

PRICE BID - RENOVATION of RB0-7 ON FLOOR[+3] and SARB on FLOOR [+4], SHIMLA

ELECTRICAL WORKS

S. No.	Item	Qty	Qty	TOTAL Quantity	Units	Rate	Amount
1	SUB HEAD 1 (COMPUTER POINTS AND DISTRIBUTION)	Floor	Floor				
	COMPUTER POINT WITH WIRING FOR UPS POWER	[+3]	[+4]	[+3] + [+4]			
1	Supply all materials, receiving, storing, handling, fixing and laying 3 x 2.5 sq.mm PVC insulated copper conductor FRLS Wires and fixing of wires on wall with suitable size of clamps/saddles or laid in floor through raceways or recessed in wall with medium class PVC conduit including cutting of floor/wall for computer points with suitable size GI Box with modular plate and cover in front including providing and fixing 3 no. 5 amp 5 pin modular sockets controlled by 1 no. 5Amp switch with indicator, connection end terminations with suitable size of glands etc. complete as required. Make of Wire- Havells, Polycab, Finolex, RRKabel Make of ModularAccessories-Anchor,Havells,Legrand Make of PVC Conduit- Diplast,Superim,Finolex ,AKG (Only two points can be connected in series with single cable)	27	10	37	Each		
	COMPUTER POINT WITH LOOP WIRING FOR UPS POWER						
1a	Supply all materials, receiving, storing, handling, fixing and laying 3 x 2.5 sq.mm PVC insulated copper conductor FRLS Wires for looping and fixing of cable on wall with suitable size of clamps/saddles or laid in floor through raceways or recessed in wall with medium class PVC conduit including cutting of floor/wall for computer points with suitable size GI Box with modular plate and cover in front including providing and fixing 3 no. 5 amp 5 pin modular sockets controlled by 1 no. 5Amp switch with indicator, connection end terminations with suitable size of glands etc. complete as required. (Only two points can be connected in series with single cable) Make of Wire- Havells,Polycab,Finolex,RRKabel Make of ModularAccessories-Anchor,Havells,Legrand Make of PVC Conduit- Diplast,Superim,Finolex ,AKG	26	10	36	Each		
	COMPUTER POINT WITH WIRING FOR RAW POWER						
2	Supply all materials, receiving, storing, handling, fixing and laying 3 x 2.5 sq.mm PVC insulated copper conductor FRLS Wires and fixing of cable on wall with suitable size of clamps/saddles or laid in floor through raceways or recessed in wall with medium class PVC conduit including cutting of floor/wall for computer points with suitable size GI Box with 1 no. 16 amp 5 pin modular sockets controlled by 1 no. 16 amp modular switch and 1 no. 6 amp 5 pin modular sockets controlled by 1 no. 6 amp modular switch with 6 amp indicator Lamp including the cover plate. (Only two points can be connected in series with single cable) Make of Wire- Havells,Polycab,Finolex,RRKabel Make of ModularAccessories-Anchor,Havells,Legrand Make of PVC Conduit- Diplast,Superim,Finolex ,AKG	13	7	20	Each		
	COMPUTER POINT WITH LOOP WIRING FOR RAW POWER						

2a	Supply all materials, receiving, storing, handling, fixing and laying 3 x 2.5 sq.mm PVC insulated copper conductor FRLS Wires for looping and fixing of cable on wall with suitable size of clamps/saddles or laid in floor through raceways or recessed recessed in wall with medium class PVC conduit including cutting of floor/wall for computer points with suitable size GI Box with 1 no. 16 amp 5 pin modular sockets controlled by 1 no. 16 amp modular switch and 1 no. 6 amp 5 pin modular sockets controlled by 1 no. 6 amp modular switch with 6 amp indicator Lamp including the cover plate. (Only two points can be connected in series with single cable) Make of Wire- Havells, Polycab, Finolex, RRRKabel Make of Modular Accessories- Anchor, Havells, Legrand Make of PVC Conduit- Diplast, Superim, Finolex, AKG	13	6	19	Each		
3	Providing and fixing, testing and commissioning of Heavy Duty modular air-conditioning plug & socket arrangement: Make of Wire- Havells, Polycab, Finolex, RRRKabel Make of Modular Accessories- Anchor, Havells, Legrand Make of PVC Conduit- Diplast, Superim, Finolex, AKG						
(a)	25 amp air-conditioning point modular type with 25 amp SPMCB C SERIES.	5	3	8	Each		
	SB Circuit Wiring:						
4	Circuit wiring from the MCB/MCCB from the Distribution Board to the Switch Board with 2 x 2.5 sq.mm + 1x1.5 sq.mm copper conductor (FR) in PVC Conduit concealed/open and making good the damaged surfaces as per direction of the Engineer-in-charge. including the cost of the PVC conduit 2mm thick. Average length 10Mtr. Make of Wire- Havells, Polycab, Finolex, RRRKabel Make of Modular Accessories- Anchor, Havells, Legrand Make of PVC Conduit- Diplast, Superim, Finolex, AKG At least 10 points of Point Wiring shall required to be connected with single circuit & Max 2SB on single Circuit.	38	13	51	No		
	Point Wiring:						
5	Wiring for light point/ceiling fan point/exhaust fan point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit ISI Mark, with 6 Amp modular switch, modular plate, (Colored as/selection) suitable GI junction & switch boxes & clip and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc.. as required Make of Wire- Havells, Polycab, Finolex, RRRKabel Make of Modular Accessories- Anchor, Havells, Legrand Make of PVC Conduit- Diplast, Superim, Finolex, AKG						
(a)	Primary Light controlled by one switch. $(150/3+6+45+12+2+4+4)=123$ $(72/3+2+12+6+1+1+3)=49$	123	47	49	Each		
(b)	Sub-Primary + 2/3 Light controlled by one switch. $(150-61)=89$ $(72-24)=48$	89	48	137	Each		
(c)	Supply and Insatllation of Points including modular socket of 5 Amp and 5 Amp Switch Dependent type. (5A Socket with Switch on Switch Board) (6A Switch Socket Dependent)	26	13	39	Each		

