



इलाहाबाद

ALLAHABAD

अंचल कार्यालय, मुजफ्फरपुर / ZONAL OFFICE, MUZAFFARPUR

NOTICE INVITING TENDER

**SUB: LIMITED TENDER FOR ELECTRICAL/NETWORKING WORK OF
RAMPC, MUZAFFARPUR UNDER MUZAFFARPUR ZONE**

Under limited tender enquiry, competitive sealed bids in two bid systems (Technical and Financial) are invited in the prescribed format from panel Vendors/ Contractors/ Agencies of Indian Bank/ erstwhile Allahabad Bank who are presently established/ authorized to work within the state of Bihar.

Formats of tender document are enclosed for submission of Electrical/ Networking Work of RAMPC, Muzaffarpur District- Muzaffarpur. Full details and tender documents are available in Bank's website www.indianbank.in or can be obtained from Zonal Office Muzaffarpur. Duly filled tenders should be submitted as per following schedule:

1	Issue of Tender Document	From 14.06.2021 to 28.06.2021
2	Submission of Tender	On or before 28.06.2021 at 5.00 PM at ZO Muzaffarpur
	Pre bid meeting	22.06.2021 at 12:30 PM, Place: ZO, Muzaffarpur
3	Opening of Technical Bid	On 29.06.2021 at 4.00 PM at ZO Muzaffarpur
4	Opening of Financial Bids	Will be intimated separately to successful bidders who qualify the Technical Bid.
5	Date of Commencement of work	7 days from the date of issue of letter awarding the job
6	Time of Completion	30 days
7	Defect Liability Period	12 months
8	Earnest Money Deposit	Rs. 10,000/- in form of DD in favour of Indian Bank payable at Muzaffarpur
9	Liquidated Damages for delay	Rs.2000/- per day subject to Max. of 10% of accepted contract amount. (If the work is not completed to the satisfaction of the Employer within the stipulated period the contractor shall be bound to pay to the employer a sum equivalent to Rs.3000/- per day subject to ceiling of 10% of the accepted contract amount by way of liquidated damages and not as penalty during which the work remains un-commenced or unfinished after expiry of the completion date.
10	Payment Terms	Neither any advance nor any interim payment will be made. Payment will be made on satisfactory completion of the job on the basis of actual measurement. TDS will be deducted as per Income Tax rules. Retention Money 10% will be deducted from the bill and to be released after 12 months from the date of virtual completion provided no defects is observed during this period.
11	Technical and Financial Bids	Technical bids (Containing Letter of empanelment, Experience certificate and earnest money deposit) should be kept in a separate envelope super scribing < Technical Bid for Electrical/Networking Work at RAMPC, Muzaffarpur> and financial bids in a separate envelope super scribing <Financial Bid for Electrical/Networking Work at RAMPC, Muzaffarpur> , failing which, may lead to disqualification of tender.
12	Document to be attached with the bill	Manager's completion certificate, manufacture certification Bills & 4-5 photographs showing completion status of work.
13	Retention Money	10% (Including Earnest money)

The Bank will not be bound to accept the lowest tender and reserves the right to accept or reject any or all the tender without assigning any reason whatsoever. Late/delayed tender shall not be accepted after due date and time submission of tender.

Zonal Manager





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CLIENT

INDIAN BANK

ZONAL OFFICE, MUZAFFARPUR

PREMISES DEPARTMENT

OM SHANTI COMPLEX, NEAR ZILA SCHOOL

PO -RAMNA DISTT- MUZAFFARPUR

WORK/ PROJECT

PROPOSED ELECTRICAL/NETWORKING WORKS AT RAMPC, MUZAFFARPUR

COMPETATIVE BID – TECHNICAL/ FINANCIAL

FOR ELECTRICAL/NETWORKING WORKS AT ABOVE PROJECT

Submitted by (Bidder)

M/s

Address.....
.....

Contact No.....

Tender issued on.....

Last Date of Submission.....

