Estimate - Electrical Works: Proposed Interior renovation works at **RBO Aligarh**

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	STATE BANK C	F IND	IA		
				Date:	11-11-2025
	ELECTRICAL BOQ FOR SBI RBO, ALIGARH (BLOCK	(-1, 2 & :	3)	Rev	
C No	DESCRIPTION OF WORKS	LINUT	OTV		R2
S.No. A. 1	DESCRIPTION OF WORKS Wiring for light point/ fan point/ wall fan point/ exhaust fan/	UNIT	QTY	RATE	AMOUNT
A. I	light sockets etc. with 1.5 sq.mm. PVC insulated 1100 V				
	Grade copper conductor (FRLS) wires & 1.5 sq.mm. copper				
	earth wire in concealed/ surface using 16 SWG MS conduits,				
	accessories such as bends, tees, saddles, draw boxes,				
	mounting boxes, inner plates, cover plates, ceiling rose etc				
	(whereever required) and chromium plates brass screws/				
	rowel plug etc. The circuit wiring starting from DB to point				
	control box/ switch box using 2 X 2.5 sq.mm PVC insulated				
	1100 V grade multi- stranded copper conductor wire & 2.5				
	sq.mm. PVC insulated earth wire (color code to be used).				
	(Flexible conduit/ elbow not allowed). The conduit to be laid				
	in ceiling with proper clamps/ wall/ floor and flling the chase				
	with cement mortar and finishing the same in original form/				
	wooden partition/ above false ceiling with proper clamps etc.				
	all complete.				
	(Wherever required as per standard specifications).				
	i) Each circuit shall have independent earth wire.				
	ii) Each point shall be earthed.				
	iii) Circuit wiring is to be included in point wiring rates.				
i	One light points controlled by one 6 amp. Modular switch	Nos.	31.00		
ii	Two light points controlled by one 6 amp. Modular switch	Nos.	33.00		
iii	Three light points controlled by one 6 amp. Modular switch	Nos.	17.00		
iv	Four light points controlled by one 6 amp. Modular switch	Nos.	16.00		
V	Five light points controlled by one 6 amp. Modular switch	Nos.	5.00		
vi	One call bell point with ceiling rose/ 6amp. 3 pin socket				
	controlled by one 6 amp. Push Modular switch. With call bell	Nos.	4.00		
, dii	One wall fan/ exhaust fan point controlled by one 6 amp.				
vii	Modular switch. The switch should be at switchboard level	Nos.	45.00		
	i rodutal switch. The switch should be at switchboard level	. 100.	.5.50		
viii	One 5 pin socket controlled by one 6 amp. Modular switch				
L	complete assembly includes plate box etc.				
а	Dependent	Nos.	14.00		
ix	Main specification as above for wiring / conduits, but using				
	2*2.5 + 1*2.5 Sqmm Copper Conductor FRLS wires from DB				
	to first 6A, 5 Pin modular socket controlled by one 6A switch				
	and looped to the nearest second point with same 2*2.5 +				
	1*2.5 Sqmm copper conductor wires FRLS insulated 1100V				
	grade (max 3 points per circuit).				
а	Primary	Nos.	26.00		
b	Secondary	Nos.	50.00		
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x	Same as serial no 1 but using 2*2.5 + 1*2.5 Sqmm Copper			
	Conductor FRLS wires from DB to first 16 Amp MCB two Nos.			
	, for Glow sign Board.			
	Primary	Nos.	6.00	
2	POWER POINTS			
i	Same as serial no.1, but wiring for 16 Amp, 6-pin sockets			
	by using 2*4 sq.mm. PVC insulated 1100 V grade copper			
	conductor wire with independent 1* 4.0 sq.mm earth wire			
	from D.B. to first point 1 st socket and 1 st to 2 nd , socket			
	•			
	with 2*2.5 sq.mm. and 1*2.5 earth wire including			
	providing and fixing of 16 Amp, 6 -pin socket with 16			
	Amp. Switch. (Modular type switch/ socket/ plate etc.			
	complete assembly).			
a)	Primary point	Nos.	16.00	
	Secondary point	Nos.	18.00	
3(a)	Same as serial no.1, but wiring for A/C socket by using 2*4			
	sq.mm. PVC insulated 1100 V grade copper conductor			
	wire and earthing with 1*4.0 sq.mm. PVC insulated 1100 V			
	grade copper conductor wire with modular type AC			
	box(tiny trip type) with socket complete in all respects	Nos.	6.00	
	controlled by 25/32 A SP MCB to be provided near indoor			
	unit. The point starts from DB to stabilizer to the point			
	near the indoor unit including top.			
	Same as serial no.1, but wiring for A/C socket by			
	using 2*4 sq.mm. PVC insulated 1100 V grade			
	copper conductor wire and earthing with 1*4.0			
	sq.mm. PVC insulated 1100 V grade copper			
	conductor wire of weather proof type 2 way SPN	Noo	9.00	
	DB complete in all respects controlled by with 32	Nos.	9.00	
	Amp (10 KA) MCB to be provided near outdoor			
	unit. The point starts from DB to the point near the			
	outdoor unit. Item to also include termination lid			
	between MCB and outdoor unit.			
4	COMPUTER POINTS			
а	Wiring with 2x2.5 sq.mm. + 1x2.5 sq.mm. PVC insulated 1100			
	V grade multi stranded copper conductor wires in 2 mm thick			
	PVC conduit from UPS DB to computer point. Each point to			
	have 3 nos. 6 amps. 5 pin modular type sockets, one 6			
	amps modular swtich & one LED indicator with all			
	accessories, inner/ outer plates, metal box etc. and to be			
	fixed on wooden partitions/ by grouting on wall etc. as per			
	requirement at site. The switch with indicator should be fixed			
	above the top of counter with indicator and sockets under			
	the counter with indicator, looped from the above 1st point			
	the counter with mulcator, tooped from the above 1st point			
l.	to 2nd point and 2nd point to 2rd point / marriage a point in			
	to 2nd point and 2nd point to 3rd point (maximum 3 points in			
	to 2nd point and 2nd point to 3rd point (maximum 3 points in circuit). Primary	Nos.	21.00	

