

NAME OF WORK: PRICE BID FOR ELECTRICAL INSTALLATION WORKS IN SBI BR AT REWALSAR (HP)

S.NO.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
	PART-A				
	UPS & AC POWER DISTRIBUTION				
1	Supply all materials receiving, storing, handling, fixing computer points with suitable size GI box with modular plate and cover in front including providing and fixing 3 No. 5 amp 3 pin modular socket under the table and controlled by 1 No. 5 amp modular switch with indicator above the table in separate GI box with modular plate & cover, connection end terminations with suitable size of glands etc. complete as reqd. including 3x2.5 sq.mm copper armoured cable Note:- Only two UPS computer points are to be provided on one circuit, (Switch & indicator for these computer pts shall be fixed above table on side partition) (Extra point on table to be decided by Architect / Bank Engineer) (Switches: Make Anchor/Crabtree/North-	18	Each		
2	Supply all materials receiving, storing, handling, fixing computer points with suitable size GI box with modular plate and cover in front including providing and fixing 1 no. 15 amp 5 pin modular socket controlled by 1 no. 15 amp modular switch with indicator, connection end terminations with suitable size of glands including 3x2.5 sq.mm copper armoured cable etc. complete as reqd. (For Raw power point only to be taken from Raw Power DB directly) Extra point on table to be decided by Architect /Bank Engineer	7	each		
3	Supplying and fixing 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 A "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required. (for AC only)	7	no.		
4	Supplying and fixing 32 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 25 A "C" curve, DP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required. (For AC only)	0	no.		
5	Supply, installation, testing & commissioning of factory fabricated distribution board rust inhibited, powder coated sheet sheet fabricated comprising of incoming & outgoing isolator & M.C.B's neutral link or neutral bus, top and bottom detachable entry earthing bolts interconnection and grouting bolts etc complete as reqd. as per details below:- (Make : Havells/HPL/Standard/hager/Legrand/L&T				
a)	6 way MCBDB double door comprising of 1 no. 40 amp isolator and 4 no. 6/10amp MCBs etc. complete as reqd. (ATM)	1	Each		
b)	12 way SPN MCBDB double door in recessed wall including cutting of wall and making good the damages comprising of 1no. 63amp isolator and 10 no. 6/10amp MCBs 2Nos DPMCB complete as reqd. (For BANKING HALL UPS Supply)	1	Each		
c)	10 way MCBDB double door in recessed wall including cutting of wall and making good the damages comprising of 1no. 63amp isolator and 8 no. 6/10amp MCBs etc. complete as reqd. (UPS Supply For Banking Hall)	0	Each		

