

**STATE BANK OF INDIA**  
**ELECTRICAL WORKS FOR HOSTEL BLOCK- RIGHT WING (22-ROOMS)AT MACHILIPATNAM**

S.No.	Description	Qty	Unit	Estimated	
				Rate	Amount in INR
<b>1</b>	<b>SSB (BRANCH PANEL)</b>				
	Supply, erection, testing and commissioning of cubicle type switch board Wall mounted, fabricated with 16 Swg CRCA sheets with the following				
	Bus bar chamber consisting of 200A electrolytic quality copper busbars supported on SMC for phases and neutral. The busbars shall have colour coded PVC sleeving. The fault level shall be 25 Ka for 1 second.				
	Metering cubicle consisting of 1 no microprocessor controlled meter for reading all the electrical parameters like voltage, current, Kw, etc ( Socomec EM-VIFP ), LED type RYB indication lamps, 3 nos of resin cast CTs of ratio 200/5A class-1, 15 Va				
	1 no incomer feeder fitted with 1 no 200 A TP+N MCCB, 25 ka				
	2 nos 125A TPN MCCB 25 ka as outgoing feeders				
	2 nos 63A TPN MCCB 25 ka as outgoing feeders				
	3 nos 32/40A DP MCB as outgoing feeders				
	Panel will have a ring main earth bus with copper strip of size 25x3mm. All the switch frames and cubicles shall be connected to this earth which will be finally interconnected to external earth grid. The panel shall be powder coated to siemens grey shade. All internal wiring shall be carried out with adequate size copper wires. A detachable gland plate shall be fixed on the top of the cable alley for cable terminations. All MCCBs shall be fitted with front operating handle with door interlock	1.00	No		
<b>2</b>	<b>Point wiring</b>				
	Supply and laying of point wiring for light, fan, 6A ordinary switched sockets with 3R 1.5 Sqmm FRLS insulated multi strand single core copper conductor wire drawn in 20mm dia 2mm thick MS conduit to be laid on false ceiling by clamping with GI clamps, concealed on wall and RCC roof etc with all accessories like conduit bends, junction boxes etc. The work also involve supply and fixing of 6A modular switch and suitable front plate with MS box to be concealed in the wall with necessary fixing accessories.				
2.1	One light point controlled by one switch	110.00	Nos		
2.2	Two light controlled by one switch	66.00	Nos		
2.3	Two way control for Ceiling Fan point with concealed fan hook box and electronic step regulator	22.00	Nos		
2.4	Exhaust fan point with 6A switch & socket with necessary fixing accessories	22.00	Nos		
2.5	Same as item no 1.1, but call bell point with modular bell push	22.00	Nos		
<b>3</b>	<b>Distribution boards</b>				
3.1	Supply, installation, testing and commissioning of MCB distribution board, 8-way TPN factory built double door type distribution board completely wired with all accessories and fitted with following. The same shall be concealed to the wall(LPDB)				
	1 no incomer feeder with 63A 4P 30mA RCBO				
	36 nos 25A/20A SP MCBs as outgoing feeders	1.00	No		

S.No.	Description	Qty	Unit	Estimated	
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3.2	Supply, installation, testing and commissioning of 12 way Vertical distribution board, with TPN MCCB incomer factory built double door type distribution board completely wired with all accessories and fitted with following. The same shall be concealed to the wall(AC DB)				
	1 no incomer feeder with 125A 4P MCCB				
	36 nos 25A/20A SP MCBs as outgoing feeders	1.00	No		
3.3	Supply, installation, testing and commissioning of 12 way SPN distribution board, with factory built door type distribution board completely wired with all accessories and fitted with following. The same shall be concealed to the wall(UPS DB)				
	1 no incomer feeder with 32A DP MCB				
	10 nos 16A SP MCBs as outgoing feeders	1.00	No		
<b>4</b>	<b>LT CABLES &amp; TERMINATIONS</b>				
4.1	Supply and laying of 3.5Cx95 Sqmm AL AR cable along with 2R 10 SWG copper wire to be clamped on wall with GI clamps/ laid in excavated trenches etc	250.00	Mts		
4.2	Supply and laying of 3.5Cx70 Sqmm AL AR cable along with 2R 10 SWG copper wire to be clamped on wall with GI clamps/ laid in excavated trenches etc	20.00	Mts		
4.3	Supply and laying of 4Cx25 Sqmm AL AR cable along with 2R 10 SWG copper wire to be clamped on wall with GI clamps/ laid in excavated trenches etc	20.00	Mts		
4.4	Supply and Laying of 3Cx6 Sqmm copper armoured cable along with 2R 10 SWG copper wire	30.00	Mts		
<b>5</b>	Terminations of following cable with SIBG glands and copper crimping sockets and earthing of glands with copper clip and connecting the same to earth grid with 14 Swg copper wire				
5.1	3.5Cx95 Sqmm	2.00	Nos		
5.2	3.5Cx70 Sqmm	2.00	Nos		
5.3	3Cx25 Sqmm	2.00	Nos		
5.4	4Cx25 Sqmm	2.00	Nos		
5.5	3Cx10 Sqmm	2.00	Nos		
5.6	3Cx6 Sqmm	8.00	Nos		
<b>6</b>	<b>Light fittings</b>				
	<b>supply and installation of light fittings and fans</b>				
6.1	SITC of 18W LED recessed mount down light fitting fixed in a false ceiling with necessary fixing accessories.	154.00	Nos		
6.2	SITC of 12W LED surface mounted down light(square) light fixture with necessary fixing accessories.	22.00	Nos		
6.3	SITC of 7W LED recessed mount down light fitting fixed in a false ceiling with necessary fixing accessories.	88.00	Nos		
6.4	SITC of 10W LED mirror light fitting fixed on the wall with necessary fixing accessories.	22.00	Nos		
6.5	SITC of 1200mm sweep BLDC type ceiling fan including assembly of the same	22.00	Nos		