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	Secondary	Nos.	39.00	
b	Wiring with 2x2.5 sq.mm + 1x2.5 sq.mm PVC insulated 1100 V grade multi stranded copper conductor wires in 2 mm thick PVC conduit from UPS DB to computer point. Each point to have 1 nos. 16 amps 5 pin modular type sockets, 1 No's 16 amps modular swtich with all accessories, inner/ outer plates, metal box etc and to be fixed on wooden partitions/ by grouting on wall etc as per requirement at site. The switch should be fixed above the top of counter and sockets under the counter. or as directed by the engineer incharge for the E-lobby, Fire, Token Vending.			
	Primary	Nos.	3.00	
	Secondary	Nos.	4.00	
С	Supply, installation, testing and Commissioning of simply elegant modular table top connectivity solution for conference tables with luxuriously finished metal surfaces and one-touch, fully-retracting lid with Multi-connectors for data and power connection. Connectors 1x HDMI, 1x VGA with audio, 1xLAN, 1x Universal Power, 1x USB and 1x 3.5mm Audio jack with retractable cable management solution complete with standard accessories as required.	Nos.	6.00	
d	Supply , installation , testing and comissioning of HDMI Cable with High–Quality Connectors — 24K gold–plated connectors resist corrosion, and offer the best possible connectivity and provides 4K@60Hz (4:4:4) resolution complete with standard accessories as required	Mtr	50.00	
e	Supplying,installation,testing and commissioning of Passive Infrared(PIR) technology based occupancy sensor having high preformance, non regulating programmable type, suitable for connected load upto 10Amp, for mounting height up to 2.8 mtr and for 5 m diameter coverage area along with necessary fixing arrangements i/c programming at site etc. complete as required	Nos.	2.00	
В.	CONDUITING FOR TELEPHONE, COMPUTER & CONDUITING, WIRING FOR T.V. SYSTEM.			
	CONDUITING, WINING FOR I.V. STOTEPI.		*	
1	TELEPHONE SYSTEM			
1.1	Wiring for VOICE from Jack Panel in data rack to computer workstation with Cat-6 voice 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 telephone socket with shutter, RJ 47 outlet, faceplate and mounting box complete of modular type. This work includes supply and laying of high speed CAT-6 cable in PVC conduits/raceway throughout the lenght, from the I/O hub to the point.	Nos.	46.00	
1.2	Supplying, laying, effecting terminations, testing and commissioning of 0.51 mm dia Cu. Conductor, twisted, colour coded with polythene capor barrier, telephone cables in the existing tray or in conduit including providing &fixing conduit pipe or cable tray as required from building tag block to the floor as required			

