

BOQ FOR ELECTRICAL WORKS FOR ALTERNATE BRANCH PREMISES AT AMRAVATI

Cables to be provided for UPS connection and where ever stated				
<u>FRLS Wires and Double door DBs to be provided</u>				
Type of wiring	Concealed			
Casing capping (as per approval)	Modi make/ Precision (ISI grade)			
PVC pipe and accessories	Precision / Polycab / Swastik / Anchor (ISI)			
Wires	Polycab / Finolex / R R kabel make with			
Computer DataCable	D-Link / Molex / Awaya make			
cable	Polycab / Finolex / R R kabel make (ISI)			
MCB / MCB DB	L & T, Legrand / Siemens/ IndoAsian (ISI)			
ELMCB	L & T, Legrand / Siemens / IndoAsian (ISI)			
Ft. tubes & fixtures	Philips / Wipro / Crompton / Havells / Bajaj			
Ceiling fans	Crompton Greaves / Havells / Usha			
screws	Nettlefold			
Earthing material	Strictly Bare Copper and with charcoal			
Switch fuse unit	L & T make (ISI)			
Switches/sockets & accessories	Legrand / IndoAsian /Anchor Roma			
switchboards	Concealed modular type			
Copper strip type busbar	Havells / Standard make			
ONLINE UPS	Fuji / Vertiv			
SMF Batteries	Exide / Amaron			
Offline UPS / Inverter	Microtek / Havells			
Tubular Batteries	Exide / Amaron			
SR	SUMMARY			AMOUNT
A	TOTAL OF MAIN PANEL / DB's / MCCBs :-			-
B	TOTAL OF CABLES & TERMINATIONS			-
C	TOTAL OF POINT WIRING			-
D	TOTAL OF FIXTURES			-
E	TOTAL OF EARTHING SYSTEM			-
F	TOTAL OF TELEPHONE SYSTEM			-
G	TOTAL OF DATA CABLING SYSTEM			-
	TOTAL FOR ELECTRICAL WORKS			-
	DISCOUNT OFFERED -	%		
	GRAND TOTAL FOR ELECTRICAL WORK			
				GST extra
	Amt. in Rs. : - Rs.			
				GST extra

BOQ FOR ELECTRICAL WORKS FOR ALTERNATE BRANCH PREMISES AT AMARAVATI					
SR.	ITEM	UNIT	QTY	RATE	AMOUNT
A	MAIN PANEL / DISTRIBUTION BOARDS / MCCBs :-				
1	Meter room Mains MCCB's				
	Supplying & Installing 100 A, TP MCCB in Sheet Steel Enclosure, complete with Gland Box etc				
	a.63 A TP MCCB 10kA	Nos.	1.00		-
	b. Sheet steel Enclosure Box for TP MCCB	Nos.	1.00		-
2	MCB DISTRIBUTION BOARDS				
	SITC sheet metal fabricated & powder coated 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,				
	6 way VTPN - MCB DB,	Nos.	1.00		-
	40 A - 01 no. - FP MCB as incomer	Nos.	1.00		-
	25 A - 02 no. - TP MCB outgoing	Nos.	2.00		-
	32 A/ 40 A - 03 no. - TP MCB outgoing	Nos.	3.00		-
	32 A / 40 A - 01 no. - TP MCB outgoing	Nos.	1.00		-
2.2	SITC LIGHTING DB				
	4 way TPN - MCB DB,	Nos.	1.00		-
	32 A/ 40 A - 01 no. - FP MCB as incomer	Nos.	1.00		-
	10A - 07 no. - SP MCB outgoing	Nos.	7.00		-
	16A - 4 no. - SP MCB outgoing	Nos.	4.00		-
	25A - 1 no. - SP MCB outgoing	Nos.	1.00		-
2.3	SITC RAW POWER & AC DB				
	4 way TPN - MCB DB,	Nos.	1.00		-
	40 A - 01 no. - FP MCB as incomer	Nos.	1.00		-
	20 / 25 A - 12 no. - SP MCB outgoing	Nos.	12.00		-

