

BILL OF QUANTITIES OF ELECTRICAL WORKS FOR NEW RO OF CANARA BANK AT CBD BELAPUR, MUMBAI .

Proposed Estimate for the Electrical works to be Carried out at New Regional office of Canara Bank at CBD Belapur.

<p>This project is one of the important project and has to be Completed within the mentioned Time duration. The vendors quoting the rates will be required to provide the documentary evidence of their purchases of the mentioned/ approved makes as mentioned in the Tender. The vendors will have to submit the PERT Chart as a Road Map for carrying out their works, thus they are ought to provide the schedule of works so that the works are completed within the given time.</p>
<p>The verification/lab test of the material can be called any time for realizing the factual status of the used materials. The contractor will prepare every shop drawings/ modals/mockup detailing the Power, Load & Current Distribution, before the works and get it approved by the Architect/Banks engineer/Consultant before starting the works. Similarly, the Vendor is required to submit every drawing of each works completed by him, along with the detail of the materials used. The costing of the commodities as under stated is based on the ISO standards & specifications of the material.</p>
<p>The Vendor is required to submit the weekly report of works in advance and get the desired approval from the Architect/consultant. The vendor is liable to get Every sample material used in the works, to be got approved by the Architect/consultant. Which does mean that the vendor is committed to use the approved materials only.</p>
<p>The contractors quoting below 15% of the estimated cost will be required to submit Performance warranty equivalent to 10% of the estimated cost of works which will only be released after the issuance of successful completion letter of the Architect/ Consultant. The cost of Providing all the related drawings, carrying the wires, cables through the cable trays, providing body earthing, Lab tests of the material, numbering the wires by ferrules, crimping the wires by using lugs are the part of the works. The inclusion of the amount incurred in doing these works is the part of the Electrical works. Nothing extra will be paid for it.</p>
<p>All the Approved design & modals of hardware's are to be of SS 302 Grade. The Nails and screws made up of SS Grade will only be permitted. The FRLS Grade of wires & Cables will only be permitted.</p>

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	<p>The vendor is required to use only, the approved make as provided in tender or get it approved before using them by the Appointed Architect/consultant in writing. The improper use of the unapproved material may lead to entire replacement of the works or imposition of the penalty as per the decision of the appointed Architect/consultant. The VENDOR has no right by whatsoever means to ask for any clarification on the amount if the penalty. He cannot even ask for the intervention of court etc. as this will be treated as the infringement of the Articles of the Tender specifications regarding the usage of material.</p>				
	<p>The Participating vendors are requested for filling authentic rates. If the Bank/ Architect/Consultant finds the rates to be not workable (In case they have quoted abnormally too high or too low) than the costing analysis will be asked by the Vendor. The cost analysis submitted by the Vendor will be analysed by the Consultant/ Architect and than only the Vendor will be issued the works. If the quoted rates are summarily below the 15 % than the provided Estimated rates than the Vendor will have to submit the Performance Bank Gurantte of 10% of the estianted cost which will only be released by the Bank after the issuance of works successful completion letter by, issued by the Consultant/ Bank Engineer. The tenderer are required to understand the Tender Guidelines before quoting for the works.</p>				
S.N	BRIEF DESCRIPTION OF WORKS	QNTY	UNIT	RATES/U NIT	GROSS AMOUNT
	<p>Responsibility of Vendor- The entire list of materials and its samples are required to be authenticated by the vendor and have a rotten approval of the same. The samples can be checked from time to time and if the samoples are not found as autheticated to be used than the vendor will either have to change the entire material on his won cost or theavy oenalty for making fasle attempt in works will be imposed by the Architect/consultant. The cost of testing of the material will be borne by the Vendor. The testing will be done by the NABL/ Government approved Lab for the purpose which will be finalised by the apponted Architect/consultant. All the wiring is to be carried out under the approved abd registerd Wireman having authentic license. The supervision of the entire works is to be carried out under the electrical engineer having atleast 5 years of working experience with a diploma on electrical engineering or BE/ Graduate degree in electrical engineering with a minimu of 2 years experience in the field.</p>				