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a)	Supplying & fixing 10 pair krone tag block with enclosure.	Nos.	1.00	
b)	Supplying & fixing 50 pair krone tag block with enclosure.	Nos.	1.00	
c)	P/L 10 Pair of PVC insulated PVC sheathed multi core jelly			
	filled armored telephone.	Mtrs.	50.00	
c)	P/L 30 Pair of PVC insulated PVC sheathed multi core jelly	Mtrs.	70.00	
	filled armored telephone.			
2	COMPUTER NETWORKING			
	Wiring for computer networking from Jack Panel in data rack			
	to computer workstation with Cat-6a 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-6a with shutter, RJ 45 outlet, faceplate	Nos.	66.00	
	and mounting box complete of modular type, This work			
	includes supply and laying of high speed CAT-6a cable in			
	PVC conduits/raceway throughout the lenght, from the I/O			
	hub to the point.			
а	Supplying and fixing 6 U (Rack with glass door, opening in the			
	front power panel 1 (horizontal), cable manager 1 lock & key).	Nos.	1.00	
b	Supplying and fixing 12 U (Rack with glass door, opening in			
	the front power panel 1 (horizontal), cable manager 1 lock &	Nos.	2.00	
	key).			
С	Supply, Installation, Testing & Commissioning of 12 port Jack	Nos.	1.00	
	Panel.	NOS.	1.00	
d	Supply, Installation, Testing & Commissioning of 24 port Jack	Nos.	6.00	
_	Panel.			
е	Supplying and fixing Patch Cord-2 Meter- (DBPS Mounting Cord)	Nos.	48.00	
f	Supplying and fixing Patch Cord-1 Meter-	Nos.	110.00	
	11.7 0			
C.	CABLES, MAINS & SUBMAINS			
1	Supplying all materials and laying/ pulling 1100 volts grade			
	PVC insulated copper conductor wires (FRLS) in MS conduit			
	with all fixing accessories after cutting the floor, wall and the			
	like etc. and replastering the floor level to original. Conduit			
	must be 30 mm below the floor finish level.			
i	3CX 6 sq.mm. + 1 X 6 sq.mm.	RM	30.00	
<u> </u>	Ouranting design at the stime of the state o			
ii	Supplying, laying, testing & commissioning of 3 C X 6 sq.mm.			
	at 1100 volts grade PVC insulated copper conductor			
	armoured cable with 10 SWG GI earthing wire including	RM	50.00	
	cables end termination using appropriate Lugs, Glands,			
	termination acessories, Clamps etc. as required as per			
iii	Supplying, laying, testing & commissioning of 4 C X 16			
""				
	sq.mm. at 1100 volts grade PVC insulated aluminium			
	conductor armoured cable with 10 SWG GI earthing wire	RM	40.00	
	including cables end termination using appropriate Lugs,		70.00	
	Glands, termination acessories, Clamps etc. as required as			
	per specification.(FOR Light, Power & UPS)			
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iv	Supplying, laying, testing & commissioning of 4 C X 25 sq.mm. at 1100 volts grade PVC insulated aluminium conductor armoured cable with 10 SWG GI earthing wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as	RM	40.00	
٧	Supplying, laying, testing & commissioning of 4 C X 35 sq.mm. at 1100 volts grade PVC insulated aluminium conductor armoured cable with 10 SWG GI earthing wire including cables end termination using appropriate Lugs, Glands, termination acessories, Clamps etc. as required as per specification (Main Supply to VTPN)	RM	50.00	
vi	Supplying, laying, testing & commissioning of 4 C X 50 sq.mm. at 1100 volts grade PVC insulated aluminium conductor armoured cable with 8 SWG GI earthing wire including cables end termination using appropriate Lugs, Glands, termination acessories, Clamps etc. as required as per specification (FOR DG)		40.00	
vii	Supplying, laying, testing & commissioning of 4 C X 95 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 8 SWG GI earthing wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (for Main Connection)	RM	100.00	
	CARLE TRAVE RACEWAY			
a a	CABLE TRAY & RACEWAY Supplying and fixing of following size of Perforated hot			
	dipped GI cable tray with perforation not more than 17.5% in convenient section, joined with connector, suspended from the ceiling with M.S. suspenders including bolts, nuts & washer, painting suspenders etc as required. Rates shall be included tee, elbows & reducers etc			
i	300x75 mm, 2mm thick Cable tray	RM	10.00	
b	Fabricating, supplying to site & installation in the floor including chase cutting of floor, leveling, refilling and making good the same 1.6 mm thick G.I raceways of height 40 mm and 2.0 mm thick openable cover, totally enclosed, The two lengths of channels and junction box shall be nut bolted together to make it dust and water proof. complete with all fixing accordance as required.			
i	150 mm (wide) x 50 mm (height)	RM	10.00	
E	DISTRIBUTION BOARD			

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Supplying, installing, testing & commissiong of surface/ recessed mountings, Double door 415 volts TPN MCB distribution board of steel steel, 1.6mm thick dust phosphatized and painted, inclusive of 100 amps, tinned copper busbars, earthbar, common neutral link, din bar for mounting of MCB's detachable gland/ knock out plate & with built in loose wire boxl, and superior make terminal connectors for all incoming and outgoing circuits duly prewired with adequate size of PVC insulated copper wires between the bus bars and the MCB's as well as the incomer and upto the terminal connectors/ neutral link and ready for installation of following ways as required. Use 'B' curve MCB's for lighting & small power circuits, 'C' curve for motor duty i.e. for pumps, AC motors, window and split AC's etc. & 'D' curve for UPS DB's i.e. for computers/ PC's circuit. Main incomer & outgoing circuit MCB's shall be selected accordingly i.e. type B,C & D. Contractor to select the MCB's accordingly as per the nature of the circuit/load. Each DB shall have separate neutral links of rating not less than 100A for each phase. The main incoming neutral link shall be in addition to three outgoing neutral links and shall UPS DB's shall have a dedicated Earthing link fixed on insulated supports, which will be in addition to body earth All internal inter connecting wiring with in the DB's shall be PVC insulated flexible copper conductor wires of adequate capacity as per the current rating. Inside each DB, a DB chart is to be fixed. 6-way TPN DB (LIGHT & POWER DB) No. 2.00 а Incomer:-1 No. 63 Amp TPN (10 kA) MCB with 40 A DP RCCB (100 mA) each phase Outgoing:-12 Nos.10/16/25 Amp (10 kA) SP MCB b 8-way TPN DB (Light & 6A Raw) No. 2.00 1 No. 63 Amp TPN (10 kA) MCB with 40 A DP RCCB (100 mA) each phase Outgoing:-18 Nos.10/16/25 Amp (10 kA) SP MCB С 4-way TPN DB (Power DB& AC) No. 3.00 Incomer:-1 No. 63 Amp TPN (10 kA) MCB with 40 A DP RCCB (100 mA) each phase Outgoing:-6 Nos.16/25 Amp (10 kA) SP MCB 8-way SPN DB (UPS INPUT) d No. 1.00 Incomer:-

