













Subject	Repair & renovation work of State Bank of India residence at House No- 139, sector – 19 A, Chandigarh.					
	BOQ - Electrical Work - 1					
	ITEM DETAILS		QTY.	UNIT	RATE	AMOUNT
	PART- A :					
	PART- I : PANELS , KIT KATS & CABLES					
1	Supply, Installation, testing & commissioning of PVC insulated PVC sheathed armoured cable of 1100 V (IS ;1554 Part 1) and fixing of cable on wall with suitable size of clamps /saddles or laid in floor/recess wall including cutting of wall /floor and making good the damages etc. including brass compression glands complete as required of following sizes (ISI marked). (Make: Havells/ RR Kable / KEI/Finolex) to be laid as per drg.					
a)	4.0 X10 sq. mm aluminum conductors armoured cable with two Nos. 8 SWG GI wire		40.00	mtr.		
b)	2.0 X10 sq. mm aluminum conductors armoured cable with two Nos. 8 SWG GI wire		60.00	per mtr.		
c)	3 x 2.5 sq.mm. copper conductor armoured cable (for the over head storage tank, park lights & flood lights.)		200.00	mtr.		
d).	Single strend flexible Copper wire - 3.0 core x 4.0 sq. mm wire.		20.00	mtr.		
2	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium/Copper conductor cable of 1.1 kV grade as required.					
a)	4.0X 10 sq.mm aluminum conductor		2.00	no.		
b)	2.0X 10 sq.mm aluminum conductor		2.00	no.		
c)	3 X2.5 sq. mm Copper conductor		20.00	each		
3	Providing and fixing of 03 no 100 Amps KITKAT with 1 no neutral link on suitable size of Bakelite sheet of thickness not less than 12 mm complete as required.		1.00	job		
	PART-II : DISTRIBUTION					
4	Supply, installation, testing and commissioning of factory fabricated distribution board rust inhibited powder coated sheet fabricated comprising of incoming and outgoing isolator & MCBs neutral link or neutral bus, top and bottom detachable entry earthing bolts interconnection and grouting bolts etc complete as required as per details below. Make: Havells/HPL/Standard/ Legrand/L&T.					
a)	4 WayTP MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising with 30mA ELCB and 12 Nos. 6- 32 amp. SPMCBS etc complete as required. (for Light, Fan point , Geyser & AC)		1.00	no.		
b)	8 way MCBDB double door comprising of 1 no. 63 amp DPMCB "C" Series and 6 no. 6/10amp SPMCB's "C" SERIES. (Each for invertor and Park lights.)		2.00	each		
c)	4 way SP DB comprising of 1 no. 20 amp DP isolator & 2 nos. 6 amp. SP MCB complete as required. (for annexe building).		1.00	each		
d).	PVC Junction box (IP - 65) for flood lights & common area lights.		70.00	each		

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5	POWER POINTS: Supply all material, storing, handling, fixing of Raw power points in suitable size of GI / PVC box including providing 1 nos 15 amps 5 pin modular power sockets to be provided controlled by 1 no 15 A moduler type switch with moduler cover plate etc complete as required including 2 X 2.5 sq. mm FRLS copper wire + 1 x 2.5 earth wire in dia 2 mm in thickness ISI Mark PVC pipe. Note: Only one RAW power point is to be provided on one circuit. (Switches : Make: Anchor/Crabtree/North-West/MK		11.00	each		
6	Providing and fixing, testing and commissioning of Heavy Duty modular air-conditioning plug & socket arrangement:					
a)	25 amp air-conditioning point modular type socket with 25 amp DPMCB C SERIES {to be fixed at Normal Height }.		5.00	each		
7	Basic electrical Wiring of light points, plug points					
	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 6Amp modular switch, modular plate (Black Colour - matte finish) , 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. (Wires Make: Havells / RR Kable / KEI/Finolex) (Switches : Make: Anchor/Crabtree/North-West/MK)					
	(Rate includes 3 x 2.5 sq.mm FRLS copper conductor, single core cable in PVC conduit for circuit/sub main wiring along with earth wire & 1 x 2.5 sq.mm copper wire including PVC pipe / conduit from 8 way MCB DB to required switch board for invertor supply).					
a)	single 6 Amp Switch (Black Colour - matte finish) controlling 1 light point for T-5, Cove light, exhaust Fans, Ceiling fan etc. and other seprate room supply.		60.00	Nos.		
b)	single 6 Amp Switch -two way (Black Colour - matte finish) controlling required lights & fanes complete as instructions.		15.00	Nos.		
c)	single 6Amp 3 pin socket (Black Colour - matte finish) controlling by 5Amp Modular switch in switch boards with switch & socket in separate switch board etc complete as required. (Independent)		12.00	Nos.		
d)	single 6Amp 3 pin socket (Black Colour - matte finish) controlling by 5Amp Modular switch in switch boards with switch & socket in separate switch board etc complete as required. (Dependent)		10.00	Nos.		
e)	Supplying and fixing including connections Fast USB Charger (Black Colour - matte finish)		6.00	Nos.		
f)	Supplying and fixing stepped type electronic fan regulator on the modular plate switch box including connections including modular plate (Black Colour - matte finish) etc as required		12.00	Nos.		
g)	Supplying and fixing bell push piano Modular type including bell switch (Black Colour - matte finish) on the switch box / cover including connections etc. as require		3.00	Nos.		

