BOQ OF ELECTRICAL WORK OF BRANCH PREMISES & ON SITE A.T.M. OF "STATE BANK OF INDIA" AT SHAMGARH, M.P., (MANDSAURE)

S.No	Description of items	Qty.	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 FR 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				
а	direction of Bank Engg. Make of Material for items of BOQ: Providing and fixing of point wiring with above specifications. One light point controlled by one switch.	47	Nos.	0	0
b	Providing and fixing of point wiring with same above specifications. Two light points to be controlled by one switch.	8	Nos	0	0
С	Providing and fixing of ceiling fan point controlled as under (i) one 6 amp switch	11	Nos.	0	0
d	providing and fixing 6 Amps Plug Points with same specs as above and install along with same light switchboard	8	Nos	0	0
e.	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	6	Nos	0	0
2	6 AMP. POINTS ON SEPARATE BOARD :Supply,fixing,testing and commissioning of 1 No 6A Multi Socket with 1No. 6A 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	-			
3	mentioned beolw) 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.	10	Nos		0
	(Maximum two points are loop with one circuit as mentioned below) SPECIAL POINTS: (For Computers). Supply, fixing, testing and commissioning of following Modular type switch socket with cover plate, PVC modular box on Surface / sheet steel box in concealed manner I/c electrical connections and making good all the damages,	8	Nos		0
4	painting, cleaning the site etc complete including all accessories as per site requirement and as directed. 2 Nos. 6 A Switch + 3 Nos. 6 A, 3 pin Socket (Minimum two and Maximum three points are loop with one circuit as	40	NI-		_
7	mentioned beolw) CIRCUIT WIRING:	10	Nos		0
7. A	3 X 2.5 sqmm (For UPS Circuit/6 amp Separate Board) in suitable size of 16 SWG (MMS) steel conduit as per IS code.	11	Nos		0

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7.b	3 X 4.0 sqmm (For AC/Power Circuit) in suitable size of 16 SWG	-		
	(MMS) steel conduit as per IS code.	7	Nos	0
8	UPS OUTGOING & OTHER WIRING, As Per Requirment.			
(a)	3 x 10 Sqmm copper multistreand wire in 25 mm 16 SGW (MMS) steel conduit.(UPS INPUT DB TO UPS)	20	R.Mtr	0
(b)	3 X 1.5 Sqmm copper multistreand wire in suitable size of 16 SWG (MMS) steel conduit.	10	R.Mtr	0
(c)	3 X 2.5 Sqmm copper multistreand wire in suitable size of 16 SWG (MMS) steel conduit.	10	R.Mtr	0
(d)	3 X 4 Sqmm copper multistreand wire in suitable size of 16 SWG (MMS) steel conduit.	10	R.Mtr	0
(e)	5 X 4 Sqmm. Copper multistrend wire in suitable size of 16 SWG (MMS) steel conduit (For Cassettee AC)	30	R.Mtr	0
(f)	3 X 6 Sqmm copper multistreand wire in suitable size of 16 SWG (MMS) steel conduit.	20	R.Mtr	0
9	DISTRIBUTION BOARDS		1 (
	All MCB to be "C" series			
	B.INCOMING SWITCHGEARS: (RYB LED Indicators for Both Main/DG)			
	(i) 1 No. FP.125 A , 25 KA MCCB with thermal magnetic trip unit with			
	digital voltmeter & ammeter with suitable size of CTs, selector switch			
	C. OUTGOING SWITCHGEARS:			
	(i) 1 Nos- 125Amp TP MCCB for main with 200amp bus bar with			
а	indicator.			
	(ii) 160 amp onload changeover with 1 Nos 125 amp 25 KA, TP MCCB			
	for DG supply with 200 amp bus bar with indicator			
	(iii) 200 amp bus bar for parallel connection with DG changeover output			
	(Note:- Before Placing the Panel order, firstly it Passed by The Bank		NI	
	Authority, otherwise it will not considered)	1	Nos	0
	B.INCOMING SWITCHGEARS :(RYB LED Indicators for Both Main/DG)			
	(i) 1 No. FP.160 Amp , 25 KA MCCB with thermal magnetic trip unit			
	WITH Digital Voltmeter & Digital Ammeter sutiable size of CTS,			
	selector switches etc.			
	C. OUTGOING SWITCHGEARS:			
b	(i) 1 Nos- 125Amp TP MCCB for main with 200amp bus bar with			
	indicator.			