Signature of the Contractor/ Vendor/ Agency

Seal



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NOTICE INVITING TENDER

WORK: LIMITED TENDER FOR ELECTRICAL/NETWORKING WORK OF
RAMPC, MUZAFFARPUR UNDER MUZAFFARPUR ZONE

General terms & Conditions:-

- 1) Sealed Bids (Technical and financial) should be addressed to The Zonal Manager, Indian Bank, Zonal Office Muzaffarpur and super scribed name of work **ELECTRICAL/NETWORKING WORK OF RAMPC, Muzaffarpur**, at **BMP 6, Pusa Road, Kanhauli (In front of Reliance Tower) District- Muzaffarpur, Bihar** and should reach before 05:00 pm on 28.06.2021 at Zonal Office Muzaffarpur.
Mailing Address:
The Zonal Manager,
INDIAN BANK
Zonal Office Muzaffarpur
Om Shanti Complex, Near Zila School
PO Ramna Distt Muzaffarpur-842002
- 2) Technical bids (Containing Letter of empanelment, Experience certificate and earnest money deposit) should be kept in a separate envelope super scribing < **Technical Bid for Electrical/ Networking Work at RAMPC, Muzaffarpur**> and financial bids in a separate envelope super scribing < **Financial Bid for Electrical/ Networking Work at RAMPC, Muzaffarpur**>, then both the envelopes are to be kept inside a single envelop scribing details of work and name of bidder. Failing which, may lead to disqualification of tender.
- 3) No quotation will be accepted after 05:00 pm on 28.06.2021 and quotations will be opened on 29.06.2021 at 04:00 PM unless otherwise informed.
- 4) The quotations will remain valid for a period of 3 Months from the date of opening.
- 5) Bank reserves the right to accept or reject any or all the quotations accept part of any tender, entrust the entire work to any contractor or divide the work to more than one contractor (item wise) without assigning any reason to do so or giving Explanation. The rates quoted by the contractor will help well for bifurcation and no compensation will be paid on this account.
- 6) At the time of submission every quotation must be accompanied by DD/BPO for an amount of Rs.10,000/- in favor of INDIAN BANK payable at Muzaffarpur towards EMD. Any quotation which is not accompanied by EMD will be summarily rejected.
- 7) Contractors should quote rates in figures as well as in words.
- 8) All erasures and alterations made must be attested with the initials of tenderers. No overwriting is permitted.
- 9) The EMD of the unsuccessful bidders will be returned within 45 days from the date of opening the tender.
- 10) Joint tenders shall not be considered. Conditional tenders quoted by the contractor are liable to be rejected.
- 11) No escalation in the rates will be allowed under any circumstances.
- 12) On receipt of the intimation from the bank of the acceptance of his quotation, the contractor should submit his acceptance within 3 days if the successful contractor / tenderers fail to undertake the work within 7 days after work allotment, the EMD/MMD will be forfeited and acceptance of his tender may be withdrawn.
- 13) The rate quoted in the tenders shall be inclusive of all materials as required and shall be inclusive of all charges of scaffolding, lifting, tools and plants, freights / transportation, labor conditions and



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fluctuations in rates of excise duty, octroi, GST, VAT, Excise Duty, Service Tax and any other taxes or expenditure of carrying out the works.

- 14) The Agency is advised to inspect and examine the sites and satisfy himself as to the condition prevailing at sites and its surrounding extent of work, scope and conditions under which the work is to be executed. The contractor shall also satisfy himself about the accessibility to the premises.
- 15) The agency shall submit the offer which satisfies each and every condition laid down in this notice, failing which the tender will be liable to be rejected. Conditional bids shall not be considered and will be out rightly rejected in the very first instance.
- 16) Work will completed in 30 days from the date of issue of tender or work order whichever is earlier. If the work be not completed to the satisfactions of employer within the stipulated period, the contractor will bound to pay to the Employer a sum equivalent to Rs.2000/- per day subject ceiling of Max 10% of the accepted contract amount by way of liquidated damages and not as penalty during which the work remains uncommenced or unfinished after expiry of the completion date. The contract may be rescind by giving one week notice in case work is not executed as per specification and as per time schedule given in tender document.
- 17) The liquidated damages as mentioned in the Notice inviting tender may not be enforced if the contractor applies for extension of time mentioning the genuine reasons for extension. If an extension of time of completion of the work is sought on the grounds of having unavoidable hindrances in his execution or any other ground, the contractor shall apply in writing to the Zonal Manager, Zonal Office Muzaffarpur with full details of the circumstances which is causing such an extension. Extension of time in days will be granted by the bank if it is proved that the contractor is not at fault for extending the work beyond stipulated date of completion. At the decision in this regard taken by the bank shall be binding to the contractor.
- 18) The successful contractor is bound to carry item of work necessary for completion of job even though the same are not included in the schedule of quantity. Rates of extra item will be derived from quotation. In case the rates do not exist in quotation extra item is not similar to the quoted item, then the rate will worked out on actual cost of material and labor, and other expenditure for completing that work plus 15% toward contractor profit and overhead.
- 19) The work shall be carried out in such a way that, there is least disturbance of the staff of Bank. Contractors are required to organize the work in such a way that working of staff and officers/executive of office are not affected. Contractor is required to take adequate care during progress of work to protect belongings. In case any damage, contractor at their own cost shall make the same good.
- 20) The contractor must co-operate with other contractors appointed by the bank so that entire work shall proceed smoothly and to the complete satisfaction of the bank.
- 21) Contractor will arrange necessary tools and plants for completing own work at their cast. In case of any accident the total responsibility will be on the contractor. Contractors are required to submit time schedule of work. After completion of work, cleaning of floors, walls etc are to be done on daily basis to the satisfaction of branch head / engineer-in-charge. After completion of job, the site shall be cleared of all rubbish malba/debris etc in all respect and handover the site in proper manner on completion of work.
- 22) No advance will be paid. Payment will be released on satisfactory completion of job and submission of bills. Retention Money @10% will be deducted from the bill and to be released after twelve (12) months from the date of virtual completion provided no defects is observed during the period.