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	1 No. 63 Amp TPN			
	Outgoing:-			
	2 Nos.40 Amp DP MCB			
	·			
е	2-way SPN DB with 40 A DP MCB (For UPS Input / output)	No.	2.00	
f	12-way SPN DB (For UPS DB)	No.	1.00	
	Incomer:-	140.	1.00	
	1 No. 40 Amp DP (10 kA) MCB with 40 A DP RCCB (100 mA)			
	Outgoing:- 8 Nos. 10/16 Amp (10 kA) SP MCB			
g	16-way SPN DB (UPS OUTPUT)	No.	1.00	
	Incomer:-			
	1 No. 40 Amp DP (10 KA) MCB with 40 A DP RCCB (100			
	MA)			
	Outgoing:-			
	12 Nos.6/10/16 Amp (10 KA) SP MCB			
h	4 way V TDN DD (for distribution)	N.1	2.00	
h	4-way V-TPN DB (for distribution)	No.	2.00	
	Incomer:-			
	1 No. 63 Amp TPN (16kA) MCCB			
	Outgoing:-			
	9 Nos. 25/32 Amp (10 kA) TP MCB			
	A V TDN DD (for distribution)		0.00	
ı	4-way V-TPN DB (for distribution)	No.	2.00	
	Incomer:-			
	1 No. 100 Amp TPN 4 Pole (16kA) MCCB			
	Outgoing:-			
	4 Nos. 63 Amp (10 kA) TP MCB			
F.	(LIGHT FITTINGS & ACCESSORIES)			
	Supplying, installation with hanging support, testing and commissioning of following light fixtures with electronic Ballasts, Tubes, lamps, all fixing materials including connecting wires etc. all complete as per the directions of Engineer-in-charge (All LED Light Fixures should be covered with minimum 1 Years onsite replacement warranty).			
i	2 X 2 Panel LED 31 W 5700K (3400 lm) Slim panel , as specified in tender document or approved by SBI/ Architect. Make: Wipro Garnet (code D414065- 31 W / 6500K).	Nos.	12.00	
ii	Supplying, fixing, testing and commissioning of 32 W LED down lighter (4') of make As specified in tender document or approved by SBI/ Architect. Make: Wipro - LM31 Helios (LD90-231-xxx-65-xx***) or of higher	Nos.	39.00	
iii	Supplying, fixing, testing and commissioning of 18 W LED down lighter of make As specified in tender document or approved by SBI/ Architect. Make: Wipro - LD90 Helios (LD90-231-xxx-65-xx***) or of higher		75.00	

