

BOQ FOR ELECTRICAL WORKS FOR NEW BRANCH AT BAVDHAN , PUNE					
SR.	ITEM	UNIT	QTY	RATE	AMOUNT
2	MCB DISTRIBUTION BOARDS				
	SITC sheet metal fabricated & powder coated Double Door Type MCB Distribution Boards (surface/flush mounted). DB's shall have MCB/MCCB as incomer, RCCB as sub-incomer & SP/DP/TP MCB as outgoing, complete with Per Phase Isolation. All MCBs of C characteristics and 10 KA breaking capacity & ELCB's, RCCB's, RCBO's should be of 100mA sensitivity. The DB shall have appropriate no. of top & bottom knock outs for outgoing circuits & shall be complete with necessary bus bars, interconnecting terminals & earth studs. All terminations in DB shall be complete with feruling, dressing with lugs & all circuits shall be properly labeled with PVC strip (sticker type) having identification as per the final approval of the Consultant.				
2.1	SITC Mains DB,				
i)	6 way VTPN - MCB DB,	Nos.	1.00		-
ii)	63 A - TPN MCB	Nos.	1.00		-
iii)	25 A - TP MCB outgoing (LDB)	Nos.	1.00		-
iv)	40 A - TP MCB outgoing (AC DB & Spare)	Nos.	2.00		-
v)	25/32 A - SP MCB outgoing (UPS Input / Inverter DB, Signage / ATM DB)	Nos.	6.00		-
vi)	Blanking plates	Nos.	3.00		-
2.2	SITC LIGHTING DB				
i)	4 way TPN - MCB DB,	Nos.	1.00		-
ii)	25 A - FP MCB, as incomer	Nos.	1.00		-
iii)	6/10 A - SP MCB outgoing	Nos.	12.00		-
2.3	SITC RAW POWER & AC DB				
i)	4 way TPN - MCB DB,	Nos.	1.00		-
ii)	40 A - FP MCB, as incomer	Nos.	1.00		-
iii)	16/20/25/32 A - SP MCB outgoing	Nos.	12.00		-
2.4	SITC UPS DB				
i)	8 way SPN - MCB DB,	Nos.	1.00		-
ii)	32 A - DP MCB as incomer	Nos.	1.00		-
iii)	16/20A - SP MCB outgoing	Nos.	6.00		-
2.5	SITC INVERTER Lighting DB				
i)	8 way SPN - MCB DB,	Nos.	1.00		-
ii)	25 A - DP MCB as incomer	Nos.	1.00		-
iii)	6/10A - SP MCB outgoing	Nos.	4.00		-
2.6	SITC ATM UPS Output DB				
i)	6 way SPN - MCB DB,	Nos.	1.00		-
ii)	16/20 A - DP MCB as incomer	Nos.	1.00		-
iii)	10/16A - SP MCB outgoing	Nos.	2.00		-
2.7	MCB BOX				
a.	SITC 4 way - MCB with Box, for switching off the lighting DB near main gate to switch OFF all the light points after office hours				
i)	Sheet steel Enclosure Box for FP MCB	Nos.	1.00		-
ii)	32/25 A - FP MCB	Nos.	1.00		-
b.	SITC 2 way - MCB with Box, for Cassette AC, at Out Door Unit				
i)	Sheet steel Enclosure Box for DP MCB	Nos.	2.00		-
ii)	32 A - DP MCB	Nos.	2.00		-
c.	SITC 2 way - MCB with Box, for UPS Input / Output				
i)	Sheet steel Enclosure Box for DP MCB	Nos.	2.00		-
ii)	32/25 A - DP MCB	Nos.	2.00		-
d.	SITC 2 way - MCB with Box, for Signage				
i)	Sheet steel Enclosure Box for DP MCB	Nos.	1.00		-
ii)	25 A - DP MCB	Nos.	1.00		-

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SR.	ITEM	UNIT	QTY	RATE	AMOUNT
2.6	Supplying & Installing 10/20 A Modular Power Socket points complete MS concealed box, Modular Switch plate, 20A Modular Socket, controlled by a Modular 20 / 25A SP MCB with necessary screws, nylon plug, Saddles, hardware etc. including cost of 3 x 4.0 sqmm PVC insulated FRLS copper Wires and 25mm/20 mm PVC conduit, For ATM UPS & Inverter Input & Output connections	Nos.	4.00		-
	Rate in words :-				
	b) Supplying & Installing 20 A Power Socket points complete MS concealed box, Modular Switch plate, 20A Modular Socket, controlled by a Modular 20 / 25A SP MCB with necessary screws, nylon plug, Saddles, hardware etc. including cost of 2x4.0 sqmm + 1x2.5 sqmm PVC insulated FRLS copper Wires and 25mm/20 mm PVC conduit, For High Wall Split AC Units	Nos.	7.00		-