	(ii) 160 amp onload changeover with 1 Nos 125 amp 25 KA, TP MCCB			
	for DG supply with 200 amp bus bar with indicator			
	(iii) 200 amp bus bar for parallel connection with DG changeover output			
	(Note:- Before Placing the Panel order, firstly it Passed by The Bank			_
	Authority, otherwise it will not considered)	1	Nos	0
	Supply & Installation of SDP(Surge Protector Devicve) for general			
С	protection of main Distribution Board Legrad Make Cat No. 412247			
	(3P+N), 40 KA, T2- Imax 40KA/pole with complete wiring.	1	Nos	0
	Providing & fixing 8 way vertical load line double door D.B for AC with			
d	160 Amp. TP MCCB incomer and outgoing to be 4 Nos 32 amp TP			
	MCB, 6 Nos 32 amp SP MCB	1	Nos.	0
	Providing and fixing 6 way TPN double door DB for LIGHT /POWER			
е	POINTS with 63 Amp TPN , controlling 18 Nos. 10/16/32 Amps	_		_
	SPMCBs. & Complete.	2	Nos	0
	Providing and fixing 4 way TPN double door DB for LIGHT /POWER			
f	POINTS with 63 Amp TPN , controlling 12 Nos. 16/32 Amps SPMCBs.	_	_	
	& Complete.	2	Nos	0
~	Providing and fixing (12) way SPDB double door type For UPS points			
g	with 1x32 Amps DP, controlling 10 Nos, 16 AMP SPMCB	2	Nos.	0
	Providing and fixing (8) way SPDB double door type For Light DB only			
h	for Emergency Lights like glow sign etc with 1x32 Amps DP,			
	controlling 6 NO.10 A./16 AMP SPMCB	2	Nos.	0
1	Providing and fixing (4) way TPN double door type For UPS INPUT			
i	with 1x63 Amps TPNand 63 amp DP MCB- 3 Nos & 3 Nos, 32 amp SP			
	MCB complete (E-lobby/UPS Output)	1	Nos.	0
	Providing and fixing of Kit Kat Rewirable Porcelian fuse carrier & base			
J	with wooden frame of 200 amp/415 Volt near meter box	1	Set	0

10 CABLES Supplying, unloading, storage, laying, testing and commissi PVC/XLPE insulated (Heavy Duty) Al/Cu conductor armourd suitable for working voltage upto and including 1100 V grade, tied on existing overhead cable trays, or laid and tied over MS					
PVC/XLPE insulated (Heavy Duty) Al/Cu conductor armourd suitable for working voltage upto and including 1100 V grade, tied on existing overhead cable trays, or laid and tied over MS					
suitable for working voltage upto and including 1100 V grade, tied on existing overhead cable trays, or laid and tied over MS	ed cable				
tied on existing overhead cable trays, or laid and tied over MS	cu cable				
	, laid and				
	supports				
in masonry trenches with copper/al cable lugs, single com					
brass cable glands, tapping, crimping etc. as required and a	all cables				
run with double run(2 No.) of GI wire of 8 SWG size. The					
cables are as under:- Make of Material:-					
(i) PVC/XLPC Armoured cable:- Finolex, Havells, RR cable, C	CCI(Cable				
Corp. of India)					
(ii) Cable Termination:- Dowells, Comet					
e. 3.5 X 95 Sq.mm XLPE. Al. armoured Cable(Main cable)		20	Mtr		(
f) 3.5 X 70 Sq.mm XLPE. Al. armoured Cable(AC VTPN & BUS	S BARS)/	35	Mtr		(
g 3.5 X 50 Sq.mm XLPE. Al. armoured Cable(AC VTPN	& BUS	40	Mtr		(
i) 4X 25 Sq.mm XLPE.Al.armoured Cable (POWER/LIGHT/UPS))	30	Mtr		(
J 4X 16 Sq.mm XLPE.Al.armoured Cable (LIGHT/UPS)	/	30	Mtr		
			IVICI		
11 EARTHING					
COPPER PLATE EARTH STATION:					
Preparation of the Plate Earth Station:(As per IS:3043)					
(a) Excavation of hard rocky earth, soft murrum, hard murrum	n etc and				
back filling with black cotton soil for the earth station, the eart					
is 1000 mm X 1000 mm X 2500 mm.	•				
(b) Supply and fixing of Copper Plate of Size 600 mm X 600 n	mm X 3.0				
mm thick. (c) Fixing of 50 mm X 6 mm, 3 Mtrs copper str	rips from				
Copper Plate to earth terminal including brazing/welding at plat	te etc.				
