

CANARA BANK: Regional Office, AMRAVATI

	PROJECT: BOQ ELECTRICAL WORK FOR REGIONAL OFFICE AMRAVATI				
	LOCATION: 3RD FLOOR, 3rd Floor , M/S ANSHUMAN BUILDERS, SAHAYDRI HEIGHTS, PLOT NO 03 AND 04,S. NO.25/3,25/4, MARDI ROAD, AMRAVATI				
S.No	ITEM OF WORK	Unit	Qty	Rate	AMOUNT

X	SITC of 250 Amp MCCB WITH METAL BOX INSLOURE, with 250 Amp neutral link on MOUNRING PLATE, for main supply isolation near meter and main Gate, complete with connections .	No.	1		
A.	Points & Wiring				
1	Lights Points				
	Wiring For Light Point/ Fan Point/ Wall Fan Point/ Exhaust Fan/ Light Sockets Etc. With 1.5 Sq.Mm. Pvc Insulated 1100 V Grade Copper Conductor (Frls) Wires & 1.5 Sq.Mm. Copper Earth Wire In Concealed/ Surface Using 16 Swg Ms Conduits, Accessories Such As Bends, Tees, Saddles, Draw Boxes, Mounting Boxes, Inner Plates, Cover Plates, Ceiling Rose Etc. (Wherever Required) And Chromium Plates Brass Screws/ Rowel Plug Etc. The Circuit Wiring Starting From Db To Point Control Box/ Switch Box Using 2 X 2.5 Sq.Mm Pvc Insulated 1100 V Grade Multistranded Copper Conductor Wire & 2.5 Sq.Mm. Pvc Insulated Earth Wire (Color Code To Be Used). (Flexible Conduit/ Elbow Not Allowed). The Conduit To Be Laid In Ceiling With Proper Clamps/ Wall/ Floor And Filling The Chase With Cement Mortar And Finishing The Same In Original Form/ Wooden Partition/ Above False Ceiling With Proper Clamps Etc. All Complete. (Wherever Required As Per Standard Specifications).				
	i) Each Circuit Shall Have Independent Earth Wire.				
	ii) Each Point Shall Be Earthed.				
	iii) Circuit Wiring Is To Be Included In Point Wiring Rates.				
1.1	Primary Points Controlled By One 6 Amp. Modular Switch.	Nos.	60		
1.2	Invertor points:- same as above but with grey colour wire	Nos.	30		
2	Secondary Light Points Controlled By One 6 Amp. Modular Switch. (Inverter / Direct Power supply)	Nos.	30		
3	One Call Bell Point With Ceiling Rose/ 6Amp. 3 Pin Socket Controlled By One 6 Amp. Push Modular Switch. With Call Bell	Nos.	4		
4	One Wall Fan/ Exhaust Fan Point With 6 Amp 3Pin Socket Controlled By One 6 Amp. Modular Switch. The Switch Should Be At Switchboard Level.	Nos.	25		
5	One Ceiling Fan Point With 120W Electronic Regulator	Nos.	6		

6	One 5 Pin Socket Controlled By One 6 Amp. Modular Switch Complete Assembly Includes Plate Box Etc. Dependent (Raw Points)	Nos.	20		
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7	Same As Serial No 1 But Using 2*2.5 + 1*2.5 Sq.Mm Copper				-
A	Primary Point	Nos.			-
B	Secondary Point Looped	Nos.			-
2	Power Points				-

