduct earth resistance testing and commission the earthing system to ensure proper functioning. Complete Work: The entire scope shall be executed in accordance with relevant standards and completed in all respects, ensuring a reliable, maintenance-free earthing system.	0.00	Nos.		
3.2	Supplying, fixing, connecting, and testing PVC-insulated 1×10 sq mm copper wire from earth electrode to switchboard with necessary M.S. conduit, clamps, bolts, nuts, and accessories complete.	0.00	RMT		
TOTAL FOR UPS WORKS					

S.NO.	ITEM DESCRIPTION	QTY	UNIT	RATE	AMOUNT (Rs.)
C:-	AIR CONDITIONING WORKS (ACCESORIES ONLY)				
1.0	STABILIZER 90 TO 240 V	0.00	Nos.		
	Supply & fixing 4Kva Stabilizers input 90-275 and output 180-245 (Copper Binding)in postion. The stabilizers shall of high-low disply with countdown timer and instant start button type. The stabilizer shall be of branded co./make with copper binding etc. as per Bank/Architect approvals is must taken.				
2.0	DRAIN PIPE FOR SPLIT AC	120.00	R. Mt		
	Supplying & Laying of 2" dia Ridge PVC drain Pipe below finish floor level & 3/4" Dia PVC Drain pipe along the wall/panelling/partitions in position. The drain out pipe shall be from indoor unit to nearest out let drain pipeat floor level. The item is inclusive of allnecessary accesseries & fittings etc. completed as per satisfaction of Bank & Architect.				
3.0	Copper Gas Pipe with Insulation	0.00	R Mt		
	Providing & Suppling Insulated AC Copper Pipe in postion. The Standred Insulated Copper pipe for Gas outdoor to Indoor units, the copper dia shall be 3/8 & 5/8 size (incoming & outgoing). The insulated pipe shall be fixed proper clamping & necessary slope etc. The connection of insulated pipe shall be properly ridged & leakage free.				
4.0	S/F GI BRACKETS	0.00	Each		
	Suppling & Fixing of G I Brackets in position. The GI brackets shall be fixed at external wall with necessary deshfastners etc.				
5.0	Fixing of A.C Units indoor units as per location specified by the architect/Bank.	0.00	Each		
	Fixing of A.C Units indoor units as per location specified by the architect/Bank.				
TOTAL FOR AIR CONDITIONING WORKS					

S.NO.	ITEM DESCRIPTION	QTY	UNIT	RATE	AMOUNT (Rs.)
<u>COST SUMMARY</u>					
	TOTAL FOR ELECTRICAL WORKS				
	TOTAL FOR UPS WORKS				
	TOTAL FOR AIR CONDITIONING WORKS				
	TOTAL BEFORE GST				₹ -
	ADD 18% GST				
	NET AMOUNT AMOUNT AFTER GST				
			SAY		₹ -
Amount In Words: Rupees					
	Contractor's Under taking: 1- Myself/my repesantaive have inspected the said Branchpremises personally. 2- I have read and understand all the specifications and terms & conditions properly.				
Contractor's Sign and Stamp		ZO: INDIAN BANK, DEHRADUN			