d)	4 way TPDB double door comprising of 1 no. incoming of 30Amp ELCB & 12 nos. 6/10Amp SPMCB etc. complete as reqd. (For Lighting AND Fan distribution)	1	Each		
e)	4 way TPDB double door comprising of 1 no. incoming 30 amp ELCB and 12 nos. 20/25 Amp SPMCB etc. complete as reqd. (For Raw power distribution only)	1	Each		
f)	4 way TPDB double door comprising of 1 no. incoming 100 amp isolator & 6 nos. 32 DPMCB etc. complete as reqd. (For AC's D/B)	1	Each		
8	Providing & fixing 3 No. 100 amp kitkats (fuse carrier & base) with 1 no. neutral link on suitable size of backalite sheet of thickness not less than 6 mm etc. complete as reqd.	1	job		
PANELS & CABLES					
9	PANEL: SITC 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.I. 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:-				
INCOMING					
a)	1 No. 125 amp 25KA 4P MCCB (Make : DN SERIES OR EQUIVALENT L&T/GE/ABB)				
b)	1 set of 160 amp TPN aluminium busbar chamber				
c)	1 no. 0-500V Digital Voltmeter & Digital Ammeter with one set of CTs (3no.) with CT ratio 100/5 A with LED type indication lamps with protection fuses in separate compartment				
OUTGOING					
a)	5 No. 25 amp 25K 3P MCCB with suitable neutral link (Light DB's, UPS & 1 Spare)	1	set		
9	Supply, installation, testing & commissioning of PVC insulated PVC sheathed armored cable of 1100 V (IS-1554 part I) and fixing of cable on wall 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 reqd. of following sizes:- (Make: Havelles/KEI/Legrand/Finolex/Pymen only)				
a)	3.5 x 70 sq.mm. aluminium conductor with 2 no. 8 SWG G.I. wire	0	Per mt.		
b)	3.5 x 50 sq.mm. aluminium conductor with 2 no. 8 SWG G.I. wire	0	Per mt.		
c)	3.5 x 25 sq.mm. aluminium conductor with 2 no. 8 SWG G.I. wire (for kit-kats & A/C D/B)	30	Per mt.		
d)	4 x 16 sq.mm. aluminium conductor with 2 no. 8 SWG G.I. wire (for PD/B)	15	Per mt.		
e)	4 x 10 sq.mm. aluminium conductor with 2 no. 8 SWG G.I. wire (for LDB & UPS Panel)	40	Per mt.		
f)	3x6 sq.mm. Copper conductor with 1 no. 8 S.W.G. GI wire (for UPS DB's only)	40	per mtr.		
g)	3 x 2.5 sq.mm. insulated copper conductor	30	Per mt.		
10	End termination with Brass compression glands including providing lugs/ferruls and making necessary connections etc. complete as reqd. of following sizes:-				
a)	3.5 x 70 sq.mm. aluminium conductor	0	Each		
b)	3.5x 50 sq.mm. aluminium conductor	0	Each		
c)	3.5x25 sq.mm. aluminium conductor	8	Each		

d)	4x16 sq.mm. aluminium conductor	4	Each		
e)	4x10 sq.mm. aluminium conductor	4	Each		
f)	3x6 sq.mm. Copper conductor	4	Each		
g)	3 x 2.5 sq.mm. insulated copper conductor	14	Each		
11	Providing & fixing suitable size of angle iron frame suitable for installation on wall/floor including grouting of frame & painting etc. complete as reqd. comprising of following:-				
a)	1 No. 4 pole 160 amp capacity changeover switch (Make : Havells/L&T/C&S)	1	job		
	UPS DISTRIBUTION				
12	Supply, installation, testing and commissioning of factory fabricated distribution board rust inhibited, powder coated sheet fabricated comprising of incoming and outgoing isolator and MCB's neutral link or neutral bus, top and bottom detachable entry earthing bolts interconnection and grouting bolts on wall etc complete as reqd.(Make : Havells/Standard/L&T) as per details below :-				
a)	4 way DB comprising of 2 no. 63 amp DPMCB (UPS out put)	2	each		
b)	4 way comprising of 1 no 63 amp 4 pole TPN MCB (for UPS input)	1	Each		
13	Providing and laying following sizes of PVC insulated copper conductor flexible wire of 1100V in flexible/solid PVC conduit etc. including making necessary connection complete as reqd.				
a)	2x6 sq.mm with 2.5 sq. mm copper PVC insulated earth wire (For UPS input & output connections) (Make : Havells/Legrand/ KEI/Finolex)	20	per mtr.		
14	Earth Box: Providing and fixing suitable size of MS box fabricated with 16 S.W.G. MS 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 Bakelite sheet on base connector strip and painting of box etc complete as reqd.	1	job		
15	Basic lights and fans Point Wiring				
	Supply all material, receiving, storing, fixing, laying wiring & testing the same for light, ceiling fan, exhaust fan, 6A socket; starting from the point control box to out let; using 1.5 sqmm FRLS copper conductor PVC insulated 1100V grade wiring cable in concealed system using 20/25/32 mm ISI marked PVC conduit including all conduit accessories like conduit bends, tees, draw boxes, fan hooks etc., where ever required, together with wiring accessories such as flush type modular & flush type sockets, point control boxes,PVC bushes for conduit ends, batten holders, chrome plated brass screws including 1 sqmm copper PVC insulated earth wire, identification ferrules at either ends, complete in all respect. Conduit being concealed either in ceiling/ wall chase or on surface, including making & filling chases with cement mortar & painting the surface conduit etc. complete as reqd. Rates include providing & fixing modular switches & sockets with switch boxes and plate etc. complete (Rates include 3x2.5 sq.mm copper conductor PVC insulated wiring laid in PVC pipe for circuit wiring).				
a)	Single 6 amp switch controlling 1 light point for T-5, exhaust fans, ceiling fan and other separate room supply only.	20	Each		
b)	Single 6 amp switch controlling the four downlighters OR 4 No. LED downlight / Two 2x2 36 watt light fittings(No. of Lights to be counted for lights points calculations)	25	Each		
c)	Single 6 amp socket controlling by 5 Amp modular switch in switch boards and for wall fans etc. complete as required.	6	Each		