Electrical & Network					-
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S.No	ITEM OF WORK	Unit	Qty	Rate	
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B	Same As Serial No.1, But Wiring For 16 Amp, 6-Pin Sockets By Using 2*4 Sq.Mm. Pvc Insulated 1100 V Grade Copper Conductor Wire With Independent 1* 4.0 Sq.Mm Earth Wire From D.B. To First Point 1St Socket And 1St To 2Nd, Socket With 2*2.5 Sq.Mm And 1*2.5 Earth Wire Including Providing And Fixing Of 16 Amp, 6 –Pin Socket With 16 Amp. Switch. (Modular Type Switch/ Socket/ Plate Etc. Complete Assembly) Max 2 Points Per Circuit.				-
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1	Primary Point	Nos.	35		
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2	Secondary Point	Nos.	35		
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Ac Points For Indoor & Outdoor Units (For System Indoor Units)				
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3	Same As Serial No.1, But Wiring For A/C Socket By Using 2*4 Sq.Mm. Pvc Insulated 1100 V Grade Copper Conductor Wire And Earthing With 1*2.5 Sq.Mm. Pvc Insulated 1100 V Grade Copper Conductor Wire With Modular Type Ac Box (Tiny Trip Type) With Socket Complete In All Respects Controlled By 6/10/16 Amp Sp Mcb To Be Provided Near Indoor Unit. The Point Starts From Db To The Point Near The Indoor Unit Including Top.	Nos.	17		
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4	Same As Serial No.1, But Wiring For A/C Socket By Using 2*4 For Cassate Ac	Nos.	0		
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Computer Points				
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1	Wiring With 2X2.5 Sq.Mm. + 1X2.5 Sq.Mm. Pvc Insulated 1100 V Grade Multi Stranded Copper Conductor Wires In 2 Mm Thick Pvc Conduit From Ups Db To Computer Point. Each Point To Have 2 Nos. 6 Amps. 5 Pin Modular Type Sockets, 1 Nos. 16 Amps. 5 Pin Modular Type Sockets, One 16 Amps Modular Switch With All Accessories, Inner/ Outer Plates, Metal Box Etc. And To Be Fixed On Wooden Partitions/ By Grouting On Wall Etc. As Per Requirement At Site. The Switch Should Be Fixed Above The Top Of Counter With Indicator And Sockets Under The Counter				-
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	B) Same As Above But Looped From The Above 1St Point To 2Nd, Point And 2Nd Point To 3Rd Point.				-
	(Maximum 3 Points In A Circuit)				-
1	Primary Points	Nos.	40		
2	Secondary Points	Nos.	30		
D	Wiring With 2X2.5 Sq.Mm + 1X2.5 Sq.Mm Pvc Insulated 1100 V				-
	B) Same As Above But Looped From The Above 1St Point To 2Nd Point (Maximum 2 Points In A Circuit)				-
	Primary Points	Nos.	0		-
	Secondary Points	Nos.	0		-
	Electrical & Network				-
S.No	ITEM OF WORK	Unit	Qty	Rate	
1	Telephone System				-
1.1	Wiring For Voice From Jack Panel In Data Rack To Computer Workstation With CAT 6 Cable In Pvc Conduits Of Size 20/ 25 Mm Including Providing Ferrules At Both Ends And Termination At Both Ends Including Providing & Fixing Frame For Wire With Shutter, 1 Rj 11 Outlet, Faceplate And Mounting Box Complete Of Modular Type . This Work Includes Supply And Laying Of 2Pair telephone Cable In Pvc Conduits Throughout The Length, From The I/O Hub To The Point.	Nos.	50		
1.2	Supplying, Laying, Effecting Terminations, Testing And Commissioning Of 0.51 Mm X 100 Pair Cu. Conductor, Twisted, Colour Coded With Polythene Capor Barrier, Telephone Cables In The Existing Tray Or In Conduit Including Providing & Fixing Conduit Pipe Or Cable Tray As Required From Building Tag Block To The Floor As Required.	Mtr.	100		
A)	Supplying & Fixing 100 Pair Krone Tag Block With Enclosure.	Nos.	2		
B)	P/L 20 Pair Of Pvc Insulated Pvc Sheathed Multi Core Jelly Filled	Mtr.	0		
C)	SITC Panasonic NEC 6X64 cat no 2100 or Equivalent Electronic Modular Switching System Model IPBAX SYSTEM	Nos.	1		
2	Computer Networking				
2.1	Wiring For Computer Networking From Jack Panel In Data Rack To Computer Workstation With Cat-6 Computer Cable In Pvc Conduits Of Size 20/ 25 Mm Including Providing Ferrules At Both Ends And Termination At Both Ends Including Providing & Fixing Frame For Cat-6 With Shutter, Rj 45 Outlet, Faceplate And Mounting Box Complete Of Modular Type, This Work Includes Supply And Laying Of Cat-6 Cable In Pvc Conduits Throughout The Length, From The I/O Hub To The Point.	Nos.	65		