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	<p>Electrical Wiring :- It is to be laid as shown in the design. No joints in the wires will be accepted from the switch to the source. Conduit used in wiring will be of heavy duty i.e. pure white, ISI marked. The conduit are to be laid on the Cable Trench made up of slotted angle . While quoting the rates Please take the aforesaid points in your consideration. The works are to be carried out strictly as per the drawings and designs provided. These are strictly to be done as referenced in the corresponding I.E Rules. The contractor will be required to submit the Pert Chart for completing the jobs.. All the SLDD Drawings, Panel Drawings, Distribution Boards design are got to be submitted and approved by the Engineering Consultant. The total load chart and their distribution system comprising of every detail along with Circuit Number, MCB Number as provided in practicality with the help of the ferule on site are to submitted in As-Bult form. 5 Copies of the same are required to be submitted on A1 Sheet . This is mandatory before the clearance of the Final Bill of works. This is the prestigious project and has to be carried out on fast Track basis. The time of Completion will be the essence of this project.</p>				
	<p>Note : The vendors before quoting the rates should visit the site because the dismantling of the entire Electrical works and its disposal is to be done at their end. The Buy back charges are to be quoted for the said works. The Bank will not pay any extra charges for demolition and disposal of the items, in the Branch/ Premises. The disposal is to be done as Per the local Governing body.</p>				
	<p>The costing of the commodities is based on the CPWD/DSR 2018 AND Market Rate Analysis . The contractors will be required to get the samples checked and approved by the Architect/Consultant, only.</p>				
A	Wiring				

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1	<p>Wiring of Primary electrical points using FRLS wires (2 x 1.5)sq mm + (1x1.5)sq mm Copper conductor wire in surface or recessed in medium class conduit, to give a requisite insulation. The single length wires to be laid from the switch to the source. The quoted rates shall be inclusive of 5 ampere universal modular switch fixed on modular plate with all the materials & labor required for completion of work in every aspect. Maximum of 2 Lights can be looped. Circuit wiring to be provided by using 2x2.5 sq.mm +1x2.5 sq.mm copper FRLS wires. The work is to be done in accordance with IE Rules. The body earthing of every component is required. No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid.</p>	95.00	nos.		
2	<p>Wiring of Secondary electrical points (Looping of maximum of 2 nos of 28 watt Down lighter or 4 No of 15 watt Spot light or 6 No of 9 watt, 10 No of 3 Watt Light can be looped in this case, as per the instructions of the Architect) using FRLS wires (2 x 1.5)sq mm + (1x1.5)sq mm Copper conductor wire in surface or recessed in medium class conduit, to give a required insulation. The single length wires to be laid from the switch to the source. The work is to be done in accordance with IE Rules. Circuit wiring to be provided by using 2x2.5 sq.mm +1x2.5 sq.mm copper FRLS wires. The body earthing of every component is required. No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid. The quoted rates shall be inclusive of 5 ampere universal modular switch fixed on modular plate with all the materials & labor required for completion of work in every aspect.</p>	121.00	nos		

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S.N	BRIEF DESCRIPTION OF WORKS	QNTY	UNIT	RATES/U NIT	GROSS AMOUNT
3	2 no 5 Amp Switch & 1 no 5 Socket with Indicator on the Table/Counter - - The work is to be done in accordance with IE Rules. The body earthing of every component is required . No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid. Wiring of electrical point using FRLS Wires(2x1.5) sq mm + (1x1.5) sq mm Copper conductor FRLS wire in conduit in surface or recessed in medium class conduit, to give a requisite insulation. . The single length wires to be laid from the switch to the source. Circuit wiring to be provided by using 2x2.5 sq.mm +1x2.5 sq.mm copperFRLS wires.The quoted rates shall be inclusive of 2 no of 5 ampere universal modular switch & socket in all the materials & labor with all the materials &labour required for completion of work in every aspect..The one number switch is given to connect light of the module on which its placed.	110.00	Nos		
A	1 no 15 Amp Switch & 4 no 5 Amp Socket with Indicator below the Table/Counter - - The work is to be done in accordance with IE Rules. The body earthing of every component is required . No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid. Wiring of electrical point using FRLS Wires(2x1.5) sq mm + (1x1.5) sq mm Copper conductor FRLS wire in conduit in surface or recessed in medium class conduit, to give a requisite insulation. . The single length wires to be laid from the switch to the source. Circuit wiring to be provided by using 2x2.5 sq.mm +1x2.5 sq.mm copperFRLS wires.The quoted rates shall be inclusive of 2 no of 5 ampere universal modular switch & socket in all the materials & labor with all the materials &labour required for completion of work in every aspect..The one number switch is given to connect light of the module on which its placed.	110.00	Nos		