	Note :- Lights / fans to be calculated by number of lights and no extra cost shall be paid for dummy switch.				
d)	Wall fan points: 1socket controlled by 1 switch.	8	Nos		
e)	Power point of 15 amp for main supply to locker room, safe room & stationery Room with 15Amp socket controlled by one no. 15 Amp switch.	3	Nos		
EARTHING					
16	Copper plate earthing: Supply, fixing and termination of Copper plate of size 600x600x3mm thick with all accessories such as watering pipe & funnel and providing masonry enclosure at top with cover plate i/c excavation of pit, supplying & filling of salt charcoal, refilling of pit etc complete as reqd as per IS 3043-1987. The voltage between neutral & earth must be below 1 volt.	1	set		
	20x3mm size copper strip below ground level	3	Mtr		
	GI plate earthing: Supply, fixing and termination of GI plate of size 600x600x3mm thick with all accessories such as watering pipe & funnel and providing masonry enclosure at top with cover plate i/c excavation of pit, supplying & filling of salt charcoal, refilling of pit etc complete as reqd as per IS 3043-1987. The voltage between neutral & earth must be below 1 volt.	2	set		
	32x6mm size G.I. strip below ground level	6	Mtr		
17	a) Providing & fixing 8 S.W.G copper earth wire on surface or in recess for loopearthing from earth station to earth box at UPS Room etc.as reqd.	30	mtr.		
	b) Providing & fixing 8 S.W.G G.I. earth wire on surface or in recess for loopearthing etc.from earth station to electrical panels as reqd.	20	mtr.		
18	Supply & laying of 25mm dia 2 mm in thickness PVC pipe under floor or in recessed walls from earth electrode to UPS room for computer dedicated earthing and electrical panels, etc. making good the damages etc. wherever reqd.(ISI Marked)	50	mtr.		
TELEPHONE					
19	Wiring for telephone points with 0.5 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 PVC 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.(Make : DGLink/KEI/Finolex)	8	no.		
21	Tag Block : Supply, Providing & installing 10 pair PVC Tag Block in hinged type complete as reqd.	1	no.		
DATA CABLING WORK					
22	Data cabling work for computer networking starting from mounting rack at suitable position of banking hall with UTP CAT-6e LAN Data cable in 2mm thick 25 mm dia ISI mark PVC conduit with accessories such as bends, Tees, junction boxes including providing and fixing cat-6 I/O plates and SMB complete with all networking accessories etc complete as reqd., testing and ferruling (D-LinK/MOLEX/AMP/COMMSCOPE).	18.00	no.		
23	Providing, fixing, testing and commissioning of 24-port Patch Panel	1.00	no.		
24	Providing, fixing, testing and commissioning of mounted rack 15" hight made of powder coated MS sheet	1.00	no.		
25	Supply, installation, testing and commissioning of factory manufactured CAT-6e patch chord complete with 2 no. connectors etc. complete as reqd. (Make : D-Link)				

