

STATE BANK OF INDIA - Electronic City-First floor RMSME									
Bill of quantity -Electrical Works									
								DATE :	
SCHEDULE OF QUANTITIES FOR ELECTRICAL WORKS.									
Sl. No.	DESCRIPTION OF WORK	UNIT	QTY	SUPPLY		Installations		TOTAL AMOUNT	
				RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)		
1	<b>READYMADE FINAL DISTRIBUTION BOARDS</b>								
	Supply, Installation, Testing and Commissioning of M.S Powder coated. Double Shuttered type, flush mounting, MCB Distribution Boards (Factory built) made of 1.6 mm. thick CRCA sheet steel and with incoming MCB / ELCB and outgoing MCBs. All Items described below should be Factory Manufactured & Tested & ISI marked. Proposed location & route should be as per the drawing. However, if any obstruction is encountered at site suitable modification may be made as per site condition. After completion of work the contractor must supply "As-Built" drawing of actual route & location of items. All UPS & Raw Power points to be Marked as Similarly load/points connected on Each M.C.B. to be indicated with a chart pasted inside the cover of each Distribution Board. LOAD should be equally BALANCED on 3 PHASES. All D.B.'s and UPS + Raw power Points should have an earth wire Connection in their socket earth terminal.								
a.	8 Way SPN DB with 32 Amps, 100 mA., 2Pole ELCB as INCOMER and 10 Nos. 6 - 32 Aamps. SP MCBs as OUTGOINGS for as UPS /Switch boards /others.	Nos.	2.00						
2	<b>PVC CONDUITS :</b>								
	Supply and Fixing of following sizes of FRLS PVC conduit alongwith all the accessories in surface in ceiling/ recess in walls, flooring etc. Chase cutting (Machine-Cutting) of the wall / floor etc. and making good the same in case of recessed conduit shall be paid extra as per the BOQ item given herein.								
a.	32 mm dia. Conduit. ( 2.0 mm thick)	Rmtr.	6						
b.	25 mm dia. Conduit. ( 2.0 mm thick)	Rmtr.	300						
c.	20 mm dia. Conduit. ( 2.0 mm thick)	Rmtr.	200						
3	<b>COPPER SUBMANS AND CIRCUIT - MAINS WIRING IN PVC CONDUIT :</b>								
	Supply and Wiring for Submain / Circuit Main with following sizes of 1100 Volts grade, PVC insulated, multi-strand Copper Conductor, single core FRLS wires in surface / recessed FRLS PVC conduits as required together with conduit pipes laid as required in Wall / Floor etc including cost of conduits complete as required :								
a.	2 x 1.5 Sq. mm. (with 1 x 1.5 Sq. mm.).	Rmtr.	75						
b.	2 x 2.5 Sq. mm. (with 1 x 1.5 Sq. mm.).	Rmtr.	850						
c.	2 x 4 Sq. mm. (with 1 x 2.5 Sq. mm.).	Rmtr.	200						
d.	2 x 6 Sq. mm. (with 1 x 4 Sq. mm.).	Rmtr.	10						
e.	4x4 Sq mm with 1x2.5 sqmm	Rmtr.	10						
f.	4 x 10 Sq. mm.	Rmtr.	6						
h.	4x6 sq mm + 1x2.5 sq mm	Rmtr.	20						

4	<b>LIGHT POINTS :</b> Supply, fixing and wiring of Light Points (including Fan and Exhaust fan points) using 1.5 sq. mm. PVC insulated FRLS, multi-strand Copper wires for Phase, Neutral and Earthing, of approved makes, in 20 / 25 mm. Dia., 2 mm. thick FRLS PVC conduits / casings including 6 Amps., Modular Switches, PVC /Plated MS switch boxes, switch-plates, ceiling roses, batten holders, round blocks of PVC or teak wood etc. complete as required.							
a.	One light POINT CONTROLLED BY A 6 AMPS., SP SWITCH :	Nos.	35					
b.	Two Light Points Controlled by 1 S/w	Nos.	15					
5	<b>FAN POINTS - ACCESSORIES :</b> (fan-point wiring shall be as per the point wiring given above and paid extra.)							