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B	<p>5 Amp Switch & Socket wiring on Switch board- The work is to be done in accordance with IE Rules. The body earthing of every component is required . No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid. Wiring of electrical point using FRLS Wires(2x1.5) sq mm + (1x1.5) sq mm Copper conductor FRLS wire in conduit in surface or recessed in medium class conduit, to give a requisite insulation. .</p> <p>Circuit wiring to be provided by using 2x2.5 sq.mm +1x2.5 sq.mm copper FRLS wires. The single length wires to be laid from the switch to the source. The quoted rates shall be inclusive of 5 ampere universal modular switch & socket in all the materials & labor with all the materials & labour required for completion of work in every aspect.</p>	25.00	nos.		
4	<p>Wiring of Power points using FRLS wires (2x2.5) sq mm + (1x2.5) sq mm Copper conductor FRLS wire in medium class conduit to give a requisite insulation. The quoted rates are for the wiring points to be considered from switch to source, as as a single point. The rates shall be inclusive of 15 ampere universal modular switch & socket fixed on modular plate with all the materials & labor required for completion of work in every aspect. The work is to be done in accordance with IE Rules. The body earthing of every component is required. Circuit wiring to be provided by using 2x4 sq.mm + 1x4 sq.mm copper FRLS wires. No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid.</p>	12.00	nos		

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5	<p>Table Wiring - 1no 15/16 Amp Switch, 1 no 5 Amp Switch & Socket wiring along with an Indicator is required to be provided on 5 Modular Plate. This Point wiring is to be done by using FRLS Wires(2x2.5) sq mm + (1x1.5) sq mm Copper conductor FRLS wire in conduit in surface or recessed in medium class conduit, to give a requisite insulation. The quoted rates shall be inclusive of all the materials & labor required for completion of work in every aspect, including the drawing of circuit for wiring by looping maximum of 3 Points on a single circuit. The single length wires to be laid from the switch to the source. The work is to be done in accordance with IE Rules. The body earthing of every component is required. No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid. The quoted rates shall be inclusive of all the materials & labor required for completion of work in every aspect, including the drawing circuit for wiring by looping maximum of 3 Tables on a single circuit. Circuit wiring to be provided by using 2x2.5 sq.mm +1x2.5 sq.mm copper FRLS wires.. These are to be provided above each table with Power switch meant for control of UPS Switch board/wiring, provided below the table while the other 5 Amp switch socket and the the Indicator being controlled by the direct circuit line from the Main Light/Power DB.</p>	0.00	nos.		

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S.N	BRIEF DESCRIPTION OF WORKS	QNTY	UNIT	RATES/UNIT	GROSS AMOUNT
6	<p>Wiring For VRV INDOOR UNITS 5 Amp Switch & Universal Socket wiring - The work is to be done in accordance with IE Rules. The body earthing of every component is required . No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid. Wiring of electrical point using FRLS Wires(2x1.5) sq mm + (1x1.5) sq mm Copper conductor FRLS wire in conduit in surface or recessed in medium class conduit, to give a requisite insulation. . The single length wires to be laid from the switch to the source. Circuit wiring to be provided by using 2x2.5 sq.mm +1x2.5 sq.mm copperFRLS wires. The quoted rates shall be inclusive of 5 ampere universal modular switch & socket in all the materials & labor with all the materials &labour required for completion of work in every aspect..</p>	26.00	nos		
7	<p>Wiring of A.C. points The work is to be done in accordance with IE Rules. The body earthing of every component is required . No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid. A.C. points using FRLS wires (2x 4) sq mm + (1x2.5) sq mm Copper conductor FRLS wire in a medium class conduit, to give a requisite insulation. Circuit wiring to be provided by using 2x6 sq.mm +1x6 sq.mm copperFRLS wires. The single length wires to be laid from the switch to the source. The quoted rates shall be inclusive of A.C. switch & socket of Havels' or equivalent make as prescribed in material list, to be fitted in an enclosure having 32 ampere MCB enclosed in a box with all the materials &labour required for completion of work in every aspect.</p>	0.00	nos.		

