



**FGM Office, Lucknow, 1stFloor, New Building, Hazaratganj,
Lucknow-226001**

FINANCIAL BID (ELECTRICAL WORKS)

FOR

**PROPOSED REPAIR & RENOVATION OF HOSTEL ROOMS, RELATED CIVIL WORKS ALONG WITH
NECESSARY INFRASTRUCTURE, INTERIOR WORKS EXTERNAL PAINTING, WATER PROOFING,
ELECTRICAL WORKS, AIR- CONDITIONING WORKS, REPLACEMENT OF LIFT (1 NO) IN
STAFF COLLEGE, LUCKNOW CAMPUS AT SECTOR No.:485-486-487, SECTOR 21, INDIRA NAGAR,
LUCKNOW- 226016.**

Ref.No:TENDER ID.: FGM/LUC/EST/STC/2025-26 -01

Date : 27.02.2026

Name of the contractor:

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ARCHITECT / CONSULTANT

SANDEEP GOVALKAR DESIGN ASSOCIATES

CLIENT : INDIAN BANK

PROJECT: - PROPOSED ELECTRICAL, FIRE FIGHTING, DATA & CCTV WORKS FOR INDIAN BANK STC PREMISES AT LUCKNOW

BILL OF QUANTITIES- ELECTRICAL WORKS

Sr.	Particulars	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
	ELECTRICAL				
I	PART 1 PANEL BOARDs & DBs				
1	Supply, Installation, Testing, Commissioning of MAIN LT PANEL	1.00	nos		
	Incomer:				
	1No. 400A, 55kA, MCCB, 4P with Mic. releases as follows:				
	i. Over load release 0.8 to 1.0 I _{re}				
	ii. Short circuit release				
	iii. Rotary operating handle				
	iv. R,Y,B Indication lamps				
	Tinned & Sleeved Aluminium Bus Bars - 4Pole, 55kA. 400 Amps				
	Load Manager suitable for I, V, KVA, KW, KWH, with 300/5A CT's-one set of three nos-				
	400 Amps 3-phase Manual Changeover switch for Genset supply - 1				
	Outgoing:				
	MCCBs, 3P with adjustable Thermal magnetic releases OL, SC for each feeders as follows:				
	i. Over load release 0.8 to 1.0 I _r				
	ii. Short circuit release				
	iii. Rotary operating handle				
	125A, TPN MCCB , 35kA - 6Nos.				
	MCB as follows :				
	1. 63A, TPN, MCB -6Nos.				
	2. 20A, DP, MCB - 6Nos				
	The Panel shall be suitable for Top entries floor mounting type				
2	1 Nos. 100A, 35kA, MCCB, 4P with adjustable Thermal magnetic releases, as follows:	5.00	nos		
	i. Over load release 0.8 to 1.0 I _r				
	ii. Short circuit release				
	iv. R,Y,B Indication lamps				
	Load Manager suitable for I, V, KVA, KW, KWH, with 300/5A CT's-one set of three nos-				
	Tinned & Sleeved CU Bus Bars - 4Pole, 35kA, 100A (P=N).				
	Outgoing:				
	MCB, 10kA, D-Curve as follows :				
	1. 40/63A, 4P, MCB - 6Nos				
	The Panel shall be suitable for Top entries wall mounting type				
3	APFC Section- 90KVAR Automatic control capacitor bank	1.00	set		
	160A, TPN MCCB , 25kA - 1No as Incomer				
	7 stage APFC Relay				
	25KVAR capacitor bank with 63A Backup MCB, 50A TP contactor, 25KVAR heavy duty capacitors, start/ stop, etc - 2Sets				
	10KVAR capacitor bank with 32A Backup MCB, 20A TP contactor, 10KVAR heavy duty capacitors, start/ stop, etc - 3 set				
	05KVAR capacitor bank with 32A Backup MCB, 12A TP contactor, 05KVAR heavy duty capacitors, start/ stop, etc - 2 set				
	The Panel shall be suitable for Top entries floor mounting.				
	The above complete with all accessories.				
	iv. R,Y,B Indication lamps				
	Load Manager suitable for I, V, KVA, KW, KWH, with 300/5A CT's-one set of three nos-				
	Selector switches - 8 nos				
	Tinned & Sleeved AL Bus Bars - 4Pole, 35kA, 250A (P=N).				