(d)	Supply and Installation of Wiring for Light plug point 6A with 2 x 1.5 sq.mm + 1 x 1.5sq.mm copper conductors , including the modular switches, sockets and plates. Including the cost of 2mm thick PVC conduits. Make of Wire- Havells,Polycab,Finolex,RRKabel Make of ModularAccessories-Anchor,Havells,Legrand Make of PVC Conduit- Diplast,Superim,Finolex,AKG (6A Switch Socket independent For Ex Fans & Wall Fans)	17	7	24	Each		
	POWER PLUGS WITH WIRING						
6	Supply and Installation of Wiring for power plug point 6/16A with 6 pin 15/16 amps modular socket outlet INo controlled by 15/16 amps, one way modular switch 1No, alongwith 2 x 4 sq.mm + 1 x 1.5sq.mm copper conductors , including the modular switches, sockets and plates. Including the cost of 2mm thick PVC conduits. Make of Wire- Havells,Polycab,Finolex,RRKabel Make of ModularAccessories-Anchor,Havells,Legrand Make of PVC Conduit- Diplast,Superim,Finolex ,AKG (15/16A Switch Socket With Wiring)(For Heaters+ Hand Dryers)(14+5=19)&(8+2=10)	28	16	44	Each		
	POWER PLUGS WITH LOOP WIRING						
6a	Supply and Installation of Wiring for power plug point 6/16A with 6 pin 15/16 amps modular socket outlet INo controlled by 15/16 amps, one way modular switch 1No, alongwith 2 x 4 sq.mm + 1 x 1.5sq.mm copper conductors , including the modular switches, sockets and plates. Including the cost of 2mm thick PVC conduits. Make of Wire- Havells,Polycab,Finolex,RRKabel Make of ModularAccessories-Anchor,Havells,Legrand Make of PVC Conduit- Diplast,Superim,Finolex ,AKG(15/16A Switch Socket for looping) (For Heaters Plugs looping)	24	8	32	Each		
7	Wiring of wall fan Points:						
	Wiring of wall fan points with 2x1.5 sq.mm. PVC insulated copper conductor cable in suitable dia MS conduit in recess conduit wiring system for wall fan points with modular switches of 6 amp and 5 amp 5 pin modular sockets as per requirement and filling chassis etc complete as reqd. Make of Wire- Havells,Polycab,Finolex,RRKabel Make of ModularAccessories-Anchor,Havells,Legrand Make of PVC Conduit- Diplast,Superim,Finolex ,AKG	4	1	5	No.		
8	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. with accessories such as glands, bends etc.(as per requirement) including making necessary Inter connection etc complete as reqd. Make of Wire- Havells,Polycab,Finolex,RRKabel Make of ModularAccessories-Anchor,Havells,Legrand Make of PVC Conduit- Diplast,Superim,Finolex ,AKG						
a) DSR-22 1.17.29 + 1.17.11 /2	2 x 6 sq.mm with 1x 2.5 sq. mm suitable PVC insulated earth wire (For UPS Output i.e UPS output DB to SPN DB input DP)	25	15	40	Mtr.		

b) DSR-22 1.17.31 + 1.17.11	4 x 6 sq.mm with 2x 1.5 sq. mm suitable PVC insulated earth wire (For UPS Input i.e From Sub LT Panel to UPS Input DB)	25	15	40	Mtr.		
c) DSR-22 1.14.5	2 x 10 sq.mm with 1x 6sq. mm suitable PVC insulated earth wire (For UPS Output i.e UPS output DB to 3No 12way SPN DB input DP)	25	10	35	Mtr.		
d) DSR-22 1.14.10	4 x 10 sq.mm with 2x 6sq. mm suitable PVC insulated earth wire (For UPS Input i.e From Sub LT Panel to UPS Input DB)	70	30	100	Mtr.		
9	Supply Installation, testing & commissioning of factory fabricated distribution board rust inhibited, powder coated Sheet sheet fabricated comprising of incoming & outgoing isolator & MCB's neutral link or neutral bus,top and bottom detachable entry earthing bolts Interconnection and grouting bolts etc complete as require as per details below:-						
a)	12-way SPN MCBDB Double Door IP 43 comprising of 1 No. 40 Amp DP MCB and 10 No. SPMCB 10/16 Amp. (for the UPS points each DB to be connected to 20 UPS points i.e only two points shall be connected with one MCB) Make of DB - Legrand, Standered, Indo Asia Make of MCB- Havells,Indo Asia,Legrand , Standard	3	1	4	Each		
b)	10-way SPN MCBDB Double Door IP 43 comprising of 1 No. 40 Amp DP MCB and 8 No. SPMCB 10/16 Amp. (for the UPS points each DB to be connected to 16 UPS points i.e only two points shall be connected with one MCB) Make of DB- Legrand, Standered, Indo Asia Make of MCB- Havells,Indo Asia,Legrand , Standard (R/O)	0		0	Each		
c)	8-way SPN MCBDB Double Door IP 43 comprising of 1 No. 32Amp DP MCB and 6No. SPMCB 10/16 Amp. (for the UPS points each DB to be connected to 12 UPS points i.e only two points shall be connected with one MCB) Make of DB- Legrand, Standered, Indo Asia Make of MCB- Havells,Indo Asia,Legrand , Standard(R/O)	0	0	0	Each		
d)	8 Way TPN MCB DB Double Door in IP 43 recessed wall including cutting of wall and making good the damages comprising 1 no 63 A FP MCB and 24 Nos. 6-32 Amp SPMCBS etc.. complete as required. (For Raw Power & Power Points CM Area) Make of DB- Legrand, Standered, Indo Asia Make of MCB- Havells,Indo Asia,Legrand , Standard	1	0	1	Each		
e)	4Way TPN MCB DB Double Door in IP 43 recessed wall including cutting of wall and making good the damages comprising 1 no 63 A FP MCB and 12 Nos. 6-32 Amp SPMCBS etc.. complete as required. (For Raw Power & Power Points In conference hall & GM Area) Make of DB- Legrand, Standered, Indo Asia Make of MCB- Havells,Indo Asia,Legrand , Standard	1	1	2	Each		
f)	4 Way TPN MCB DB Double Door in IP 43 recessed wall including cutting of wall and making good the damages comprising 1 no 63 A FP MCB and 12 Nos. 6-32 Amp SPMCBS etc.. complete as required. (For Lighting Points) Make of DB- Legrand, Standered, Indo Asia Make of MCB- Havells,Indo Asia,Legrand , Standard	2	1	3	Each		
g)	4 way DB comprising of 1 no. 63 amp 4 pole Isolator (for UPS I/C) .Make of DB- Legrand, Standered, Indo Asia Make of MCB- Havells,Indo Asia,Legrand , Standard	2	1	3	Each		