a.	Supply, Fixing, Connecting of Stepped type Modular type Electronic Fan regulators.	Nos.	3					
b.	Anchor Hooks for installing Ceiling Fans complete as required.	Nos.	2					
6	<b>6 AMPS. PLUG POINT WITH ACCESSORIES :</b> Supply, and Fixing of 5 pin, 6 A., shuttered, Modular Socket points controlled by a 6 A., Switch with Indicator, plated MS Switch boxes / cover plates, etc., complete as required.							
a.	Independent Points with Switch and Socket in same box.	Nos.	30					
b.	Independent Points with Switch and Socket in separate boxes away from each other.	Nos.	2					
c.	Dependent Points with Switch & Socket in a Lighting-switch-box.	Nos.	12					
7	<b>POWER PLUG POINT WITH ACCESSORIES :</b> Supply, and Fixing of 5 / 6 pin, 20 A., Shuttered, Modular Socket point controlled by a 20 A., SP Switch with Indicator, plated MS Switch boxes / cover plates, etc., complete as required.							
a.	Independent Points with Switch and Socket in same box.	Nos.	15					
b.	Independent Points with Switch and Socket in separate boxes away from each other.	Nos.	2					
8	<b>MULTIWAY POWER SOCKETS BOXES :</b> a. Supply and fixing of Multiway Socket-boxes comprising of a common 16 Amps., SP Modular Switch with indicator and 3 Nos. of 6/10/13 Amps., 5 pin Modular Multistandard Sockets Duly wired. The Switch shall be in a separate box and the Sockets shall be in separate Box. The rates quoted shall be inclusive of the inter-connecting wiring between the switch and the sockets.	Nos.	18					
9	<b>NETWORKING:</b> a. <b>DATA POINTS:</b> Supply and fixing of Network Points with DUAL RJ45 Modular Sockets in plated MS Box in recess or on surface, complete with all allied accessories and fittings complete as required.	Nos.	18					
b.	<b>WIRING :</b> Wiring for Computer Points with Cat-6 UTP Networking Cables, in surface / recessed, in existing / pre-laid PVC conduits / Raceways / Casings as required including crimping and connecting to the terminals at both ends, ferruling / marking, dressing within the racks etc. complete as required..	Rmtr.	1200					
c.	Supply & installation of 2mtrs patch chords	Nos.	18					
d.	Supply & installation of 1 mtrs patch chords	Nos.	36					
e.	Removal and Re-Installation of Existing wall mounting network 9 U data rack	Nos.	1					
f.	ITC of Cat 6 .24 port Patch Panel	Nos.	1					
g.	SITC of new Patch Panel 24 port	Nos.	1					
10	<b>TELEPHONE POINTS :</b> a. Supply and fixing of Telephone Points with RJ11 Modular Sockets in plated MS Box in recess or on surface, complete with all allied accessories and fittings complete as required.	Nos.	16					
11	<b>TELEPHONE WIRING IN PVC CONDUIT :</b> Supply, running, and fixing of unarmoured 0.51 mm. copper conductor Telephone wires in existing PVC conduits / Raceways etc. in wall / floor / concrete structures complete with all accessories such as bends, junction boxes etc. complete as required.							
a.	2 Pair	Rmtr.	900					
b.	20 Pair	Rmtr.	20					
12	Supplying and Fixing (in Walls / Floor) of Draw Boxes / Junction Boxes fabricated out of 2 mm. thick GI Sheets with 2.5 mm. thick, Powder Coated top cover, complete as required.							