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	MCB, 10kA, D-Curve as follows :			
	1. 32A, 3P, MCB - 7Nos			
	3. 16/25/32A, SP, MCB - 7Nos			
	The Panel shall be suitable for Top entries wall mounting type			
4	Supply, Installation, Testing & Commissioning of Distribution Boards complete with MCBs/Isolators/ Bus bars and interconnections. Preferably standard DB's of specified makes as per list of materials shall be used (DOUBLE DOOR IP42)			
a	TPN as follows: ETPN DB (LDB's/RPDB's)	12.00	nos	
	Incomer 63A TP MCB-- 1 No.			
	Incomer 32A, 100mA, 2P RCCB- 3 Nos.			
	Outgoing 10 A/16A/20 A SP MCBs -24Nos.			
	Separate Neutral Buses for Each Poles to be given			
b	TPN as follows: ETPN DB (ACDBs)	5.00	nos	
	Incomer 40A TP MCB-- 1 No.			
	Incomer 25A, 100mA, 2P RCCB- 3 Nos.			
	Outgoing 10 A/16A/20 A SP MCBs -24Nos.			
	Separate Neutral Buses for Each Poles & Insulated Earth Bus to be given			
c	TPN as follows: ETPN DB (ELDB)	5.00	nos	
	Incomer 63A, 100mA, 2P RCCB- 1 No.			
	Outgoing 10 A/16A/20 A SP MCBs -10Nos.			
	Separate Neutral Buses for Each Poles & Insulated Earth Bus to be given			
d	UPS Main Power 24 way DB	1.00	nos	
	Incomer 100A, TPN MCCB- 1 No.			
	Outgoing : 100A, TPN MCCB- 1 No.			
	Outgoing for Each Floor - 40 A 2-pole MCB - 8 Nos			
	Separate Neutral Buses for Each Poles & Insulated Earth Bus to be given			
e	UPS Output DB. Floor Each Floor	6.00	nos	
	Incomer 40 A 2-pole MCB - 1 No			
	Outgoing : 20 A SP MCB - 8 Nos			
	Separate Neutral Buses for Each Poles & Insulated Earth Bus to be given			
f	Providing of MCB Distribution Board for Lift 25 Amp 4 Pole MCB=1 No. 25 Amp 4 Pole 300 ML ELCB = 1 No. 25 AMP 2APol RCCB = 1 No. 16 AMP 2 Pole MCB = 1 No. 6 MAP 2 Pole MCB = 1 No. 4 Way Distribution Board With Internal Wiring (Double Door)	1.00	Nos	
	TOTAL FOR PART 1 PANEL BOARDs & DBs			
II	PART 2 L.T. CABLES			
	Note: All Aluminium conductor XLP / PVC insulated Armoured Cable and Copper Conductor shall be FRLS PVC insulated single core . The rate including Termination for Copper Cable			
1	Supply and laying of Aluminium/Copper Armoured 1.1kv grade, fixed to walls, ceilings or laid in ready-made trench or tied to cables trays with cable ties as follows:			
a	3.5 Core 210 sq. mm. Armoured Aluminium cable. (Up to Main Feeder Panel as per site condition))	20.00	Mtrs	
b	4 Core 50 sq. mm. Armoured Aluminium cable. (From Main Feeder Panel to Each Floor Main Panel)	120.00	Mtrs	

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c	4 Core 35 sq. mm. Armoured Aluminium cable.	140.00	Mtrs		
d	4 Core 16 sq. mm. Armoured Aluminium cable.	150.00	mtrs		
e	10 Sq.mm x 4 C Armoured aluminium cable	100.00	Mtrs.		
f	SITC of 4 x 6.0 Sq.mm Copper Conductor FRLS PVC insulated single core + 1 x 4.0 Sqmm Copper Conductor FRLS PVC insulated single core Earth Wire in PVC Pipe fixing on walls or chasing the walls and making it good with cement mortar of 1:5 ratio and painting compete with end termination/lugs and in all respect as required	50.00	Meter		
g	SITC of 4 x 10.00 Copper Conductor FRLS PVC insulated single core + 1 x 4.0 Sqmm Copper Earth Conductor FRLS PVC insulated single core cable in PVC Pipe fixing on walls or chasing the walls and making it good with cement mortar of 1:5 ratio and painting compete with end termination/lugs and in all respect as required.	125.00	Meter		
h	SITC of 2 x 10 Sq.mm Copper Conductor FRLS PVC insulated single core + 1 x 6Sqmm Copper conductor FRLS pvc insulated Earth in PVC Pipe fixing on walls or chasing the walls and making it good with cement mortar of 1:5 ratio and painting compete with end termination/lugs and in all respect as required.	145.00	Meter		
i	SITC of 3 x 6 Sq.mm Copper Conductor FRLS PVC insulated single core + 1 x 2.5 Sqmm Copper conductor FRLS pvc insulated Earth in PVC Pipe fixing on walls or chasing the walls and making it good with cement mortar of 1:5 ratio and painting compete with end termination/lugs and in all respect as required.	145.00	Meter		
j	SITC of 3 x 4 Sq.mm Copper Conductor FRLS PVC insulated single core + 1 x 2.5 Sqmm Copper conductor FRLS pvc insulated Earth in PVC Pipe fixing on walls or chasing the walls and making it good with cement mortar of 1:5 ratio and painting compete with end termination/lugs and in all respect as required.	1,800.00	Meter		
k	SITC of 3 x 2.5 Sq.mm Copper Conductor FRLS PVC insulated single core in PVC Pipe fixing on walls or chasing the walls and making it good with cement mortar of 1:5 ratio and painting compete with end termination/lugs and in all respect as required.	145.00	Meter		
l	SITC of 3 x 2.5 Sq.mm Copper Conductor FRLS PVC insulated single core in PVC Pipe fixing on walls or chasing the walls and making it good with cement mortar of 1:5 ratio and painting compete with end termination/lugs and in all respect as required.	140.00	Meter		
2	Termination of the above cables with Heavy duty Double Compression Brass cable glands & copper heavy duty lugs with bi metallic rings. (4c/3.5c/3c)				
a	3.5 Core 210 sq. mm. Armoured Aluminium cable.	1.00	nos		
b	3.5/4 Core 50sq. mm. Armoured Aluminium cable.	10.00	nos		
c	3.5/4 Core 35sq. mm. Armoured Aluminium cable.	8.00	nos		
d	4 Core 25 sq. mm. Armoured Aluminium cable.	20.00	nos		
e	4 Core 16 sq. mm. Armoured Aluminium cable	20.00	nos		
	TOTAL FOR PART 2 L.T. CABLES				
III	PART 3 CABLE TRAYS & RACEWAYS				