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Supplying, fixing, testing and commissioning of 3W LED mini Nos. Stop Lights, 2700K make As specified in tender document or approved by SBI/ Architect. V. Supplying, fixing, testing and commissioning of 12 W COB Light, make As specified in tender document or approved by SBI/ Architect. Make: Wipro - DC11640 (4000K) or of higher Supplying, fixing, testing and commissioning of LED batten light of 9W 600mm fixture length, surface mounted make As specified in tender document or approved by SBI/ Architect. LED Strip (NEON) for cove lighting 6.5 W per mrt. with driver, jointer and necessary installation supporting fittings of Led strip light (50 mtr.) make as specified in tender document or approved by SBI/ Architect. Code : DF82827-wipro / 120 led (2700K) / meter type or higher as per SBIP sapproval. Note : to be fixed with clips / clamps with the base surface for strainght & permanent alignment. viii Walt mounted fans 400/450 mm dia. make As specified in tender document or approved by SBI/ Architect. (METAL BODY), Make: Orient Tornado wall-II or higher Supply & fixing of 150 mm exhaust fan with touvers and plastic body with all accessories etc. complete of make As ix specified in tender document or approved by SBI/ Architect. (METAL BODY), Make: Orient Tornado wall-II or higher Supply & fixing of 150 mm exhaust fan with touvers and plastic body with all accessories etc. complete of make As ix specified in tender document or approved by SBI/ Architect. Make: Orient (Smart Air), white body colour, with fins or higher. 9. PUBLIC ADDRESS SYSTEM 1 Point wiring: Supply and laying Wiring of 1.5 sq mm twin core shelded type of speaker cable with Providing and fixing in position the following FRILS PVC conduits including all accessories concealed/exposed in F.Ceiling/Wall complete with 1.6 mm dia 6.1. put wires in the length of conduit. including all accessories. 2 Supply, installation, testing and commissioning of following Philips (BOSCH) make Music Accessories / Equipments. a. Ceiling Speaker Unit 6 Watts b Pow		BLOCK-1			
Light, make As specified in tender document or approved by SBI/ Architect. Make: Wipro - DC11640 (4000K) or of higher Supplying, fixing, testing and commissioning of LED batten light of 9W 600mm fixture length, surface mounted make As specified in tender document or approved by SBI/ Architect. LED Strip (NEON) for cove lighting 6.5 W per mtr. with driver, jointer and necessary installation supporting fittings of Led strip light (50 mtr.) make as specified in tender document or approved by SBI/ Architect. Code: DF82827-wipro / 120 led (2700K) / meter type or higher as per SBI's approval. Note: to be fixed with clips / clamps with the base surface for strainght & permanent alignment. Walt mounted fans 400/450 mm dia. make As specified in tender document or approved by SBI/ Architect. (METAL BODY). Make: Orient Tornado wall-II or higher Supply & fixing of 150 mm exhaust fan with louvers and plastic body with all accessories etc. complete of make As specified in tender document or approved by SBI/ Architect. Make: Orient (Smart Air), white body colour, with fins or higher G. PUBLIC ADDRESS SYSTEM 1 shelded type of speaker cable with Providing and fixing in position the following FRLS PVC conduits including all accessories concealed/exposed in F.Ceiling/Wall complete as required including 1.6/2.0 mm thick PVC junction or pull boxes with 3mm thick perspex sheet cover plate complete with 1.6 mm dia G.I. pull wires in the length of conduit. including all accessaries. 2 Supply, installation, testing and commissioning of following Philips (BOSCH) make Music Accessories / Equipments. a. Ceiling Speaker Unit 6 Watts b Power Amplifier, min 50 Watts with output transformer etc.		Stop Lights, 2700K make As specified in tender document or approved by SBI/ Architect.	Nos.	10.00	
light of 9W 600mm fixture length, surface mounted make As specified in tender document or approved by SBI/ Architect. LED Strip (NEON) for cove lighting 6.5 W per mtr. with driver, jointer and necessary installation supporting fittings of Led strip light (50 mtr.) make as specified in tender document or approved by SBI/ Architect. Code : DF82827-wipro / 120 led (2700K) / meter type or higher as per SBI's approval. Note : to be fixed with clips / clamps with the base surface for strainght & permanent alignment. viii Wall mounted fans 400/450 mm dia. make As specified in tender document or approved by SBI/ Architect. (METAL BODY). Make: Orient Tornado wall-II or higher Supply & fixing of 150 mm exhaust fan with louvers and plastic body with all accessories etc. complete of make As specified in tender document or approved by SBI/ Architect. Make: Orient (Smart Air), white body colour, with fins or higher G. PUBLIC ADDRESS SYSTEM Point wiring: Supply and laying Wiring of 1.5 sq mm twin core shelded type of speaker cable with Providing and fixing in position the following FRLS PVC conduits including all accessories concealed/exposed in F.Celling/Wall complete as required including 1.6/2.0 mm thick PVC junction or pult boxes with 3mm thick perspex sheet cover plate complete with 1.6 mm dia G.I. pull wires in the length of conduit. including all accessaries. Supply, installation, testing and commissioning of following Philips (BOSCH) make Music Accessories / Equipments. a. Ceiling Speaker Unit 6 Watts Power Amplifier, min 50 Watts with output transformer etc.	V	Light, make As specified in tender document or approved by	Nos.	64.00	
jointer and necessary installation supporting fittings of Led strip light (50 mtr.) make as specified in tender document or approved by SBI/ Architect. Code: DF82827-wipro / 120 led (2700K) / meter type or higher as per SBI's approval. Note: to be fixed with clips / clamps with the base surface for strainght & permanent alignment. viii Wall mounted fans 400/450 mm dia. make As specified in tender document or approved by SBI/ Architect. (METAL BODY). Make: Orient Tornado wall-II or higher Supply & fixing of 150 mm exhaust fan with louvers and plastic body with all accessories etc. complete of make As specified in tender document or approved by SBI/ Architect. Make: Orient (Smart Air), white body colour, with fins or higher G. PUBLIC ADDRESS SYSTEM 1 Point wiring: Supply and laying Wiring of 1.5 sq mm twin core shelded type of speaker cable with Providing and fixing in position the following FRLS PVC conduits including all accessories concealed/exposed in F.Ceiling/Wall complete as required including 1.6/2.0 mm thick PVC junction or pull boxes with 3mm thick perspex sheet cover plate complete with 1.6 mm dia G.I. pull wires in the length of conduit. including all accessaries. 2 Supply, installation, testing and commissioning of following Philips (BOSCH) make Music Accessories / Equipments. a. Ceiling Speaker Unit 6 Watts Nos. 14.00	vi	light of 9W 600mm fixture length, surface mounted make As	Nos	6.00	
tender document or approved by SBI/ Architect. (METAL BODY). Make: Orient Tornado wall-II or higher Supply & fixing of 150 mm exhaust fan with louvers and plastic body with all accessories etc. complete of make As specified in tender document or approved by SBI/ Architect. Make: Orient (Smart Air), white body colour, with fins or higher G. PUBLIC ADDRESS SYSTEM 1 Point wiring: Supply and laying Wiring of 1.5 sq mm twin core shelded type of speaker cable with Providing and fixing in position the following FRLS PVC conduits including all accessories concealed/exposed in F.Ceiling/Wall complete as required including 1.6/2.0 mm thick PVC junction or pull boxes with 3mm thick perspex sheet cover plate complete with 1.6 mm dia G.I. pull wires in the length of conduit. including all accessaries. 2 Supply, installation, testing and commissioning of following Philips (BOSCH) make Music Accessories / Equipments. a. Ceiling Speaker Unit 6 Watts Nos. 14.00 Power Amplifier, min 50 Watts with output transformer etc.	vii	jointer and necessary installation supporting fittings of Led strip light (50 mtr.) make as specified in tender document or approved by SBI/ Architect. Code: DF82827-wipro / 120 led (2700K) / meter type or higher as per SBI's approval. Note: to be fixed with clips / clamps with the base surface	Nos.	3.00	
plastic body with all accessories etc. complete of make As specified in tender document or approved by SBI/ Architect. Make: Orient (Smart Air), white body colour, with fins or higher G. PUBLIC ADDRESS SYSTEM 1 Point wiring: Supply and laying Wiring of 1.5 sq mm twin core shelded type of speaker cable with Providing and fixing in position the following FRLS PVC conduits including all accessories concealed/exposed in F.Ceiling/Wall complete as required including 1.6/2.0 mm thick PVC junction or pull boxes with 3mm thick perspex sheet cover plate complete with 1.6 mm dia G.I. pull wires in the length of conduit. including all accessaries. 2 Supply, installation, testing and commissioning of following Philips (BOSCH) make Music Accessories / Equipments. a. Ceiling Speaker Unit 6 Watts Nos. 14.00 Power Amplifier, min 50 Watts with output transformer etc.	viii	tender document or approved by SBI/ Architect. (METAL	Nos.	29.00	
G. PUBLIC ADDRESS SYSTEM 1 Point wiring: Supply and laying Wiring of 1.5 sq mm twin core shelded type of speaker cable with Providing and fixing in position the following FRLS PVC conduits including all accessories concealed/exposed in F.Ceiling/Wall complete as required including 1.6/2.0 mm thick PVC junction or pull boxes with 3mm thick perspex sheet cover plate complete with 1.6 mm dia G.I. pull wires in the length of conduit. including all accessaries. 2 Supply, installation, testing and commissioning of following Philips (BOSCH) make Music Accessories / Equipments. a. Ceiling Speaker Unit 6 Watts b Power Amplifier, min 50 Watts with output transformer etc.	ix	plastic body with all accessories etc. complete of make As specified in tender document or approved by SBI/ Architect. Make: Orient (Smart Air), white body colour, with fins or	Nos.	15.00	
1 Point wiring: Supply and laying Wiring of 1.5 sq mm twin core shelded type of speaker cable with Providing and fixing in position the following FRLS PVC conduits including all accessories concealed/exposed in F.Ceiling/Wall complete as required including 1.6/2.0 mm thick PVC junction or pull boxes with 3mm thick perspex sheet cover plate complete with 1.6 mm dia G.I. pull wires in the length of conduit. including all accessaries. 2 Supply, installation, testing and commissioning of following Philips (BOSCH) make Music Accessories / Equipments. a. Ceiling Speaker Unit 6 Watts b Power Amplifier, min 50 Watts with output transformer etc.					
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Philips (BOSCH) make Music Accessories / Equipments. a. Ceiling Speaker Unit 6 Watts b Power Amplifier, min 50 Watts with output transformer etc.	1	shelded type of speaker cable with Providing and fixing in position the following FRLS PVC conduits including all accessories concealed/exposed in F.Ceiling/Wall complete as required including 1.6/2.0 mm thick PVC junction or pull boxes with 3mm thick perspex sheet cover plate complete with 1.6 mm dia G.I. pull wires in the length of conduit.	Nee	14.00	
b Power Amplifier, min 50 Watts with output transformer etc.	2				
	a.	Ceiling Speaker Unit 6 Watts	Nos.	14.00	
capable of taking Inputs from USB Also.	b	complete. Plena Range/ Ahuja or as approved by the Bank	Nos.	2.00	
H. EARTHING SYSTEM	н	FARTHING SYSTEM			

