

PRICE BID FOR ELECTRICAL INSTALLATION WORKS AT MANALI BRANCH, HP

SN	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 seprate GI box with modular plate & cover, connection end terminations with suitable size of glands etc. complete as reqd. Note:- Only two UPS computer points are to be provided on one circuit (Extra point on table to be decided by Architect /Bank Engineer)	34	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 2 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 etc. complete as reqd. (For ATM and System Room)	6	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.	4	no.		
3	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.	10	no.		
4	Extension from the nearest ceiling points with 2x1.5 sq.mm.+0.75sq.mm PVC insulated copper conductor FRLS wire in suitable dia PVC conduit in recess conduit wiring system for wall fan points with 5Amp. modular switches & sockets as per requirement and filling chasis etc. complete as reqd.	35	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:-				
a)	6 way MCBDB comprising of 1 no. 63 amp isolator and 4 no. 6/10amp MCBs etc. complete as reqd.	1	Each		
b)	8 way MCBDB double door in recessed wall including cutting of wall and making good the damages comprising of 1no. 63amp isolator and 6no. 6/10amp MCBs etc. complete as reqd.	3	Each		
c)	12 way MCBDB double door in recessed wall including cutting of wall and making good the damages comprising of 1no. 63amp isolator and 10no. 6/10amp MCBs etc. complete as reqd. (For Banking Hall)	2	Each		
e)	4 way TPDB double door comprising of 1 no. incoming 100 amp 4P isolator & 12 nos. 6/10Amp SPMCB (For Lighting and raw power distribution)	2	Each		
e)	4 way TPDB double door comprising of 1 no. incoming 100 amp isolator & 6 nos. 32 DPMCB (For AC's distribution)	3	Each		
PANELS & CABLES					

6	Providing & fixing 3 No. 200 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		
7	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. MCCB breaking capacity 25KA 160 amp- 4P				
b)	1 set of 300 amp 4 strips aluminium bus bar chamber				
c)	1 no. 0-500V Digital Voltmeter & Digital Ammeter with one set of CTs (3no.) with CT ratio 200/5 A with LED type indication lamps with protection fuses in separate compartment				
	OUTGOING				
a)	1 no MCCB breaking capacity 18 KA 125 amp 4P				
b)	3 no MCCB breaking capacity 10 KA 100 amp 3P with suitable neutral link	1	set		
8	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				
b)	1 set of 200 amp TPN aluminium busbar chamber				
c)	1 no. 0-500V Digital Voltmeter & Digital Ammeter with one set of CTs (3no.) with CT ratio 200/5 A with LED type indication lamps with protection fuses in separate compartment				
	OUTGOING				
a)	3 No. 63 amp 10KA 3P MCCB with suitable neutral link				
a)	3 No. 100 amp 10KA 3P MCCB with suitable neutral link	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/ECKO/RR Cable only)				
c)	3.5 x 50 sq.mm. aluminium conductor with 2 no. 8 SWG G.I. wire	80	Per mt.		
d)	3.5 x 25 sq.mm. aluminium conductor with 2 no. 8 SWG G.I. wire	65	Per mt.		
e)	3x6 sq.mm. Copper conductor with 1 no. 8 S.W.G. GI wire (for UPS DB's only)	80	per mtr.		
f)	3 x 2.5 sq.mm. insulated copper conductor	300	Per mt.		
9	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	4	Each		
b)	3.5x25 sq.mm. aluminium conductor	10	Each		
d)	3x6 sq.mm. Copper conductor	6	Each		
e)	3 x 2.5 sq.mm. insulated copper conductor	80	Each		