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h)	SPECIAL ELECTRICAL POINTS : (For LED TV & computer) Supply, Installation, Testing and commissioning of the concealed mounting modular type plug point for TV / Dish with the followings : a. 1 Nos. 6 A Switch + 2 Nos. 6 A, 5 pin Socket - 1 set i/c electrical connections and making good all the damages, painting, cleaning the site with 3 x 2.5 sq mm FR PVC insulated copper conductor single core multi stranded wire in HMS conduit.		5.00	Nos.		
i)	Supply & laying of RG-11 TV co-axial cable for cable TV system in 25 mm dia PVC conduit pipe in recess or on surface of wall including cutting the chases as making good the damage etc as required. (For Vertical & Horizontal runs), (from rooftop to TV location), one length will be consider as one point.		5.00	Nos.		
	Note: Lihgts/fans points to be calculated by numbers of lights and no extra cost shall be paid for dummy switch.)					
8	Wiring for telephone points with 0.5 mm dia 2 pair insulated annealed tinned electrolatic copper conductor in 2mm thick 25mm dia ISI marked PVC conduit complete with accessories such as bends, junction boxes etc. with suitable size of G.I. box modular pla		5.00	no.		
9	Supply & fixing of 10 pair FRP / PVC / Metal junction box with KRONE disconnection module necessary tag for identification.		1.00	no.		
10	Supply, installation, testing and commissioning of 10 pair telephone unarmoured cable as required. (Make-finolex/delton/polycab)		30.00	mtr.		
11	Supply, installation, testing and commissioning of CAT-6 cable in 2mm thick 25 mm dia ISI mark PVC conduit with accessories such as bends, junction boxes complete with all networking accessories etc complete as reqd. Note: flexible pipe not to be used any where.		100.00	mtr.		
12	EARTHING					
	a) Supply and fix copper plate earth station with 600X600X3mm copper plate 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. The work includes supply, fixing and termination of 3M Length 20X3 mm size copper strip with earth station below ground level etc as required.		1.00	Sets		
13	Providing and fixing of 8 SWG copper earth wire in the recess for loop earthing etc. as required.		20.00	Meter		
14	Supply and laying following dia 2 mm in thickness ISI Mark PVC pipe under floor or in recessed walls from earth electrode to UPS room for computer dedicated earthing.					
	25 mm diameter		20.00	Meter		
	AIR CONDITIONING REFRIGERATION/DRAIN WORKS					
15	Supplying & Laying of following COPPER REFRIGERANT PIPING Thickness 22 SWG For Air Conditioners units 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/Armcell)					
a)	1/4" + 1/2" Refrigerant Copper piping - For Hiwall Split AC's (1.0Tr / 1.5Tr) to be provided as per drg. (for ATM)		60.00	mtr.		