(i) (d) Supply and laying in position 19 mm, 2 Mtrs G.I "B" Class	s 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 br					
concrete, plastering, S/F of C.I Cover of size 12" X 12" comple	ete as per	2	Nos		(
site requirment. G.I.PLATE EARTH STATION: Preparation of the Plate Earth	h Station:		1100		
(as per IS:3043) (a) Excavation of rocky earth, soft murru	1				
murrum etc and back filling with black cotton soil for the earth					
the earth pit size is 1000 mm x 1000 mm x 2500 mm deep. (
G.I. plate of size 600 x 600 x 6.0 mm thick. (c) S/F fixing 50					
mm. 3 mtrs G.L. strips from G.L.plate to earth terminal including					
/ welding at plate etc. (d) Supplying and laying in position 19	9 mm, 2				
mtrs G.I. `B' class pipe for watering.with reducer/funnel with r	mesh. (e)				
S/F of the following in the earth station. 75 Kg. Charcoal,					
Original Salt. and Black Cotton soil of adequate amo					
Construction of earth pit chamber including necessary bri					
concrete, plastering, S/F of C.I. Cover of size 12" x 12" comple		2	Nos		(
Providing and fixing Copper/GI strip as per specification					
(iii) including connection to earth electrode revetting/sweating/s	•				
burying 15 cms below in all types of soil/rocks etc comprequiued(a) Copper Strip 25 X 5 mm	piete as	20	Mtr.		(
(b) G.I.Strip 25 X 5 mm		20	Mtr	0	
Supply and laying of 10 Sq.mm 650V/1100 V PVC grade i	insulated			-	
(iv) copper wire in 15mm G.I. Pipe ISI grade including all acc					
complete as required.(Dedicated Earthing for UPS output DE		20	Mtr.	0	(

<u> </u>	BANK OF INDIA				
	OCCUPANCY SENSORS:-				
	Supply, installation, testing and commissioning of occupancy sensor				
	surface/recess mounted as per site condition complete with all wiring/				
12	conduit/Switch etc complete in all respect as per site condition as				
	required Honeywell Make K5015/16, Siemens/Johnson Control	_			
	OR Equivalent as per Bank's approved.	5	Nos	0	0
13	TELEPHONE POINT				
***************************************	Two pair, 0.61 mm dla. telephone cable tinned copper conductor,				
	P.V.C. insulated and sheathed , fire retarding, anti termite, colour				
	· • • • • • • • • • • • • • • • • • • •				
	coded twisted pairs and rip cord, Double outlet The length of telephone				
	cable upto 35 meter length or less as per site condition with shutter				
	modular type Telephone Outlets (RJ — 11) wth suitable size MS /				
(i)	PVC modular boxes and it laying, fixing, testing and commissioning in				
	suitable size 20/25 mm dia,16 SWG (Medium Gauge) thickness rigid				
	PVC conduit with conduit accessories like bend/junction box/ cover				
	plate/sheet steel/PVC box on surface/ concealed manner i/c electrical				
	I.				
	connections and making goods all the damages,replastering, painting,	40			
	cleaning the site etc complete as required as per site condition.	10	Nos	0	0
	Supplying and fixing of krone telephone tag block on surface/ recess				
	mounted with its accessories suitable for the multi core telephone cable				
	and shall accommodate tin-plated phosphor bronze connectors, the				
(ii)	connectors shall splice unskinned cables up to 0.61 mm dia and shall				
(,	1				
	be terminate both incoming and out going lines, the tag blocks shall be				
	mounted inside, water proof box and locking arrangement and shall be				•
	fully accessible. (A) 20 Pair tag block	1	Nos	0	0
/iii\	Supply, installation, testing and commissioning of the following size				
(iii)	jelly filled armoured tehephone cable. 20 pair	280	Mtr	0	0
14	DATA CABLING FOR LAN				
	P& 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 condi-				
	tionin 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 & making good all the damages, painting,				
	cleaning the site etc complete as required as per site condi-tion & as				
а	directed as required. Junction box shuld be covered with Stainless steel				
	plate with screw with gasket for protection of water/ dust. P., fixing,				
	testing & commissioning of modular type Information Outlets with				
	suitable size of MS/PVC modular boxes complete, all access-ories with				
	insulation displacement connectors etc suitable for CAT 6 UTP cabling				
	with RJ-45 socket with testing & commissioning of Cont	11	Nos	0	0
	Cont STP cabling with scanner for all the nodes/ switches /jack panel				
	complete (Each point/circuit/cable from both load & 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,		-		
	Providing and fixing Patch Panels 16 port (100 base TX) CAT 6				
b.	patch/jack panel with connector, out lets and necessary connectivity				
	complete as required & (D-Link make)	1	Nos	0	0
	Providing, assembling, fixing, testing and commissioning Floor/Wall				
	mounted RACKS for gig switches, patch panels etc including cooling				
d.					
	DUAL fan trays, a 10 Point PDU, Fixed Trays as necessarycomplete.		NI		0
***************************************	9 U wall mounted RACK	1	Nos	0	0
e.	Providing and fixing of flowing factory fabricated Patch cords.				