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1	Supply & installation of MS Powder coated (colour shade as per Architect / Client choice) , 2.mm Thick , 50mm height, readymade Ladder Type cable trays complete with couplers, bends etc. The rate to include supports of 32x32mmx2mm of angle with 12mm vertical rods fixed with 8/10mm Anchor fasteners. The vertical support shall be placed at interval of not more than 1.0 Metres & at all bends. AS PER APPROVED MAKE				
a	600mm wide	12.00	Mtrs		
b	450mm wide	5.00	Mtrs		
c	300mm wide	15.00	Mtrs		
d	150mm wide	20.00	Mtrs		
2	Supply & installations of MS Powder coated trenching (colour shade as per Architect / Client choice) , 2.mm Thick, 100mm height, readymade trucking with cover , couplers, bends etc. The rate to include supports of 25x25mmx3mm of angle with 10mm vertical rods fixed with 6mm Anchor fasteners. The vertical support shall be placed at interval of not more than 1.0 Meters & at all bends.				
a	100mm X 100mm X 2mm	60.00	mtrs		
3	Supply & installations of Pre Galvanised , 2.mm Thick, 50mm height, readymade Perforated Type cable trays complete with couplers, bends etc. The rate to include C-Clamp supports from Floor. For Server / Hub Rooms.				
a	450mm wide	65.00	Mtrs		
b	300mm wide	65.00	Mtrs		
c	150mm wide	110.00	Mtrs		
4	Preparation of trenches up to 18" wide by carefully removing the floor tiles & malwa below the tiles for laying Raceways/conduits for power, Data, voice etc. The depth of the trenches shall be at least 50mm from the finished floor level or up to RCC of the slab. The rate shall include filling the trenches with rich mix of 1 : 2 PCC after laying of the Raceway/conduits for smooth finish up to original tile level. The rate shall not include the cost of the Raceways/conduits.	70.00	Mrs.		
5	Supply and laying Raceways/Conduits in the trenches OR fixed to walls /Ceiling as detailed above or through partitions with all accessories, bends, pull wire separately. The metal conduits / Raceways shall be earth. The rate include all accessories but excluding the floor mounted junction boxes which shall be paid. the rate shall include bends, couplers etc.				
a	100mm x 40mm Aluminium Section, 2.0mm Thk.	35.00	Mtrs		
b	83mm x 38mm Aluminium Section, 1.60mm Thk.	10.00	Mtrs		
c	63mm x 38mm Aluminium Section, 1.60mm Thk.	20.00	Mtrs		
d	32 mm HMS PVC conduits	1,050.00	Mtrs		
e	25 mm HMS PVC conduits	2,000.00	Mtrs		
6	Supply & installations of pre galvanised Junction Boxes made of 2.0 mm thk/1.6mm thk, with removal Stainless Steel Top Cover 2.0mm thk , all side entries for raceways, complete with all accessories. The rate to include fixing the junction box on the floor Trenches or floor described above. Sample junction box to be approved first.				
a	450mm x 450mm wide x 50mm ht - 2.0mm thk	10.00	No		
b	350mm x 350mm wide x 50mm ht - 2.0mm thk	10.00	No		
c	250mm x 250mm wide x 50mm ht - 1.6mm thk	5.00	No		
d	150mm x 150mm wide x 50mm ht - 1.6mm thk	10.00	No		
7	S & I of UPVC Conduits MMS for IT Cables etc fixed to walls/Ceiling with spacers & saddles OR in readymade under floor trench as per standard practice.				
a	50mm Dia	25.00	mtrs		
b	32mm Dia	30.00	mtrs		
	TOTAL FOR PART 3 CABLE TRAYS & RACEWAYS				