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- 23) In case of non-completion or delay in completion of work or removal of defects in time, the bank shall be free to appoint another agency to get the job done at contractors risk and cost.
- 24) The contractor will attend to all the defects noticed during defect liability period. If the contractor fails to attend the defects these defects will be got rectified by the bank and the expenditure incurred on this account will be recovered from security deposit/retention money.
- 25) The work shall be got approved by the Architect/engineer and the contractor shall rectify any bad Workmanship pointed out at any stage and removes from the site all the rejected materials immediately at his own cost.
- 26) The contractor shall acquaint himself with the site conditions making his own arrangements for storing of materials at site, lift, cartage etc. at his own risk and safety.
- 27) The contractor shall make adequate arrangement for watch and ward of material and shall ensure the safety, breakage and any theft of material fixed or unfixed by him or the other sub-contractor. The bank shall not be liable for any sort of loss incurred
- 28) The contractor shall be responsible for application of labour laws, compensation Act for injury and accident to person, whether employed by him or his sub-contractor.
- 29) The contractor shall ensure that the workmen employed by him for the execution of work are suitably covered against Workmen compensation Act and that all liabilities arising out of Workmen's compensation Act, ESIS and other legislative enactment applicable to such works and workmen shall be to the contractor's account and responsibility.
- 30) Civil, Interior furnishing and Electrical Works will be carried out as per Bank's standard drawing / specifications and to the entire satisfaction of the bank.
- 31) The contractor shall inform the bank, well in time, to check measurements of any work which is likely to be hidden before covering.
- 32) Income Tax at the prevailing rates will be deducted at source from contractor's bill and will be deposited with I.T.O. as per rules.
- 33) Any extra work or item can only be started by contractor after obtaining written approval from the Zonal Office. Item executed without prior approval from the Zonal Office will not be considered for payment.
- 34) The quantities mentioned in the schedule of quantities are approximate. Payment will be made on the actual work done by the contractors. However the contractor should not deviate the quantity without Bank's permission.
- 35) The bank has the right to alter the nature of work and to add or omit any items of work or to have the option of the same carried out departmentally or otherwise and such alterations or variations shall be carried out without prejudices to the contract.
- 36) The bank has the right to terminate the contract if the contractor abandons the work or fails to commence the work in time, or fails to abide by the terms and conditions of the contract.

I have read and understood all the instruction/conditions given above and I have taken into account the above instructions/conditions while quoting the rates.

Date:

(Signature of the Contactor)

Place:

Seal

BILL OF QUANTITY OF ELECTRICAL WORKS N/W: PROVIDING ELECTRICAL WORKS FOR INDIAN BANK, RAMPC, MUZAFFARPUR					
	OFFICE				
A	SUB HEAD-I (WIRING)				
C	SUB HEAD-II (DISTRIBUTION BOARDS & PANELS)				
D	SUB HEAD-III (SUPPLY OF FIXTURES & FANS)				
E	SUB HEAD - IV (ERECTION OF FIXTURES)				
F	SUB HEAD-V (SUPPLY OF CABLE MAIN & SUBMAIN)				
G	SUB HEAD-VI (SUPPLY & MAKING OF EARTHPIES)				
	TOTAL-				
	G.S.T(Extra as applicable)				
SL. NO.	ITEM OF WORK	UNIT	QTY	RATE	AMOUNT
SUB HEAD - I (WIRING)					
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq mm FR PVC insulated copper condtr single core cable in surface/ recessed PVC conduit with modular switch, modular plate, suitable GI box and earthing the 3rd point with 1.5 sqmm FRLS PVC insulated copper conductor single core cable etc as required.	Each	60		
2	Wiring for A.C. Point with 2 x 4 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with one no 4 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	210		
3	Wiring for Light D.B.CKT with 4 x 6 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with 2X6 sq mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	155		
4	Sub main Wiring between UPS to UPS fed DB with 2 x 6 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with 1X 6 sq mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	25		
5	Wiring for RAW Power with 2 x 6 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with 2X6 sq mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	25		
6	Sub Main Wiring from LT Panel to UPS Panel with 4 x 6 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with 2X6 sq mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	35		
7	Wiring for UPS and RAW feed computer point with 2 x 2.5 sqmm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with one no 2.5 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required. (3 outlets, i.e 3 points each with 1 switch and 3 sockets shall be under one circuit	Mtr.	750		
8	Light Circuit wiring with 2 x 1.5 sqmm FRLS PVC insulated copper conductor single core cable surface/ recessed PVC conduit / PVC Casing - n Capping along with one no 1.5 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	185		
9	15A/16A Power point Circuit wiring with 2 x 2.5 sqmm FRLS PVC insulated copper conductor single core cable surface/ recessed PVC conduit / PVC Casing - n Capping along with one no 2.5 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required.	Mtr.	50		
10	Supply & fixing AC controller unit consisting of one no 25 amp AC controller having overload protection starter, one no 20/25 amp SPN MCB and socket outlet, all fixed on a modular plate complete with metal box and recessed in wall as reqd.	Set	6		
11	Supply & fixing suitable size GI box with modular plate and cover in front on surface/ in recess i/c pvdg & fixing 5 pin 5/6 amp modular socket outlet and 5/6 amps modular switch, connection, painting etc as reqd.	Set	12		
12	Supply & fixing suitable size GI box with modular plate and cover in front on surface/ in recess i/c pvdg & fixing 6 pin 15/16 amp modular socket outlet and 15/16 amps modular switch, connection, painting etc as reqd.	Set	4		
13	Supply & fixing remote controlled call bell buzzer suitable for 230 V AC/ Battery operated with remote type bell push as reqd.	nos.	1		
14	Supply & fixing of computer point with 3 no. 5 pin 5/6 amp modular socket with modular type switch for UPS Power and 2 no. 5 pin 5/6 amp modular socket with modular type switch phenolic laminated sheet suitable size PVC/G.I. box. As per instruction of Bank/Elc.Er./as required.	nos.	22		
15	Supply & fixing of approved make including square face plate and M.S. housing box with RJ-45 socket etc complete in all respect including cat-6 Data cable conduits, identification of the hub				
	a) RJ-45 socket	Set.	22		
	b) Cat-6 Data cable with PVC conduit	Mtr.	750		
16	Supply & fixing of approved make including square face plate and M.S. housing box with RJ-45 socket				
	a) RJ-11 socket	Set.	22		
	b) Supplying and drawing 2 pair 0.5 sqmm FR PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/PVC conduit as required.	Mtr.	650		
17	Supplying and drawing fixing 8 SWG copper conductor wire for loop earthing as required.	Mtr.	55		
18	Supply & fixing Commissioning of 20 line Net-working hub all complete as required.	Set.	2		
19	Supply & fixing Commissioning of 2 Meter Patch Cord as required, all complete as per requirement.	Set.	25		
20	Supply & fixing of following sizes of PVC conduit along with accessories in surface/ recess i/c				
	a) 20 mm	Mtr.	25		
	b) 25 mm	Mtr.	25		
	TOTAL SUB HEAD-I				