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SR.	ITEM	UNIT	QTY	RATE	AMOUNT
2.4	SITC UPS DB				
	12 way SPN - MCB DB,	Nos.	1.00		-
	40 A - 01 no. - DP MCB as incomer	Nos.	1.00		-
	10 A - 8 no. - SP MCB outgoing	Nos.	8.00		-
2.5	SITC INVERTER DB				
	8 way SPN - MCB DB,	Nos.	1.00		-
	25 A - 01 no. - DP MCB as incomer	Nos.	1.00		-
	10A - 6 no. - SP MCB outgoing	Nos.	6.00		-
2.6	UPS/inverter input / output DB's				
a.	SITC 4 way - MCB with Box, for UPS Input and For switching off the lightning DB near main gate to switch OFF all the light points after office hours				
	Sheet steel Enclosure Box for FP MCB	Nos.	2.00		-
	32/40 A - FP MCB	Nos.	2.00		-
b.	SITC 2 way - MCB with Box, for UPS output				
	Sheet steel Enclosure Box for DP MCB	Nos.	1.00		-
	32/40 A - DP MCB	Nos.	1.00		-
c.	SITC 2 way - MCB with Box, for Inverter Input & Output				
	Sheet steel Enclosure Box for DP MCB	Nos.	2.00		-
	32 A - DP MCB	Nos.	2.00		-
2.7	MCB BOX				
a.	SITC 4 way - MCB with Box, for switching off the lightning 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		-

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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		-
2.7	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/Cassete Split AC Units	Nos.	6.00		-
	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 cost shall include terminations of all the armoured cables using Siemens type single compression, chrome plated brass cable glands & crimp type tin copper lugs, Bimetallic lugs are to be provided wherever two different type conductors are present, Insulation tape etc. as required complete with earthing of glands.				
1	Aluminium Armoured Cables				
	4 C x 25 Sq.mm Aluminium AYFY Armoured Cables, from Pole to MSEB Meter to Main DB	Rmt	93.00		-
a.	4 C x 16 Sq.mm Aluminium AYFY Armoured Cables, from Main DB To other DB	Rmt	75.00		-
	Rate in words :-				
2	Copper Flexible Cables				
a.	3C x 4 Sq.mm Copper Flexible Cables, from UPS Output to UPS DB Incoming MCB	Rmt	36.00		-
	Rate in words :-				
b.	4C x 6 Sq.mm Copper Flexible Cables, from Mains DB to Raw Power & AC DB Incoming MCB	Rmt	36.00		-
	Rate in words :-				
c.	4C x 4 Sq.mm Copper Flexible Cables, from Main DB to UPS Input MCB & Main DB to Lighting DB Incoming MCB	Rmt	62.00		-
	Rate in words :-				
3	Flexible cables				
	Supplying & laying following size of 1.1 KV grade PVC insulated flexible copper cables through the Metallic Flexible Pipe neatly clamped where ever required using Spacer plates, GI saddles, including fixing with PVC / Brass glands and termination of cables using suitable crimp type tin copper lugs at both ends.				
a	4 C x 10 sq.mm. Cu flexible cables, for UPS Input MCB to UPS terminal	Rmt	12.00		-

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SR.	ITEM	UNIT	QTY	RATE	AMOUNT
	Rate in words :-				
b	3 C x 6 sq.mm. Cu flexible cables, <i>for UPS Output MCB to UPS terminal</i>	Rmt	12.00		-
	Rate in words :-				
c	3 C x 2.5 sq.mm. Cu flexible cables, <i>for Signage and inverter charging</i>	Rmt	136.00		-
	Rate in words :-				
d	Supplying and erecting 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				-
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	12.00		-
	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	4.00		-
	Rate in words :-				

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SR.	ITEM	UNIT	QTY	RATE	AMOUNT
	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, Complete 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 / Pantry / Hot Plate / 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 & ACDB				
d.	Secondary 5/15 A power points, for Printers / Pantry / Hot Plate / Water cooler	No	3.00		-
	Rate in words :-				
	Supplying & Installing Secondary 10/20 A Power Socket points using 2 X 2.5 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 6/16 A Modular sockets controlled by 1 Nos of 20A Modular switch , wired together forming a point. Switch should be above table top & sockets should be below table top				
	The circuit should be taken from another Primary 15 A Power Socket Point only, whose circuit taken from Raw Power & ACDB				
2	LIGHT POINT WIRING				

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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)				
a.	Primary Light points	No	46.00		-
	Rate in words : -				
	SITC 5A Primary light points including MS concealed box, grid plate, 6A switch & circuit wiring.				
b.	Secondary Light points	No	5.00		-
	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.				