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IV	PART 4 POWER OUTLETS & WIRING				
1	Supply and fixing of computer power outlets, Modular type (shuttered) switch sockets.				
a	Supply & Installation of point wiring using 2X2.5+1X1.5 Sq.mm copper conductor PVC sheathed flexible wire pulled through floor raceways/conduit and taken up to table top using PVC rigid or flexible conduits run within wooden/metal partitions. Each point consisting of 3 nos of 10A , 2/3/5 pin sockets & 1 No., 16A Switch (Modular).The earth wire of green colour only. (UPS/RAW)	100.00	nos		
b	Supply & Installation of secondary point wiring(looped with above circuit) for UPS or stabilized power plug points consisting of 2nos of 5A , 2/3 pin sockets & 1 No., 10A Switch , wired together forming one point. The earth wire of green colour only (UPS/RAW)	100.00	nos		
c	Supply & Installation of point wiring for Raw power plug points on workstations / table for computers using 2X2.5+1X1.5 Sq.mm copper conductor PVC sheathed flexible wire pulled through floor raceways/conduit and taken up to table top using PVC rigid or flexible conduits run within wooden/metal partitions. Each point consisting of 2Nos 6A, Switch Socket. The switch socket set shall be flush mounted in modular furniture. The rate shall include connections, Testing & commissioning etc. (On Raw Power for Charging and equipments)	110.00	nos		
d	Supply & Installation of point wiring for Raw power plug points on workstations / table for computers using 2X2.5+1X1.5 Sq.mm copper conductor PVC sheathed flexible wire pulled through floor raceways/conduit and taken up to table top using PVC rigid or flexible conduits run within wooden/metal partitions. Each point consisting of 1 nos of 16A , 2/3/5 pin sockets & 1 No., 16A Switch (Modular).The earth wire of green colour only.	150.00	nos		
e	1Nos 16A Socket only. The socket set shall be surface mounted with PVC box. For IDUs	100.00	nos		
f	1Nos 16A Socket only. The socket set shall be surface mounted with PVC box. For Cassette IDUs	20.00	nos		
2	2nos TV socket complete with Faceplates etc.	10.00	nos		
3	1nos TV socket complete with Faceplates etc.	50.00	nos		
a	4W / 6W / 8W Splitter foot TV cables	8.00	nos		
b	Supply, installation of RG11 Co-axial cable for TV with PVC Conduits MMS 25mm/32 mm fixed to walls/Ceiling with Spacers & saddles. Rate includes the cost of PVC MM Conduit.	12.00	mtrs		
c	Supply, installation of RG11 Co-axial cable for TV through already laid raceways / cable trays etc.	15.00	mtrs		
d	Supply, installation of RG6 Co-axial cable for TV with PVC Conduits 25mm/32 mm fixed to walls/Ceiling with Spacers & saddles. Rate includes the cost of PVC MM Conduit.	-	mtrs		
e	Supply, installation of RG6 Co-axial cable for TV through already laid raceways / cable trays etc.	10.00	mtrs		
4	Supply & Laying of 3Cx2.5sqmm flexible Copper cable (FRLS) for Power sockets for UPS Power through already laid Raceways/conduits/Cable Trays etc.				
a	3 Nos of 2.5 Sqmm.	-	Mtrs		
5	Supply, installation, testing & commissioning of MCB's in Metal boards including termination, as follows:				
a	40/63A TPN MCB in Metal boards in IP42 enclosure	5.00	nos		
b	40/63A TPN MCB in Metal boards in IP65 enclosure	4.00	nos		
c	16/25/32A TPN MCB in Metal boards in IP42 enclosure	2.00	nos		
d	16/25/32A TPN MCB in Metal boards in IP65 enclosure	2.00	nos		
e	40/63A DP MCB in Metal boards in IP42 enclosure	6.00	nos		
f	16/25/32A DP MCB in Metal boards in IP42 enclosure	2.00	nos		
g	20A Reyrol Plug & Socket with 20A SP MCB in IP42 Metal enclosure.	45.00	nos		

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6	Replacement of Switch Boards with Modular GI Boxes using the existing Wiring (approved branch Anchor Roma plus /MK/Legrand)				
	<p>Supply and fixing of below mentioned switches, sockets, regulators, installed in a suitable-sized Modular GI box with modular plate and cover, recessed in wall, including all necessary internal wiring terminations and with all necessary connections complete.</p> <p>Switches and sockets in each room shall be clubbed to a common modular box as directed by the Bank's Engineer and no separate payment shall be made for clubbing.</p> <p>The quoted rate shall be inclusive of removal of existing switches, associated GI/wooden boxes, termination of outgoing wires, internal wiring and all associated civil works such as wall cutting, chipping, plastering to make good the surface for matching the existing finish.</p> <p>The socket shall be mounted separately as per requirement and as directed by the Bank's Engineer.</p>				
a	6A One-way Switch to control the light/fan point	400.00	Nos		
b	6A two-way Switch to control the light/fan point	70.00	Nos		
c	6A Call bell switch	50.00	Nos		
d	1no 6A modular wall socket and 1 No modular switch	50.00	Nos		
e	16 A modular wall socket and 1 No. 16 A modular switch	50.00	Nos		
f	16A modular wall socket and 1 No. 16A modular switch with indicator for geyser	50.00	Nos		
e	1 no modular socket type electronic regulator for ceiling fan	50.00	Nos		
f	1no Modular ac wall socket and 1 no 20 amp SP modular MCB	50.00	Nos		
e	Modular Blank Plate	100.00	Nos		
	TOTAL FOR PART 4 POWER OUTLETS & WIRING				
V	PART 5 POINT WIRING				
1	<p>Point wiring through Medium Gauge 25mm/20mm PVC Conduits with 2/3 Nos of 1.5 sqmm (Phase, Neutral & Earth), PVC Insulated Copper Conductors FR Grade, controlled from MCB in DB, looped points, switch board control with 6A modular switches, lighting coffer points etc. The looped points from primary to secondary shall be with 1x1.5 +1 Sqm sqmm FR grade copper wires. The wiring to be done in concealed manner. The rate also including 2 Nos. 2.5 sqm circuit wires from the relevant DB and 2.5 sqmm green colour copper earth wire. Also switch plate, switches, etc. as approved by the Bank's Engineer/Architect. Note that the lighting coffer points shall be considered as one single point. The Point wiring shall be directly terminated in the fitting through PVC Flexible conduit & coupling (from ceiling to fitting).</p>				
a	For primary light points controlled from Switch boards with 6A Modular switches.	575.00	nos		
b	For Secondary light points looped from primary points	350.00	Nos		
c	For 6A 5 pin Socket controlled with 6A Switch fixed on Lighting Switchboard.	90.00	Nos		
d	For Light Dimmer on Lighting Switchboard.	5.00	Nos		

