

<b>TENDER FOR ELECTRICAL WORK AT SARB BRANCH, RAIPUR</b>					
Sr.No	Items/Electrical Equipment	Quantity	Unit	Rate	Amount
1	<p><b>ELECTRICAL POINT WIRING</b> Supply, installation, testing and commissioning of concealed point wiring with two nos.1.5 sqmm, for light points OR 2.5 sqmm for UPS points OR 4.0 sqmm for AC points Fire Retardant Low Smoke (F.R.L.S.) PVC insulated single core stranded copper conductor wire 1100 V grade( for Ph &amp;N) and 1.5/2.5/4.0 sqmm Fire Retardant Low Smoke (F.R.L.S.) PVC insulated single core/multi stranded copper conductor wire. 440V grade, as earth wire in 1.6 mm thick 25mm dia Hot DIP Galvanized Steel Conduit Pipes for High Protection against Corrosion/External Influences M.S. Conduit pipes. All wires Finolex/Havels make, complete with drops up to boards, staples, accessories and hardware etc. installation of the conduit in slabs, walls, beams, columns, floor etc. the point shall include modular type series of Crabtree/Anchor-Roma make or approved equivalent in required combinations including 6A SP control switch, 3-plate ceiling rose, angle or straight holder, electronic regulator for ceiling fan, sockets for half point etc.(as and where required). Rate is excluding the cost of main circuit wiring. Colour code must be follow in the wiring i.e Red, Blue, Yellow for phase, while green for earthing and black for neutral.</p> <p><b>Each LED light and fan should be properly earthed.</b> (Note:-All the wiring and boards to be concealed in wall. In case of ceiling, Hot DIP Galvanized Steel Conduit Pipes for High Protection against Corrosion/External Influences M.S. conduit pipes 25 mm to be laid on surface with appropriate interval of saddle /clamps and to be connected to fixtures through ceiling rows. In no case to be tie up with the false ceiling.)</p>				
	a. Light & Exhaust fan/fresh air fan point: (3x1.5 sq mm Fire Retardant Low Smoke (F.R.L.S.)) (additional light points to be provided in banking hall and areas where false ceiling has been proposed. In other areas fixtures to be installed on the existing points provided by the landlord).	45	Point		
	b) Call bell point: with installation of call bell (2x1.5 sq mm)	3	Point		
	c) 6 Amp half point: 3/5 pin point i.e. half point (3x1.5 sq mm )	20	point		
	d) ceiling fan point 3x1.5 sq mm wire with electronic fan regulator (step type)	5	Point		
2	<p><b>Circuit Wiring : Supplying, fixing, testing and comm. etc. for light / power with PVC insulated copper conductor single core multi stranded Fire Retardant Low Smoke (F.R.L.S.) wire in 16 SWG Hot DIP Galvanized Steel Conduit Pipes for High Protection against Corrosion/External Influences MS conduit pipe 25 mm with accessories like bend / junction box in concealed manner and making good all the damages, painting, cleaning the site etc. as directed.</b></p>				
	a) 3x2.5 sq mm Fire Retardant Low Smoke (F.R.L.S.) wire in 25 mm M.S. conduit for UPS Board.	120	Mtr		
	b) 3x2.5 sq mm Fire Retardant Low Smoke (F.R.L.S.) wire in 25 mm M.S. Conduit for Light Board Point.	70	Mtr		
	c) 3x2.5 sq mm Fire Retardant Low Smoke (F.R.L.S.) wire in 25 mm M.S. Conduit for Raw power point.	90	Mtr		
	d) 3x4.0 sq mm Fire Retardant Low Smoke (F.R.L.S.) wire in 25 mm M.S. Conduit. for A.C.	90	Mtr		
	e) 4x6.0 sq mm cable in 25 mm M.S. Conduit. For UPS input	12	Mtr		
	f) 1x6 sq.mm Copper wire	60	Mtr		
	g) 8 swg bare Copper conductor	60	Mtr		
	ARMOURED CABLE				