h)	4 way DB comprising of 2 no. 63amp DPMCB "C " Series . (FOR UPS DB O/G) Make of DB- Legrand, Standered, Indo Asia Make of MCB- Havells,Indo Asia,Legrand , Standard	2	1	3	Each		
10	Supply, fixing and testing of following 3 pin metal clad industrial type plug & socket arrangement with plug top cap & chain controlled by 1 No. MCB						
a)	20/25 amp socket with 20/25 amp SPMCB (2 for making the plug socket arrangement for the record room so that the supply is connected only when the plug is inserted in the socket outside the record room for fire safety) Make of DB - Legrand, Standered, Indo Asia Make of MCB- Havells,Indo Asia,Legrand , Standard	5	3	8	No.		
b)	32 amp socket with 32 amp SPMCB Make of DB - Legrand, Standered, Indo Asia Make of MCB- Havells,Indo Asia,Legrand , Standard	1	1	2	No.		
	EARTHING BOX						
11	Providing & fixing suitable size 250 mm X 300 mm X 100 mm deep of MS box fabricated with 16 S.W.G.M.S. sheet either In recess wall or on surface to accommodate dedicated earth from earth electrode and further distribution of earth to computer points including providing 5mm backalite/phenolic laminated sheet cover in front sheet & base connector strip and painting of box etc complete as reqd. Make- Indo Asia, Legrand, L&T	2	1	3	Job		
12	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required. Make-LEGRAND/OBO /BETTERMANN/ Supermax Electrical or Equivalent						
a)	100 mm width X 50 mm depth X 1.6 mm thickness	15	5	20	Mtr		
b)	150 mm width X 50 mm depth X 1.6 mm thickness	15	5	20	Mtr		
c)	300 mm width X 50 mm depth X 1.6 mm thickness	15	5	20	Mtr		
13	RACEWAYS						
13.1	SITC of Metal/GI Raceways having 2.44 mtr standered length size 225x38x 3 compartments Legrand code 6895-04	90	40	130	Mtr		
13.2	SITC of Fixing brackets for 225x38mm 3 compartment raceways Legrand Code 6897-25	80	35	115	Mtr		
13.3	SITC of Vertical Riser for 225mm width raceways Legrand Code-6897-23	40	10	50	Mtr		
13.4	SITC of coupler for joining raceways Legrand Code- 6897-77	35	10	45	Mtr		
13.5	SITC of Height Adjustable Junction Box with lid size 225x225x60-90mm Legrand Code 6896-11	35	10	45	Mtr		
	TOTAL SUB-HEAD -1						
	SUB HEAD 2 (PANELS & CABLES)						
1	Providing & fixing 3 No.630 amp kit-kats (fuse carrier & base) with 1 no. neutral link on suitable size of backalite sheet of thickness not less than 10 mm etc. Complete as reqd. Make C&S,L&T,CROMPTON Or equivalent(R/O)	0	0	0	Job		
	MAIN PANEL						

2	Designing, Supply, Erection, Testing & commissioning of indoor Type LT cubical panel enclosure (dust, vermin and interchangeable modules with facilities for extensions or reduction as per the space or requirements). The Panel shall be suitable for operation at 415+6% Volts, 50HZ, 3 phase 4 wire & earth system. The assembly manufacturer should be ISO approved and CPRI tested for short circuit of (minimum 50kA) as well as IP degree of protection (IP 54/55). Fabrication :- Panel shall be made from 14/16 SWG CRCA sheet, conforming to IS 8623/1977-82. The sheet metal used for the fabrication of control panel will be 2mm for load bearing member's door and fittings plates etc. the partitions and other non load bearing members will be fabricated out of 1.6mm sheet, the sheet will be of mild steel CRCA type. The base channel will be made out of 75 x 40 x 5mm rolled channel. Make-L&T/SIEMENS/AREVA//COMPTON/ABB/or Equivalent	0	0	0	Set		
	Metering:-The panel shall be completed with digital metering unit (with selector switches, voltmeter & ammeter) epoxy insulator, gasket, PVC sleeves, CT's & L.E.D. type indicator etc. Manufacturer of Panel should be CPRI Approved (Approval not older then 5 years) & ISO certified (Manufacturer workshop as per ISO 9001: 2015 standard) The Concerned contractor shall be approved the detailed drawing of panel with complete specification from the Engineer in charge at site. Detail of capacities of MCCB's to be installed in the cubical panel Enclosure (Excluding the cost of MCCB's) as per following:-						
	INCOMING						
a)	630 amp MCCB 4 pole with 50 KA breaking capacity at 415 Volts (DN3 SERIES) With Thermal Megnetic Release.						
b)	1 set of 800 amp TPN aluminium bus-bar chamber						
c)	1 no. 0-500 V Voltmeter with selector switch in a separate compartment and amp meter with selector switch and one set of CT's (3 no.) with CT ratio 200/5 A with LED type indication lamps with protection fuses in a separate compartment						
	OUTGOING						
a)	9 No. 200 amp 3 pole MCCB with separate neutral link. (MCCB'S With 25KA BREAKING CAPACITY at 415 Volts. (DN2 SERIES) With Thermal Megnetic Release.						
b)	2 No. 100 amp 3 pole MCCB with separate neutral link. (MCCB'S With 16KA BREAKING CAPACITY at 415 Volts.(DN2 SERIES) With Thermal Megnetic Release.						
	CABLES						
3	Supply, installation, testing & commissioning of PVC insulated PVC sheathed armored cable of 1100 V (IS-1554 part I) and fixing of cable on wall/cable tray with suitable size of clamps/ saddles or laid in floor/recess wall including cutting of floor/wall and making good the damages etc. complete as required. of following sizes:- Make-Havells,Polycab,Finolex,RRKabel						
a)	3 x 2.5 sq.mm. copper conductor (R/O)	0		0	per mtr.		
b)	3 x 6 sq.mm copper conductor (form UPS Out going Switch to 8Way SPN DB 2No.)	50	20	70	per mtr.		