SUB HEAD - II (DISTRIBUTION BOARDS & PANELS)					
1	Supplying & Fixing following ways three pole and neutral sheet steel MCB DB, 415 volts on surface/ recessed complete with tinned copper busbar, neutral busbar, earth bar din bar detachable gland plate interconnections, phosphatised and powder painted i/c earthing etc as reqd. (But without MCB / RCCB/Isolator)				
	a) 4+18 Way double door TPN D.B.	Each	2		
	c) 16 Way double door SPN DB.	Each	2		
2	Supply & fixing 5 amps to 32 amps rating 240 V 'C' series MCB suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc as reqd.				
	b) 40 A 10 KA FP MCB "C"	Each	2		
	c) 40 A 10 KA DP MCB "C"	Each	2		
	d) 6/10 A 10 KA SP MCB "C"	Each	57		
3	Supply & fixing of indoor cubicle extensible type fully compartmentalized Distribution panel suitable for operation on 415 volts 50 Hz 3 phase 4 wire AC distribution system, suitable for 35 KA short circuit rating, confirming to IP:42 degree of protection, made up of 1.6 mm thick CRCA sheet, wall/ floor mounted, dust & vermin proof enclosure, having hinged and earthed cover on front, having neoprene gasket/ katings stuck to the doors, duly painted with 65- 75 microns thick dry epoxy powder paint after 7 tank process of degreasing, derusting etc comprising of the following switchgears complete with all interconnections with suitable size of copper strip/hard drawn PVC insulated copper cable i/c keeping the panel in position, minor civil works as necessary, painting, sign writing etc complete as required (as per specifications of Panel attached) TEST REPORT: FOLLOWING REPORTS HAVE TO BE PROVIDED BY THE VENDOR AT THE TIME OF SUBMISSION OF BILL:. 1) FINAL AS BUILT PLAN IN THREE COPIES DRAWN TO THE SCALE, PRINTED IN CASE OF CAD AND BLUE PRINT, IN CASE OF MANUAL DRAWING. 2) QUALITY REPORT INDICATING THE ITEMS USED WITH THEIR MAKES. 3) PANEL MANUFACTURER'S CPRI TEST REPORT FOR SHORT CIRCUIT (50KA), IP TEST & TEMPERATUE RISE. 4) ROUTINE TEST REPORT OF PANEL FOR IR & HV TEST. 5) GUARANTEE/WARRANTY CARD OF PANEL MANUFACTURER. INCOMING: a) 125 amp 4 pole MCCB not less than 36 KA having Thermo magnetic type release for a range of 80% to 100% for Overload and short circuit complete with rotary handle etc as reqd.: 1 no b)63 amp 4 pole heavy duty I-II-I type cubicle changeover switch: 1 no METERING: a) Multifunctional meter displaying A/V/PF & Hz along with 3 nos Suitable size CTs & HRC type protection fuse etc as reqd: 1 nos c) LED type phase indicationg lamp in phase distinguishing colors with HRC fuse : 6nos BUS BAR: Main Bus Bar: 4 strip 200 amp bus bar made of electrical grade aluminium strip enclosed in separate bus bar chamber, provided with DMC/ SMC bus bar support duly insulated with heat shrinkable sleeves in distinct colours as reqd: 1 set Emergency Load Bus Bar: 4 strip 200 amp bus bar made of electrical grade aluminium strip enclosed in separate bus bar chamber, provided with DMC/ SMC bus bar support duly insulated with heat shrinkable sleeves in distinct colours as reqd: 1 set Current Density of bus bar should be 0.8 amp/Sq.mm OUTGOINGS: A) 63/40 amp FP MCB 10 KA D series: 2 nos b) 40 amp FP MCB 10 KA D series: 3 nos c) 25 amp Single pole & Neutral MCB 10 KA D Series: 6 nos	nos.	1		
4	Supply & fixing of indoor cubicle type UPS panel suitable for operation on 415 volts 50 Hz, 3 phase 4 wire AC distribution system, AC supply, suitable for 35 KA short circuit rating, confirming to IP:42 degree of protection, made up of 1.6 mm thick CRCA sheet, wall/ floor mounted, dust & vermin proof enclosure, having hinged and earthed cover on front, having neoprene gasket/ katings stuck to the doors, duly painted with 65- 75 microns thick dry epoxy powder paint after 7 tank process of degreasing, derusting etc comprising of the following switchgears complete with all interconnections with suitable size of copper strip/hard drawn PVC insulated copper cable i/c keeping the panel in position, minor civil works as necessary, painting, sign writing etc complete as required. (as per specifications of Panel attached) INCOMING: a) 63 amp 4 pole MCCB 10 KA D series.: 1 no METERING: a) Digital Volt meter displaying voltage of each phase along with 3 nos HRC type protection fuse etc as reqd: 1 nos UPS INPUT & OUT PUT 1 no 40 A SPN MCB 10KA with 1 no 40 amp Industrial type socket out let and Top with connection for input switch from selector switch and between out put switch to o/g MCB with PVC insulated copper conductor wire as reqd: 5 nos (for UPS input & Output from UPS) OUTGOINGS: a) 63 amp FP MCB 10 KA B Series: 4 nos.	nos.	1		
TOTAL SUB HEAD-III					