	Rate in words :-				
	c) Supplying & Installing 20 A Power Socket points complete MS concealed box, Modular Switch plate, 20A Modular Socket, controlled by a Modular 20A SP MCB with necessary screws, nylon plug, Saddles, hardware etc. including cost of 2x2.5.0 sqmm + 1x1.5 sqmm PVC insulated FRLS copper Wires and 25mm/20 mm PVC conduit, For Strong Room / Cash room Entrance as It's Lighting circuit control from outside. Lighting switch board inside the Strong room / Cash room to be connected using, 2 mets of 3 core 1.5 sq mm flexible copper cable with 15 A plug top from this power socket installed outside the room (rate should be given inclusive of flexible cable, plug top and circuit)	Nos.	1.00		-
	Rate in words :-				
A. TOTAL OF MAIN PANEL / DB's / MCCBs :-					-
B CABLES & TERMINATIONS					
	Supply and Laying of following LT cables confirming to IS 1554 (part 1) with necessary M.S. clamps. All such cables shall be provided with temporary labeling at every 20 mtr. & then finally with metal identification tags showing the size & the location from/to the specific panel/DB; at both the ends. The rate is inclusive of termination charges				
1	Aluminium Armoured Cables				
a.	4 C x 35 Sq.mm Aluminium AYFY Armoured Cables, from Pole to MSEB Meter to Main DB and from MSEB Meter Mains to Mains Power DB	Rmt	50.00		-
	Rate in words :-				
2	Copper Flexible Cables				
a.	2C x 4 Sq.mm Copper Flexible Cables, from UPS Output to UPS DB Input MCB	Rmt	10.00		-
	Rate in words :-				
b.	2C x 6 Sq.mm Copper Flexible Cables, for UPS Input	Rmt	10.00		-
	Rate in words :-				
c.	4C x 4 Sq.mm Copper Flexible Cables, from Main DB to UPS Input MCB / Main DB to Lighting DB	Rmt	10.00		-
	Rate in words :-				
d.	4C x 6 Sq.mm Copper Flexible Cables, from Mains DB to AC Power DB	Rmt	10.00		-
	Rate in words :-				
e.	3 C x 2.5 sq.mm. Cu flexible cables, for Signage	Rmt	25.00		-
	Rate in words :-				
3	Signage Timer				
	Supplying and Installing programmable Digital Timer microcontroller based with real time clock to operate on derived switching "ON" and switching "OFF" glow sign board light as per daily sunset and sunrise respectively automatically having 4 digit LED continuous time display erected in M.S. box.	No.	1.00		-
B. TOTAL OF CABLES & TERMINATIONS					-

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SR.	ITEM	UNIT	QTY	RATE	AMOUNT
C	POINT WIRING				
1	POWER POINTS				
	SITC of following concealed Power Point Wiring using 1100V grade 3C x 2.5 sq.mm. PVC insulated, PVC Sheathed White Colored flexible copper FRLS cable, laid through 20mm / 25mm size MMS Grade, PVC conduits. All cabling / conduiting below false ceiling shall be concealed. Each circuit feeding not more than 3 Tables / Work Stations). The rate shall include cabling including conduit cost from DB to mentioned Power Points. (No seperate measurements for circuit wiring & PVC Conduits)				
	a. Primary UPS points	No	5.00		-
	Rate in words :-				
	Supplying & Installing Primary UPS or Stabilized Power points on workstations / tables for computers using 3C x 2.5 Sq.mm PVC sheathed white color flexible copper FRLS cable pulled through 25mm size MMS Grade PVC conduites , laid on surface above false ceiling and taken upto table top using 25/20 mm size MMS Grade PVC rigid or flexible conduits run within wooden or metal partitions.				