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BLOCK-1

	BLOCK-1				
1	Supply, Installation, Testing and Commissioning of Maintenace Free Earthing system made up of copperbonded rod of 10 feet length,23 mm dia. (Minimum copper bonding shall be 0.25mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the bill).	Nos	4.00		
2	Supply, Installation, Testing and Commissioning of Maintenace Free Earthing system made up of copper-bonded rod of 10 feet length, 17.2 mm dia. (Minimum copper bonding shall be 0.25 mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the bill).	Nos	2.00		
3	Providing and fixing of Copper/ GI strips in surface or in recess for loop earthing etc. as required.				
i	Providing and fixing 2 X 8 SWG dia. Cu earth wire in PVC conduit on surface or in recess for loop earthing along with the existing surface/ recess cable as required eith using of copper lug at end termination		100.00		
ii	25 x 6 mm strip	RM	40.00		
4	Providing and fixing G.I. earth link with insulator and 10 nos of nut, bolt, washer, and spring washer for earth wire connecting in UPS room.	Nos.	4.00		
l.	MAIN PANEL AND METER BOARD				
1	supply, installation, testing and commissionings of cubicle type floor/wall mounted L.T. Metal D.B of reputeded make with extendeble rotary handle and extended connecting links				
	1 No. 160 Amps,TPN MCCB (25 KA) with standard enclosure as per manufacturer specification or as approved by the architect/Bank's Engineer	Nos.	1.00		
		1		1	1