SUB HEAD - III (SUPPLY OF FIXTURES & FANS)					
1	Supplying of 6W/9W LED batten suitable for indoor application.	Each	5		
2	Supplying of stepped type electronic fan regulator on the existing modular plate switch box i/c connection but excluding modular plate etc as reqd.	Each	2		
3	Supplying of 45W LED (2'X2') surge protection 36 Watt LED luminaire suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as reqd.	Each	23		
4	Supplying of recess mounted circular LED (dia-6") downlighter 9/12 Watt LED suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as required.	Each	30		
5	Supplying, installation, testing & fixing of 1X36 W tube light fitting powder coated batten with PC tube.	Each	4		
6	Supplying of Exhaust fan 300mm sweep HEAVY DUTY EXHAUST	Each	3		
7	Supplying of 1200 mm sweep energy efficient ceiling fan, connection with 1.5 sqmm PVC ins copper condtr, testing, commissioning etc as reqd.	Each	2		
8	Supplying of oscillating and tilting type wall bracket fan of 400 mm sweep i/c fixing the same on wall, connection with 1.5 sqmm PVC insulated copper conductor, testing, commissioning etc as required.	Each	14		
TOTAL SUB HEAD-IV					
SUB HEAD - IV (ERECTION OF FIXTURES)					
1	Installation, testing and commissioning of ceiling fan and regulator including wiring the down rod of standard length (upto 30 cm) with 1.5 sq. mm PVC insulated, copper conductor, single core cable, i/c pvdg earthing wire etc. as required.	Each	2		
2	Installation, testing and commissioning of 400MM wall fan including wiring with 1.5 sq. mm PVC insulated, copper conductor, single core cable etc. as required.	Each	14		
3	Installation of exhaust fan up to 300mm sweep in the existing opening, including making the opening / hole to suit the size of the above fan, making good the damages, connections, testing, commissioning etc. as required.	Each	3		
4	Installation, testing and commissioning of 1X36watt tube Light or 1 X 18/23 watt LED with tube /bulb and other all cover provide all fitting.	Each	53		
TOTAL SUB HEAD- V					
SUB HEAD - V (SUPPLY OF CABLE MAIN & SUBMAIN)					
1	Supply & laying for sub main from L.T line & DG line following sizes and core PVC/XLPE insulated PVC sheathed, heavy duty, armored electrical cable with aluminum conductor for working voltage up to and including 1100 volts.(Conforms to IS:1554,part-1) with 8 no. SWG die bare copper conductor wire for loop earthing, proper laying on wall or roof, thumbnail clipping and use proper size cable gland for cable sport etc. as required. all complete as per instructions of Elec.Er. / Architect.				
	(i) 36 sq.mm, 3.5 core LT Cable	Mtr.	30		
	(ii) 16 sq mm, 3.5 core LT Cable	Mtr.	20		
TOTAL SUB HEAD-VI					
SUB HEAD - VI (SUPPLY & MAKING OF EARTHPITS)					
1	Earthing with GI earth plate 600mm x 600mm x 6 mm thick accessories and pdg masonry enclosure with cover plate having locking arrangement and watering pipe etc (but without charcoal or coke and salt) complete as required.	Set	2		
2	Extra for using charcoal and sal for GI / copper earth plate electrode as required (96 Kg charcoal & 5 Kg salt)	Set	2		
3	Providing & laying earth connection from earth electrode with 6 SWG dia GI wire in 15 mm dia. GI pipe from earth electrode as required.	Mtr.	40		
4	S/L 6 SWG G.I.wire on surface or in recess as reqd.	Mtr.	40		
5	Earthing with CU earth plate 600mm x 600mm x 3 mm thick accessories and pdg masonry enclosure with cover plate having locking arrangement and watering pipe etc (but without charcoal or coke and salt) complete as required.	Set	3		
6	Extra for using charcoal and sal for copper earth plate electrode as required	Set	3		
7	Providing & laying earth connection from earth electrode with 4 mm dia copper wire in 15 mm dia. GI pipe from earth electrode as required.	Mtr.	40		
8	S/L 4 mm dia copper wire on surface or in recess as reqd.	Mtr.	40		
TOTAL SUB HEAD-VII					