2.2	Supplying And Fixing 24 U (Rack With Glass Door, Opening In The	Nos.	1		
2.3	Supply, Installation, Testing & Commissioning Of 24 Port Jack	Nos.	3		
2.4	Supplying And Fixing Patch Cord-2 Meter- (Dbpsmounting Cord)	Nos.	60		
2.5	Supplying And Fixing Patch Cord-1 Meter-	Nos.	60		
4	Supply, Drawing, Connecting, Testing And Commissioning Of HDMI CABLE with End Termination	Rm	25		
	Cables, Mains & Submains				
1	Supplying All Materials And Laying/ Pulling 1100 Volts Grade Pvc Insulated Copper Conductor Wires (Frls) In Ms Conduit With All Fixing Accessories After Cutting The Floor, Wall And The Like Etc. And Plastering The Floor Level To Original. Conduit Must Be 30 Mm Below The Floor Finish Level. Including End Termination Using Appropriate Lugs, Glands, Termination Accessories, Clamps Etc. As Required As Per Specification				
I	2 X 4 Sq.Mm. + 1 X 4 Sq.Mm.	Rm	42		
ii	2 X 6 Sq.Mm. + 1 X 6 Sq.Mm.	Rm	50		
iii	2 X 10 Sq.Mm. + 1 X 6 Sq.Mm. (Ups input)	Rm	58		
iii	2 X 16 Sq.Mm. + 1 X 6 Sq.Mm. (UPS OUT PUT to DP SWITCH AT Entrance door to Ups input Master DB)	Rm	65		
iv	1 X 10 Sq.Mm. Cu Wire For Earthing. (Ups Input/Output)	Rm	35		
V	Supplying, Laying, Testing & Commissioning Of 4 C X 6 Sq.Mm. At 1100 Volts Grade Pvc Insulated Copper Conductor Armoured Cable With 10 Gauge Earth Copper Wire Including Cables End Termination Using Appropriate Lugs, Glands, Termination Accessories, Clamps Etc. As Required As Per Specification (Light Db).	Rm	48		
Vi	Supplying, Laying, Testing & Commissioning Of 4 C X 10 Sq.Mm. At 1100 Volts Grade Pvc Insulated Copper Conductor Armoured Cable With 10 Gauge Earth Copper Wire Including Cables End Termination Using Appropriate Lugs, Glands, Termination Accessories, Clamps Etc. As Required As Per Specification (Power + Ac Db).	Rm	80		
Vi	Supplying, Laying, Testing & Commissioning Of 4 C X 16 Sq.Mm. At 1100 Volts Grade Pvc Insulated Copper Conductor Armoured Cable With 10 Gauge Earth Copper Wire Including Cables End Termination Using Appropriate Lugs, Glands, Termination Accessories, Clamps Etc. As Required As Per Specification (Power + Ac Db).	Rm	42		

