Schedule of Quantities for Electrical Work of proposed Conference Hall at RBO Rewa						
S.N	Description of items	Qty	Unit	Unit Rate	Amount	
1	ELECTRICAL WIRING					
	Providing, fixing, testing and commissioning of POINT WIRING of any length for light point/Wall fan point/Exhaust fan point/ Call bell point/ including call bell/ including fan box(if required), 'S' type fan hook etc with 3 X 1.5 Sq.mm(P/N/E) PVC 650V/1100V Grade FRLS WIRE insulated copper conductor single core multi strended wire in 16 SWG(Medium Gauge) stove enamelled rigid steel conduit 20mm/25mm with conduit accessories like bend, junction box etc in concealed/surface manner as per site requirment with suitable Modular Switches/Sockets with plate and Metal/PVC box,Scaddle, angle bracket (if required), 3 plate ceiling rose/bulb holder etc. The floor/roof/wall junction box shuold be of MS(heavy duty) box of suitable size and covered with Steel finish Steel cover sheet by screw tight and gasket to avoid water/dust insertion. The item includes Circuit wiring from DB to the switch board with 3x2.5 Sq.MM. The above wiring carried					
	out surface or recess in wall/floor/roof should be cutting by cutter/chiesling, replastering, curing, painting with uniform and smooth finish by specilised workman ship and making the surface neat afterwards complete in all respect as per direction of Bank Engg. (EACH Circuit to take NOT MORE than 7-8 points) The conduit/ Flexible conduit/junction box/metal modular box etc must be joined by gland and check nut at both ends. (each circuit to be controlled by one MCB). The colour code of wire are as under: Phase- Red, Neutral- Black, Earth-Green Make of Material for items of BOQ:- (i) Modular Type Switch/socket/step electronic fan regulator, plate, box, TV/telephone, bulb holder/3 pin ceiling rose with all accessories:- Lergand/ Anchor(Roma)/MK/ Crabtree (ii) MS conduit/PVC conduit with all accessories:- BEC/AKG/NIC/Precision (iii) PVC insulated copper wire(FR) 650V/1100 V grade:- Finolex/RR cable/ Havells					
a	Providing and fixing of point wiring with above specifications. One light point controlled by one switch.	42	Nos.			
b	Providing and fixing of point wiring with same above specifications. Two light points to be controlled by one switch.	20	Nos			
С	Providing and fixing of ceiling fan point controlled as under (i) one 6 amp switch (ii) one no stepped electronic regulator of two module type.	16	Nos.			
d	providing and fixing 6 Amps Plug Points with same specs as above and install along with same light switchboard	8	Nos			
е.	Master switch of 16 Amps (Only Grey/Golden/Wooden colour other than white colour) to install alongwith same light switch board to control all light as a master switch ON/OFF in each switch board	4	Nos			
2	6 AMP. POINTS ON SEPARATE BOARD :Supply,fixing,testing and commissioning of 1 No 6 A Multi Socket with 1No. 6 A switch (Modular type) with cover plate, sheet steel box / PVC modular box etc on surface / concealed manner I/c electrical connections and making good all the damages, painting, cleaning the site etc complete including all accessories as per site requirement and as directed. (Minimum two and Maximum three points are loop with one circuit as mentioned beolw)		Nos			
3	Power Wring (6 / 16 AMP. POWER POINTS). Supply, fixing, testing and commissioning of 1 No 16 A switch & 1 No.six pin 6/16 Amp. Multi Socket (Modular Type) with cover plate, sheet steel box etc on surface / concealed manner I/c electrical connections and making good all the damages, painting, cleaning the site etc complete including all accessories as per site requirement and as directed. (Maximum two points are loop with one circuit as mentioned below)	10	Nos			

SPECIAL POINTS: (For Computers). Supply, fixicommissioning of following Modular type switch socket with modular box on Surface / sheet steel box in concealed materials.			