ARCHITECT- ARTCON DESIGN CONSULTANTS, PATNA
CLINTE-INDIAN BANK
PROJECT- ELECTRICAL & NETWORKING WORKS, RAMPC, MUZAFFARPUR

THE FOLLOWING MAKE OF MATERIALS AND EQUIPMENTS SHEEL BE USED IN THE WORK. IN THE EVENT OF NON AVAILABILITY OF CERTAIN ITEMS, THE APPROVAL OF THE ARCHITECT/ELECTRICAL ENGINEER/EMPLOYER MUST BE OBTAINED IN THE WRITING PRIOR TO USING SUBSTITUTE MAKE.

LIST OF APPROVED MAKES OF ELECTRICAL ACCESSORIES & SWITCHGEARS:

SL NO	ITEM	MAKE
1	PVC CONDUIT & ACCESSORIES	AKG/ CAPS/MALHOTRA – ISI MARKED
2	COPPER WIRE PVC INSULATED FR	HAVELL'S /FINOLEX/RR KABLE/MESCAB
3	MODULAR SWITCH & BOARDS	ROMA/CRABTREE/L&T/ LEGRAND/ PHILIPS
4	MCB& MCB DB	LEGRAND/SIEMENS/SCHNEIDER
5	LED LIGHT FITTINGS	PHILIPS/MAGIK LED (CENTURY)/ HAVELL'S
6	CEILING/WALL/EXHAUST FAN	KHAITAN/HAVELL'S/CROMPTON
7	MCCB	L&T/SCHNEIDER/ABB.
8	CHANGEOVER	HPL /L&T/ ABB
9	MULTIFUNCTIONAL METERS	SCHNEIDER/HPL/L&T
10	CURRENT TRANSFORMER	AE/KAPPA/ESSMA
11	HRC FUSE	L&T/HAVELL'S /GE
12	TELEPHONE WIRE	HAVELL'S /FINOLEX/RR CAEL
13	CALL BELL	CONA/ANCHOR
14	LT PANEL/ UPS PANEL	CPRI TESTED MANUFACTURER
15	AC CONTROLLER	NORTH WEST/ LEGRAND
16	LUGS	DOWELL'S/JAINSON
17	NET-WORKING HUB	D-Link/ LEGRAND
18	VRF AIR CONDITIONING	LG/DAIKIN/CARRIER

SPEISIFICATION OF WIRING:

- 1) PVC CONDUIT SHALL BE IS MARKED AND THICKNESS OF CONDUIT EMBEDDED IN SLAB/ WALL SHALL BE 2.0 MM THICK AND 1.6 MM THICK FOR SURFACE CONDUIT. ALL CONDUITS ABOVE 25 MM SHALL BE 2.0 MM THICK ONLY.
- 2) SPACER MADE OF GI STRIP NOT LESS THAN .60 MM THICK WITH BASE SHALL BE USED AT A DISTANCE NOT MORE THAN 750 MM FROM EACH OTHER FOR SURFACE WIRING. SPACER SHALL BE FIXED WITH PVC RAWL PLUG AND NOT DITOFIX POWDER. PVC BASE SADDLES ARE NOT ALLOWED.
- 3) WIRE USED SHALL BE OF FR STANDARD.
- 4) COLOUR CODE SHALL BE USED IN THE ENTIRE WIRING TO IDENTIFY THE PHASES ON WHICH EVERY SINGLE PHASE LOAD IS, VERY DISTINCTLY. EARTHING SHALL BE IN GREEN COLOUR AND NEUTRAL SHALL BE IN BLACK COLOUR.
- 5) EVERY TERMINATION SHALL BE MADE WITH CRIMPING COPPER LUGS & ANTI CORROSIVE PASTE MUST BE APPLIED BEFORE CRIMPPING.
- 6) ALL THE RECESSED SWITCHBOARDS SHALL BE METALIC, GALVANISED AND OF THE SAME MAKE AS THAT OF SWITCHES USED.

- 7) NEUTRAL & EARTHING WIRE FOR EACH CIRCUIT/POWER CIRCUIT/UPS POINT SHALL BE DRAWN SEPERATELY AND IN CASE NEUTRAL OR EARTHING WIRES ARE FOUND TO BE LOOPED IN ANY CIRCUIT, THE MEASUREMENT OF THE CIRCUIT SHALL NOT BE CONSIDERED.
- 8) EXPOSED WIRING SHALL BE DONE IN HEAVY DUTY PVC CASING N CAPING.
- 9) ALL METALIC BOARDS SHALL BE PROPERLY EARTHED.
- 10) 3RD PIN OF ALL SOCKETS MUST BE EARTHED.