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8	<p>Wiring of Exhaust fan points using FRLS wires(2x 1.5) sq mm + (1x1.5) sq mm Copper conductor FRLS wire in surface or recessed in medium class conduit, to give a requisite insulation. . The single length wires to be laid from the switch to the source. The quoted rates shall be inclusive of 5 ampere universal modular switch & socket in all the materials & labor with all the materials & labour required for completion of work in every aspect..having wall thickness of 2mm, to give a requisite insulation. The single length wires to be laid from the switch to the source. Circuit wiring to be provided by using 2x2.5 sq.mm +1x2.5 sq.mm copperFRLS wires.The work is to be done in accordance with IE Rules. The body earthing of every component is required . No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid.</p>	9	nos.		
9	<p>Wiring of Wall fans/Ceiling fans using FRLS Wires (2 x 1.5) sq mm + (1x1.5) sq mm Copper conductor FRLS wire in surface or recessed in medium class conduit, to give a requisite insulation. . The single length wires to be laid from the switch to the source. The quoted rates shall be inclusive of 5 ampere universal modular switch & socket in all the materials & labor with all the materials & labour required for completion of work in every aspect..having wall thickness of 2mm, to give a requisite insulation. The single length wires to be laid from the switch to the source. The work is to be done in accordance with IE Rules. The body earthing of every component is required . No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid.</p>	21.00	nos.		

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S.N	BRIEF DESCRIPTION OF WORKS	QNTY	UNIT	RATES/U NIT	GROSS AMOUNT
10	Wiring of Bell points: The work is to be done in accordance with IE Rules. The body earthing of every component is required . No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid. Bell points including the cost of the Bell, using FRLS Wires(2x1.5) sq mm + (1x1.5) sq mm Copper conductor FRLS wire in conduit in surface or recessed in medium class conduit, to give a requisite insulation. . The single length wires to be laid from the switch to the source. The quoted rates shall be inclusive of 5 ampere universal modular switch & socket in all the materials & labor with all the materials & labour required for completion of work in every aspect..having wall thickness of 2mm, to give a requisite insulation. The single length wires to be laid from the switch to the source.	8.00	nos.		
11	Wiring of Glow sign Board by using FRLS Wires 3 X 1.5 mm +1x 1.5 mm wire for earthing. These are to be conducted through a conduit having wall thickness of 2mm, . The connections are to be made using the timer and directly through DPMCB of 10 Amp in a panel board to the source.The quoted rates include providing all the accessories such as timer, Wires ,conduit& doing its wiring to the satisfaction of the architect/Consultant. The work is to be done in accordance with IE Rules. The body earthing of every component is required . No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid.	2.00	nos.		
12	PANEL BOARDS				

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S.N	BRIEF DESCRIPTION OF WORKS	QNTY	UNIT	RATES/UNIT	GROSS AMOUNT
	<p>Panel Board:- The panel board of 4ftx 6ft x 1ft depth, size shall be made up of MS Sheet of 16 gauge, duly Powder coated with Siemens Green Colour, having suitable Compartments for fitting of following enclosures, Placed on the bakelite sheet with proper Lock and key arrangement. The work is to be done in accordance with IE Rules. The body earthing of every component is required. No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid. The works will include suitable power factor panel with suitable relays and capacitors sufficient enough for 149 KW load.</p>	1.00	Nos		
	<p>load Change over--- 250 Amp, 4 Pole -1 no</p> <ul style="list-style-type: none"> · MCCB - 250 Amp, 4 Pole,-1 no. of 35 KA FOR MAIN PANEL · MCCB - 100 Amp, 4 Pole,-1 no. of 35 KA FOR MSME SUB MAIN PANEL · MCCB - 200 Amp - 1 No 35 KA, for Power Factor Panel (The rates of this Panel will include Providing/Supplying /installing of Power Factor Panel suitable for 140 KW Load. · Copper bus bars suitable for 400 amperes. · LCD of RYB - 2 sets . · Digital Voltmeter & Ammeter with the selector switch - 1Set, each for Incoming and Outgoing supply. TPNMCB 5 Nos of 63 Amps. DPMCB 5 Nos of 40 Amps TPNMCB 4 Nos of 40 Amps & 8 nos of 32 Amps 				