a)	1 mtr. long	20.00	no.		
b)	2 mtr. long	10.00	no.		
	AIR CONDITIONING WORK FOR SPLIT AC's				
26	Supplying & Laying of following COPPER REFRIGERANT PIPING Thickness 22 SWG For Hiwall Split AC complete with fittings Suction / Discharge line insulated with 12 mm SUPERLON / ARMAFLEX suction line. Multi-runs between Indoor & Outdoor units shall be considered as ONE length for the purpose of measurement. (Make Total Line/ Armacell)				
	5/8" + 3/8" Refrigerant piping - For Cassette AC's	0.00	mtr.		
	1/4" + 1/2" Refrigerant piping - For Hi wall Split AC's	65.00	mtr.		
27	Supplying & laying recessed in wall Rigid ISI Mark PVC drain pipe of size 20mm dia complete with fittings, U traps etc. & as specified to the nearest toilet / drain point under floor or in recessed walls for AC drains including cutting of walls, bends & Tees. making good the damages etc. wherever required. (Make: Diplast/Supreme)	60.00	mtr		
28	Supplying & laying of Eletrical flexible cable of 4x2.5sq.mm multi strand suitable for 2.0 Tr , 1.5 Tr & 1.00 Tr H.W Split/Cassette unit between Indoor & Outdoor units shall be considered as ONE length for the purpose of measurement. (Make : Havells/Legrand/ KEI/ Finolex)	0.00	mtr		
29	Supplying & laying of Eletrical flexible cable of 3x2.5sq.mm multi strand suitable for 2.0 Tr , 1.5 Tr & 1.00 Tr H.W Split/Cassette unit between Indoor & Outdoor units shall be considered as ONE length for the purpose of measurement. (Make : Havells/Legrand/ KEI/ Finolex)	180.00	mtr		
30	Charges for keeping the office/branch operational with temporary connections of UPS, Data Cabling, Telephone, raw power supply to lights, fans etc. as per requirements of the office during the renovation period	0.00	Job		
	TOTAL PART-A				
	PART-B				
	SUPPLY OF FANS & FIXTURES				
1	Supply, Installation, testing and commissioning of 33-36 watt LED Light above 100 lm/watt fitting complete including necessary connection from 2x1.5sq.mm copper wire in ceiling etc. as reqd. (Make : Philips / Wipro / Havells) to be provided as per drawing	19	no.		
2	Supply, Installation, testing and commissioning of recess down lighter with assembly complete with 15watt LED Light above 85 lm/watt including necessary connection from 2x1.5sq.mm copper wire in ceiling etc. as reqd.. ((Make : Philips / Wipro / Havells)	35	no.		
3	SITC of 450 mm sweep mettalic wall fan etc. complete as reqd. (M/s Crompton /Usha/Khaitan)	5	no.		
4	SITC of 18/20 watt LED Batten above 90 lm/watt including necessary connection from 2x1.5sq.mm copper wire in ceiling etc. as reqd (Make : Philips / Wipro / Havells)	10	no.		
5	4.5/5 Watt LED strip light for cove with Driver (M/s. Philips Wipro / Havells) Complete in all respects.	37	mtr		
6	SITC of 48" sweep ceiling fans complete with regulator, hanging shackle & suitable down rod as per site conditioning complete as reqd. (M/s Crompton high breeze of USHA / Havells)	2	no.		
7	SITC of 250 mm mettalic body/frame exhaust fans complete with self opening louvers/shutters etc. complete with suitable wooden/iron frame as reqd. (M/s Crompton Cross air or equivalent of USHA / Havells)	4	no.		

	TOTAL PART-B				
	TOTAL PART-A				
	TOTAL PART-B				
	G. Total (A+B)				
	Add GST on G.Total @18% Extra				
<p>Note: 1) Independent circuits for Raw power plug and A.C point are to be provided starting from MCB distribution Box. 2) Make of individual items have been mentioned in BOQ any other list will not be considered.</p>					

Measurement sheet format				