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3 a)	Supply and installation of 3.5 core X 35 sqmm Aluminum armoured cable, from the Pole to Meter and from Gen. set to the main distribution board with accessories required for its fitting in position. Cable should be of Polycab/Finolex/RR cables make.	5	R. mtr.		
b)	ARMOURED CABLE Supply and installation of 3.5 core X 25 sqmm Aluminum armoured cable, from the MDB's Bus Bar to UPS DB and from Gen. set to the main distribution board with accessories required for its fitting in position. Cable should be of Polycab/Finolex/RR cables make.	10	R. mtr.		
4	ELECTRICAL APPLIANCES & ITEMS Supply and installation of following electrical items complete with all necessary fittings & fixtures				
	a. P/F surface/ <b>recessed mounting 36/40 W LED</b> fixture size 2' X 2' model Philips/Crompton/Wipro/ Havells (2'x2')/ make, LED should be full panel	25	No.		
	b. <b>1x12Watts LED down light:</b> Providing and fixing recessed mounting (8-12) W LED complete Phillips/ Wipro, Opelite/ Crompton / Havells or equivalent approved make.	30	No.		
	c. Wall fans: Supply and fixing in position <b>18" wall mounted bracket fan</b> Crompton, Hevels, Bajaj with ISI mark of white colour with suitable hanging shackle, blades, canopy and fan motor with double ball bearing for operation on 230/240 V AC supply.	10	No.		
	d. Ceiling fan 42" Bajaj, Havells/Crompton,	3	No		
	e. 12", 1400rpm, heavy duty exhaust fan. "Turbo Force" model of Havells/ Crompton/ Usha	3	No		
	f. Supply and fixing in position LED 18 W tube light of Havells/ Crompton/ Wipro/ Philips make	15	No.		
5	SEPARATE POWER POINT FROM RAW POWER(6/16Amp combined ) Supply, installation, testing and commissioning of concealed power point with all drops up to boards, staples, accessories and hardware etc. installation of the conduit in slabs, walls, beams, columns, floor etc. the point shall include modular type series of Crabtree/Anchor-Roma/Wipro-North west make or approved equivalent in required combinations including 16 A SP control switch 3/5 pin 16 A socket etc. for printer/note counting m/c.	15	No.		
6	a) AC point: (3x 4 sqmm) with installation of 25 amp SP MCB HAVELLS/MDS make at the point of installation of 2 T/1.5 T Split AC. The rates include 16-25 amp SP starter switches having red & green colour button, which should be 3 feet above from the floor level.	13	Point		
	b) AC point: (4x4.0 sqmm) with installation of 40 amp TP MCB HAVELLS/MDS make at the point of installation of external unit of 3 / 4 T Cassette AC. The rates include 16-25 amp SP starter switches having red & green colour button, which should be 3 feet above from the floor	2	Point		
7	UPS POINT WIRING FOR COMPUTER TERMINALS Supply, installation, testing and commissioning of concealed point wiring from the UPS to the Computer terminals with 3x2.5 sq mm PVC insulated single core stranded copper conductor wire 1100 V grade( for Ph ,N & E) in 1.6 mm thick 25mm dia MS conduit pipes. All wires Finolex/Havels/RR cables make, complete with all drops up to boards, staples, accessories and hardware etc. installation of the conduit in slabs, walls, beams, columns, floor etc. the point shall include modular type series of Carbtree/Anchor-Roma make or approved equivalent in required combinations including 6A SP control switch, 3-plate ceiling rose, angle or straight holder, sockets etc.(as and where required). Rate is excluding the cost of circuit wiring.				