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	The abovementioned electrical gadgets must be enclosed in a panel board. The panel board shall have a proper lock & key arrangement .Load should be equally divided on each phase. The internal wiring of the panel board is to be done by 25 mm copper wire. Thimbles should be used while terminating the wire. The Line Diagram to be engrossed in the internal door of the Panel Board. Ferules numbering the wires to be done properly .				
13	APFC PANEL - The work is to be done in accordance with IE Rules. The body earthing of every component is required . No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid. Supply and installation of Suitable 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 suitable 3 Pole contactors suitable MCB set suitable capacitors Suitable bus bar for connecting the contactors and MCB's, Capacitors 1 no. 4 step APFC relay suitable for above arrangement ON/OFF/TRIP push button for each capacitor ON/OFF/TRIP indication lamp for each capacitor 1 Set, RYB, indicating lamps with resistors and fuses for incomer.	1.00	No		
	Circuit Distribution				

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14	<p>Distribution Board for MSME Unit:- Providing and commissioning of 8 way TPNDB Double Door Having following elements. Thimbles should be used while terminating the wires. The work should be complete in all respects. MCB WITH BREAKING CAPACITY OF 6K . TPNDB 8 way comprising of the following enclosures:</p> <p>TPN MCB- 63 ampere - 1 no. :MCB - 32 ampere- 6 no. . :MCB - 25 ampere- 6 no. :MCB - 20 ampere- 6 no. :MCB - 15 ampere- 6 no.</p> <p>The TPNDB box must be flushed to wall. The Distribution board should be of Havells, legrand, L&T etc as mentioned in the material list.</p>	1	No		
15	<p>Distribution Board for VRV System :-Providing and commissioning of WEATHER SHIELD DISTRIBUTION BOX for VRV. This will have 63 Amp TPNDB as Incomer while the other SPMCB/DPMCB as outgoing as suggested by the make used by VRV Vendor. Thimbles should be used while terminating the wires. The work should be complete in all respects. MCB WITH BREAKING CAPACITY OF 6K . TPNDBà 6 way comprising of the following enclosures:</p>	2.00	Nos		

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16	<p>Distribution Board for Light & Power wiring :- Providing and commissioning of 8 Way TPNDB (double door) Having following elements. Thimbles should be used while terminating the wires. The work should be complete in all respects. MCB WITH BREAKING CAPACITY OF 6K · TPNDB 4 way comprising of the following enclosures:</p> <p>TPN- 40 ampere - 1 no. MCB -15 ampere- 8 no. · MCB -20 ampere- 8 no. MCB - 10 ampere - 8 Nos</p> <p>The TPNDB box must be flushed to wall. The Distribution board should be of Havells, legrand, L&T etc as mentioned in the material list. <u>2 FOR LIGHT & POWER.</u> The work is to be done in accordance with IE Rules. The body earthing of every component is required . No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid.</p>	4	nos.		
17	<p>Distribution Board For Computer/UPS Wiring - Providing and commissioning of 8 Way, Single door, SPNDB Having following elements. Thimbles should be used while terminating the wires. The work should be complete in all respects. SPNDB should comprise of the 8 number of SPMCB(5-15 Amp) of suitable rating and 1 No DPMCB of 40 Amp . Thimbles should be used while terminating the wire. The quoted rates includes the wiring of the same & flushing the SPMCB in a wall . The Distribution board should be of Havells, legrand, L&T etc as mentioned in the material list. The work is to be done in accordance with IE Rules. The body earthing of every component is required . No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid.</p>	4	nos.		

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18	S & I of SPN, DB for distribution of input power to UPSs as per SLD having below mentioned switchgears (Earth bar inside these DB should be insulated from the body) For UPS Room .The work is to be done in accordance with IE Rules. The body earthing of every component is required . No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid.	4	Nos		
	1 no, 63A, DP, Isolator incomer				
	3 Nos. 40A, DP, MCB, outgoing				
19	Earthing:- The work is to be done in accordance with IE Rules. The body earthing of every component is required . No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid. This process includes digging of a pit of 2ft x 2 ft and 10' ft deep in the earth. Slurry of wood charcoal & salt made by pouring water into it is then filled in the pit at a depth of 4 feet. Earth plate made of copper of size 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc.is then embedded on the slurry. This plate is bolted by the 3 bolts with chuck nuts to a GI strip of 25mm x 3mm thick. This strip at one end is terminated to the plate while its other end is clamped at -3 inch depth (Earth surface is considered as zero and all heights/depths are measured w.r.t. this zero level earth surface. A GI pipe of 3" diameter having staggered holes along its length is then vertically erected in the pit. The GI strip & the GI pipe hold each other tightly. The chamber of 1x1 sqft is flushed on the earth level to cover the pit in a manner that a funnel resting on the pipe emerges whenever the chamber is opened to pour the water through the funnel, passing through a GI pipe & finally reaching to the slurry to impart adequate moisture	2	nos		