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2	1		
	Designing, fabrication, supply, installation, testing and commissionings of front operated cubicle type compartmentalised, front access, free standing on 75MM		
	"[" MS channel, dust and vermin proof (IP 42 degree protection) panel suitable for use at 415V, 3 phase, 4-		
	wire/XLPE Cable 50Hz system suitable for fault level of		
	required value symmetrical at 415V fabricated from 2 mm thick CRCA MS sheets with hinged, gaskettted (Metal		
	based neoprene) locable doors having structural		
	reinforcement including 3 mm thick gland plates on top and bottom, lifting hooks, GI earth strip of required size		
	with 2 nos earth terminals, 1 nos 230V AC operated 250		
	mm X 250 mm size axial fans for exhaust of heat with On- Off toggle switches including 2 coated primer and 2 power		
	coated paint fnish of approved shade over metal surface		
	cleaned and treated with seven tank process complete with interconnections etc as per specifications as		
	required.main panel board of approved make (Supertech		
	Power Control/Zeniya/Amptech/Shwtech) or make as approved by architect/SBI.		
	approved by architect/361.		
	Type of Approval as instructed by the SBI/ Architect). All live accessible parts shall be shrouded and all equipment		
	shall be finger touch proof. The busbars insulation shall be		
	with heat shrinkable sleeves SMC/ DMC shrouds and		
	busbar supports shall be used. Padlocking facility shall be provided on all outgoing feeders doors and switch handles		
	shall be locable in OFF position.		
	Suitable arrangement shall be made for termination of		
	multiple incoming cables. All kA values indicated shall be Ics breaking capacity		
	GA drawings shall be got approved by Architect / SBI		
a.	Floor panel shall consists of : -		
	The state of the s		
i.	circuit realease,Earth fault.		
	BUSBARS		
	200 amps TPN pole busbar chamber of suitable length		
	with copper busbars. All busbars and interconnections		
	shall be of suitable size copper strips.		
	INDICATING PANEL		
	Digital flush type class-1.0 accuracy multifunction meter		
	showing V, A, PF etc. with 3 Nos. current transformers of 160/5A ratio, 10 VA Class-1.0 metering 1 sets		
			Ī.
	INCOMER FROM MAIN LINE 1 No. 160 Amps,TPN MCCB (25 KA) with extendeble rotary handle each thermal over current, instantaneous, Short circuit realease,Earth fault. BUSBARS 200 amps TPN pole busbar chamber of suitable length with copper busbars. All busbars and interconnections shall be of suitable size copper strips.		

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BLOCK-1

Red/Blue/Yellow three phase indicating lamps with SP MCB backup protection. Restricted Earth fault relay with 3 Nos. current transformers of 160/5 ratio, 10 VA Class 5P 10 (Numeric Relay not required) **OUTGOINGS:-**4 Nos 63A TPN MCCB (16 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. For capacitor Bank AND AC VTPN, **INCOMER FROM MAIN PANEL BUS BAR** 1no. 160 Amp 4P On Load Change over switch with 1 No. 125 Amps,TPN MCCB (25 KA) with extendeble rotary handle each thermal over current, instantaneous, Short circuit realease, Earth fault. **BUSBARS** 125 amps TPN pole busbar chamber of suitable length with copper busbars. All busbars and interconnections shall be of suitable size copper strips. INDICATING PANEL Digital flush type class-1.0 accuracy multifunction meter showing V, A, PF etc. with 3 Nos. current transformers of 100/5A ratio, 10 VA Class-1.0 metering. - 1 sets Red/Blue/Yellow three phase indicating lamps with SP MCB backup protection. **OUTGOINGS:-**4 Nos 63A TPN MCCB (16 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For Block distribution, UPS & SPARE) The electrical panel as described above and specifications 3 Nos 63A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For PDB, & SPARE) 2 Nos 40A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For LDB) 2 Nos 40A DP MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For SIGNAGE) The electrical panel as described above and specifications Set 1.00 complete. **Capacitor Panel** Supplying, installation, testing & commissioning of 35 KVAR, APFC Panel auto operation and power factor should be nearing unity complete as required Set 1.00 inluding all contactors, relays, indivating units etc. as required at site". Capacitor make: L&T/ ABB/ Siemens/ Havells or equivalent.

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	BLOCK-1	·			
Α	TOTAL FOR Electrical works BLOCK - 1,2, 3				
,	missonhana ayaytam far Canfaranaa raam)				
_	microphone sysytem for Conference room)				
S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
1	Supply of 6.5" TWO-WAY PASSIVE COAXIAL CEILING SPEAKER, Program Power: 60 W (direct) Frequency Response (-10dB): 60 Hz – 20 kHz Maximum SPL (1m): 109 dB (musical program)		8.00		
	Ceiling Speaker / Amate Audio or equivalent				
2	Supply of four multi-channel professional Class-D amplifier, with output power@ 8Ω /Ch $200W\times4$, Output power@ 4Ω /Ch $350W\times4$, Bridge@ 8Ω $650W\times2$, Bridge@ 4Ω (not recommended), Frequency Response $20Hz-20kHz$ (±0.5dB), THD+N <0.05% @ 8Ω 1kHz, S/N Ratio >98dB (Aweighted), Damping Factor >500 (1kHz @ 8Ω), Input Sensitivity 0.775V / 1.44V, Input Impedance		1.00		
	Amnlifier / Louis Martin D4200 or equivalent				
3	Supply of Chairman Unit, Robust aluminum alloy die-cast body, Integrated Shotgun microphone with high-sensitivity cardioid pick-up pattern, LED ring status indication: Red when mute and Green when active, High-quality tactile speak button with LED light status and override button to mute all other delegate units.		1.00		
	Chairman Microphone Unit / Erthpot NCS-5C or equivalent				
4	Supply of Delegate Unit, Robust aluminum alloy die-cast body, Integrated Shotgun microphone with high-sensitivity cardioid pick-up pattern, LED ring status indication: Red when mute and Green when active, High-quality tactile speak button with LED light status.		14.00		
	Delegate Microphone Unit / Erthpot NCS-5D or equivalent				
	3				
5	Supply of Control Unit Conference Systems, 1 Wired loop In-Out connectivity to microphone units on standard Cat5e Network Cables, Multiple speech modes – FIFO, Automatic (with time limit), Request, Sound Activated, Supports Camera connection and tracking of the speaker through RS232 & RS422 communication ports, System Expandability of up to 110 units using external power supply for discussion units, Automatic Gain processing technology to prevent feedback and improve voice clarity.	nos	1.00		
	Control Unit / Erthpot NCS 110CU or equivalent				

