

**PRICE BID:-ELECTRIFICATION WORK IN SBILD, SULTANIA ROAD, BHOPAL( M.P.)****TENDER ID: BHO201908001**

Sl. No.	DESCRIPTION OF ITEMS	QTY	UNIT	Rates in Figure & words	AMOUNT
1	<p><b>POINT WIRING :</b></p> <p>Providing point wiring ( supply, fixing, testing and comm. etc) for light point / Exhaust fan point / Call bell point / Ceiling fan point i/c fan box ( if required ) etc with 1.5 sq mm ( phase neutral and earth ) FRLS PVC insulated copper conductor single core multi stranded wire in 16 swg stove enamelled rigid steel conduit for with conduit accessories like bend , junction box etc in concealed manner with suitable Modular Switches with plate and metal box, 3 plate ceiling rose / bulb holder etc including circuit wiring of 3 X 1.5 sq mm FRLS PVC insulated copper conductor single core multi stranded wire in 16 swg stove enamelled rigid steel conduit from MCB distribution board to switch box etc complete as required.</p> <p>Phase : Red, Yellow,Blue. Neutral : Black. Earth : Green .</p> <p>a. Providing and fixing one light point controlled by one switch.</p>	217	Nos.		
	<p>b. Providing and fixing one <b>CEILING FAN POINT</b> controlled by followings :</p> <p>i one no switch ii one no stepped electronic regulator ( two Module ) as required.</p>	51	Nos		
2	<p><b>6 AMP. POINTS ON SAME BOARD :</b></p> <p>Supply,fixing,testing and commissioning of 1 No 6A Multi Socket with 1No. 6 A switch ( Modular type ) with cover plate , sheet steel box / PVC modular box etc in concealed manner I/c electrical connections and making good all the damages, painting, cleaning the site etc complete as required as per site requirement and as directed.</p>	47	Nos		
3	<p><b>6 AMP. POINTS ON SEPARATE BOARD :</b></p> <p>Supply,fixing,testing and commissioning of 1 No 6A Multi Socket with 1No. 6 A switch ( Modular type ) with cover plate , sheet steel box / PVC modular box etc in concealed manner I/c electrical connections and making good all the damages, painting, cleaning the site etc including circuit wiring of 3 X 1.5 sq mm FRLS PVC insulated copper conductor single core multi stranded wire in 16 swg stove enamelled rigid steel conduit i/c conduit accessories from MCB distribution board to switch box etc complete as required.</p>	23	Nos		

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4	<p><b>6 / 16 AMP. POWER POINTS:</b></p> <p>Supply, fixing, testing and commissioning of 1 No 16 A switch &amp; 1 No. six pin 6/16 Amp. Multi Socket ( Modular Type ) with cover plate , sheet steel box etc in concealed manner i/c electrical connections and making good all the damages, painting, cleaning the site etc including wiring with 2 X 4 sq mm + 1 x 2.5 sqmm FRLS PVC insulated copper conductor single core multi stranded wire in 16 swg stove enamelled rigid steel conduit i/c conduit accessories from MCB distribution board to switch box etc complete as required.</p>	33	Nos		
5	<p><b>AC / GEYSER POWER POINTS :</b></p> <p>Supply, Installation, Testing and commissioning of the concealed mounting A.C. / GEYSER point with the followings :</p> <p>a. 32 A D.P.,1 way switch with neon with plate and box.- 1 set</p> <p>b. 25 A &amp; 10 A Twin socket with plate and box.- 1 Set. i/c electrical connections and making good all the damages, painting, cleaning the site with 2 x 6.0 +1 x 2.5 sq mm FRLS PVC insulated copper conductor single core multi stranded wire in 16 swg stove enamelled rigid Steel conduit with conduit accessories in concealed manner etc complete as required. MCB distribution board to switch box etc complete as required.</p>	10	Nos		
6	<p><b>SPECIAL ELECTRICAL POINTS : ( For Computers )</b></p> <p>Supply, Installation, Testing and commissioning of the concealed mounting UPS modular type power point for computers with the followings :</p> <p>a. 2 Nos. 10 A Switch + 3 Nos. 10 A, 3 pin Socket - 1 set i/c electrical connections and making good all the damages, painting, cleaning the site with 3 x 2.5 sq mm FR PVC insulated copper conductor single core multi stranded wire in 16 swg stove enamelled rigid Steel conduit with conduit accessories in concealed manner from MCB distribution board to switch box etc complete as required as directed.</p>	18	Nos.		
7	<p><b>SUB-MAINS WIRING :</b></p> <p>Supplying, providing wiring (supply, fixing, testing and comm.etc) for Light / Power with following FRLS PVC insulated copper conductor single core multi stranded wire in 16 swg stove enamelled rigid steel conduit i/c conduit accessories in concealed manner with electrical connections and making good all the</p>				