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e	For Exhaust Fan Points with 6A Socket near Fan & 6A Switch on nearest Lighting Switchboard.	76.00	nos		
f	Bell Point With Indicator Type Bell.	44.00	nos		
g	Supply, Installation, Testing & Commissioning of master MCB switch for each room .	44.00	nos		
2	Supply & Laying point for Power sockets with respective /DBs using 2nos. 2.5sqmm & 1No. 1.5sqmm FR wire through 25 mm. PVC conduits MMS , medium gauge as follows: (The rate shall include the cost of conduits & all accessories). Wires FR. The point includes wiring from DB to switchboard & switchboard,(Max 06nos. 5A plug-point & 02Nos 15A plug-point can loop in one circuit)				
a	For 5A Plug Point with control switch	80.00	nos		
b	For 15A Plug Point with control switch	55.00	nos		
	TOTAL OF PART 5 POINT WIRING				
VI	PART 6 EARTHING				
1	Preparation and commissioning of earth pits Chemical earths (Ashlok or equivalent). The electrode shall be 80mm Dia & connected with 25mmx3mm thick copper strip and terminated into the chamber with brass nut bolt arrangement. The rate shall include cost of earthing strip up to the chamber. The earth resistance shall not exceed 2.0 ohms. The rate shall include testing the same & documentation. (IS 3043 1987):	10.00	nos		
a	For UPS System - 2Nos				
2	Supply and laying of earthing strips from earthing chamber to various Power Panels and terminating the same. Strip to be laid through cable trenches/cables trays with required clamping arrangement. The portion on building wall & up to the main panel shall be fixed with spacers and saddles. Joints shall be lap welded//Braze & coated with bitumen. The rates shall include cost of all materials & accessories.				
a	50mm x 6mm GI earthing strip	60.00	mtrs		
b	40mm x 5mm GI earthing strip	150.00	mtrs		
c	25mm x 3mm GI earthing strip	100.00	mtrs		
d	25mm x 3mm Cu earthing strip:	100.00	mtrs		
e	Providing 8 gauge G.I earthing 2 no's Meter Room to LIFT Machine Room	35.00	mtrs		
3	Supply & laying of single core flexible PVC insulated Copper conductor through PVC conduits of suitable sizes of 2mm thk, from Earth Pit to UPS/Comm equipment thro' ducts, trays etc. The rates shall include cost of Termination & all materials & accessories. (FR)				
a	PVC insulated Single core 50 sqmm.	50.00	mtrs		
b	PVC insulated Single core 16 sqmm.	50.00	mtrs		
c	PVC insulated Single core 10 sqmm.	50.00	mtrs		
d	PVC insulated Single core 6 sqmm.without conduit & tied with Cables.	80.00	mtrs		
e	PVC insulated Single core 4 sqmm.without conduit & tied with Cables.	80.00	mtrs		
f	PVC insulated Single core 2.5 sqmm.	120.00	mtrs		

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4	Supply, Installation, Testing, Commissioning of Earth Bus of following sizes inside powder coated MS fabricated box to be mounted on insulator as follows:				
a	40mmx5mm x300 mm Long Copper Bus -UPS Room	5.00	set		
	TOTAL OF PART 6 EARTHING				
VII	PART 7 ELECTRICAL FITTINGS				
1	Supply, Installation & commissioning of Energy efficient recessed mounted LED luminaries - Green Square, profiled recess mounted luminaries, energy efficient with longer life, resulting in lower operational cost Philips - RC360B LED 36S-6500 PSE WH 220-240V 50Hz / Wipro/ Crompton Greaves or any other make approved by Bank/ architect .	200.00	nos		
2	Supply, Installation & commissioning of surface 18/20W LED down lighter - Surface mounted LED down lights like Philips 1xDLED -6500 PSU WH complete in all respects or equivalent Wipro/ Crompton Greaves or any other make approved by Bank/ architect	500.00	nos		
3	Supply, Installation & commissioning of recessed 9/10 W LED down lighter - Recessed mounted LED down lights like Philips BBS170 1xDLED -3000 PSU WH complete in all respects or equivalent Wipro/ Crompton Greaves or any other make approved by Bank/ architect	150.00	nos		
4	Supply, Installation & commissioning of recessed 9/10W LED COB type down lighter - Recessed mounted LED down lights like Philips WH complete in all respects or equivalent Wipro/ Crompton Greaves or any other make approved by Bank/ architect	36.00	nos		
5	Supply, Installation, Testing & Commissioning of 1x28T5 Patti type LED tube light fixture. The rate shall include cost of tube & Connection with 3 Core 0.5sq. mm. Copper flexible cable. Fixture shall be fixed on round blocks.	223.00	nos		
6	Supply, Installation, Testing & Commissioning of Liner light of approved make and approved thickness for rafter ceiling concealed lights as directed by architect / Bank's engineers	10.00	nos		
7	Supply, Installation, Testing & Commissioning of surface cob light of approved make and approved thickness for rafter ceiling concealed lights as directed by architect / Bank's engineers	10.00	nos		
8	Supply, Installation, Testing & Commissioning of LED strip light with driver , Philips UNILinear Flexa real IP68 cove lighting or equivalent	100.00	mtrs		
9	Supply, Installation, Testing & Commissioning of 48" Ceiling Fan , supported with Down rods from ceiling slab / trusses Make : Crompton, Bajaj, GE.	120.00	nos		
10	Supply, Installation, Testing & Commissioning of 9" Exhaust fan 1000 rpm heavy duty. Make : Crompton, Bajaj, GE.	74.00	nos		
11	Supply, Installation, Testing & Commissioning of 18" Exhaust fan 1000 rpm heavy duty. Make : Crompton, Bajaj, GE.	2.00	nos		
12	CHANDELIERS (APPROVED BY ARCHITECT) (Basic Cost = Rs 15000)	2.00	nos		
13	CHANDELIERS (APPROVED BY ARCHITECT) (Basic Cost = Rs 20000)	1.00	nos		
14	Supply, Installation, Testing & Commissioning of motion sensor for lights appliances.	81.00	nos		
15	Supply, Installation, Testing & Commissioning of IP67 50 w LED BRACKET LIGHT with MS rod & accessories (Outdoor & Terrace Areas)	14.00	NOS		
16	Supply, Installation, Testing & Commissioning of ISI Marked and certification 3.0 KW Instanio 3- litre instant geyser (WHITE BLUE) approved make	48.00	NOS		
17	Supply, Installation, Testing & Commissioning of Almonard 18 " (450 mm) wall mounted 3 Speed cast aluminium metal blade fan basic cost: - Rs. 6000	8.00	NOS		