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BLOCK-1

Supply of Digital Signal Processor with 4 Analog Input Channel, 4 Analog Output Channel, Number of GPIOs 8, 232 Number of serial ports 1, 485 Number of serial ports 1, ETHERNET 1, USB 1 x USB Bidirectional interface, D/A dynamic range 120dB, Channel isolation > 100dB, nos 1.00 Frequency response 20 to 20kHz (±0.2dB), Output impedance 100 Ω balance, 50 unbalance, POWER: 220V AC power input connector and power switch. Digital Signal Processor / Erthpot Keyer 44 or equivalent SITC of Cat5 TypeB 3 Meter Network cable. 14.00 nos Cat5 Cable / Erthpot NC3M or equivalent Supply of Cat5 TypeB 10 Meter Network cable. 2.00 nos Cat5 Cable / Erthpot NC10M or equivalent 9 SITC of Speaker Cable professional audio cable are multicore PVC has oxygen free copper 1.5sqr mm 100mtr. Roll 1.00 roll Speaker Cable / Krystals or equivalent 10 Supplyof 9U Equipment rack Audio Rack with locking wheel, cooling fan, cable tray manager, 1.00 power socket, etc, nos Equipment Rack / Data Rack 11 Installation & Commisioning & Programing & Testing with connectors 1.00 job Installation / job Total for microphone sysytem for Conference room PROPOSED RESTORATION & ALLIED CIVIL WORKS OF RBO MAIN BRANCH ALIGARH S. No Unit Quantity Description **DSR Rate Amount** Keyword: Excavation Work 1 Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) (incluidng paver removal, PCC removal, stone paving removal or 37.01 cum similar work if required) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.

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BLOCK-1

2 Keyword: Backfilling Filling available excavated earth (excluding rock) in cum 5.61 trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating eachdeposited layer by ramming andwatering, lead upto 50 and for all lift. Keyword: brickbat 3 Providing and laying 75 mm thick compacted bed of dry brick aggregate of 40 mm thick nominal size including 74.00 sqm spreading, well ramming, consolidating and grouting with jamuna sand, including finishing smooth etc. complete as per direction of Engineer-in-charge. Keyword: Sandfilling 4 Supplying and filling in plinth with sand under floors, cum 7.44 including watering, ramming, consolidating and dressing complete. Keyword :PCC 5 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering- All work up to plinth level (Grade M15)1:2:4 (1 7.44 cum cement : 2 coarse sand (zone-ill) derived from natural sources: 4graded stone aggregate 20 mm nominal size derived from natural sources) Keyword :PCC above G.L 6 Providing and laying cement concrete in walls, flooring (any thickness) including coping, bed blocks,, floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing: 7.44 cum 1:2:4 (1 Cement : 2 coarse sand (zone-ill) derived from natural sources : 4gradedstoneaggregate20 mmnominal size derived from natural sources) Keyword :RCC u NP PIPE 7 Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine rmt 186.00 sand) including testing of joints etc. complete 300 mm dia. R.C.C. pipe

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Estimate - Electrical Works:

Proposed Interior renovation works at RBO Aligarh

Stage : R0

Date: 2025-05-03

BLOCK-1

Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 fine sand : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design: inside dimensions 455x610 mm and 45 cm deep for single pipe line : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	14.00	
9 Making hole in brick masonry wall for pipe fixing, size 300x300mm, including -Cutting and removing bricks to form hole Preparing and fixing hole with mortar - Finishing with neat cement - The hole shall be cut carefully to avoid damaging surrounding bricks The mortar used for filling the hole shall be of same mix proportion as used for original construction The neat cement finish shall be smooth and even.	each	14.00	
C Total for Civil works Block 1 2 & 3			
Summary			
A TOTAL FOR Electrical works BLOCK - 1,2, 3			
B Total for microphone sysytem for Conference room			
• T-4-1 f O'			
C Total for Civil works Block 1 2 & 3 Total (A+B+C) for deciding L1			

The rates quoted includes all other taxes , duties , loading, unloading , transportation, other expenses etc to site. only GST will be paid Extra

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