a.	300 mm. x 300 mm. x 60 mm.	Nos.	2					
13	Making of G.I Pipe Earth-Stations as per IS 3043 using 40mm. G.I Pipe Electrode with funnel set, salt, charcoal etc., including making of 450 x 450 mm brick masonry chamber with CI / stone / MS chequer-plate with angle-iron hinged frame-work / RCC cover with handles etc., complete as required.	Nos.	1					
b.	Supplying, Running and Fixing 8 SWG CU wire on surface or in recess for Earthing as required.	Rmtr.	50					
c.	Supplying, Running and Fixing of 6 sq.mm. PVC insulated, multi-strand copper conductor, single core FRLS wire in and with 20 mm. dia. FRLS PVC Conduit, on surface or in recess for earthing as required.	Rmtr.	30					
14	Supply, Installation, Testing and Commissioning of 18 / 20 Watt LED, 4ft Linear Tube type Luminaire complete including Driver complete with AL base as required.	Nos.	3					

15	Supply and Installation of <b>36~40W</b> 2'x2' Square recess mounting (gypsum board /2'x2'ceiling) <b>LED type square luminaire</b> (including required fixing frame, chain for suspending from RCC ceiling ) - 595mmx595mm cut out over power consumption not less than 85 lumens/Watt at an angle, of 120 degree and total power consumption within 40W, Luminaire delivering not less than 3000 lumens/luminaire Designed and manufactured to comply with IS 10322 part 5/Sec 1 1987. The lighting level on work station shall be about 250 Lux about 2meters below and 2meters away from the luminaire centre. The LED's/ LED drive expected usage life shall be 50,000 hours. The LED lamps are of LM -80 CERTIFIED ,OSRAM/NICHIA/ CREE/PHILIPS/BRIDGELUX etc brand only and power supply driven from inbuilt constant current LED drive operates 100V - 260 Volt. The constant current LED drive is of efficiency 85%, p.f > 0.9, THD < 20%, inbuilt surge protection shall be >2.5 KV. The high power LED luminaire to have diffuser are of frosted / masked poly carbonate/sheet to control glare etc.	Nos.	28					
16	Supply & installation of <b>15 Watts Down Lighter type LED light fitting</b> with white reflector on false ceiling ,Surface / Recess mounted LED Dowlight Luminaire including driver complete as required. Technical Specification:-Only back lit High luminaire efficiency more than 85%, lower power consumption not less than 85 lumens/Watt at an angle, of 120 degree and total power consumption within 18W, Luminaire delivering not less than 1300 lumens/luminaire Designed and manufactured to comply with IS 10322 part 5/Sec 1 1987. The lighting level on work station shall be about 150 Lux about 2meters below and 2meters away from the luminaire centre. The LED's/ LED drive expected usage life shall be 50,000 hours. The LED lamps are of LM -80 CERTIFIED ,OSRAM/NICHIA/ CREE/PHILIPS/BRIDGELUX etc brand only and power supply driven from inbuilt constant current LED drive operates 100V - 260 Volt. The constant current LED drive is of efficiency 85%, p.f > 0.9, THD < 20%, inbuilt surge protection shall be >2.5 KV. The high power LED luminaire to have diffuser are of frosted / masked poly carbonate/sheet to control glare etc.	Nos.	20					
17	Supply of 6 W, Recess mounted LED Dowlight Luminaire including driver complete as required. Technical specifications are same as above 15 watts but now wattages shall be 6 Watts only	Nos.	15					
18	Supply, Installation, Testing and Commissioning of following types of Ceiling Fans.							
a.	1400 mm.	Nos.	2					
19	Supply, Installation, Testing and Commissioning of Normal duty ,9" Exhaust fans							
a.	225 mm.	Nos.	1					
25	Supply & Installation of 16inches wall fans fans( 400 mm) for cabins	Nos.	16					
26	Chase-cutting using machine, of Brick / concrete or other surfaces, for embedding of Conduits, Switch boxes etc. and refinishing the same to the original finish using cement mortar or other fillers as per the directions of the Client.	Rmtr.	20					
27	Miscellaneous works such as Removal of old wirings, Dismantelling the existing DB's, Reterminations at existing DB's , cable connections, terminations , Glands, Lugs etc for new and OLD DB's	LS	1					
28	Submitting of As-Built drawings of all Electrical & Associated Works as per Specifications (in minimum A-3 Size) in 2 Sets Hard-Copies in bond folders	Sets	1					
	<b>TOTAL</b>							

say **5.25 Lacs**