Vi	Supplying, Laying, Testing & Commissioning Of 4 C X 35Sq.Mm. At 1100 Volts Grade Pvc Insulated Copper Conductor Armoured Cable With 10 Gauge Earth Copper Wire Including Cables End Termination Using Appropriate Lugs, Glands, Termination Accessories, Clamps Etc. As Required As Per Specification (+ Ac VRF).	Rm	48		
Vii	Supplying, Laying, Testing & Commissioning Of 3.5 C X 240Sq.Mm. At 1100 Volts Grade Pvc Insulated Aluminium Conductor Armored Cable With 10 Gauge Earth Copper Wire Including Cables End Termination Using Appropriate Lugs, Glands, Termination Accessories, Clampsetc. As Required As Per Specification. (Mains)	Rm	88		
D.	<i>Distribution Board</i>				
	Supplying, Installing, Testing & Commissioning Of Surface/Recessed Mountings, Double Door 415 Volts Tpn Mcb Distribution Board Of Steel, 1.6 Mm Thick Dust Phosphatized And Painted, Inclusive Of 100 Amps, Tinned Copper Bus Bars, Earth Bar, Common Neutral Link, Din Bar For Mounting Of Mcb'S Detachable Gland / Knock Out Plate & With Built In Loose Wire Box, And Superior Make Terminal Connectors For All Incoming And Outgoing Circuits Duly Prewired With Adequate Size Of Pvc Insulated Copper Wires Between The Bus Bars And The Mcb'S As Well As The Incomer And Upto The Terminal Connectors/ Neutral Link And Ready For Installation Of Following Ways As Required.				
	Use 'B' Curve Mcb'S For Lighting & Small Power Circuits, 'C' Curve For Motor Duty I.E. For Pumps, Ac Motors, Window And Split Ac'S Etc. & 'D' Curve For Ups Db'S I.E. For Computers/ Pc'S Circuit. Main Incomer & Outgoing Circuit Mcb'S Shall Be Selected Accordingly I.E. Type B,C & D. Contractor To Select The Mcb'S Accordingly As Per The Nature Of The Circuit/ Load.				
	Each Db Shall Have Separate Neutral Links Of Rating Not Less Than 100A For Each Phase. The Main Incoming Neutral Link Shall Be In Addition To Three Outgoing Neutral Links And Shall Be Of 125 A.				
	Ups Db'S Shall Have A Dedicated Earthing Link Fixed On Insulated Supports, Which Will Be In Addition To Body Earth Link.				
	All Internal Inter Connecting Wiring With In The Db'S Shall Be Pvc Insulated Flexible Copper Conductor Wires Of Adequate Capacity As Per The Current Rating.				
	Inside Each Db, A Db Chart Is To Be Fixed.				
A	4-Way Tpn Db (Light)	No.	2		
	Incomer:-				

	1 No. 40 Amp Tpn (10 Ka) Mcb With 40 A Dp Rccb (100 Ma) Each Phase				
	Outgoing:-				
	12 Nos.6/10 Amp (10 Ka) Sp Mcb				
B	6-Way Tpn Db (Power Db)	No.	2		
	Incomer :-				
	1 No. 63 Amp Tpn (10 Ka) Mcb				
	Outgoing :-				
	16 Nos. 10/16/25/32 Amp (10 Ka) Sp Mcb				
	1 Nos. 10/16/25/32 Amp (10 Ka) DP Mcb				
C	6-Way VTpn Db (Ac Db)	No.	1		
	Incomer :-				
	1 No. 100 Amp 16KA 4 POLE MCCB				
	Outgoing :-				
	18Nos. 10/16/25/32 Amp (10 Ka) Sp Mcb				
D	4-Way Enclosure With 63 / 40 A Fp Mcb (For Ups /Inverter Input/output)	No.	4		
E	4-Way Waterproof Enclosure With 100 A Fp Mccb (For Vrf Ac / Ac out door)	No.	2		
E..1	4-Way Waterproof Enclosure With 63A Fp Mccb (For Vrf Ac / Ac/ Fresh Air Fan etc)	No.	4		
F	18-Way Spn Db (For Ups Sub/Output Db)	No.	2		
	Incomer:-				
	1 No. 40 Amp Dp (10 Ka) Mcb				
	Outgoing:-				
	16 Nos.6/10/16/25Amp (10 Ka) Sp Mcb				
G	18-Way Spn Db (For Inverter Sub/Output Db)	No.	2		
	Incomer:-				
	1 No. 40 Amp Dp (10 Ka) Mcb				
	Outgoing:-				
	16 Nos.6/10/16/25Amp (10 Ka) Sp Mcb				
H	8-Way Spn Db (For Pantry Db)	No.	1		
	Incomer:-				
	1 No. 40 Amp Dp (10 Ka) Mcb				
	Outgoing:-				
	6 Nos.6/10/16/25Amp (10 Ka) Sp Mcb				
Electrical & Network					
S.No	ITEM OF WORK	Unit	Qty		
I	12 Way SPN MCB Db (For Ups/Inverter Master Db)	No.	2		
	Incomer:-				
	1 No. 100 Amp 16KA 2 POLE ISOLATOR				
	Outgoing:-				