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	A potential difference must be between 0 to 3 volt or less than 0.5 Ohms. The rates include the total labour & requisite material in achieving the aforesaid earthing to the satisfaction of the architect/Consultant and in perfect relevance to the I.E Rules.				
A	The linear measurement of GI strip of the size 25mm x 3mm running from the pit to the panel board.	21.00	Rmtrs		
B	The linear measurement of GI wire of 12 SWG gauge used for providing earthing for ceiling ,distribution boards etc.	35.00	Rmtrs.		
20	Floor Race aways / Junctions/ Cable trays				
A	S & I of floor - raceways consisting of 2 Nos of 3" x 1.5"x 3mm thick rectangular aluminium anodized box sections including chasing but to be cumulatively counted.. Refilling as per the route shown in the drawing and as approved by consultant at site including clamping at every open pipe ends by suitable plastic end covers against entry of dust or anyother foreign material. The work is to be done in accordance with IE Rules. The body earthing of every component is required . Cutting the existing floor, making the proper depth in it of suitable size, waterproofing the created depth and plastering to have he evn levels albeit all the required civil works are the part of this Job. Nothing extra will be paid for providing and commissioning this item. No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid.	125.00	Mtr		

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S.N	BRIEF DESCRIPTION OF WORKS	QNTY	UNIT	RATES/UNIT	GROSS AMOUNT
B	S & I of galvanised 4 way floor junction boxes with SS brushed finish 14 SWG (2mm Thick) cover properly fixed with screws, for above mentioned raceways, of size 300mm x 300mm x 2.5 mm depth, fabricated out of 2.5 mm thick G.I. sheet with proper cutouts on the sides for pipe entry & screwed top cover with rubber gasket and suitable knockouts for flexible conduit outlets as per the drawing enclosed. Cutting the existing floor, making the proper depth in it of suitable size, waterproofing the created depth and plastering to have the even levels albeit all the required civil works are the part of this job. Nothing extra will be paid for providing and commissioning this item.	22.00	Nos		
C	S&I of bolted rung type pre-galvanized ladder cable trays hung from the ceiling using MS suspenders including bolts & nuts with necessary accessories like cable binders, hook clamps etc. to hold the cables and including necessary bends, joint connectors etc. as per the route shown in the drawing and as approved by Bank / consultant at site.. All the civil part and making connections/joints good are part of the works. Nothing extra will be paid for the this module, to make it perfect in all terms.				
	1.6mm thick, 50mm height & 100 width	55.00	Rmtr		
	1.6mm thick, 50mm height & 150 width	65.00	Rmtr		
	Light fittings and accessories				
21	Light Fittings :- Providing & fixing recessed light fixtures of Philips,Wipro, Havells , Syska make (with LED Panel light having Warm Light, Neutral light, Bright white light etc. suitably fitted & complete in all respects) - Resembling Havells ,Brilliance, Lukar make/ equivalent for 9/10 Watts . IRIS SLIM PANEL (LNPR09)	123.00	nos.		

BILL OF QUANTITIES OF ELECTRICAL WORKS FOR NEW RO OF CANARA BANK AT CBD BELAPUR, MUMBAI .