connections and making good all the damages, painting, cl- complete including all accessories as per site requirement 2 Nos. 6 A Switch + 3 Nos. 6 A, 3 pin Socket (Minimum two and Maximum three points are loop wi mentioned beolw)	eaning the site etc and as directed.	Nos	
AC/Geyser Point (Single Phase). Supply, Installatic commissioning of the surface / recess mounting A.C. / GE with the followings: Metra Plug and Socket DBs with one Nos 20 Amp SP M and socket with complete Enclosur plate and box 1 connections and making good all the damages, painting, cloomplete including all accessories as required as per site as directed by Bank Engineer. OR Modular 32A DP 1 way switch with plate & box 1 set. socket (Only one point is connected with one circuit as mentioned)	CB, 20 Amp plug set i/c electrical eaning the site etc requirement and + 25A & 10A twin	Nos	
AC Point (Three Phase). Supply, Installation, Testing and the surface / recess mounting A.C. Cassette power point w Metal enclose Four way with one Nos 32 Amp FP M6 Enclosur plate and box 1 set i/c electrical connections and the damages, painting, cleaning the site etc complete as re requirement and as directed. (Only one point is connected mentioned below)	th the followings: CB with complete d making good all equired as per site	Nos	
CIRCUIT WIRING:(FR LS WIRE) Supply, installation, testing & commissioning of FRLS circumeasured in numbers with suitable size of MS conduit 1.6 r 25mm dia. The wiring in MS conduit is as per IS code. The wiring around between(25-30) Mtr.	nm thick and		
7.a 3 X 2.5 sqmm (For UPS Circuit/6 amp Separate Board) in 16 SWG (MMS) steel conduit as per IS code.	suitable size of 6	Nos	
7.b 3 X 4.0 sqmm (For AC/Power Circuit) in suitable size of 16 SWG (MMS) steel conduit as per IS code.	5	Nos	
8 UPS OUTGOING & OTHER FR WIRING, As Per Requirment.			
8.a 3 X 1.5 Sqmm copper multistreand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.	5	R.Mtr	
8.b 3 X 2.5 Sqmm copper multistreand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.	30	R.Mtr	
8.e 5 X 4 Sqmm. Copper multistrend FRLS wire in suitable size (MMS) steel conduit (For Cassettee AC)	of 16 SWG 160	R.Mtr	
9 Distribution Boards			
Providing & fixing 8 way vertical load line double door D.B f 9.a Amp. TP MCCB incomer and outgoing to be 7 Nos 32 amp 32 amp SP MCB FOR AC		Nos	
9.b Providing and fixing 6 way TPN double door DB for LI POINTS with 63 Amp TPN , controlling 18 Nos. 10/16/32 A Complete.		Nos.	
9.c Providing and fixing (12) way SPDB double door type For U1x32 Amps DP, controlling 10 Nos, 10 AMP SPMCB for up		Nos.	
Providing and fixing (4) way TPN double door type For 1x 63 Amps TPNand 63 amp DP MCB- 3 Nos & 3 Nos, 32 complete		Nos.	

10	Supply, Fixing, testing & Commissioning of 8 module pop Up Box with one no. USB, one no. RJ-45, one no. 10 Amp Switch, one no. 20 Amp Switch, one no. 20 Amp Socket and one no. 10 Amp Socket Complete in all respect Make: Legrand	6	Nos.	