c)	3.5 x 25 sq.mm. aluminium conductor with 2 no. 8S.WG.G.1. wire (R/O)	0		0	per mtr.		
d)	3.5 x 25 sq.mm. aluminium conductor with 2 no. 8S.WG.G.1. Wire (Sub LT panel to UPS I/C Switch)	80	40	120	per mtr.		
e)	3.5 x 50 sq.mm. aluminium conductor with 2 no. 8S.WG.G.1. wire. (R/O)	0		0	per mtr.		
f)	3.5 x 70 sq.mm. aluminium conductor with 2 no. 8S.WG.G.1. wire. (From Main Panel to Sub Lt Panel)	100	80	180	per mtr.		
g)	3.5 x 120 sq.mm. aluminium conductor with 2 no. 8 SWG. G.1.wire (R/O)	0		0	per mtr.		
h)	3.5 x 300 sq.mm. aluminium conductor with 2 no. 8 S.WG. G.1. wire (from the Transformer to Main Panel I/C and via C.O.S)(R/O)	0	0	0	per mtr.		
i)	4 x 16 sq.mm. aluminium conductor with 2 no. 8S.WG.G.1. wire (From Sub LT Main Panel to Power D.B 3No)	100	40	140	per mtr.		
j)	4 x 10 sq.mm. aluminium conductor with 2 no. 8S.WG.G.1. wire (From Sub LT Main Panel to Lighting D.B 3No)	100	40	140	per mtr.		
4	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. Make of glands-HMI/COSMOS/COMET/GRIPWEL						
a)	3½ X 25 sq. mm (38mm)	2	2	4	each		
b)	3½ X 35 sq. mm (38mm)	0	0	0	each		
c)	3½ X 120/70 sq. mm (45mm)	2	2	4	each		
d)	3½ X 300 sq. mm (70mm)	0	0	0	each		
e)	4 X 16/10 sq. mm (28mm)	12	4	16	each		
5	Providing & fixing suitable size change over switch with angle iron frame suitable for installation on wall/floor including grouting of frame & painting etc. complete as reqd. Make-Havells,L&T,C&S,Indo Asia,CGL						
a)	On Load Change Over Switch Four Pole 630amp., 415volts (With Sheet Enclosure)	0	0	0	job		
6	Providing & fixing 16 S.W.G. M.S. Sheet adapter box, and also base frame for installation of M.C.B. D.B.'s plug & socket arrangement and to cover cables in system room including painting etc. complete	0	0	0	sqmt.		
	SUB LT PANEL						
7	Supply at site installation, testing & commissioning of panel fabricated with 16 S.W.G.M.S. sheet. The panel shall be free standing type totally enclosed dust & vermin proof construction with rubber gaskets. The floor mounting panel shall have ISMC mounting channels, G.1. earth bus bar, bus bar chamber cable alleys interconnections with solid bar/PVC insulated copper conductor as per requirement, and suitable supports of bus bars. The panel shall be painted with 2 coats of enamel paint (grey shade)over the primer and shall also be provided with designation of incoming & outgoing feeder as per details below- Make-L&T/ SIEMENS/AREVA//COMPTON/ABB/or Equivalent	1	1	2	set		
	INCOMING						
a)	200 amp MCCB 4 pole WITH 25 KA breaking capacity AT 415 VOLTS. (DN2 SERIES) With Thermal Megnetic Release.						
b)	1 set of 200 amp TPN aluminium bus-bar chamber						
c)	1 no. 0-500 V Voltmeter with selector switch in a separate compartment and amp meter with selector switch and one set of CT's (3 no.) with CT ratio 200/5 A with LED type indication lamps with protection fuses in a separate compartment						