S.N	BRIEF DESCRIPTION OF WORKS	QNTY	UNIT	RATES/U NIT	GROSS AMOUNT
22	Providing & fixing recessed light fixtures of Philips,Wipro, Havells , Syska make (with LED Panel light having Warm Light, Neutral light, Bright white light etc. suitably fitted & complete in all respects) - Resembling Havells ,Brilliance ,Lukar make/ equivalent for 15 Watts . IRIS SLIM PANEL (LNPR15)	44.00	nos.		
23	Providing & fixing recessed light fixtures of Philips,Wipro, Havells , Syska make (with LED Panel light having Warm Light, Neutral light, Bright white light etc. suitably fitted & complete in all respects) - Resembling Havells ,Brilliance ,Lukar make/ equivalent for 28 Watts . IRIS SLIM PANEL (LNPS30)	88.00	nos.		
24	Providing & fixing recessed light fixtures of Philips,Wipro, Havells , Syska make (with LED Panel light having Warm Light, Neutral light, Bright white light etc. suitably fitted & complete in all respects) - Resembling Havells ,Brilliance ,Lukar make/ equivalent for 3 Watts . IRIS SLIM PANEL (LNPR03)	100.00	nos.		
25	Providing & fixing LED Profile Light of a reputed make, with their adaptor, commissioned as per requirement. The works are required to be completed in all respects for the light source to be functional by all standards of works . The make of Philips,Wipro, Crompton Greeves, as mentioned in the material list are permissible.	215.00	mtrs		
26	Providing & fixing Picture Tube Light (T5 Series)of a reputed make, LED Tube Light (Endura 28 Watt 2 ft) make Havells, completely fitted in all respects of Philips,Wipro, Crompton Greeves , Lukar, as mentioned in the material list are permissible.	55.00	nos		

BILL OF QUANTITIES OF ELECTRICAL WORKS FOR NEW RO OF CANARA BANK AT CBD BELAPUR, MUMBAI .

S.N	BRIEF DESCRIPTION OF WORKS	QNTY	UNIT	RATES/UNIT	GROSS AMOUNT
27	Providing & fixing of energy saving Patti tube light (T5 Series), LED Endura 28 Watt 4 ft. or equivalent i.e. Philips, Wipro, Lukar , as mentioned in the material list are permissible. (LT5M24)	10.00	nos.		
28	P/f & Commission of Exhaust fan of (225mm) : Make of Crompton Greaves Drifair 3 Blade (225mm) or Equivalent at the required place. The installation includes all the Civil work/repairs required to be done for the said purpose. The make of Bajaj, Havells, Crompton Greaves, Khaitan , as mentioned in the material list are Permissible for the pupose.	9.00	nos		
29	P/f & Commission of wall fan (16" dia) having two chords , one for Swing and one for Speed regulation . Resembling or equivalent to Orient make :400 mm Snow Fall 16WB01 (Snow White).The wall fan must be properly fixed in wall and all the necessary walls are to be completed in order to make the fan in ready to use Condition.The make of Bajaj, Havells, Crompton Greaves, Khaitan , as mentioned in the material list are Permissible for the pupose.	15.00	nos		
30	P/f & Commission of Ceiling fan (28" dia) .The Ceiling fan must be properly fixed in Ceiling and all the necessary walls are to be completed in order to make the fan in ready to use Condition.Having step up regulator.The make of Bajaj, Havells, Crompton Greaves, Khaitan , as mentioned in the material list are Permissible for the pupose.	6.0	nos.		
	Cable & Circuit wiring				

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S.N	BRIEF DESCRIPTION OF WORKS	QNTY	UNIT	RATES/U NIT	GROSS AMOUNT
31	<p>Cable from metre room to Main Panel Board - These works are to be done (confirming to IS 1554 Part 1 ammended to date) - This includes laying of FRLS cables /wires, earthing the glands crimping with copper lugs, using insulation tape etc to complete the entire job to the full satisfaction of the Architect/ engineer</p> <p align="center">Supplying/commissioning</p> <p>150 Sqmm 3.5 core copper armored cable of approved make & modal from Main source of Supply to Metre/ Panel Board.The Works includes crimping and earthing the Brass glands of appropriate sizes and numbering with ferrules. The work is to be done in accordance with IE Rules. The body earthing of every component is required . No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid.</p>	15.00	Rmtrs.		
31. A	<p>Cable form Main Panel To 8 WAY TPNDB FOR MSME OFFICE SUPPLY --</p> <p>The 4 Core 25 Sqmm copper armored cable, will used for these circuits. The work is to be done in accordance with IE Rules. The body earthing of every component is required . No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid. This includes laying of FRLS cables /wires, earthing the glands crimping with copper lugs, using insulation tape etc to complete the entire job to the full satisfaction of the Architect/ engineer . Supplying/ commissioning 6 Sqmm 4 core Copper armored cable from Main Supply Panel Board to respective DB's with 2 No SWG Copper wire for Earthing.Worksincludes crimping and earthing the glands and numbering with ferrules</p>	47.00	Rmtr		

BILL OF QUANTITIES OF ELECTRICAL WORKS FOR NEW RO OF CANARA BANK AT CBD BELAPUR, MUMBAI.

