

Ar. Manav Salhotra

B.ARCH, M.C.O.A. ,A.O.I.O.V

Member Council of Architecture

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2011-12/15



3D Vision Architects

ARCHITECTS, ENGINEERS, INTERIOR

DESIGNERS, VALUERS,

LANDSCAPPERS

& VASTU CONSULTANTS

329, Govt. College Road, GURDASPUR

Mob. No. 098141-77578

E-mail: salhotra_manav53@rediffmail.com

Ref. No

Dated: 18.06.2024

NAME OF WORK :SOQ FOR ELECTRICAL WORKS AT STATE BANK OF INDIA AND SBI WEALTH AT MADHOPUR BRANCH					
S.NO.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
PART-A					
UPS & AC POWER DISTRIBUTION					
1	UPS Points: 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 & sockets : Make Anchor/standard/North-West)	15	Each		
2	Raw Power points: 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 (Switches & sockets : Make Anchor/standard/North-West)	8	each		
3	1.5 TR AC Supply points: 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.		
4	2.0 TR AC Supply points: 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.	8	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 comprising of 1 no. 63 amp isolator and 4 no. 6/10amp MCBs etc. complete as reqd. (ATM UPS Room)	3	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.(Banking Hall 1st & 2nd floor separately)	1	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	0.00	0.00
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. (only for Lighting & Fan distribution at 1st & 2nd floor separately)	1	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 points distribution only)	2	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 wall mounted 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 (Make : L&T/GE/ABB)				
b)	1 set of 200 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 (Make : L&T/GE/ABB)				
OUTGOING					
a)	1 no MCCB breaking capacity 18 KA 125 amp 4P (L&T Make)				
b)	2 no MCCB breaking capacity 10 KA 100 amp 3P with suitable neutral link(L&T Make)	1	set		
8	SITC of panel fabricated with 16 S.W.G.M.S. sheet. The panel shall be wall mounted 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 (Make : L&T/GE/ABB)				
OUTGOING					

a)	3 No. 63 amp 10KA 3P MCCB with suitable neutral link (Make : L&T/GE/ABB)		
b)	2 No. 100 amp 10KA 3P MCCB with suitable neutral link (Make : L&T/GE/ABB)	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/Pymen only)		
a)	3.5x70 sq.mm. aluminium conductor with 2 no. 8 SWG G.I. wire	0	Per mt.
b)	3.5x50 sq.mm. aluminium conductor with 2 no. 8 SWG G.I. Wire (For mains supply)	45	Per mt.
c)	3.5x25 sq.mm. aluminium conductor with 2 no. 8 SWG G.I. Wire (For Lighting & Raw power & AC's distribution boxes)	80	Per mt.
d)	3x6 sq.mm. Copper conductor with 1 no. 8 S.W.G. GI wire (for UPS DB's only)	75	per mtr.
e)	3x2.5 sq.mm. insulated copper conductor (For AC supply points only)	70	Per mt.
10	End termination with Brass compression glands including providing lugs/ferruls and making necessary connections etc. complete as reqd. of following sizes:- (Make: HMI and equivalent)		
a)	3.5 x 70 sq.mm. aluminium conductor	0	Each
b)	3.5x 50 sq.mm. aluminium conductor	5	Each
c)	3.5x25 sq.mm. aluminium conductor	8	Each
d)	3x6 sq.mm. Copper conductor	8	Each
e)	3 x 2.5 sq.mm. insulated copper conductor	28	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 : Havells/HPL/L&T)	1	job
	UPS DISTRIBUTION BOARD		
	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	1	sqmt.
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 DB comprising of 1 no. 63 amp FPMCB (UPS input)	1	Each
c)	20 A, 3 pin Industrial type plug & socket outlet alongwith 20 A SPMCB complete as requires (UPS out put ,Stationary room & Strong room	4	no.
d)	30 A, 3 pin Industrial type plug & socket outlet alongwith 25 A SPMCB complete as requires (UPS input)	3	no.
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 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 Lights , exhaust fans, ceiling fan and other separate room supply only.	18	Each		
b)	Single 6 amp switch controlling the 4 No. LED 15 watt downlight / Two no. 2x2 type recessed 36 watt light fittings(No. of Lights to be counted for lights points calculations)	45	Each		
c)	Single 5 amp socket controlling by 5 Amp modular switch in switch boards etc. complete as required.	13	Each		
d)	Wall fan points: Single 5 amp socket below 1 ft down the false ceiling controlling by 5 Amp modular switch in switch boards etc. complete as required.	24	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 and fix copper plate earth station with 600X600X3mm copper plate and termination of 20 x 3 copper strip with earth station 5m in length below ground level etc. as required, including all accessories such as watering pipe and funnel and providing masonry enclosure at top with cover plate i.e excavation of pit, supplying and filling of salt charcoal, refilling of pit etc complete as required as per IS 3043-1987. The voltage between neutral and earth must be below 1 V.	1	set		
	b)Supply and fix GI plate earth station with 600X600X6mm GI plate and termination of 20X3 mm G.I strip 5m in length with earth station below ground level etc as required, including all accessories such as watering pipe and funnel and providing masonry enclosure at top with cover plate i.e excavation of pit, supplying and filling of salt charcoal, refilling of pit etc complete as required as per IS 3043-1987.	2	set		
18	a) Providing & fixing 8 S.W.G copper earth wire on surface or in recess for loopearthing etc.as reqd.	35	mtr.		
	b) Providing & fixing 8 S.W.G G.I. earth wire on surface or in recess for loopearthing etc.as reqd.	35	mtr.		