	4 No. 40 Amp DP (10 Ka) Mcb				
J	Supply, Installation, Testing And Commissioning Of Pop-Up Box 4X2 Model With Switch/ Socket / Rj 45 Etc. (Legrand) along with CAT6 cable and Wiring With 2X2.5 Sq.Mm. + 1X2.5 Sq.Mm. Pvc Insulated 1100 V Grade Multi Stranded Copper Conductor Wires In Thick Pvc Conduit with Near by DB and Computer Rack	No.	4		
E	(Light Fittings & Accessories)				
	Supplying, Installation With Hanging Support, Testing And Commissioning Of Following Light Fixtures With Electronic Ballasts, Tubes, Lamps, All Fixing Materials Including Connecting Wires Etc. All Complete As Per The Directions Of Engineer-In-Charge (All Led Light Fixtures Should Be Covered With Minimum 3 Years Onsite Replacement Warranty).				
I	Led 18 W / 9W Tube 4'-0" / 2'-0" As Specified (PHILLIPS/WIPRO) Document Or Approved By Bank/Architect.	Nos.	20		
ii	Full Glow 2 X 2 Led 36/40 W Slim Smart Panel Of Make As Specified In Tender Document Or Approved By Bank/Architect. PHILLIPS/WIPRO)	Nos.	45		
iii	Supplying, Fixing, Testing And Commissioning Of 15 W Led Commercial Type Down Lighter PHILLIPS/WIPRO)	Nos.	43		
iv	Led Strip For Cove Lighting 15 W Per 5 M With Driver And Necessary Installation Fittings Led Strip Light (5 Mtr.) Make As Specified In Tender Document Or Approved By Bank/Architect. (Yellow And Blue)	PER M	75		
a	Spot light of 5x halogen lamp on track	no	6		
b	patti with cover for various areas for Cove Lighting inclusive of one driver for every 3& 5.0 Mtrs or Part there off. Profile light	Mtr.	45		
V	Supply, Installation, Testing And Commissioning Of Following Ceiling Fans With All Fixing Materials Like White Polycarbonate 2 Mm Hylem Sheet Cover, Down Rods, Fan Box As Required Etc. All Complete As Per The Directions Of Engineer-In-Charge.	Nos.	6		
B	Wall Mounted Fans 400 Mm Dia. Metal body Make As Specified In Tender Document Or Approved By Concerned Office In Charge.	Nos.	20		
C	Supply & Fixing Of 230 Mm Exhaust Fan 'Ventilair Dx W' With Self-Closing Louvers And Metal Body With All Accessories Etc. Complete Of Make As Specified In Tender Document Or Approved By Concerned Office In Charge.	Nos.	5		
	Designer LED FITTINGS with Canara Bank Logo. Size @1500x1500mm	nos	1		