	OUTGOING						
a)	4 No.160 amp 3 pole MCCB , 4 No. 100 AMP 3 pole MCCB with separate neutral link. (MCCB'S WITH 16 KA BREAKING CAPACITY at 415 Volts.) (DN2 SERIES) With Thermal Megnetic Release.						
	TOTAL SUB -HEAD 2						
	SUB-HEAD 3 (EARTHING)						
1.1	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required as per IS 3043-1987. The voltage between neutral & earth must be below 1 volt.	0	0	0	set		
1.2	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required. as per IS 3043-1987. The voltage between neutral & earth must be below 1 volt.	0	0	0	set		
	NOTE: chamber for the earthing shall be available at site without it the earthing cost shall not be paid for all the Earthing You are also required to provide picture of earthing taken at the time of execution of the same.						
2.1	Supplying and laying 25 mm X 3 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)	15	10	25	mtr.		
2.2	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	15	10	25	mtr.		
3.1	Providing & fixing 8 SWG/4 mm Dia Cu earth wire on surface or in recess for loop earthing etc. as reqd.	30	30	60	mtr.		
3.2	Providing & fixing 6 S.W.G G.I. earth wire on surface or in recess for loopearthing etc. as reqd.	30	30	60	mtr.		
4	Supply & laying following dia 2 mm in thickness PVC pipe under floor or in recessed walls from earth electrode to UPS room for computer dedicated earthing, for data cabling, electrical cabling etc. including providing 1 no. G.I. pull wire for data cabling making good the damages etc. wherever reqd.						
a)	25mm	60	40	100	mtr.		
	TOTAL SUB-HEAD -3						
	SUB HEAD 4 (NETWORKING & TELEPHONE)						
	NETWORKING						
1	Wiring for computer networking starting from mounting rack with UTP CAT-6 cable in 2 mm thick 25mm dia ISI mark PVC conduit with accessories such as bends, junction boxes including providing and fixing I/O plates and SMB complete with all networking accessories etc complete as reqd. (2 points /Seat)	53	22	75	no.		

2	Re-Installation, testing and commissioning of 24-port unmanaged switch 10/100 full duplex complete as reqd. (to be supplied by the bank)(R/O)	4	1	5	no.		
3	Supply, installation, testing and commissioning of 24-port Patch Panel D-Link.	4	1	5	no.		
4	Supply installation, testing and commissioning of mounted rack 12U height made of powder coated MS sheet. D-Link 12U Rack NWR-12U-5045GR	4	1	5	no.		
5	Supply, fixing and commissioning of patch cable Cat-6 complete with 2 no. connectors etc. complete as reqd.						
a)	1m long	30	15	45	no.		
a)	2m long	20	10	30	no.		
6	Supply, fixing and commissioning of cable Cat-6 complete with 2 no. connectors or as required etc. complete as reqd including upvc 19mm dia. pipe conduit of heavy duty.						
a)	25mm	100	100	200	mtr.		
	TELEPHONE						
7	Wiring for telephone points with 0.6 mm dia 2 pair insulated annealed tinned electrolatic copper conductor in 2 mm thick 25 mm dia ISI marked PVC conduit complete with accessories such as bends, junction boxes etc. with suitable size of G.I. box modular plate and cover in front on surface or in recess including providing and fixing modular type telephone socket outlet and making necessary connections etc. complete as reqd.	26	11	37	no.		
8	Supply, fixing and commissioning of 20 pair tag block for telephone points. (box and strips Krone make)	3	1	4	no.		
9	Providing TV point with Supply and drawing co-axial TV cable RG-6 grade 0.7 mm solid conductor PE insulated shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/recessed PVC conduit as required including TV socket/Multimedia outlet, modular type ISI marked in suitable M.S. box complete as required	4	2	6	no.		
	TOTAL SUB -HEAD 4						
	SUB HEAD 5 (SUPPLY OF FANS & FIXTURES)						
1	SITC of 2'x2' 33-36 watt. LED fitting & connection with 2x1.5 Sq. mm wire crompton greaves (or equivalent) LCTLRNE-36-FO-CDL / Bajaj DOMINTO LED BCTBLR 36W LED FP CW/ Philips FullGlow G5 RC380B LED25S-6500 G5 L60W60 PSU OD complete as required	46	13	59	no.		
2	SITC of 15 watt. LED Down Lighter fitting crompton greaves (or equivalent) LCDEP-15-CDL./Bajaj SLEEK RD LED BGSLO SLEEK 15W WH RD/ Philips complete as required.	144	71	215	no.		
3	SITC of 5 Watt LED Mirror Light fitting of Bajaj BCLSB 05 WH /Philips/Crompton or equivalent as required.	6	2	8	no.		
4	SITC of 200 mm (sweep) exhaust fans (only Metal Body) complete with self opening louvers/shutters etc. complete as reqd. Havells CELSO, Crompton cross air or equivalent of USHA / Bajaj)	8	4	12	no.		
5	SITC of 450mm Sweep wall Fan (Metal Body) complete as required Havells Sameera, Crompton or equivalent of USHA / Bajaj.	6	2	8	no.		
6	Motopack MHD1800 Automatic Hand Dryer Hot Air Dispenser with Infrared Sensor for Home and Office Bathroom Hand Dryer Machine	5	2	7	no.		

7	Supplying,installation,testing and commissioning of Passive Infrared(PIR) technology based occupancy sensor having high preformance, non regulating programmable type, suitable for connected load upto 10Amp , for mounting height up to 2.8 mtr and for 5 m diameter coverage area along with necessary fixing arrangements i/c programming at site etc. complete as required with 2x1.5+1x1.5mm wiring from sensor to nearest switchboard. (For Light Controls in DGM Room & Toilets)	8	2	10	no.		
8	SITC of Automatic Programmable Digital Timer Multiple Socket 6/16A rating.(For Control of Ex.Fans in Elect Room & UPS Room)	6	2	8	no.		
9	SITC of 20W LED Tube Light 1200mm including 2x1.5 Sqmm wire for connection from nearest point complete as required.	6	2	8	no.		
	TOTAL SUB -HEAD 5						
	TOTAL SUB-HEAD-1						
	TOTAL SUB-HEAD-2						
	TOTAL SUB-HEAD-3						
	TOTAL SUB-HEAD-4						
	TOTAL SUB-HEAD-5						
	TOTAL AMOUNT - SUB-HEAD 1 TO 5 - ELECTRICAL WORK						