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	damages, painting, cleaning the site etc complete as required as per site requirement and as directed.  a. 2 X 6.0 + 1 x 2.5 sqmm (For SPN DB) in 20 mm steel conduit.	60	Mtrs		
8	<b>PLUG -ON-WIRING : :</b>  Supply, Installation, Testing and commissioning of the concealed/surface mounting modular type power point for Record / Strong room with the followings :  a. 20 A 6 Pin socket with 1 way switch with plate and box.- 1 set b. 20 A Plug top - 1 No. c. 2.5 sq mm three core power cord ( White colour ) approximately 5 Meter in length i/c electrical connections and making good all the damages, painting, cleaning the site with 3 x 2.5 sq mm FR PVC insulated copper conductor single core multi stranded wire in 16 swg stove enamelled rigid Steel conduit with conduit accessories in concealed manner from MCB distribution board to switch box etc complete as required as directed.	1	Nos		
9	Supply and fixing of 'S' type / Clamp type fan hook in the ceiling by cutting / chiesling , replastering ,painting etc complete as required.	51	Nos.		
10	<b>MCB's DISTRIBUTION BOARDS :</b>  Supply, Installation, Testing and commissioning of surface / recess mounting following ways MCB DB's 230 / 415 Volts on surface/recessed, complete with tinned copper busbar, neutral bar, earth bar, din bar detachable gland plate, interconnection and making good all the damages, painting, cleaning the site etc complete as required as per site requirement and as directed.  <b>A. LIGHT DISTRIBUTION BOARD :</b>  a. 1 no. TPN MCB DB 4 way ( 4 + 18 ways ) b. 1 no TPN MCB 32 amp. c. 18 nos SP MCB 06-32 amp.	2	Nos.		
	<b>B. POWER DISTRIBUTION BOARD :</b>  a. 1 no. TPN MCB DB 4 way ( 4 + 18 ways ) b. 1 no TPN MCB 63 amp. c. 18 nos SP MCB 06-32 amp.	2	Nos.		
	<b>C. SPN POWER DIS.BOARD ( For UPS Out Goings ) :</b>  a. 1 no.SP N MCB DB 12 way ( 2 + 12 ways ) b. 1 no SPN MCB 63 amp. c. 12 nos SP MCB 10 amp.	2	Nos.		

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	<b>D. SPN DISTRIBUTION BOARD ( for UPS IN PUT ) :</b>  a. 63 A SPN MCB – 1 no. b. 1 No Fabricated 18 swg m.s.box of suitable size OR factory made.	4	Nos		
	<b>E. VERTICAL DB ( Double door ) :</b>  Supplying and fixing of following 6 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 -  a. 01 no. 125 amp., 10 KA , TP MCCB b. 63 A TP MCB - 5 Nos. c. 63 A SP MCB - 3 Nos.	3	Set		
11	<b>TELEPHONE POINT :</b>  Supplying, Installation, testing and commissioning of the telephone point with the followings - 1 No Double outlet with shutter modular type Telephone Outlets ( RJ-11 ) with suitable size M.S.modular boxes in concealed manner including two pair 0.50 mm dia.tinned copper conductor, P.V.C. insulated and sheathed , fire retarding, anti termite colour coded twisted pairs with rip cord telephone cable in 1.5 mm thick PVC conduit with conduit accessories in concealed / surface manner complete as required.	16	Nos		
12	Supplying and fixing of krone telephone tag block, 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.The item is inclusive of providing and fixing of boxes in surface / recessed system etc complete as required.  a. 20 pair tag block	1	Nos.		
13	Supply, Installation, Testing and Commissioning of 24 Port ( 100 base TX ) Cat-6 Patch / jack panel with connectors, outlets and necessary connectivity complete as required.	1	Nos.		
14	Supply and Installation of following factory fabricated patch cords ( UTP-CAT 6 ) complete with connectors on both sides.  a. One Meter length.	15	Nos.		
	b. Two Meter length.	15	Nos.		