F.	Earthing System				
1	Supply, Installation, Testing And Commissioning Of Maintenance Free Earthing System Made Up Of Copperbonded Rod Of 10 Feet Length,23 Mm Dia. (Minimum Copper Bonding Shall Be 0.25Mm) Along With Rod-Toconductor Connectors, Earth Enhancement Material, Pit Cover And Other Accessories As Required And As Per Specification And Other Applicable Codes (Include Chamber For Earthing, Earthing Certificate To Be Submitted Along With The Bill).	Nos	4		
2	Providing And Fixing Of Copper/ Gi Strips In Surface Or In Recess For Loop Earthing Etc. As Required.				
i	25 Mm X 3 Mm Copper Strip In B-Class Gi Pipe	Rm	120		
ii	25 Mm X 5 Mm Gi Strip	Rm	120		
iii	Providing And Fixing 1 X 6 Swg Dia. Cu Earth Wire In Pvc Conduit On Surface Or In Recess For Loop Earthing Along With The Existing Surface/ Recess Cable As Required.	Rm	120		
5	S & I 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 cover as approved by Bank / Architect.	SET	2		
G.	Main Panel And Meter Board				
	Designing, Fabrication, Supply, Installation, Testing And				
	As Per The Following Specifications, (Part Iv - Substation) And Is:				
	All Live Accessible Parts Shall Be Shrouded And All Equipment				
	Suitable Arrangement Shall Be Made For Termination Of Multiple				
	All Ka Values Indicated Shall Be Ics Breaking Capacity				
	Ga Drawings Shall Be Got Approved By Concerned Office In Charge.				
A.	Floor Panel Shall Consists Of :-				
	Incomer				
	1 No. 250 Amp.TPN MCCB 35KA -1set				
B	Busbars				
	250 Amps Tpn Pole Bus Bar Chamber Of Suitable Length With				
C	Indicating Panel				
	Digital Flush Type Class-1.0 Accuracy Multifunction Meter				
	Red/Green/Amber On/ Off/ Trip Indicating Lamps With 2A Sp				
	1 Set Of Three Phase Indicating Lamps Along With 2A Sp Mcb				
	Restricted Earth Fault Relay With 3 Nos. Current Transformers Of				

	(Numeric Relay Not Required.)				
	Under Voltage, Overvoltage & Phase Reversal Relay For				
D	Outgoings:-				
	6 Nos 125 A 4 Pole Mccb (25 Ka) adjustable Load Type Terminals Suitable To Receive Cable				
	2 Nos 100 A 4 Pole Mccb (25 Ka) Terminals Suitable To Receive Cable				
	4 Nos 63 / 40A FP MCB (10 Ka)				
	4 Nos 40 A DP Mcb (16 Ka) Terminals Suitable To Receive Cable				
	The Electrical Panel As Described Above And Specifications	Set	1		
3	Supply And Installation Of 35 Kvar Apfc Panel, Floor/Wall Mounted Front Operated Totally Enclosed Vermin Proof, Indoor Non-Drawout-Cubicle Type Power Panel Fabricated Out Of 2Mm Thk Crca Sheet Having Gasketed Hinged Cover On Each Cubicle Fully Powder Coated With Following Accessories				
A	1No.100A, Tp, MCCB As Incomer				
B	6Nos. 25A 3P Contactor				
C	6 Nos. 25A Mcb				
D	02No. 4x5 Kvar & 02 No.7.55 Kvar Capacitor				
E	Suitable Bus Bar For Connecting The Contactors And Mcb'S, Capacitors				
F	1 No. 6 Step Apfc Relay Suitable For Above Arrangement				
G	On/Off/Trip Push Button For Each Capacitor				
H	On/Off/Trip Indication Lamp For Each Capacitor				
I	1 Set, Ryb, Indicating Lamps With Resistors And Fuses For Incomer.				
	Full Set As Above	Set	1		
H	Outdoor Type Glow Sign Board Wiring				
A.	Supply Laying Of Main Line With 2X2.5 + 1X 1.5 Sq.Mm Through Ms Conduit From Main Panel	Mtr.	45		
B.	To Glow Sign Board				
	Supply Installation Of 16 Amp. Dp Mcb At Main Entrance Glow Sign Board With Timer Of Reputed Make	Nos.	2		
I	As builtdrawing in CAD format	no	1.00		
	TOTAL				

GST AS APPLICABLE



SATYAJIT RANE
ARCHITECT

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