

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 streded 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 should 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. Make of Material for items of BOQ:-				
a	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
c	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 l/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)	10	Nos		0
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 l/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)	8	Nos		0
4	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 l/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. 2 Nos. 6 A Switch + 3 Nos. 6 A, 3 pin Socket (Minimum two and Maximum three points are loop with one circuit as mentioned beolw)	10	Nos		0
7	CIRCUIT WIRING :				
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

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 Requirement.				
(a)	3 x 10 Sqmm copper multistread 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 multistread wire in suitable size of 16 SWG (MMS) steel conduit.	10	R.Mtr		0
(c)	3 X 2.5 Sqmm copper multistread wire in suitable size of 16 SWG (MMS) steel conduit.	10	R.Mtr		0
(d)	3 X 4 Sqmm copper multistread wire in suitable size of 16 SWG (MMS) steel conduit.	10	R.Mtr		0
(e)	5 X 4 Sqmm. Copper multistread wire in suitable size of 16 SWG (MMS) steel conduit (For Cassettee AC)	30	R.Mtr		0
(f)	3 X 6 Sqmm copper multistread wire in suitable size of 16 SWG (MMS) steel conduit.	20	R.Mtr		0
9	DISTRIBUTION BOARDS				
	All MCB to be "C" series				
a	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 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
b	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 suitable size of CTS, selector switches etc. C. OUTGOING SWITCHGEARS: (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
c	Supply & Installation of SDP(Surge Protector Devicve) for general protection of main Distribution Board Legrad Make Cat No. 412247 (3P+N) , 40 KA, T2- lmax 40KA/pole with complete wiring.	1	Nos		0
d	Providing & fixing 8 way vertical load line double door D.B for AC with 160 Amp. TP MCCB incomer and outgoing to be 4 Nos 32 amp TP MCB, 6 Nos 32 amp SP MCB	1	Nos.		0
e	Providing and fixing 6 way TPN double door DB for LIGHT /POWER POINTS with 63 Amp TPN , controlling 18 Nos. 10/16/32 Amps SPMCBs. & Complete.	2	Nos		0
f	Providing and fixing 4 way TPN double door DB for LIGHT /POWER POINTS with 63 Amp TPN , controlling 12 Nos. 16/32 Amps SPMCBs. & Complete.	2	Nos		0
g	Providing and fixing (12) way SPDB double door type For UPS points with 1x32 Amps DP, controlling 10 Nos, 16 AMP SPMCB	2	Nos.		0
h	Providing and fixing (8) way SPDB double door type For Light DB only for Emergency Lights like glow sign etc with 1x32 Amps DP, controlling 6 NO.10 A./16 AMP SPMCB	2	Nos.		0
i	Providing and fixing (4) way TPN double door type For UPS INPUT with 1x63 Amps TPNand 63 amp DP MCB- 3 Nos & 3 Nos, 32 amp SP MCB complete (E-lobby/UPS Output)	1	Nos.		0
j	Providing and fixing of Kit Kat Rewirable Porcelian fuse carrier & base with wooden frame of 200 amp/415 Volt near meter box	1	Set		0

10	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				
e.	3.5 X 95 Sq.mm XLPE. Al. armoured Cable(Main cable)	20	Mtr		0
f)	3.5 X 70 Sq.mm XLPE. Al. armoured Cable(AC VTPN & BUS BARS)/	35	Mtr		0
g	3.5 X 50 Sq.mm XLPE. Al. armoured Cable(AC VTPN & BUS	40	Mtr		0
i)	4X 25 Sq.mm XLPE.Al.armoured Cable (POWER/LIGHT/UPS)	30	Mtr		0
J	4X 16 Sq.mm XLPE.Al.armoured Cable (LIGHT/UPS)	30	Mtr		0
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 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. (i) (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 requirement.	2	Nos		0
	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	2	Nos		0
(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 requiued. (a) Copper Strip 25 X 5 mm	20	Mtr.		0
	(b) G.I.Strip 25 X 5 mm	20	Mtr	0	0
(iv)	Supply and laying of 10 Sq.mm 650V/1100 V PVC grade insulated copper wire in 15mm G.I. Pipe ISI grade including all accessories complete as required. (Dedicated Earthing for UPS output DB only)	20	Mtr.	0	0

12	<p>OCCUPANCY SENSORS:- Supply, installation, testing and commissioning of occupancy sensor surface/recess mounted as per site condition complete with all wiring/ 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.</p>	5	Nos	0	0
13	<p>TELEPHONE POINT</p>				
(i)	<p>Two pair, 0.61 mm dia. 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) with suitable size MS / 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 connections and making goods all the damages, replastering, painting, cleaning the site etc complete as required as per site condition.</p>	10	Nos	0	0
(ii)	<p>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 connectors shall splice unskinned cables up to 0.61 mm dia and shall 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</p>	1	Nos	0	0
(iii)	<p>Supply, installation, testing and commissioning of the following size jelly filled armoured telephone cable. 20 pair</p>	280	Mtr	0	0
14	<p>DATA CABLING FOR LAN</p>				
a	<p>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 condition in 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 condition & as directed as required. Junction box should 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 accessories with insulation displacement connectors etc suitable for CAT 6 UTP cabling with RJ-45 socket with testing & commissioning of Cont...</p>	11	Nos	0	0
	<p>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,</p>				
b.	<p>Providing and fixing Patch Panels 16 port (100 base TX) CAT 6 patch/jack panel with connector, outlets and necessary connectivity complete as required & (D-Link make)</p>	1	Nos	0	0
d.	<p>Providing, assembling, fixing, testing and commissioning Floor/Wall mounted RACKS for gig switches, patch panels etc including cooling DUAL fan trays, a 10 Point PDU, Fixed Trays as necessary complete. 9 U wall mounted RACK</p>	1	Nos	0	0
e.	<p>Providing and fixing of flowing factory fabricated Patch cords. (UTP/CAT 6 complete with connector on both side.)</p>				
i)	<p>for 1 Mt. long</p>	11	Nos.	0	0
ii)	<p>for 2 Mt. long</p>	11	Nos	0	0
f.	<p>Providing, fixing, testing and commissioning of four pair CAT 6 LAN cable in suitable size of 20/25mm PVC medium gauge 16SWG conduit including all accessories to interconnect the switches from different</p>	380	Mtr	0	0
15	<p>TV POINT:-Supply, installation, testing and commissioning of TV point (Modular) with RG-6 cable in the Medium Gauge 1.6 mm PVC Conduit with all accessories complete in all respect</p>	1	Nos	0	0