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6.6	SITC of 300mm dia exhaust fan with necessary fixing accessories and arrangements	22.00	Nos		
<b>7</b>	<b>Telephone wiring</b>				
7.1	Supply and installation of 25 mm dia PVC conduit( ISI marked medium quality) through floor, wall, and partitions from telephone tag block to telephone sockets	300.00	Mts		
7.2	Supply and installation of 0.5mm dia 2 pair copper PVC insulated telephone cable in the above PVC conduit and termination at both ends	900.00	Mts		
7.3	Supply and installation of RJ-11 telephone socket mounted in manufactures zinc passivated MS box	22.00	Nos		
7.4	Supply and installation zinc passivated MS box for installing RJ-45 outlets in wall/ patitions etc	22.00	Nos		
<b>8</b>	<b>Cable TV</b>				
8.1	Supply and installation of 25 mm dia PVC conduit( ISI marked medium quality) through floor, wall, and partitions from TV junction box to sockets	300.00	Mts		
8.2	Supply and installation of RG-11 co axial cable in the above conduits and termination at both ends	900.00	Mts		
8.3	Supply and installation of cable TV socket mounted in manufactures zinc passivated MS box	22.00	Nos		
<b>9</b>	<b>Power Wiring &amp; Switch Boards</b>				
9.1	Supply and installation of 3R 4 Sqmm FRLS, single core, stranded, copper wire in 20mm dia 2mm thick PVC conduit with necessary accessories for 20 amp sockets from distribution board. The work includes embedding the conduit in concrete or wall, chasing the wall etc( For AC ).	1,100.00	Mts		
9.2	Supply and laying of 3 R 2.5 Sqmm FRLS stranded copper wire ( one for earth, green colour ) in 25mm dia FRLS PVC conduit,( ISI marked ) concealed in wall by chase cutting and laying through partitions for UPS power sockets complete with all accessories(4 Rooms UPS sockets to be connected to one circuit)	1,200.00	Mts		

S.No.	Description	Qty	Unit	Estimated	
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9.3	Supply and fixing of modular type 1 no 6A switch and 2 nos 6A socket outlet housed in zinc passivated MS box including concealing the same in the wall(For Computer)	44.00	Nos		
9.4	2 nos of 6A Sockets with 2 Nos. of switches socket to be mounted in independent locations (Charging) with necessary fixing accessories	22.00	Nos		
9.5	1 nos of 6A Sockets with 1 Nos. of switches socket to be mounted in independent locations (Kettle & Reading lamp) with necessary fixing accessories	44.00	Nos		
9.6	Supply and fixing of modular type 16A switched socket outlet housed in zinc passivated MS box including concealing the same in the wall for Gyser. The switch shall have neon indication	8.00	Nos		
9.7	Supply and installation of 20A 3-pin metal clad socket and 20A DP MCB, both housed in different powder coated MS boxes and located at different places to control split A/C units. The boxes are to be concealed to wall	22.00	Nos		
9.8	Master Control Switch: Supply, installation , testing and commissioning of modular type 16A switch housed in 2 module zinc passivated metal box and a suitable front plate with complete set of accessories, supports, etc. The MS box shall be recessed in the wall.	22.00	Nos		
9.9	Existing wiring and fittings removing work and handedover to client	1.00	lot		
9.10	Supply and installation of 40A DP MCB with suitable metal enclosure with necessary fixing accessories and the boxes are to be concealed to wall	2.00	Nos		
<b>10</b>	<b>Earthing</b>				
10.1	Supply, installation, testing and commissioning of cast iron pipe electrode 100mm dia 3 Mt long, 12mm thick as per IS-3043 complete with all accessories like watering funnel, clamps etc.The same to be installed in a pit 3 Mt deep and filled with alternate layers of charcoal, salt mixed with river sand. A brick work masonry shall be constructed of size 600x600x150mm and cement plastered at both inside and outside walls. A 3mm thick cast iron plate with frame work shall be placed over the chamber	2.00	Nos		
10.2	Same as item no 10.1, but with 600x600x3mm copper plate electrode complete with 50mm dia GI watering pipe and other accessories mentioned above(For UPS)	2.00	Nos		
10.3	Supply and installation of NO 8 SWG CU copper wire to interconnect the earth electrodes with electrical panels and run through cable shaft	300.00	Mts		
10.4	Supply and installation of 10 Sqmm multi strand copper wire FRLS insulated to be drawn in 25mm dia PVC conduit 2mm thick and to be clamped partially on wall with GI clamps and partially buried in ground and terminations at both ends with copper crimping sockets ( For UPS earthing )	50.00	Mts		
<b>11</b>	<b>ENERGY METER</b>				
11.1	Supply and installation of 10-60A 3 phase energy meter with necessary fixing accessories as required as per the site conditions.	4.00	Nos		
	<b>Grand total</b>				