

PRICE BID FOR ELECTRICAL INSTALLATION WORKS AT ASSAN KALAN

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. 15 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. including 3x2.5 sq.mm copper armoud cable Note:- Only two UPS computer points are to be provided on one circuit (Extra point on table to be decided by Architect /Bank Engineer) (Switches : Make Anchor/Crabtree/North-West/MK)	13	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 armoud 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	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 25 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)	5	no.		
4	Supplying and fixing 30 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)	4	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: (MakeHavells/HPL/Standard/hager/Legrand/L&T				
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.	2	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)	0	Each		
d)	4 way TPDB double door comprising of 1 no. incoming 63 amp 4P MCB with 30Amp ELCB & 12 nos. 6/10Amp SPMCB etc. complete as reqd. (For Lighting AND Fan distribution)	2	Each		
e)	4 way TPDB double door comprising of 1 no. incoming 100 amp 4P Isolator 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 distribution only)	2	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)	2 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				
	INCOMING				
a)	1 No. 125 amp 25KA 4P MCCB (Make : L&T/GE/ABB)				
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				
b)	2 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/RR Cable/Finolex/Pyment 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	20	Per mt.		
c)	3.5 x 25 sq.mm. aluminium conductor with 2 no. 8 SWG G.I. wire	45	Per mt.		
d)	3x6 sq.mm. Copper conductor with 1 no. 8 S.W.G. GI wire (for UPS DB's only)	80	per mtr.		
e)	3 x 2.5 sq.mm. insulated copper conductor	50	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	4	Each		
c)	3.5x25 sq.mm. aluminium conductor	12	Each		
d)	3x6 sq.mm. Copper conductor	6	Each		
e)	3 x 2.5 sq.mm. insulated copper conductor	16	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 200 amp capacity changeover switch (Make : Havelles/HPL/Standard/hager/Legrand/L&T)	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/HPL/Standard/hager/Legrand/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 TPNDDB double door comprising of 1 no. incoming 100 amp MCB & 6 nos. 32 DPMCB (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 1.5 sq. mm copper PVC insulated earth wire (For UPS input & output connections) (Make : Havells/RR Cable/ 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 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 hookees 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 , wall fans, exhaust fans, ceiling fan and other separate room supply only.	35	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)	20	Each		
c)	Single 6 amp socket controlling by 5 Amp modular switch in switch boards etc. complete as required.	7	Each		
	Note :- Lights / fans to be calculated by number of lights and no extra cost shall be paid for dummy switch.				
	EARTHING				
16	a) Supply & fix copper plate earth station with 600x600x3mm thick copper plate with 5M length 20X3mm copper strip below the ground level including all accessories such as watering pipe and funnel and providing mesonary enclosures at top with cover plate i.e. excavation of pit supplying filling of salt charcoal.refilling of pit etc. complete as required as per IS 3043-1987. The voltage between neutra and earth must be below 1 V.	1	set		

	b) Supply & fix G.I. plate earth station with 600x600x6mm thick G.I. plate with 5M length 20X3mm GI strip below the ground level 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 neutra and earth must be below 1 V.	2	set		
17	a) Providing & fixing 8 S.W.G copper earth wire on surface or in recess for loop earthing etc.as reqd.	35	mtr.		
	b) Providing & fixing 8 S.W.G G.I. earth wire on surface or in recess for loop earthing etc.as reqd.	60	mtr.		
18	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. (ISI Marked)				
a)	25 mm	95	mtr.		
TELEPHONE					
19	Wiring for telephone points with 0.6 mm dia 2 pair insulated annealed tinned electrolytic 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)	10	no.		
20	Tag Block : Supply, Providing & installing 10 pair PVC Tag Block in hinged type complete as reqd.	1	no.		
DATA CABLING WORK					
21	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.	14.00	no.		
22	supply, installation, testing and commissioning of 24-port Patch Panel	1.00	no.		
23	supply, installation, testing and commissioning of mounted rack 15" hight made of powder coated MS sheet	1.00	no.		
24	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	13.00	no.		
b)	2 mtr. long	13.00	no.		
AIR CONDITIONING WORK FOR SPLIT AC's					
25	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)				
	1/4" + 1/2" Refrigerant piping - For Hiwall Split AC's(1 Tr & 1.5 Tr)	50.00	mtr.		
	5/8" + 3/8" Refrigerant piping For HWS/Cassette AC (2.0 Tr) copper pipe size	46.00	mtr.		
26	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)	100.00	mtr		

27	Supplying & laying of Eletrical flexible cable of 3x2.5sq.mm multi strand suitable for 2.0 Tr H.W Split , 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. (Make : Havells/RR Kable/ KEI Finolex)	90.00	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 : Cat no. BZRSQL 43L LED GF of Bajaj or equivalent of philips / Wipro to be provided as per drawing.	31	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 / Bajaj)	16	no.		
3	SITC of 400 mm sweep wall fan etc. complete as reqd. (M/s Crompton High Flo/ Khaitan / Bajaj)	19	no.		
4	SITC of 18 watt LED Batten above 90 lm/watt including necessary connection from 2x1.5sq.mm copper wire in ceiling etc. as reqd (Make : Philips / Wipro / Bajaj)	6	no.		
5	4.5/5 Watt LED strip light for cove with Driver (M/s. Philips Wipro / Bajaj) Complete in all respects.	0	MTR		
6	SITC of 1200 MM. 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)	0	no.		
7	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)	6	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					