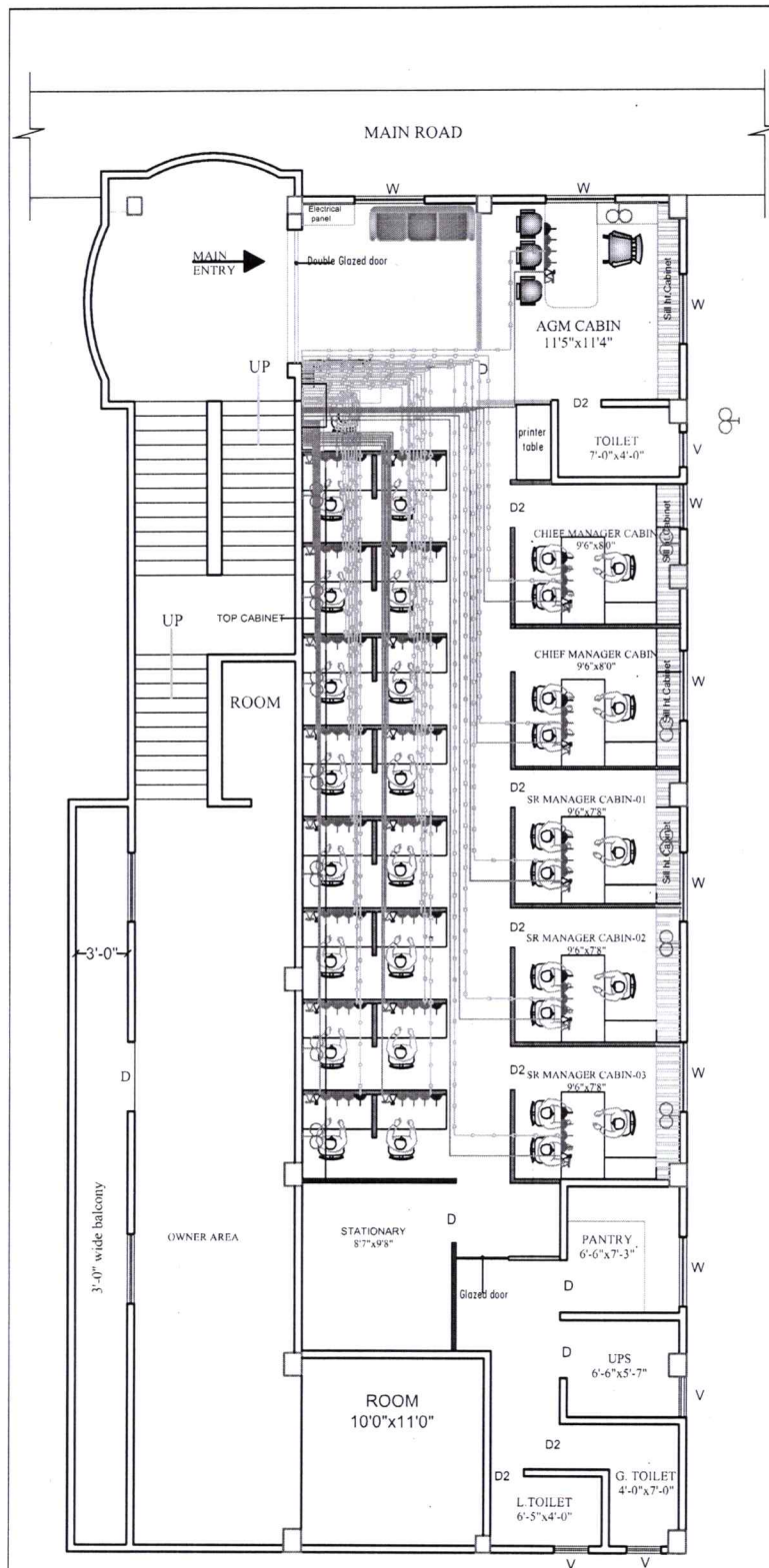
PANEL:

- 1) FRAME & SHUTTERS SHALL BE 1.6 MM THICK CRCA SHEET.
- 2) ENCLOSURE SHALL BE RIGOROUSLY TREATED FOR DEGREASING, DERUSTING & PASSIVATION BY 7 TANK PROCESS OF CHEMICAL TREATMENT AND PANEL SHALL BE PAINTED IN PAINT SHOP HAVING COMPLETE 7 TANK FACILITIES.
- 3) PAINT SHALL BE DRY EPOXY POWDER PAINT OF RAL 732 SIEMENS GRAY SHADE.
- 4) DISTANCE BETWEEN PHASE TO PHASE SHALL BE NOT LESS THAN 32 MM AND PHASE TO EARTH SHALL BE NOT LESS THAN 25 MM.
- 5) CONTROL/METERING WIRING SHALL BE DONE WITH 1.5 SQMM PVC INSULATED WIRE.
- 6) WIRING BETWEEN BUS BAR & SWITCHES SHALL BE WITH FOLLOWING SIZES OF WIRES:
 - A) UPTO 40 AMP: 6 SQMM
 - B) UPTO 63 AMP: 10 SQMM
 - C) UPTO 125 AMP: 25 SQMM
 - D) UPTO 160 AMP: 35 SQMM
 - E) ABOVE 160 AMP: STRIP ONLY
- 7) BUS BAR SELECTION SHALL BE MADE ON THE BASIS OF 1 SQMM= 1.6 AMP FOR COPPER STRIPS.
- 8) OUTGOING ACCESS TO SWITCHES SHALL NOT BE THROUGH COMPARTMENT OF OTHER SWITCHES.
- 9) SWITCHGEAR MAKES SHALL BE AS PER SCHEDULE OF MAKES.
- 10) TWO NOS EARTHING TERMONALS SHALL BE PROVIDED IN BODY OF PANEL.
- 11) ALL HINGED COVERS SHALL BE EARTHED.
- 12) VENDOR SHALL SUBMIT PANEL GA IN DUPLICATE BEFORE MANUFACTURING AND GET IT APPROVED BY BANK/ ELECTRICAL CONSULTANT.