10	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 200 amp capacity changeover switch	1	job		
UPS DISTRIBUTION					
13	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. as per details below :-				
a)	4 way DB comprising of 2 no. 63 amp DPMCB (UPS out put)	3	each		
b)	4 way TPNDDB double door comprising of 1 no. incoming 100 amp MCB & 6 nos. 32 DPMCB (UPS input)	1	Each		
15	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 1.5 sq. mm copper PVC insulated earth wire (For UPS input & output connections)	20	per mtr.		
16	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		
Point Wiring					
17	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 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 hookes 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)	6 amp switch controlling single light point	60	Each		
b)	6 amp switch controlling the four downlighters OR Two 2x2 light fittings	70	Each		
c)	6 amp socket & switch	15	Each		
d)	15 amp switch with 5 pin 15 amp socket & switch (Raw power in seprate wiring from DBs)	22	Each		
EARTHING					
18	a) Supply & fix copper plate earth station with 600x600x3mm thick copper plate including 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		

	b) Supply & fix G.I. plate earth station with 600x600x6mm thick G.I. plate including 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	2	set		
19	a) Supplying, fixing & termination of 20x3mm copper strip with earth station below ground level etc complete as reqd.	10	mtr.		
	b) Supplying, fixing & termination of 32x6mm G.I. strip with earth station below ground level and on wall saddle etc complete as reqd.	20	mtr.		
20	a) Providing & fixing 8 S.W.G copper earth wire on surface or in recess for loopearthing etc.as reqd.	90	mtr.		
	b) Providing & fixing 8 S.W.G G.I. earth wire on surface or in recess for loopearthing etc.as reqd.	110	mtr.		
21	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 and electrical panels, etc. making good the damages etc. wherever reqd.				
a)	25 mm	110	mtr.		
TELEPHONE					
22	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 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.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 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.	18	no.		
23	Tag Block : Supply, Providing & installing 50 pair PVC Tag Block in hinged type complete as reqd.Tag Block : Supply, Providing & installing 50 pair PVC Tag Block in hinged type complete as reqd.	1	no.		
DATA CABLING WORK					
25	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). Note: maximum 6 no. data cable must be run in one PVC pipe.	44.00	no.		
27	supply, installation, testing and commissioning of 24-port Patch Panel	2.00	no.		
28	supply, installation, testing and commissioning of mounted rack 15" hight made of powder coated MS sheet	2.00	no.		
29	supply, installation, testing and commissioning of factory manufactured CAT-6e patch chord complete with 2 no. connectors etc. complete as reqd.				
a)	1 mtr. long	44.00	no.		
b)	2 mtr. long	22.00	no.		
AIR CONDITIONING WORK FOR SPLIT AC's					

23	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.				
	1/4" + 1/2" Refrigerant piping - For Hiwall Split AC's	180.00	mtr.		
24	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.	160.00	mtr		
25	Supplying & laying of Eletrical flexible cable of 3x2.5sq.mm multi strand suitable for 1.5 Tr H.W Split & 1.00 Tr H.W Split unit between Indoor & Outdoor units shall be considered as ONE length for the purpose of measurement.	180.00	mtr		
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 : Panasonic / Wipro / Bajaj)	75	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 : Panasonic / Wipro / Bajaj)	72	no.		
3	SITC of 400 mm sweep metal body and metal blades crompton greaves or equivalent SDX BLACK GOLD wall fan etc.1325 sqm high flow complete as reqd. (M/s Crompton High Flo or equivalent of Khaitan / Bajaj)	28	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 : Panasonic / Wipro / Bajaj)	16	no.		
6	4.5/5 Watt LED strip light for cove with Driver (M/s. Philips Wipro / Bajaj) Complete in all respects required shade warm white/ blue as per requirement.	90	MTR		
7	SITC of 56" sweep ceiling fans complete with regulator, hanging shackle & suitable down rod as per site conditioning complete as reqd. (M/s Crompton high breeze or equivalent of USHA / Bajaj)	3	no.		
8	SITC of 300 mm 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 / Bajaj)	7	no.		
TOTAL PART-B					
TOTAL PART-A					
TOTAL PART-B					
SUB TOTAL					
Add GST on G.Total @18% Extra					
Note: Only two UPS computer points are to be provided on one circuit. Independent circuit for Raw power plug and A.C point is to be provided starting from MCB distribution Box					