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16	Supplying & laying recessed in wall Rigid ISI Mark PVC drain pipe of size 25 mm / 32 mm 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)		40.00	mtr		
17	Supplying and providing Eletrical flexible FRLS Copper cable of 3 x 2.5sq.mm multi strand suitable for 1.0Tr / 1.5 Tr H.W Split / 2.00 Tr Cassette Multi-runs between Indoor & Outdoor units and between Metal Clads to Out door (for all AC) for electrical supply etc complete as required (Make: Havells/ RR Kable / KEI/Finolex)		90.00	mtr		
18	Supply & Installation Installation of Single phase, 220V, 1.0 HP water lifting pump / Submersible pump Motor Set (Crompton 1 HP Single Phase Self Priming Domestic Monoblock Pump- AQUAGOLD 100-33) including fitting with necessary parts as per direction of EIC. The work includes all required hardware, accesseries, plumbing itmes like elbo, union & brass Ball Valves etc.		1.00	Each		
PART- B :						
PART-VI : LIGHTS & FANS FIXTURES						
19	LIGHT OPAL GLASS WALL LAMP - Jaquar make SITC of mantioned light with essential acceries including making necessary arrangement for mounting the fixtures and connection with 2 x 1.5 sq.mm insulated copper cable from adjacent point in PVC flexible pipe etc complete as reqd. Range : Wall Lights, Code : DWL-CHR-MB14048T1E27, Description : 1 Light opal glass with chrome finish SS wall lamp. Fixture Height: 310, Standard Packaging Box: 8, Net Weight (Kg): 0.8, Lamp: E27 LED 7 W x 1, L :165, W :130, H :310, Make : Jaquar or equivalent in Philips, Havells, Surya, Shri Chand handicraft, Home lighting, light & you, Castlite industries, firdosi collection, Jagmag lights, Home Lighting, Osram, J S Enterprises.		8.00	no.		
20	DECORATIVE LIGHT (UP & DOWN BOTH FACE FOCUS) : 10/15 Watt Decorative Picture Light as directed by Bank / Architect. Sample approved by Architects. Make : Philips, Havells, Surya, Shri Chand handicraft, Home lighting, light & you, Castlite industries, firdosi collection, Jagmag lights, Home Lighting, Osram, J S Enterprises.		4.00	no.		
21	BATTEN - KUBIK ULTRA HD BATTEN - Make : Jaquar /Philips / Wipro / Havels SITC of 35 watt of specified fixtures directly on ceiling / wall including making necessary connections with 2x1.5 sq.mm insulated copper cable conductor wire etc. complete as reqd Make; Jaquar Range : LED Battens , Code : HBT-WHT-LKBU4KVS35XC Description : OTC Kubik Ultra HD Batten 35W 440V 4KV CW.		25.00	no.		
22	Mirror Light - Supply, Installation, Testing & Commissioning of 12 watt LED Mirror Light as complete as required. (Philips Make, Cat No - Mirror Light 32047/11 or equivalent.)		2.00	no.		

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23	Foot Light - SITC of 3W Led Foot light - Supply, installation, testing and commissioning of 2 modular Aluminium embedded stair step / room / garden 3 W out door / indoor LED foot light, water proff lamp , style modern. Material : Metal, colour - Warm white complete as required. PHILIPS, WIPRO, HAVELLS, CG, BAJAJ		15.00	no.		
21	CEILING FANS - SITC of 1200 mm CEILING fans complete as reqd. Khaitan HS 50 Decora 1200 Mm Ceiling Fan - white colour, Air Displacement - 220 M3/Min, Fan Speed - 350 Rpm, Fan Type - Ceiling Fan, Product Model -Decora, HS 50, HS 50 Decora, Brand - Khaitan, Color : White , Power Consumption 50 Watts. The work includes Required Fan Hook & hardware to complete the job.		9.00	no.		
22	Exhaust Fans - SITC of 200 mm exhaust fans - metal body, complete with self opening louvers / shutters including necessary frame etc, complete as reqd. (M/s Crompton High Breeze or equivalent of USHA / Bajaj)		2.00	no.		
23	LED Strip light - 4.5/5 watt of wharm white shade for cove (M/s Phillips /Wipro / Bajaj / Crompton / Havles / Osram Complete in all respects with suitable drivers.		30.00	MTR.		
24	Street Light / Flood Light - SITC of 30 watt Street light /Flood light including mounting brackets. (M/s Crompton Cat No. LSTS-30-CDL or equivalent of Philips/Wipro).		10.00	no.		
25	Gate Light - SITC Philips Azure Outdoor Gate Light including all required harware & connections. Product SKU : 919215851267		2.00	no.		
26	Bollard Light - SITC Bollard light - BCP100 LED NW 10W PSU GR M 600mm Wattage - 10W, Brand - PHILIPS, Colours - Cool white, Natural light & Warm White, Lumen - 800lm, IP65 protection, dia of 76mm insuring uniform diffused order, including all hardware.		10.00	no.		
27	SITC Musical door bell including connections (Ding - dong)		2.00	no.		
28	SITC over head storage signal / over flow bell including connections, wire in 25 mm PVC conduit from water tank to switch in kitchen area.		1.00	no.		
	TOTAL OF PART : I +II+III+IV+V (A)					
	TOTAL OF PART : VI (B)					
	TOTAL AMOUNT (A+B)					
	GST extra as per applicable					