	Each point consisting of 2 Nos of 6A, 5 Pin Modular sockets and 1 No. of 6/16A, 6 pin socket controlled by 1 No 20A Modular switch , wired together forming one point. Earth wire to be of Green colour only. Switch should be above table top & sockets should be below table top				
	Only 3 tables served by one circuit from UPS DB. The Rate should be including the cost of Conduits, Cables, Switch boards, internal looping wires, necessary Gang Box, PVC box, Modular Plates of other color, Modular Switches, Sockets, Compete Job with necessary screws, nylon plug, Saddles, hardware. Etc. All Switch Boards should be Properly numbered for identifications.				
	b. Secondary UPS points	No	7.00		-
	Rate in words :-				
	Supplying & Installing Secondary UPS or Stabilized Power points on workstations / table for computers using 3C x 2.5 Sq.mm PVC sheathed white color flexible FRLS copper cable pulled through 25mm size MMS Grade PVC conduites, laid on surface above false ceiling and taken upto table top using 25/20 mm size MMS Grade PVC rigid or flexible conduits run within wooden or metal partitions.				
	Each point consisting of 2 Nos of 10A, 5 Pin Modular sockets and 1 No. of 6/16A, 6 pin socket controlled by 1 No 20A Modular switch , wired together forming one point. Earth wire to be of Green colour only. Switch should be above table top & sockets should be below table top				
	for 2 table served by the same circuit from adjacent Primary point. The Rate should be including cost of Cable, Switch board internal looping wires, necessary Gang Box, PVC box, Modular Plate of other color , Modular Switches, Sockets, Compete Job with necessary screws, nylon plug, Saddles, hardware. Etc. All Switch Boards should be Properly numbered for identifications.				
	c. Primary 10/20 A power points, for Printers / Cash counting machine / Water cooler / etc	No	3.00		-
	Rate in words :-				
	Supplying & Installing Primary 10/20 A Power Socket points using 2 X 4.0 Sq.mm. + 1 X 1.0 Sq.mm. PVC insulated multistanded FRLS Grade flexible copper wires				
	(with proper color code) pulled through haevy gauge PVC conduits.				
	Each point consisting of 1 Nos of 10/20 A Modular sockets controlled by 1 Nos of 20A Modular switch , wired together forming a point. Earth wire to be of Green colour only.				
	Only 2 Sockets served by one circuit taken from Raw Power & AC DB				
2	LIGHT POINT WIRING				

BOQ FOR ELECTRICAL WORKS FOR NEW BRANCH AT BAVDHAN , PUNE					
SR.	ITEM	UNIT	QTY	RATE	AMOUNT
	SITC of following concealed point wiring using 1100V grade 3C x 1.5 sq.mm. copper conductor PVC insulated FRLS wires (with proper R,Y,B colour code) pulled through 25mm / 20mm Size, MMS Grade PVC conduits. All wiring below false ceiling shall be concealed. The wires from ceiling junction to light points shall be drawn in flexible PVC conduit with adaptor & cover for junction box & crimp type lugs at both ends. Each circuit feeding not more than average 12 points (800 watts). The rate shall include circuit wiring (2C x 2.5 sq.mm. + 1C x 1.0 sq.mm.) from Lighting DB to switchboard and to the fixtures. (No seperate measurements for circuit wiring & PVC Conduits)The First Point will be considered as Primary Point and balance points as Secondary Points.				