19	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	70	mtr.		
TELEPHONE					
20	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. (Make : polycab/KEI/Finolex)	8	no.		
21	Tag Block : Supply, Providing & installing 20 pair PVC Tag Block in hinged type complete as reqd. Tag Block : Supply, Providing & installing 20 pair PVC Tag Block in hinged type complete as reqd.	1	no.		
DATA CABLING WORK					
22	(Note: only one point to be provided in one work station) 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/ COMM SCOPE). Note: maximum 6 no. data cable must be run in one PVC pipe.	16.00	no.		
23	supply, installation, testing and commissioning of 24-port Patch Panel	1.00	no.		
24	supply, installation, 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.				
a)	1 mtr. long	16.00	no.		
b)	2 mtr. long	16.00	no.		
PART (A)					
PART- B					
AIR CONDITIONING WORK FOR SPLIT AC's					
26	Supplying & Laying of following COPPER REFRIGERANT PIPING (Make Total Line/ Armacell) Thickness 22 SWG For Hiwall Split AC complete with fittings Suction / Discharge line insulated with 12 mm SUPERLON / ARMAFLEX suction line including 4 core copper flexible power cable of 2.5sq.mm size (KEI / RR cable/ Havells) between Indoor & Outdoor units shall be considered as ONE length for the purpose of measurement.				
a)	1/4" + 1/2" Refrigerant piping including 4 core copper flexible power cable of 2.5sq.mm size - For Hiwall Split AC's(1.0TR/1.5TR)	60.00	mtr.		
b)	5/8" + 3/8" Refrigerant Copper piping including 4 core copper flexible power cable of 2.5sq.mm size – For HWS/Cassette AC (2.0TR)	120.00	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)	120.00	mtr		

28	Supplying & laying of Eletrical copper 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 from indoor OR outdoor unit to industrial power socket with good arrangement . (Make : Havells/RR Kable/ KEI Finolex)	60.00	mtr		
29	Supplying & laying of Eletrical copper flexible cable of 4x2.5sq.mm multi strand suitable for 2.0 Tr H.W Split , 1.5 Tr H.W Split & 1.00 Tr H.W Split unit from indoor to outdoor unit with good arrangement . (Make : Havells/RR Kable/ KEI Finolex)	120.0	mtr		
SUPPLY OF FANS & FIXTURES					
	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 / Bajaj) to be provided as per drawing	36	no.		
1	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)	70	no.		
2	SITC of 400/450 mm Metal body sweep wall fan etc. complete as reqd. (M/s reputed brand make like Crompton / Khaitan / Bajaj / orient etc.)	18	no.		
3	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 / Bajaj)	8	no.		
4	4.5/5 Watt LED strip light for cove with Driver (M/s. Philips Wipro / Bajaj) Complete in all respects.	35	mtr		
5	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)	2	no.		
6	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.		
7	TOTAL PART-B				
	TOTAL PART-A				
	TOTAL PART-B				
	Grand 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					