TEST REPORT:

FOLLOWING REPORTS HAVE TO BE PROVIDED BY THE VENDOR AT THE TIME OF SUBMISSION OF BILL:

- 1) WIRING IR TEST REPORT, EARTHING TEST REPORT & POLARITY TEST REPORT ON VENDOR'S LETTER PAD/ GREEN CARD DULY SIGNED BY CONTRACTOR & LICENSED SUPERVISOR.
- 2) FINAL AS BUILT PLAN IN THREE COPIES DRAWN TO THE SCALE, PRINTED IN CASE OF CAD AND BLUE PRINT, IN CASE OF MANUAL DRAWING.
- 3) QUALITY REPORT INDICATING THE ITEMS USED WITH THEIR MAKES.
- 4) PANEL MANUFACTURER'S CPRI TEST REPORT.
- 5) ROUTINE TEST REPORT OF PANEL FOR IR & HV TEST.
- 6) GUARANTEE CARD OF PANEL MANUFACTURER.



ALLAHABAD BANK
AT-RMPC MUZAFFARPUR

FIRST FLOOR PLAN

ROOF HT - 10'-6"
BEAM HT - 9'-0"
LINTEL HT - 7'-0"
SILL HT - 5'-0"

NOTE



HALF HT PARTITION



7' HT PARTITION



SEMI GLAZED FULL HT PARTITION



SOLID FULL HT PARTITION

Note :-

- * This drawing is property of **FVC** it must not be retained, copied reproduced in any form without written permission of **FVC**.
- * Use architectural drawing for detail dimensions.
- * In case of any discrepancy in this drawing or difficulty at site this office should be referred.
- * Position of power and light points **Option-02** compared with the position of geyser and basin from p.h.e. drawing.
- * Diameter of sub main conduit is 1" and remaining are of 0.75".

LEGEND

SYMBOL	DESCRIPTION	HEIGHT
	CEILING FAN	CEILING
	1X4'-40W FLUORESCENT FIXTURE	7'-0"
	WALL FAN POINT(5/6A 5 PIN SOCKET)	ON WALL
	WALL BRACKET/LED	7'-0"
	CEILING LIGHT	CEILING
	CHANDELIER	CEILING
	36 WATT LED PANEL LIGHT	CEILING
	SWITCH BOARD WITH 5 AMP SOCKET	4'-6"
	SWITCH BOARD	4'-6"
	5 PIN SA PLUG WITH SWITCH	1'6"/5'6"
	5 PIN 15A POWER PLUG	1'6"/4'6"
	F/M FOR FREEZE & W/M FOR WASHING	1'6"/4'6"
	25A A.C. POWER PLUG	1'6"
	CALL BELL PUSH SWITCH	4'6"
	CALL BELL BUZER	7'-0"
	EXHAUST FAN	7'-0"
	DECORATIVE CEILING LIGHT FOR DRAWING	
	DECORATIVE WALL LIGHT	ON WALL
	T.V. OUTLET	1'6"
	NETWORKING HUB	
	CALL BELL	ON WALL
	TELEPHONE OUTLET	1'6"
	FIRE DETECTION SYSTEM	CEILING
	E.P.A.B.X. (TELEPHONE HUB)	ON WALL
	DISTRIBUTION BOX	6' 0"
	UPS PRIMARY & SECONDRY PANEL	ON WALL
	T.V. JUNCTION BOX	CEILING
	JUNCTION BOX	CEILING
	L.T. MAIN CONTROL PANEL	ON WALL
	WAY FOR T.V. & TELEPHONE WIRING.	
	WAY FOR POINT WIRING. (25mm dia pipe)	
	WAY FOR POINT WIRING (19mm dia pipe)	
	WAY FOR SUB MAIN WIRING.	
	WAY FOR POWER POINT WIRING.	
	WAY FOR CIRCUIT WIRING.	
	WAY FOR NETWORKING & TELEPHONE.	
	WAY FOR RAW POWER WIRING.	
	WAY FOR UPS POWER WIRING.	

CLIENT:

INDIAN BANK, RMPC
AT ,MUZAFFARPUR

PROJECT :

INDIAN BANK

SHEET TITLE :

ELECTRICAL LAY OUT PLAN-0-1

SCALE :

N.T.S.

DATE :

10-02-2021

DWG BY :

ADARSH

CKD BY :

Er. P. Gaurav

ARTCON DESIGN CONSULTANTS
ARCHITECTS, ENGINEERS
INTERIOR DESIGNERS, COMPUTER AIDED DESIGN
G-04, Laxmi Palace, Mitra Compound, Boring
R.O.D. P.O. 1 N.G. 1
+91 9917231771 artconmur@gmail.com
+91 9186717126 artcondesignconsultants.com