	a. Primary Light points, on LDB	No	35.00		-
	Rate in words :-				
	SITC 5A Primary light points including MS concealed box, grid plate, 6A switch & circuit wiring through LDB				
	b. Primary Light points, on Inverter	No	12.00		-
	Rate in words :-				
	SITC 5A Primary light points including MS concealed box, grid plate, 6A switch & circuit wiring through Inverter DB				
	c. Secondary Light points	No	30.00		-
	Rate in words :-				
	SITC 5A Secondary light points looped from primary light point. All MCB controlled light points will be considered as secondary light points.				
	d. Primary 5 A socket points	No	3.00		-
	Rate in words :-				
	SITC Primary 5 A Socket points using circuit wiring (with proper color code) pulled through medium gauge PVC conduits.				
	Each point consisting of 1 Nos of 5 A sockets controlled by 1 Nos of 6A switch , wired together forming a point with Green colour Earth wire.				
	e. Secondary 5 A socket points (on Board plug points)	No	12.00		-
	Rate in words :-				
	SITC Secondary 5 A Socket points using circuit wiring (with proper color code) pulled through haevy gauge PVC conduits. These points are installed on the Lighting Switch Board.				
	Each point consisting of 1 Nos of 5 A sockets controlled by 1 Nos of 6A switch , wired together forming a point. Earth wire to be of Green colour only.				
	f. Exhaust fan points	No	3.00		-
	Rate in words :-				
	SITC of concealed point wiring for Exhaust fan using 1100V grade 3C x 1.5 sq.mm. copper conductor PVC insulated FRLS wires				
	(with proper R,Y,B colour code) pulled through 25mm / 20mm Size, MMS Grade PVC conduits. All wiring below false ceiling shall be concealed. The wires from ceiling junction to fan points shall be drawn in flexible PVC conduit with adaptor & cover for junction box & crimp type lugs at both ends. The rate shall include circuit wiring (2C x 2.5 sq.mm. + 1C x 1.0 sq.mm.) from Lighting DB to switchboard and to the Exhaust fan and Wall fan. (No seperate measurements for circuit wiring & PVC Conduits)				
	Each Exhaust Fan will be operated on seperate switch, Rate should be including the cost of 5 A switch, 4 way closed 5A connector & Mounting Plates				
	g. Wall Fan points on Inverter	No	12.00		-
	Rate in words :-				
	SITC of concealed point wiring for Wall fan using 1100V grade 3C x 1.5 sq.mm. copper conductor PVC insulated FRLS wires				
	(with proper R,Y,B colour code) pulled through 25mm / 20mm Size, MMS Grade PVC conduits. All wiring below false ceiling shall be concealed. The wires from ceiling junction to fan points shall be drawn in flexible PVC conduit with adaptor & cover for junction box & crimp type lugs at both ends.				

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	The rate shall include circuit wiring (2C x 2.5 sq.mm. + 1C x 1.0 sq.mm.) from Lighting DB to switchboard and to the Exhaust fan and Wall fan. (No seperate measurements for circuit wiring & PVC Conduits)				
	Each wall fan will be operated on seperate switch, Rate should be including the cost of 5 A switch, 5 A socket, gang box & Mounting Plates				
h.	Ceiling fan points	No	4.00		-
	Rate in words :-				
	SITC Ceiling Fan point operated on seperate switch shall be Controlled by 2 Module, Step type Fan regulator, Rate should be including the cost of Fan hook, Suspending suitable fan rod, Connecting cord and Step type Fan Regulator				

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SR.	ITEM	UNIT	QTY	RATE	AMOUNT
i.	Bell points	No	2.00		-
	Rate in words :-				
	SITC Bell point consisting of 5A Modular Bell switch & Suitable Bell, (Bell switch to be installed in Manager Cabin and in Strong room. The Sound of both the bells should be different)				
	C. TOTAL OF POINT WIRING				-
D	FIXTURES				
	SITC of following concealed / surface mounted fixtures of makes as specified with all fixture accessories like suitable tubes/ bulbs/ ballast & internal wiring etc. The contractor has to assemble & install the said fixtures at position with necessary hardware required for installation like S-hook, chain link etc. as per requirement.				