E.	(UTP/CAT 6 complte with connector on both side.)				
i)	for 1 Mt. long	11	Nos.	0	0
ii)	for 2 Mt. long	11	Nos		
11)		11	NOS	0	0
	Providing, fixing,testing and commissioning of four pair CAT 6 LAN				
f.	cable in suitable size of 20/25mm PVC medium gauge 16SWG conduit				
	including all accessories to interconnect the switches from different	380	Mtr	0	0
	TV POINT:-Supply, installation, testing and commissionig of TV				
15	point(Modular) with RG-6 cable in the Medimum Gauge 1.6 mm PVC				
	1. ,	1	Nos	0	0
	Conduit with all accessories complete in all respect	ı	1105	U	U

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<u> </u>	BANK OF INDIA				
16	Supply and installation of Vinyl sticker for on Electrical DBs like, " Switch Off at Night", Switch Off For Safety, etc	8	Nos	0	0
***************************************	Description of light /fan fixture		1403	- J	
	LED LUMINARES:- 2' x2' (FULL GLOW TYPE)				
	LED light fittings (600 X600mm) dimension suitable for grid/gypsum				
17	ceiling complete with its electrionic driver as required per instruction of Bank's Model No are as under:-				
	PHILIPS:- RC380B G2 LED 35S-6500 PSU OD WH LED (FULLGLOW)				
	WIPRO:- CRCO10RO 38 HP57 HAVELLS:- LHECDIL7IL1W036 (Edge- Lit) CG:- LCTAR3-40-CDL	28	Nos	0	0
	LED DOWNLIGHTER:				
	15 Watt, recessed mounted circular down lighter, 6" dimension with complete its electronic driver are as under:-				
18	PHILIPS:- GREENLED-DN193B LED-12S-6500 PSU				
	WIPRO:- IRIS LED LD 71-121-XXX-50-XX HAVELLS:- LHEBJNP ZPZ 1W 015(ENDURA LOW DEPTH)				
	CG:- LC DD-15-CDL,	18	Nos	0	0
	LED DOWNLIGHTER:SURFACE MOUNTED FOR FRONT SIDE(EXTERNAL)				
19	15 Watt, surface mounted circular/square down lighter, 6" dimension				
	with complete its electronic driver are as under:-	1	Nee		0
	PHILIPS, WIPRO, HAVELLS, CG LED Spot Light, 3 Watt, 2/3"(Inches) size as per site requirment.	4	Nos	0	0
21	PHILIPS, WIPRO, HAVELLS, CG	3	Nos	0	0
	LED COVE/ STRIP LIGHT WITH ITS ELECTRONIC DRIVER(BLUE COLOUR):- Supply, installation, testing and commissioning of bright				
22	LED strip light with its electronic driver complete as required.				
	PHILIPS, WIPRO, HAVELLS, CG Providing & fixing of "Digital Clock" /Digital Panel indicating Time,	33	Mtr	0	0
23	Day, Date, Temperature at outside of big size,(Ajanta - OLC-1070)				
23	as suitable over the facade as advised by the Bank with standard power	1	Nos		0
24	back up. Make:- Ajanta, Titan BOX TYPE LUMINAIRES: LED TUBE FITTINGS, 1200mm, 18/20 Watt	9	Nos	0	0
	CEILING FAN:				
25	Single phase heavy duty grease filled double ball bearing, aerodynamically designed heavy gauge aluminium blades, copper				
23	wounded and impregnated silicon stamping motors etc				
	1200 mm sweep, brilliant white CG/USHA/ ORIENT/HAVELLS	11	Nos	0	0
	EXHAUST FAN:- Single phase, 300mm sweep, 900 rpm, metallic exhaust fan of the				
	following single phase Exhaust fan continuously rated, capacitor start				
26	and run type, totally enclosed and ruggedly built, pre lubricated double ball bearing, copper wounded, A & E class insulation, dynamically				
	balanced, below 40 db sound level etc, front cover with grill/gravity				
	louver for protection purpose with 12 mm plywood complete in all				
	respect make as under: CG/USHA/ WALL FAN:-(Only Metallic Body)	3	Nos	0	0
27	Oscillating wall fan with regulator i/c coonections etc complete as				
	required as per approved make, Sweep 400/450 mm , RPM 1300 make are as under: CG/USHA/ ORIENT/HAVELLS	1	Nos	0	0
	are as uniter. CG/03/1A/ ORIENT/HAVELES	<u> </u>	1403		0
	(A) TOTAL OF ELECTRICAL WORK				0
	IDEEO				
K	JPEES				
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		Sear	s Sign o	f Contracto	DΓ
-		1			