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15	<b>INFORMATION OUTLETS :</b>  Supply and fixing of modular type Information Outlets with suitable size M.S./ PVC modular boxes complete with insulation displacement connectors etc suitable for CAT 6 UTP Cabling including Four Pair UTP CAT 6 LAN cables with RJ-45 connector if req with suitable size of 2.0 mm wall thickness rigid PVC conduits with accessories like bend / junction box etc on surface / in floor / recessed manner and making good all the damages, painting, cleaning the site etc complete as required as per site requirement and as directed.				
	a. One Port.	15	Nos.		
16	Supply, Installation, Testing and Commissioning of the following 10 / 100 Mbps Rack mounted Switch ( Auto managed ) suitable for auto-sense the network speed of the connected nodes to run at either 10 Mbps or 100 Mbps. The port also auto negotiate between full / half duplex and cable cross over.				
	a. 24 RJ-45 10 base –T / 100 Base – TX port.	1	Nos.		
17	Supply, Installation, Testing and Commissioning of the following Rack on existing wall / table / plateform etc i/c fixing of equipment/ accessories etc as required.				
	a. 5 U Rack.	1	Nos.		
18	Testing of STP cabling with scanner for all the Nodes.	1	Nos.		
19	<b>LED LUMINAIRES :</b>  Supply,Installation, testing and commissioning of recessed mounted LED light fitting ( 600 x 600 mm ) suitable for grid ceiling complete as required.				
	a. 36 X 1 Watts class LED fitting	56	Nos.		
20	<b>LED DOWN LIGHTER : ( ROUND )</b>  Supply,,Installation testing and commissioning of recessed mounted circular down lighter complete as required.dia should not less than 150 mm.				
	a. 15 Watts class LED	113	Nos		
21	<b>LED DOWN LIGHTER : ( SQUARE )</b>  Supply,,Installation testing and commissioning of recessed mounted circular down lighter complete as required.dia should not less than 150 mm.				
	a. 14 Watts class LED	7	Nos		

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22	<b>CEILING FAN :</b>  Supply, ,Installation,testing and commissioning of the single phase heavy duty grease filled double ball bearing, aerodynamically designed heavy gauge aluminium blades, copper wound and impregnated silicon stamping motor etc.  a 1200 mm sweep, brilliant white (without regulator) (Make: Crompton Greaves/Almonard/Havells ES 50 )	49	Nos.		
23	<b>EXHAUST FAN :</b>  Supply, installation, testing and commissioning of the following single phase Exhaust Fan continuously rated, capacitor start and run type, totally enclosed and ruggedly built, pre lubricated double ball bearing, copper wound, A & E class insulation, dynamically balanced, below 40 db sound level etc.with adjustable louvers.  a. 300 mm sweep, 900 r.p.m. exhaust fan. (Make: Crompton Greaves/BAJAJ/Havells )	8	Nos.		
24	<b>OCCUPANCY SENSOR :</b>  Supply, installation, testing and commissioning of high performance, non regulating PIR occupancy sensor complete as required.	1	Nos.		
25	<b>A. CABLING :</b>  Supplying, unloading, storing , laying, testing and commissioning of following sizes of PVC / XLPE insulated (Heavy duty) Al / Cu conductor armoured cables suitable for working voltage upto and including 1100 Volts , laid and tied on existing overhead cable trays; or laid and tied over MS supports in masonry trenches including providing MS supports and clamps for fixing to supports ; or buried in ground complete as required and as per specifications.  including cable END termination with lugs and glandes.  a. 4 C x 16 Sqmm ( Copper Cable ) b. 4 C x 16 Sq mm Ar. XLPE Cable. c. 3.5 C x 50 sq mm Al. Ar. XLPE Cable.	100 40 100	RM RM RM		
26	<b><u>G.I.PLATE EARTH STATION :</u></b>  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				

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	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. 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. i 75 Kg. Charcoal. ii 15 Kg. Original Salt. iii Black Cotton soil  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.	2	Nos.		
27	Providing and fixing Copper / GI strip as per specification complete including connection to earth electrode revetting / sweating / soldering, burying 15 cms below in all types of soil / rocks etc complete as required.				
	a. G.I.Strip 50 x 6 mm.	20	Mtrs.		
	b. G.I.Strip 25 X 5 mm	150	Mtrs.		
	c. Providing & fixing 6 SWG dia G. I. wire on surface or in recess for loop earth as required.	200	Mtr.		
<b>TOTAL :</b>					

TOTAL IN WORDS :

**NOTE:-GST WILL BE PAID EXTRA**