1	LED tube lights 4'	No	12.00		-
	Rate in words :-				
	SITC 1200 mm Long Surface/Wall Mounted extruded Aluminium channels, with 20 w LED Tube light fixtures complete. Rate should be including the cost of Fixture, Suspending suitable rods, other accessories & hardware etc.				
	Make : Philips, Model : BN021 LED25S 6500 PSU GR S1,				
	Make : Crompton Model : Linea LDLL20-CDL, LDLL20-WW				
	Make : Wipro, Model : Garnet D532065, D552065				
	Make : Havells Model : E-Lite LED Pride Pus LHEXBLP7PN1W020				
2	LED tube lights 2'	No	4.00		-
	Rate in words :-				
	SITC 600 mm Long Surface/Wall Mounted extruded Aluminium channels, with 10 w LED Tube light fixtures complete. Rate should be including the cost of Fixture, Suspending suitable rods, other accessories & hardware etc.				
3	10 w Down lighter with LED	No	36.00		-
	Rate in words :-				
	SITC 10 w White Powder Coated Housing LED Round / Square Down Lighter with High Efficiency LEDs & Ballasts				
	Make : Philips, Model : Astra Prime LED 10W-6500				
	Make : Crompton, Model : Star Lord Slim-10W,				
	Make : Wipro, Model : Garnet Wave 10w, Infinity Wave 10w,				
	Make : Havells, Model : Fazer Neo 10w, Octane+ 10w,				
4	600 x 600 mm square LED panel fittings	No	15.00		-
	Rate in words :-				
	SITC 36 / 40 w LED Panel of 600mm X 600mm size, Square, Powder coated Recess mounting LED Light Fitting				
	Make : Philips, Model: RC380B G2 LED28S / RC140B G2 LED31S-6500 PSE OD WH				
	Make : Crompton, Model : LCTLR-36-CDL 36 w, LCPL-36-TL(2X2)				
	Make : Wipro, Model : Gartner D424065, D414065 CRCO10R038HP57				
	Make : Havells, Model : Venus Neo PLR36WLED865PO, Plano PLR42WLED865S				
5	Fans				
	Supplying & Installing following mentioned Aluminum, medium duty, powder coated with glossy color Ceiling Fans / Wall Fans / Exhaust Fans with necessary clamps hook, bracket, hardware etc				
a.	SITC 1200 mm sweep Ceiling fans Complete with Mounting rod, Clamps, Locking pin etc. (Color -White / Ivory / Brown)	No	4.00		-
	Rate in words :-				
b.	SITC 900 mm sweep Ceiling fans Complete with Mounting rod, Clamps, Locking pin etc. (Color -White / Ivory / Brown)	No	0.00		-
	Rate in words :-				
c.	SITC 250mm sweep Exhaust fan of metal body & blade with louvers on the outside	No	3.00		-
	Rate in words :-				
d.	SITC 400mm sweep Wall fan of 1350 RPM. Oscillating type, plastic blades chrome plated guard with speed regulator and moisture proof treatment to winding and with 'E' class insulation.	No	11.00		-

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SR.	ITEM	UNIT	QTY	RATE	AMOUNT
	Rate in words :-				
D. TOTAL OF FIXTURES					-
E EARTHING SYSTEM					
1	Plate Earthing				
	S & I of Earthing Pit / Earth Electrode Station into the true ground level by using GI / Copper Plate type earthing with necessary excavation in soft soil, including Pouring Charcoal & Salt (Approximately) 50kg each per Pit with Predrilled 50mm dia B class GI Pipe-2.5 Mtr In length, GI Funnel with wiremesh, 35 x 5mm GI/Cu Earthing Strip, Complete job with necessary construction of appropriate sized Earthing PIT masonry Chamber with providing CI hinged chamber cover, Nutbolts, Earthing Testing Link, Hardware, Numbering of Chamber by using water proof paint. For more details refer IS 3043-1987 Brazing for Cu & Welding for GI Plate to pipe & Strip shall be done with coating by anti-corrosive paint				
	b. CU Plate earthing.	No	3.00		-
	Rate in words :-				
	Copper earthing pit made up of 600 x 600 x 3 mm thick, copper electrode including 25 x 5 mm Copper strip.				