LIST OF DRAWINGS

- | | | |
|----------|---|-----------------------------------|
| 1. EL-01 | - | CEILING LIGHTS LAYOUT – FLOOR[+3] |
| 2. EL-02 | - | CEILING LIGHTS LAYOUT – FLOOR[+4] |
| 3. EL-03 | - | SWITCHES LAYOUT – FLOOR[+3] |
| 4. EL-04 | - | SWITCHES LAYOUT – FLOOR[+4] |
| 5. EL-05 | - | FLOOR RACEWAYS LAYOUT – FLOOR[+3] |
| 6. EL-06 | - | FLOOR RACEWAYS LAYOUT – FLOOR[+4] |

FLOOR [+4]
S A R B - BRANCH

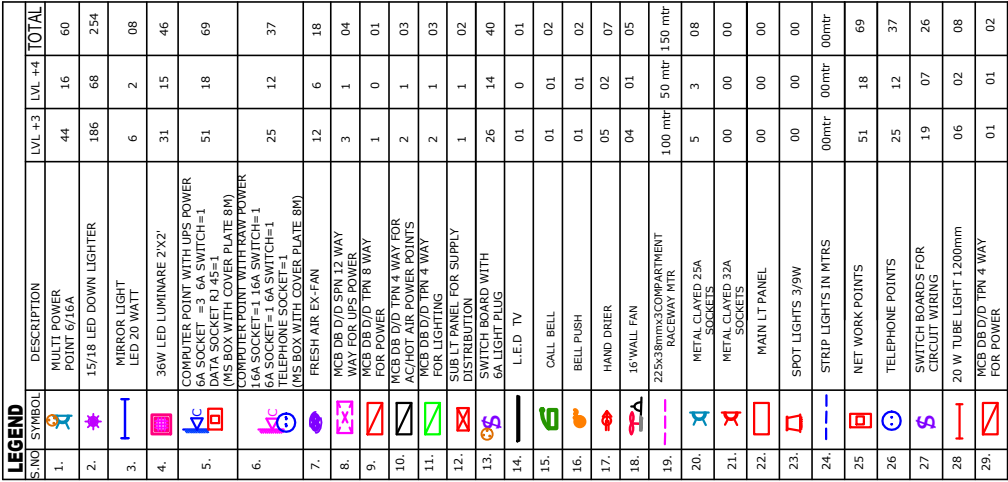


SYMBOL	DESCRIPTION	LVL. +3	LVL. +4	TOTAL
1. [Symbol]	MULTI POWER POINT 6/10A	44	16	60
2. [Symbol]	12W LED DOWN LIGHTER	186	68	254
3. [Symbol]	INDICATOR LIGHT	6	2	08
4. [Symbol]	20W LED LUMINAIRE 2'X2'	31	15	46
5. [Symbol]	COORDINATES POINT (STATUS) UPS POWER 6A SOCKET = 3 6A SWITCH=1 INS BOX WITH COVER PLATE 80X	51	18	69
6. [Symbol]	COMPUTER POINT (STATUS) UPS POWER 6A SOCKET = 1 6A SWITCH=1 INS BOX WITH COVER PLATE 80X	25	12	37
7. [Symbol]	FRESH AIR EXFAN	12	6	18
8. [Symbol]	1600 BTU/D SPRT 12 WAY	3	1	04
9. [Symbol]	1600 BTU/D TYP 6 WAY	1	0	01
10. [Symbol]	1600 BTU/D TYP 4 WAY FOR	2	1	03
11. [Symbol]	AC/HOT AIR POWER POINTS FOR LIGHTING	2	1	03
12. [Symbol]	1600 BTU/D TYP 4 WAY FOR SUPPLY	1	1	02
13. [Symbol]	SWITCH BOARD WITH	26	14	40
14. [Symbol]	LED TV	01	0	01
15. [Symbol]	CALL BELL	01	01	02
16. [Symbol]	BELL PUSH	01	01	02
17. [Symbol]	HAND DRIER	05	02	07
18. [Symbol]	16 WALL FAN	04	01	05
19. [Symbol]	22x36mm COMPARTMENT RACKWAY FIBER	100 mtr	50 mtr	150 mtr
20. [Symbol]	METAL CLAYED 22A	5	3	08
21. [Symbol]	METAL CLAYED 32A	00	00	00
22. [Symbol]	MAIN LT PANEL	00	00	00
23. [Symbol]	SPOT LIGHTS 3'X3'	00	00	00
24. [Symbol]	STREP LIGHTS IN MTRS	10mtr	10mtr	20mtr
25. [Symbol]	NET WORK POINTS	51	18	69
26. [Symbol]	TELEPHONE POINTS	25	12	37
27. [Symbol]	SWITCH BOARDS FOR CIRCUIT WIRING	19	07	26
28. [Symbol]	20 W TUBE LIGHT 1200mm	06	02	08
29. [Symbol]	1600 BTU/D TYP 4 WAY FOR POWER	01	01	02

7	REVISED as per OBSERVATIONS DURING MEETING ON 14.07.2025	01.08.25
6	REVISED as per OBSERVATIONS DURING MEETING ON 25.06.2025	25.06.25
5	REVISED as per OBSERVATIONS DURING MEETING ON 20.03.2025	20.03.25
4	REVISED as per OBSERVATIONS DURING MEETING ON 13.03.2025	15.03.25
3	REVISED as per OBSERVATIONS DURING VISIT ON 26.11.2024 TO AO	27.11.24
2	REVISED as per OBSERVATIONS OF CORPORATE OFFICE	20.02.22
1	REVISED- LHO OBSERVATIONS	25.09.21
REV	DESCRIPTION	DATE