S.N	BRIEF DESCRIPTION OF WORKS	QNTY	UNIT	RATES/U NIT	GROSS AMOUNT
32	Cable form Main Panel To Light & Power DB - The 4 Core 10 Sqmm copper armored cable , will used for these circuits. The work is to be done in accordance with IE Rules. The body earthing of every component is required . No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid. This includes laying of FRLS cables/ wires, earthing the glands crimping with copper lugs, using insulation tape etc to complete the entire job to the full satisfaction of the Architect/ engineer . Supplying/ commissioning 6 Sqmm 4 core Copper armored cable from Main Supply Panel Board to respective DB's with 2 No SWG Copper wire for Earthing. Works includes crimping and earthing the glands and numbering with ferules	175.00	Rmtrs		
33	Cable From Main Panel to AC DB - The work is to be done in accordance with IE Rules. The body earthing of every component is required . No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid. Supplying/commissioning of 16 sq mm 4 core copper armored FRLS cable from panel board to AC DB with 2 No SWG Copper wire for Earthing, Works includes crimping and earthing the copper glands and numbering with ferules	265.00	Rmtrs.		
34	Cable from Main Panel to SPNDB - Supplying/commissioning 6 sq mm 3 core copper armored FRLS cable from panel board to the respective SPNDB distribution boards with 2 No SWG Copper wire for Earthing, Works includes crimping and earthing the copper glands and numbering with ferules . The work is to be done in accordance with IE Rules. The body earthing of every component is required . No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid.	180.00	Rmtrs.		

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S.N	BRIEF DESCRIPTION OF WORKS	QNTY	UNIT	RATES/UNIT	GROSS AMOUNT
35	Circuit wiring of Light Boards/UPS Boards/- The work is to be done in accordance with IE Rules. The body earthing of every component is required . No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid. Providing/Supplying/commissioning of (2 x 2.5)sq mm + (2 x 2.5) sq mm Copper FRLS wire for circuit wiring of 5 ampere switch boards . Wires not considered cumulative, in length.	665.00	Rmtrs		
36	Circuit wiring of Power Boards & Sockets - Providing/Supplying/commissioning of (2 x 6)sq mm + (1 x 4)sq mm Copper FRLS Wire for circuit wiring of power boards. Wires not considered cumulative in length. The work is to be done in accordance with IE Rules. The body earthing of every component is required . Wires not considered cumulative, in length. No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid.	215.00	Rmtrs		
37	Telephone wiring :- The work is to be done in accordance with IE Rules. The body earthing of every component is required . No extra payments for any possible description left, for making the works completed as Per their IS Code will be asked or paid. Providing/laying 10 pair telephone line in a conduit with RJ 11 connector /sockets etc. to be positioned as per the requirement of the architect/Consultant. The telephone line to be distributed using the appropriate Telephone Tag box (Quantity as required for 45 connections), of Krone or equivalent make. Crimping of wires with ferules etc. are part of the job. The completion of works means completing, checking the works in ready to use condition.	25.00	points.		

BILL OF QUANTITIES OF ELECTRICAL WORKS FOR NEW RO OF CANARA BANK AT CBD BELAPUR, MUMBAI.

S.N	BRIEF DESCRIPTION OF WORKS	QNTY	UNIT	RATES/U NIT	GROSS AMOUNT
	TOTAL COST OF ELECTRICAL WORK (In Rs)				
38	Buy Back Charges of Old wires, Cables. Switxn Boards etc. to be deducted from the Bill for Purchasing of the electrical items in the Branch/ Premises. (In Rs)	1	JOB		
	Net Total Value of the works after deducting the Buy Back Charges (In Rs)				

<p>Discount If Any (In Percent)</p> <p>Amount Tendered after deduction of Discount (If any)</p> <p>GST Charges - (In Rs)</p> <p>Net Total Amount of works in Figure</p> <p>Total Net Amount Tendered - In figures</p> <p>In words - _____</p>

Tender Estimate By
M/s Bhavana Enterprises Pvt Ltd.
An Enterprises of Architects, Valuers Interior Designers

Seal with Signature
Authorized Signatory
On behalf of the Tenderer.