PROJECT: - PROPOSED ELECTRICAL, FIRE FIGHTING, DATA & CCTV WORKS FOR INDIAN BANK STC PREMISES AT LUCKNOW

BILL OF QUANTITIES- ELECTRICAL WORKS

18	<p>Lightning Arrester To protect a training institute (in Lucknow) from lightning strikes.need to consider installing ESE (Early Spark Emission) lightning arresters. ESE LA 107 MTR RADIUS .107 mtrs RADIUS protection covered area ESE lightning arrester of Approved Brand as per standard NFC 17-102 L A accessories : includes wire, Rope Wire,Nutbolt,Farsnet Insulator etc. L.A. accessories GI MAST 3 mtrs,50 MM DIAhot dip GI MAST DIA 50 MM Length 3 mtrs with base plate. Active Protection: ESE systems are designed to attract lightning strikes and safely conduct the current to the ground. <input type="checkbox"/> Reliability: They shall be having reliability in capturing lightning and safely discharging it to the ground. <input type="checkbox"/> Cost-effective: ESE systems are generally considered cost-effective in the long run due to their reliability. <input type="checkbox"/> Compliance: Ensure the installation meets all relevant electrical safety standards and regulations.</p>	1.00	SET		
19	Providing hoist way LED bulk head, Box, Switches with lamp.	5.00	nos		
	TOTAL OF PART 7 ELECTRICAL FITTINGS				
VIII	PART 8 MISCELLENOUS				
1	arranging temporary power for all agencies to work including suitable protection through MCBs/ELCBs/MCCBs & cabling. the rate to include statutory approval from local electrical inspectorate & other required satatutorybodies, presentation of AS-BUILT drawings, testing of the installation & preparation of test report as required by statutory bodies. Note: The testing shall be carried out by professional Testing Agencies for various Test & documented. The rate to include removable of existing panels/DBs, cabling etc.	-	Job		
	TOTAL OF PART 8 MISCELLENOUS				
IX	PART 9 FIRE ALARAM & PUBLIC ADDRESS SYSTEM				
A	FIRE PANEL SPECIFICATION				
	Fire Alarm Control Panel shall operate at 240V AC 50 Hz Main Power Supply. FACP shall be of 1.6mm thick CRCA sheet powder coated with Red colour finishing capable of wall or flush mounted. The FACP shall be provided with suitable earthing terminal, cable entry from the top and internal wiring completely. The door shall be provided with hinged type key lock arrangement. FACP shall be UL listed (certificate shall be provided). It shall have provision of SMPS supply. It shall have inbuilt USB port for easy configuration. Also inbuilt networking RS-485 facility. Programmable relays shall be provided. Standby 24V DC Sealed Lead acid batteries shall be included. It should be compatible for Peer to Peer networking. The FACP should have capacitive touch keypad instead of mechanical switches. It should be compatible to connect 254 devices (any combination) per loop.				
1	Supply, installation, testing and commissioning (SITC) of 4 Loop microprocessor based Addressable Fire Alarm Control Panel with Battery etc.	1.00	nos		
B	INSTRUMENTSSPECIFICATION (UL LISTED)				
1	SITC of Addressable Smoke Detectors along with mounting base, accessories, etc as required	114.00	nos		
2	SITC of Addressable Heat Detectors along with mounting base, accessories etc as required	5.00	nos		
3	SITC of Addressable Sounder cum hotter with 90 to 120 DB sound output at 1 Meter ,with ranging voltage 12 /24 V DC to 110V/230V AC with IP65 protection ,ABS housing ,panel/wall mounting along with mounting base, accessories etc as required	10.00	nos		