2	Earthing Wires				
	SITC of insulated copper earthing wire laid through 20 mm PVC conduits from separately made earth pit to the equipment in following sizes				
a.	Single core, 4 sqmm FRLS PVC insulated multi threaded, flexible copper wire laid through 20 mm size, MMS Grade PVC Conduites for Raw Power Earthing.	Rmt	100.00		-
	Rate in words :-				
b.	Single core, 6 sqmm FRLS PVC insulated multi threaded, flexible copper wire laid through 20 mm size, MMS Grade PVC Conduites for UPS power Earthing.	Rmt	60.00		-
	Rate in words :-				
3	Main Earth Bus	No	2.00		-
	Supplying & Installing of Main bus for isolated earth comprising of 200mm x 40mm x 6mm thick copper bar fixed on insulated support and having 20 nos of holes and				
	nut bolts studs for clamping the earth leads,all contained in MS/PVCbox of size 300mm x 200mm x 50mm deep and having transparent acrylic inspection cover as				
	Rate in words :-				
E. TOTAL OF EARTHING SYSTEM					-
F. TELEPHONE / VOICE CABLING AND OUTLETS					
1	Telephone points	No	2.00		-
	Rate in words :-				
	Providing and laying 2 Pair Grey Color 0.5mm Tinned Cu , PVC insulated cable for Telephone / Voice, laid through 20 / 25 mm size, MMS Grade PVC Conduites and Supplying & terminating with RJ-11 Telephone Jack / Outlet with face plates in suitable modular PVC / MS box from EPABX / Krone Tag Box to the work stations and terminate the other on a 10 pair Krone module installed in a Krone Tag box, complete with numbering of each cable with Ferule and Telephone Connection Chart (No seperate measurements for PVC Conduits)				
F. TOTAL OF TELEPHONE SYSTEM					-
G DATA CABLING SYSTEM					
1	Data points	No	10.00		-
	Rate in words :-				

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SR.	ITEM	UNIT	QTY	RATE	AMOUNT
	Supplying and laying D-Link / Molex / Awaya / Amps make, Cat 6 cable for Data, laid through 20/25 mm size, MMS Grade PVC conduites and providing & terminating with RJ-45 Information Outlet Ports with face plates in suitable modular PVC / MS box from Server Rack/ Patch Panel/ Data Switch to individual work stations & terminating other end with RJ-45 connector including numbering with ferule (No seperate measurements for PVC Conduits)				
2	Supplying & laying Cat-6, RJ-45, 1 m. length Data Patch Cords, Make : D-Link / Molex / Awaya Rate in words :-	No	10.00		-
3	Supplying & laying Cat-6, RJ-45, 2 met length Data Patch Cords, Make : D-Link / Molex / Awaya Rate in words :-	No	10.00		-
4	Patch panel				
a	Supplying and Installing D-Link make, preloaded, Cat-6, RJ-45, 24 Port Patch Panel, complete with terminations & numbering with ferule Rate in words :-	No	1.00		-
5	Supplying & Installing D-Link / HCL / iBall make 12-U Networking Wall mounting rack , complete with following mentioned accessories * 2U Horizontal Cable Manager * Power Distribution Unit / Power Strip of 6 Sockets * Cooling Fans * Cantilever Trays / Shelves * Hardware Packet Rate in words :-	No	1.00		-
G. TOTAL OF DATA CABLING SYSTEM					-
TOTAL FOR ELECTRICAL WORKS					-
GST			CGST		-
			SGST		-
GRAND TOTAL					-