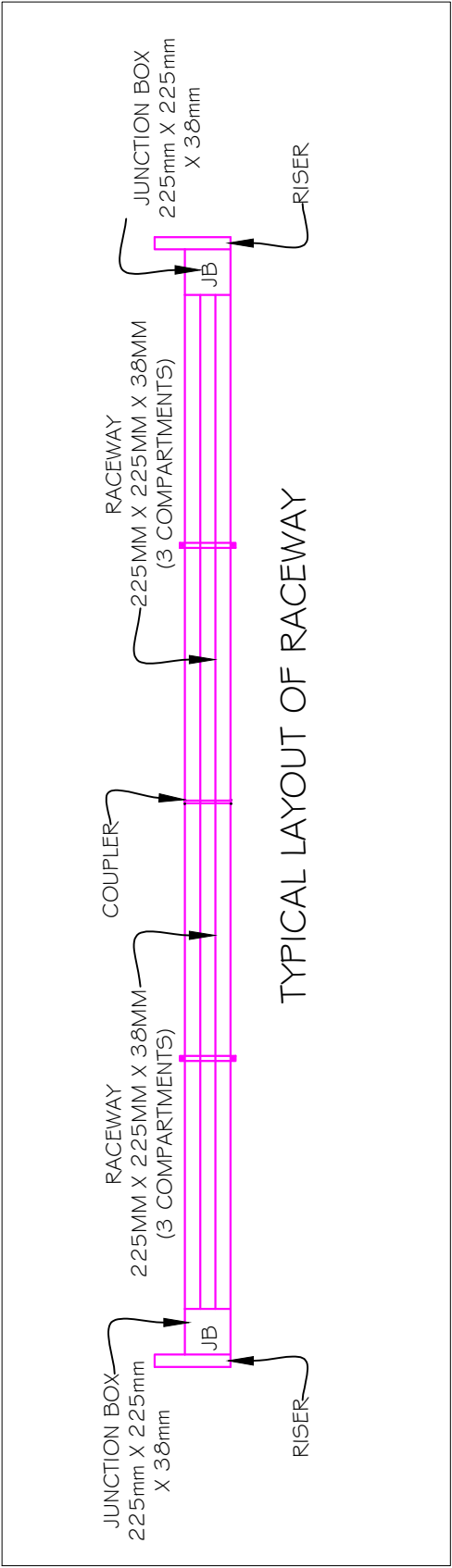
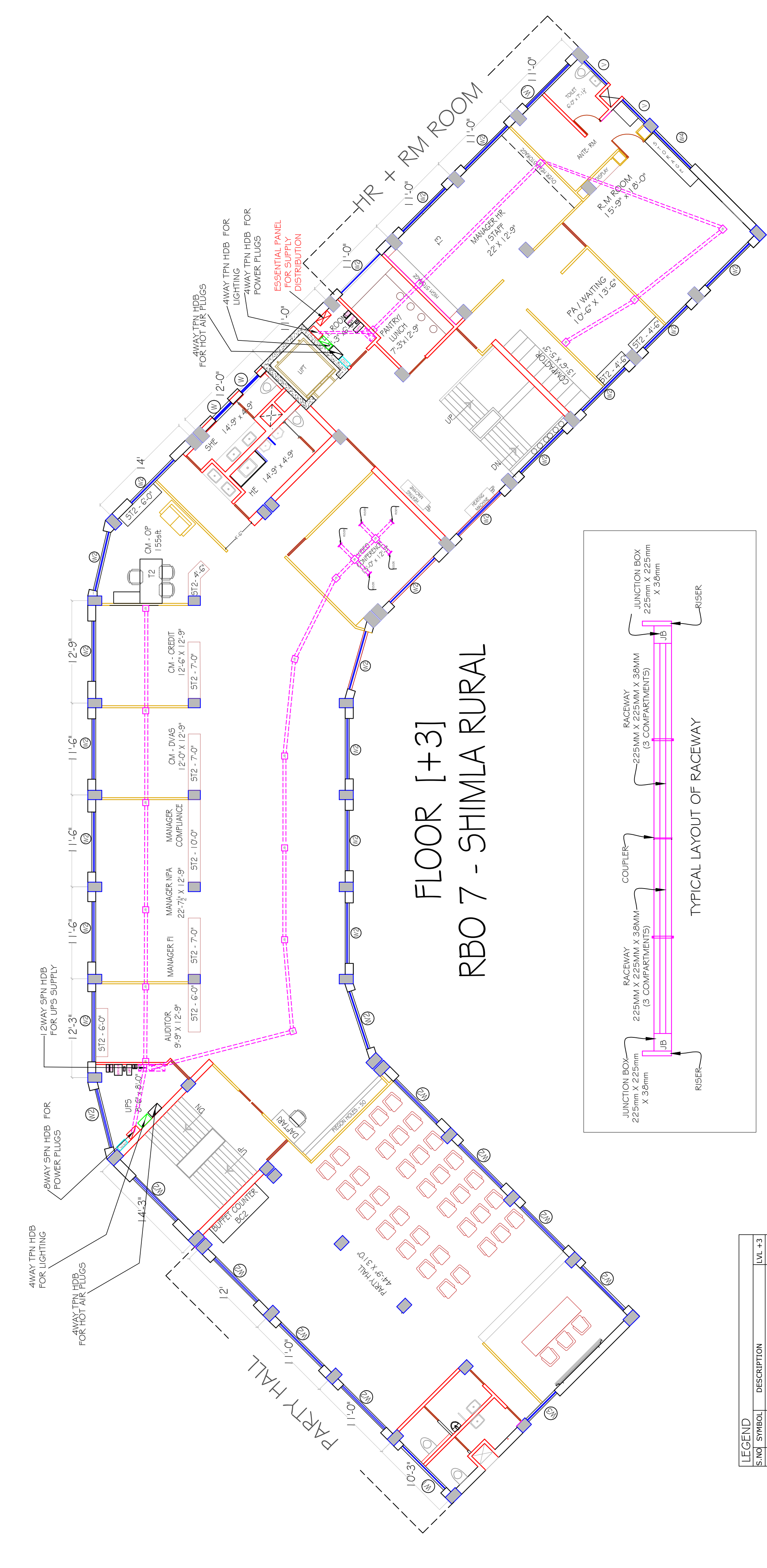
BACHITTER SINGH ASSOCIATES ARCHITECTS,INT.DESIGNERS,ENGINEERS, S.C.O.20,SECTOR 7-C, CHANDIGARH.	PROJECT	RENOVATION OF SBI ADMINISTRATIVE OFFICE, SHIMLA	LVL. (+) 4 CEILING LIGHTS LAYOUT	JOB NO	SCALE
				901	FIT TO SCALE
				DRG. NO.	DATE
				EL-02	SEP, 2025