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4	SITC of Addressable Response Indicator along with mounting base, accessories etc as required	25.00	nos		
5	SITC of Addressable Manual Call Point along with mounting base, accessories etc as required	10.00	nos		
6	SITC of Addressable Output Module along with mounting base, accessories etc as required	5.00	nos		
7	SITC of Black colour Addressable Isolator Module along with accessories etc as required	5.00	nos		
8	SIT of Fire Alarm Junction Box with required accessories as required	114.00	nos		
9	SIT of Addressable Control Module with required accessories as required	5.00	nos		
10	SIT of Addressable Relay Module with required accessories as required	5.00	Mtrs		
11	1100V Grade 2C(1P) x 1 Sq. mm. Shielded Multi-stranded Bare copper conductors, PVC insulation, conductors twisted paired together, rip cord, armoured FRLS PVC Outer jacket Red colour. Sequential footage marking every two feet. Temp Rating 70°C including termination accessories	-	Mtrs		
C	ANNUAL MAINTENANCE CONTACT				
1	All in all manual maintenance contract for entire system including cabling/wiring after expiry of warrantee period of two years from date of handling over/taking over of installation/ virtual date of completion. Any fault shall be attended within 48 hrs. From time of giving information & all routine testing of system shall be done at regular Interval of three months & reports for healthiness of system shall be submitted on the basis of which quarterly payments shall be made.	1.00	job		
D	SECTION D - PUBLIC ADDRESS SYSTEM				
	Supplying, erecting, testing and commissioning amplifier 240 W for	1.00	Nos.		
	Public address system suitable to operate on 230 Volts A.C. / 12 Volts D.C. supply as per specification No. FF- PA/AFR& integration of existing system. (Make- Ahuja)				
	6W Multi-Tap Ceiling Mount Speakers high quality type music speakers with fire dome to be fixed flushed with false ceiling with line matching transformer for direct connecting to 100/70 V output line. The speakers shall be of same make as that of the Control Panel & Amplifiers. They shall be compatible with supplied Amplifiers and shall work on 70.7Vrms. UL/EN Listed (Make-Ahuja / Bosch)	22.00	Nos		
	2C x 1.5 mm ² , Stranded Copper conductor, Type AST 1 PVC insulated, Armoured FRLS Cable 650 V as per IS 1554, with GI saddle spacers every 0.3 mtr with Single compression Cable Glands, ABS Junction Boxes (wherever required), terminals, Ferruling complete. (Make - Polycab)	800.00	mtr		
	Providing Volume control - cum - ON - OFF switch flush mounted on wall along with other electrical switches with size & regulating knob matching the electrical fittings, upto 25 Watts- (Make -Bosch)	10.00	Nos.		
	Integration, Programming, Testing, Commissioning of Existing PA system with new system	1.00	Job		
E	SECTIION E supply & installation surface mountable pvc boxes for speaker fitting etc .	22.00	nos		
1	Supply , Installation, Testing and Commissioning of Switch MAKE : D-LINK / TP LINK 8-Port Gigabit Switch for wifi router .	1.00	NOS		
2	Supply , Installation, Testing and Commissioning of MAKE : D-LINK / TP LINK ACCESS WIFI Router for wifi .	10.00	NOS		
3	Supply , Installation, Testing and Commissioning of 6U rack for wall mounting cctv .	1.00	NOS		
4	Supply , Installation, Testing and Commissioning of eSSL multi - Biometric time Attendance & Access control system with facial recognition , RFID , fingerprint , ip65 dust & waterproof rating .	1.00	NOS		
	ACCESS CONTROL - ELECTROMAGNETIC LOCK				

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5	Supply, Installation, Testing and Commissioning of EM LOCK with all required accessories on define Door, 12V capacity, Electromagnetic mechanism for interlocking with all required Components.	1.00	NOS		
TOTAL SECTION 9 FIRE ALARAM & PUBLIC ADDRESS SYSTEM					
X	PART 10 NETWORKING/Tel BOQ (including Conduites)				
I	Supplying and laying of D-Link make CAT-6 (UTP) cable through trenches / 20/25 mm conduits.				
a	Supplying and laying D-link make CAT-6 Cable complete with CAT-6 information outlet with plate & surface Box at individual Tables	120.00	Nos		
b	Supplying and fixing of 2 mtr long crimped patch cord	120.00	Nos		
c	Supplying and fixing of 1 Mtr long crimped patch cord	120.00	Nos		
d	Jack Panel - 24 ports	6.00	Nos		
e	SITC of 12U Rack including wire manager, power supply card, hardwares etc. complete in all respects	2.00	Nos		
f	SITC of 15U Rack including wire manager, power supply card, hardwares etc. complete in all respects	2.00	Nos		
g	S/I/T/C of CAT 6 UTP UpLink cable between Rack	200.00	RM		
II	Telephone				
1	Supply & laying of CAT - 6e cables Giga speed D -Link/ Systemex make through 1" rigid PVC conduit/channel as directed by the consultant/Bank from MDS Box to Telephone socket including interconnection with	40.00	Each		
2	Supply & fixing of MDS box with 10 pair Crone with top plate	3.00	Each		
3	Supply & fixing of MDS box with 30 pair Crone with top plate	2.00	Each		
TOTAL SECTION 10 :NETWORKING					
XI	PART 11 CCTV (including pvc conduit pipe)				
1	CABLING FOR CCTV and Networking Communication	1,500.00	mtrs		
	Supply, laying, Testing and Commissioning of CAT 6 UTP cable solid cable, Conductor : 23 AWG (Solid) , META : Bare Copper, Insulation Material : with conduit				
2	NETWORK VIDEO RECORDER (NVR)	1.00	nos		
	Supply, Installation, Testing and Commissioning of Network Video Recorder having Minimum 64 Channel Input and 8 SATA support up 8 TB by each SATA slot. Resolution : Minimum 1920*1080, Audio Output : Yes with latest Ports				
3	CCTV CAMERAS	30.00	nos		