11	CABLES			
	Supplying, unloading, storage, laying, testing and commissioning of PVC/XLPE insulated (Heavy Duty) Al/Cu conductor armoured cable suitable for working voltage upto and including 1100 V grade, laid and tied on existing overhead cable trays, or laid and tied over MS supports in masonry trenches with copper/al cable lugs, single compression brass cable glands, tapping, crimping etc. as required and all cables run with double run(2 No.) of GI wire of 8 SWG size. The size of cables are as under:-Make of Material:- (i) PVC/XLPC Armoured cable:- Finolex, Havells, RR cable, CCI(Cable Corp. of India) (ii) Cable Termination:- Dowells, Comet			
11.a	3.5 X 70 Sq.mm XLPE. Al. armoured Cable AC D.B.	50	Mtr	
11.b	3.5 X 50 Sq.mm XLPE. Al. armoured Cable for DG Set	60	Mtr	
11.c	3.5 X 25 Sq.mm XLPE.Al.armoured Cable (POWER/LIGHT/UPS)	65	Mtr	
11.d	4X 16 Sq.mm XLPE.Al.armoured Cable (LIGHT/UPS)	52	Mtr	
12	EARTHING			
(i)	COPPER PLATE EARTH STATION: Preparation of the Plate Earth Station: (As per IS:3043) (a) Excavation of hard rocky earth, soft murrum, hard murrum etc and back filling with black cotton soil for the earth station, the earth pit size is 1000 mm X 1000 mm X 2500 mm. (b) Supply and fixing of Copper Plate of Size 600 mm X 600 mm X 3.0 mm thick. (c) Fixing of 50 mm X 6 mm, 3 Mtrs copper strips from Copper Plate to earth terminal including brazing/welding at plate etc. (d) Supply and laying in position 19 mm, 2 Mtrs G.I "B" Class pipe for watering with reducer/funnel with mesh. (e) Supply and Fixing of the following in the earth station. (i) 75 Kg. Charcoal. (ii) 15 Kg. Original Salt. (iii) Black Cotton soil of adequate amount. (f) Construction of earth pit chamber including necessary brick work concrete, plastering, S/F of C.I Cover of size 12" X 12" complete as per site requirment.	1	Nos	
(ii)	G.I.PLATE EARTH STATION: Preparation of the Plate Earth Station: (as per IS:3043) (a) Excavation of rocky earth, soft murrum, hard murrum etc and back filling with black cotton soil for the earth station, the earth pit size is 1000 mm x 1000 mm x 2500 mm deep. (b) S/F of G.I. plate of size 600 x 600 x 6.0 mm thick. (c) S/F fixing 50 mm x 6 mm, 3 mtrs G.I, strips from G.I.plate to earth terminal including brazing / welding at plate etc. (d) Supplying and laying in position 19 mm, 2 mtrs G.I. `B' class pipe for watering.with reducer/funnel with mesh. (e) S/F of the following in the earth station. 75 Kg. Charcoal, 15 Kg. Original Salt. and Black Cotton soil of adequate amount. (f) Construction of earth pit chamber including necessary brick work concrete, plastering, S/F of C.I. Cover of size 12" x 12" complete as per site req.and marking its value and identification etc.	2	Nos	
(iii)	Providing and fixing Copper/GI strip as per specification compete including connection to earth electrode revetting/sweating/soldering, burying 15 cms below in all types of soil/rocks etc complete as required. (a) 25 x3 mm Cu Strip	5	Mtr.	
	(b) G.I.Strip 25 X 5 mm	180	Mtr	

	Cumply and loving of 10 Cg mar CEOV//1100 V/DV/O and do in order	I	1		
" .	Supply and laying of 10 Sq.mm 650V/1100 V PVC grade insulated copper				
(iv)	wire in 15 mm G.I. Pipe ISI grade including all accessories	80	Mtr.		
	complete as required.				
	OCCUPANCY SENSORS:-				
	Supply, installation , testing and commissioning of occupancy sensor				
13	surface/recess mounted as per site condition complete with all	2	Nos		
13	wiring/conduit/Switch etc complete in all respect as per site condition as	~	INOS		
	required Honeywell Make K5015/16, Siemens/Johnson Control				
	OR Equivalent as per Bank's approved.				
14	DATA CABLING FOR LAN				
	Providing, fixing, testing and commissioning of all nodes of four pair UTP				
	CAT 6 LAN cables length upto 30 meter length or less as per site				
	conditionin suitable size 20/25 mm dia, 16 SWG wall thickness rigid				
	PVC conduit with conduit accessories like bend/junction box/ fan box etc on				
	surface/recessed manner and making good all the damages,				
	painting, cleaning the site etc complete as required as per site condition				
	and as directed as required. Junction box shuld be covered with Stainless				
	·				
	steel plate with screw with gasket for protection of water/dust.				
а	Providing, fixing, testing and commissioning of modular type Information	6	Nos		
	Outlets with suitable size of MS/PVC modular boxes complete, all				
	accessories with insulation displacement connectors etc suitable for				
	CAT 6 UTP cabling with RJ-45 socket with testing and commissioning of				
	STP cabling with scanner for all the nodes/switches/jack				
	panel complete (Each point/circuit/cable from both load and				
	source end to be marked with ferrules.)				