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	a. 4 Nos socket + 2 Nos switches (6 Amp): to be mounted on the furniture on surface mounted PVC box	20	No.		
8	a) UPS POWER DIS. BOARD ( For UPS Out Going) 1 no. MCB DB 12 way(2+12 ways) 2 no. TPN MCB 63 amp 12 nos SP MCB 10 amp	1	No.		
	b) U.P.S. DISTRIBUTION BOARD(for UPS input): 63 A SPN MCB - 1 NO. 1 no. Fabricated 18 swg m.s. box of suitable size or factory made.	1	No.		
9	Preparation and commissioning of earth pit with 600 x 600 x 3.15 mm thick Copper Plate. Plate should be burred at the depth of 8 feet in the vertical position with watering arrangement,masonry chamber, funnel, with cover plate having locking arrangement and water pipe of 3 mtr. Long with charcoal salt etc as required. The electrode shall be connected with 25 mm x 3 mm thick G.I. Strip and terminated into the chamber with nut bolt arrangement .The rate shall include cost of earthing strip upto the chamber. For Main Earth. One to general electrification & one for computer power supply line. Add Extra for using salt and charcoal / coke for Copper plate earth electrode as required including excavation in hard rock and refilling the pit with 2 trolly of black soil. <b>At the time of earthing, contractor shall be called the Engineer for the verification of earth plate, earth pit size, salt and charcoal ,otherwise no claim will be paid to contractor for earthing.</b>  <b>OR</b> Chemical earthing of OBO Bettermann earthing kit 14.2 mm Dia 3000 mm length with 25 Kg ECEMC compound / necessary wiring with complete materials with Chamber cover. 1-For Main Panel, 1- for UPS for the Neutral of the Main Panel. The cost should be inclusive of copper strips of 25x3 mm of 10 mtrs. Length	1	No.		
10	<b>LOAD LINE DB ( Double door ) :</b> a) Supplying and fixing of following 4 Way three pole and neutral, sheet steel Vertical MCB distribution board , 415 volts on surface / recess, complete with tinned copper busbar , neutral bar, earth bar , din bar , detachable gland plate with Cable termination box, interconnection including painting,earthing etc as required,With the followings - 01 no. 100 amp., 10 KA , TP MCCB 32 A SP MCB - 02 Nos. 63 A TP MCB - 02 Nos.	1	No.		
	b) 160 Amp MCCB with enclosure to cut off the supply of Main Cable	1	Nos		
	c) <b>LIGHT DISTRIBUTION BOARD:</b> 1 no. TPN MCB DB 4 way (4+12 ways) 1 no. TPN MCB 32 amp. 12 Nos. SP MCB 06 amp.	1	Nos		
	<b>POWER DISTRIBUTION BOARD:</b> 1 no. TPN MCB DB 4 way (4+12 ways) 1 no. TPN MCB 63 amp. 12 Nos. SP MCB 20/32 amp.	1	Nos		
11	<b>DATA LINE FOR COMPUTER</b> CABLE: Providing, supplying and lying of concealed data line with four pair UTP Cat-6 data cable in separate PVC conduit/casing capping. Lying must be concealed on slabs, beams, columns, walls, floor etc. it must be open in casing capping through the furniture. The open line must run under/behind the furniture such that it shall not be visible from the out side of the furniture.	520	Mtrs		
12	Providing, supplying and installation of IO box on counters/side table/walls as per the locations of the computer terminals. The rate must be inclusive of supply one No. RJ-45 connector for each IO box. The rate must also include punching of Cat-6 cable at the IO- box and crimping of Cat-6 cable on the other end of each line/IO box.	20	No.		
13	a) 2 Mtr. Long ready to use patch cord.	20	No.		
	b) ----DO----1 Mt long	20	No.		

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14	TELEPHONE WIRING Providing, supplying and installation of concealed telephone point wiring with 2-pair telephone wire of Havells/ Finolex make in 1.6 mm th. 1" dia PVC conduit pipe inclusive of double line tel.-jack (modular type) on the switch board. Double outlet with shutter modular type Telephone Outlets ( RJ – 11 ) with suitable size M.S./ PVC modular boxes complete as req.	9	point		
15	Supply & Installation of 20/25 mm dia. PVC conduits of 1.6 mm wall thickness for Data cabling/Telephone wiring	230	Mtrs		
16	Cisco 24 Ports Catalyst 2960 Switch (2960-24TC-S) switch (100 base TX) Cat-6 patch/jack panel with connector outlet (2) 100/1000 mbps rack mounted switch (auto managed) suitable for auto sense network speed of connected nodes to run at 100-1000 Mbps, having 24 port, RJ-45 10 base-T/100 base-T with spike guard, cable tray, slot and cooling fan. DGS-1210-24 24-Port Gigabit Switch With 4 Combo SFP Ports or Linksys SLM2024 24-port Gigabit Smart Switch – SFPs	1	No		
17	LED Strip Light (IP20 )suitable for 5 watt /meter complete with driver . (Wipro - LS 06-005-120-BL-50 / Philips)	10	Mtrs.		
18	<b>OCCUPANCY SENSORS:-</b> Supply, installation, testing and commissioning of occupancy sensors surface/ recess mounted as per site condition complete with all wiring/conduit,switch etc complete in all respect as per site condition as required. Make Honeywell,/Siemens/ Johnsons/Phillips or equivalent as per Bank's approved.	3	No		
19	M.S. Conduit/ Aluminium pipe of 2.5" for carrying CAT – 6 Cable out of server room.	5	Mtrs.		
20	Submission of Electrical Circuit Diagram	2	Nos		
	Total Rs				
	GST as applicable				
	Grand Total				

**Signature with seal of contractor**