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	Supply , Installation, Testing and Commissioning of CCTV cameras 2.0MP Starlight Motorized Vandal proof IR Dome Camera with required accessories ,1/2.8" 2MP CMOS Sensor,H.265/H.264 HP/MP/BP/M-JPEG Encoding, Triple Stream, Up to 1920X1080 High Resolution, Motorized Lens:2.8mm/12mm, IR LEDs: 20m-30m, VCA:			
4	Tripwire/Perimeter/Crowd/Foreign & Missing Object/ Fast Moving etc., NIR,WDR, 3D DNR, HLC, Dual-ICR, AWB, AGC, BLC,1/1ch Audio I/O, 2/1ch, Alarm I/O, USB, Built-in Mic, PoE, DC12V/AC24V, TVS 6000V Protection, MicroSD Slot up to 128GB, Material: Metal, IP66, IK10.			
5	CCTV CAMERAS (including integration)	10.00	nos	
	Supply , Installation, Testing and Commissioning of CCTV cameras 4.0MP Starlight Motorized Vandal proof IR bullet Camera with required accessories,1/2.8" 4MP CMOS Sensor,H.265/H.264 HP/MP/BP/M-JPEG Encoding, Triple Stream, Up to 1920X1080 High Resolution, Motorized Lens:2.8mm/12mm, IR LEDs: 20m-30m, VCA:			
	Tripwire/Perimeter/Crowd/Foreign & Missing Object/ Fast Moving etc., NIR,WDR, 3D DNR, HLC, Dual-ICR, AWB, AGC, BLC,1/1ch Audio I/O, 2/1ch, Alarm I/O, USB, Built-in Mic, PoE, DC12V/AC24V, TVS 6000V Protection, MicroSD Slot up to 128GB, Material: Metal, IP66, IK10.			
5	NETWORK SWITCH FOR CCTV CAMERA	2.00	nos	
	Supply, Installation, Testing and Commissioning of Switch MAKE : D-LINK 28-Port Gigabit Smart Managed PoE Switch, MODEL : DGS-1210-28P,24 x 10/100/1000BASE-T PoE ports,4 x Gigabit RJ45/SFP Combo ports, Advanced L2 switching and security features,L2+ Static Routing, Optional "standard mode" or "surveillance mode" management user interface,193 W PoE budget.			
6	STORAGE FOR CCTV FOOTAGE	3.00	nos	
	Supply , Installation, Testing and Commissioning of Hard Disk into NVR for storing of CCTV Footage Make: WD purple, Model : WD80PUZX, Formatted capacity: 8TB,Form factor 3.5-inch,Advanced Format (AF), RoHS compliant, Interface transfer rate,(max)2 Buffer to host: 6 Gb/s, Host to/from drive (sustained): 178 MB/s, Cache (MB) : 128, Performance Class :5400 RPM Class, Load/unload cycles : 300,000, Non-recoverable read errors per bits read : <1 in 10 ¹⁴ , Average power requirements (W) Read/Write: 6.4, Idle: 5.7, Standby and Sleep :0.7, Temperature (°C, on the base casting) Operating: 0 to 65, Non-operating: -40 to 70, Shock (Gs) :30, Operating (2 ms, read/write) Operating (2 ms, read): 65, No operating (2 ms): 250, Acoustics (dBA)7 Idle: 20, Seek (average): 29, Height (in./mm, max): 1.028/26.1, Length (in./mm, max): 5.787/147, Width (in./mm, ± .01 in.): 4/101.6, Weight (lb/kg, ± 10%): 1.43/0.65.			
7	RACK FOR SWITCH MOUNTING	5.00	nos	
	Supply , Installation, Testing and Commissioning of 4U rack for mounting Network PoE Switch with 28 Port Patch Panelling and rack Dressing with 1Mtr. D-Link Patch Cable for Each Port. 4 SOCKET Spy Guard for Power Distribution for FAN and Switch.			
8	DISPLAY FOR CCTV	2.00	nos	
	Supply, Installation, Testing and Commissioning ofB2B LED display having screen size 65" with resolution at least 1920*1080. Make : LG / SAMSUNG			
9	CCTV Software Integration	-	nos	
	Integration, Installation, Testing & Commissioning of Newly Installed CCTV Control Devices in existing CCTV Control Software i.e. Cybernetics , SSI			
XII	BUY BACK			

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1	LESS SALVAGE FOR ALL EXISTING ELECTRICAL FIXTURES INCLUDING WIRING AND FITTINGS ETC.				
		Ceiling Fan	(50.00)	nos	
		Wall Fan	(20.00)	nos	
		Light Fittings	(100.00)	nos	
		Cabling	(1.00)	LS	
	Switches,MCB,Panelling ,switces st		(1.00)	LS	
	BUY BACK				
	TOTAL SECTION 11CCTV				
	TOTAL COST OF PROJECT (EXCLUDING GST)				
	ADD 18% GST				
	GRAND TOTAL (INCLUDING GST)				

SEAL AND SIGN OF CONTRACTOR.