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SR.	ITEM	UNIT	QTY	RATE	AMOUNT
c.	Primary 5 A socket points	No	2.00		-
	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.				
d.	Secondary / Separate 5 A socket points (other than on Board plug points)	No	5.00		-
	Rate in words :-				
	SITC Separate Secondary 5 A Socket points using circuit wiring (with proper color code) pulled through medium gauge PVC conduits. These points should be looped from the nearest Lighting Switch Board or from Primary 5A Socket Points.				
	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	18.00		-
	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/Wall Fan points	No	4.00		-
	Rate in words :-				
	SITC of concealed point wiring for Exhaust fan and 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. 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 and wall fan will be operated on seperate switch, Rate should be including the cost of 5 A switch, 4 way closed 5A connector & Mounting Plates				

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SR.	ITEM	UNIT	QTY	RATE	AMOUNT
g.	Ceiling fan points	No	5.00		-
	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				
h.	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	10.00		-
	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.				
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	18 w Down lighter with LED	No	22.00		-
	Rate in words :-				
	SITC 18 w White Powder Coated Housing LED Round / Square Down Lighter with High Efficiency LEDs & Ballasts				
	Make: Philips, Crompton ,Havells , Jaguar				
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, Crompton ,Havells , Jaguar				
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				

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SR.	ITEM	UNIT	QTY	RATE	AMOUNT
a.	SITC 1200 mm / 900 mm sweep Ceiling fans Complete with Mounting rod, Clamps, Locking pin etc. (Color -White / Ivory / Brown)	No	5.00		-
	Rate in words :-				
b.	SITC 250mm sweep Exhaust fan of metal body & blade with louvers on the outside	No	4.00		-
	Rate in words :-				
c.	SITC 400mm sweep Wall fan of 1350 RPM. Oscillating type, metal blades chrome plated guard with speed regulator and moisture proof treatment to winding and with 'E' class insulation.	No	9.00		-
	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	4.00		-
	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				
c.	Single core, 6 sqmm FRLS PVC insulated multi threaded, flexible copper cable laid through 20 mm size, MMS Grade PVC Conduites	Rmt	130.00		-
	Rate in words :-				
3	Main Earth Bus Bar	No	2.00		-

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SR.	ITEM	UNIT	QTY	RATE	AMOUNT
	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 approved by Bank / Architect.				
	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)				

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	F. TOTAL OF TELEPHONE SYSTEM				-
	G DATA CABLING SYSTEM				
1	Data points	No	10.00		-
	Rate in words :-				
	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,	No	10.00		-
	Make : D-Link / Molex / Awaya				
	Rate in words :-				
3	Supplying & laying Cat-6, RJ-45, 2 met length Data Patch Cords,	No	10.00		-
	Make : D-Link / Molex / Awaya				
	Rate in words :-				
4	Patch panel				
a.	Supplying and Installing D-Link / Disisole make, preloaded, Cat-6, RJ-45, 24 Port Patch Panel, complete with terminations & numbering	No	1.00		-
	Rate in words :-				
5	Supplying & Installing D-Link / HCL / iBall make 12-U Networking Wall mounting rack , complete with following mentioned accessories	No	1.00		-
	* 2U Horizontal Cable Manager				
	* Power Distribution Unit / Power Strip of 6 Sockets				
	* Cooling Fans				
	* Cantilever Trays / Shelves				
	* Hardware Packet				
	Rate in words :-				
	G. TOTAL OF DATA CABLING SYSTEM				-
	TOTAL FOR ELECTRICAL / DATA CABLING WORKS				-
	(Amount in Words in Rs.				-