B S A	DRAWN BY	NAME	SIGN
PR ARCHITECT	AR -INCHARGE	B.S.	DESCRIPTION



LEGEND	SYMBOL	DESCRIPTION	UW + 3	UW + 4	TOTAL
1.		MULTI POWER	44	16	60
2.		15018 LED DOWN LIGHT	186	68	254
3.		PARISON LIGHT LED 20 WATT	6	2	08
4.		30W LED UNDERCAB 2'X2'	31	15	46
5.		COMPUTER LIGHT WITH UPS POWER 6A SOCKET + 3 6A SWITCH + 1 15A SOCKET WITH COVER PLATE 8M	51	18	69
6.		COMPUTER LIGHT WITH UPS POWER 15A SOCKET + 15A SWITCH + 1 TELEPHONE SOCKET + 1 15A SOCKET WITH COVER PLATE 8M	25	12	37
7.		FRESH AIR 6X 4M	12	6	18
8.		FOR 1000 TO 1200 WATT FOR 1000 TO 1200 WATT FOR 1000 TO 1200 WATT	3	1	04
9.		FOR 1000 TO 1200 WATT	1	0	01
10.		FOR 1000 TO 1200 WATT	2	1	03
11.		FOR 1000 TO 1200 WATT	2	1	03
12.		FOR 1000 TO 1200 WATT	2	1	03
13.		FOR 1000 TO 1200 WATT	2	1	03
14.		FOR 1000 TO 1200 WATT	2	1	03
15.		FOR 1000 TO 1200 WATT	2	1	03
16.		FOR 1000 TO 1200 WATT	2	1	03
17.		FOR 1000 TO 1200 WATT	2	1	03
18.		FOR 1000 TO 1200 WATT	2	1	03
19.		FOR 1000 TO 1200 WATT	2	1	03
20.		FOR 1000 TO 1200 WATT	2	1	03
21.		FOR 1000 TO 1200 WATT	2	1	03
22.		FOR 1000 TO 1200 WATT	2	1	03
23.		FOR 1000 TO 1200 WATT	2	1	03
24.		FOR 1000 TO 1200 WATT	2	1	03
25.		FOR 1000 TO 1200 WATT	2	1	03
26.		FOR 1000 TO 1200 WATT	2	1	03
27.		FOR 1000 TO 1200 WATT	2	1	03
28.		FOR 1000 TO 1200 WATT	2	1	03
29.		FOR 1000 TO 1200 WATT	2	1	03

BACHITTER SINGH ASSOCIATES ARCHITECTS,INT. DESIGNERS,ENGINEERS, S.C.O.20,SECTOR 7-C, CHANDIGARH.	PROJECT	RENOVATION OF SBI ADMINISTRATIVE OFFICE, SHIMLA	LVL. (+) 3 SWITCHES LAYOUT	JOB NO	SCALE	B S A	
				901	FIT TO SCALE		
				DRG. NO.	DATE		
				EL-03	SEP,2025		



S.NO	SYMBOL	DESCRIPTION	LVL +3
1		225mmx225mmx38mm ADJUSTABLE HEIGHT	20
2		225mmx38mm 3 COMPARTMENT RACEWAY	100mtr
5		COMPUTER POINT WITH UPS POWER & DATA SOCKET (MS BOX 8M) 6A SOCKET =3 6A SWITCH=1 DATA SOCKET=1	51
6		COMPUTER POINT WITH RAW POWER & TELEPHONE POINT (MS BOX 8M) 16A SOCKET=1 16A SWITCH =1 6A SOCKET=1 6A SWITCH =1 TELEPHONE SOCKET=1	25

12	REVISED as per OBSERVATIONS DURING MEETING on 16.08.2025	18.08.25
11	REVISED as per OBSERVATIONS DURING MEETING on 16.08.2025	16.08.25
10	REVISED as per OBSERVATIONS RECEIVED FROM AO SHIMLA on 14.08.2025	14.08.25
9	REVISED as per OBSERVATIONS RECEIVED FROM AO SHIMLA on 08.08.2025	08.08.25
8	REVISED as per OBSERVATIONS VIA EMAIL ON 30.07.2025	01.08.25
7	REVISED as per OBSERVATIONS DURING MEETING ON 14.07.2025	14.07.25
6	REVISED as per OBSERVATIONS DURING MEETING ON 25.06.2025	25.06.25
5	REVISED as per OBSERVATIONS DURING MEETING ON 20.03.2025	20.03.25
4	REVISED as per OBSERVATIONS DURING MEETING ON 13.03.2025	15.03.25
3	REVISIT ON 26.11.2024 TO AO CORPORATE OFFICE	27.11.24
2	REVISED as per OBSERVATIONS OF	20.02.22
1	REVISED- LHO OBSERVATIONS	25.09.21
REV	DESCRIPTION	DATE

PROJECT	B S A		
	DRAWN BY	NAME	SIGN
RENOVATION OF SBI ADMINISTRATIVE OFFICE, SHIMLA	AR -INCHARGE		
	PR ARCHITECT	B.S.	
LVL (+) 3 FLOOR LAYOUT COMPUTER POINTS RAW POWER POINTS POINTS # RACEWAY LAYOUT	JOB NO	SCALE	
	901	FIT TO SCALE	
RENOVATION OF SBI ADMINISTRATIVE OFFICE, SHIMLA	DRG. NO.	DATE	
	EL-05	SEP, 2025	