	Make of Material:-				
	(i) Data Cable, Cat 6 cable, Switch, Jack panel, Rack, Patch cords &				
	Other accessories:- D-Link, Legrand				
	Providing and fixing Patch Panels 24 port (100 base TX) CAT 6 patch/jack				
b	panel with connector, out lets and necessary connectivity complete as	1	Nos		
	required & (D-Link make)				
	Providing, assembling, fixing, testing and commissioning Floor/Wall				
С	mounted RACKS for gig switches, patch panels etc including cooling	1	Nos		
	DUAL fan trays, a 10 Point PDU, Fixed Trays as necessarycomplete.				
	9 U wall mounted RACK				
d	Providing and fixing of flowing factory fabricated Patch cords. (UTP/CAT				
-	6 complete with connector on both side.) for 1 Mt. long	_			
i		6	Nos.		
ii	for 2 Mt. long	6	Nos		
	Providing, fixing,testing and commissioning of four pair CAT 6 LAN				
е	cable in suitable size of 20/25mm PVC medium gauge 16SWG conduit	92	Mtr		
	including all accessories				
1-	TV POINT:-Supply, installation, testing and commissioning of TV	_	. .		
15	point(Modular) with RG-6 cable in the Medimum Gauge 1.6 mm PVC Conduit with all accessories complete in all respect	5	Nos		
	Supply and installation of Vinyl sticker for on Electrical DBs like, "				
16	Switch Off at Night", Switch Off For Safety, etc	6	Nos		
	Description of light /fan fixture				
	LED LUMINARES:- 2' x2' (FULL GLOW TYPE)				
	LED light fittings (600 X600mm) dimension suitable for grid/gypsum ceiling				
	complete with its electrionic driver as required per instruction of Bank's				
17	Model No are as under:- PHILIPS:- RC380B G2 LED 35S-6500 PSU OD	12	Nos		
	WH LED (FULLGLOW)				
	WIPRO:- CRCO10RO 38 HP57				
	HAVELLS:- LHECDIL7IL1W036 (Edge- Lit)				
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	LED DOWNLIGHTER: 15 Watt, recessed mounted circular down lighter, 6" dimension with				
18	complete its electronic driver are as under:- PHILIPS:- GREENLED-DN193B LED-12S-6500 PSU	14	Nos		
'	WIPRO:- IRIS LED LD 71-121-XXX-50-XX	''	1403		
	HAVELLS:- LHEBJNP ZPZ 1W 015(ENDURA LOW DEPTH)				
	CG:- LC DD-15-CDL,				
19	BOX TYPE LUMINAIRES: LED TUBE FITTINGS, 1200mm, 18/20 Watt PHILIPS/WIPRO/HAVELLS/CG	16	Nos		
20	LED Spot Light, 3 Watt, 2/3"(Inches) size as per site requirment.	3	Nos		
	PHILIPS, WIPRO, HAVELLS, CG		1100		
	LED COVE/ STRIP LIGHT WITH ITS ELECTRONIC				
21	DRIVER(BLUE COLOUR) :- Supply, installation, testing and commissioning	60	Mtr		
-	of bright LED strip light with its electronic driver complete as required.	00			
	PHILIPS, WIPRO, HAVELLS, CG				
	CEILING FAN:				
	Single phase heavy duty grease filled double ball bearing, aerodynamically	10	Nos		
22	designed heavy gauge aluminium blades, copper wounded and impregnated				
22	silicon stamping motors etc				
	1200 mm sweep, brilliant white				
	CG/USHA/ ORIENT/HAVELLS				
	EXHAUST FAN:-				
	Single phase, 300mm sweep, 900 rpm, metallic exhaust fan of the following				
	single phase Exhaust fan continuously rated, capacitor start and run type,				
23	totally enclosed and ruggedly built, pre lubricated double ball bearing, copper	4	Nos		
23	wounded, A & E class insulation, dynamically balanced, below 40 db sound	+	Nos		
	level etc, front cover with grill/gravity louver for protection purpose with 12				
	mm plywood complete in all respect make as under: CG/USHA/				
	ORIENT/HAVELLS/ALMONARD/ALSTOM				
24	Grand Total (Excluding GST)				

Amount (in words)	onl	١
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Seal & signature of Vendor