



**बड़ौदा यू.पी. बैंक**  
**Baroda U.P. Bank**

**Administrative Office, A-1, Civil Lines, Raebareli**

**TENDER DOCUMENT**

**FOR**

**FURNISHING, ELECTRICAL, DATA CABLING & AIR CONDITIONING PIPING  
WORK**

**AT BARODA U.P. BANK, ADMINISTRATIVE OFFICE, BARGAD  
CHAURAH RAEBARELI**

**PART 1**

Architect

**Gunjan and Associates.**  
141, Sainik Nagar, 9<sup>th</sup> Lane,  
Raebarelli Road, Lucknow-226002  
Phone: 9838818489, 9839018489

**E-Mail:** [garun1511@gmail.com](mailto:garun1511@gmail.com); [arunjan@yahoo.com](mailto:arunjan@yahoo.com)  
[studio@gunjanandassociates.com](mailto:studio@gunjanandassociates.com)

**BARODA U.P. BANK**

**ADMINISTRATIVE OFFICE, A-1, CIVIL LINES, RAEBARELI.**

**E-mail:** [pe.aoraeb@barodauprrb.co.in](mailto:pe.aoraeb@barodauprrb.co.in)  
**Phone:** 0535-2702703  
**Mob:** 7704005679

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# NOTICE INVITING TENDER

## **Baroda U.P. Bank, Administrative Office, A-1, Civil Lines, Raebareli Uttar Pradesh.**

### **FOR FURNISHING, ELECTRICAL, DATA CABLING & AIR CONDITIONING PIPING WORK**

- |      |   |  |
|------|---|--|
| 1.1  | EMPLOYER / OWNER  | : Administrative Head, Baroda U.P. Bank,<br>Administrative Office, A-1, Civil Lines, Raebareli<br>Uttar Pradesh.   |
| 1.2  | NAME OF WORK  | : FURNISHING, ELECTRICAL, DATA CABLING & AIR<br>CONDITIONING PIPING WORK FOR BARODA U.P.<br>BANK, ADMINISTRATIVE OFFICE, BARGAD<br>CHAURHA, RAEBARELI UTTAR PRADESH. |
| 1.3  | PERIOD OF AVAILABILITY OF BIDDING DOCUMENT  | : From <b>30-09-2021 to 21.10.2021</b>   |
| 1.4  | PLACE OF AVAILABILITY OF BIDDING DOCUMENTS  | : <a href="https://www.barodagraminbank.com/tender.php">https://www.barodagraminbank.com/tender.php</a>  |
| 1.5  | LAST DATE, TIME & PLACE FOR RECEIPT OF BIDS   | : <b>22-10-2021 up to 02.00 PM</b> at Baroda U.P. Bank,<br>Administrative Office, A-1, Civil Lines, Raebareli  |
| 1.6  | TIME & DATE OF OPENING OF BIDS  | : <b>22-10-2021 at 03.30 PM</b>  |
| 1.7  | PLACE OF OPENING OF BIDS  | : Baroda U.P. Bank,<br>Administrative Office, A-1, Civil Lines, Raebareli  |
| 1.8  | OFFICE INVITING BIDS  | : Administrative Office, A-1, Civil Lines, Raebareli   |
| 1.9  | ARCHITECTS  | : <b>Gunjan and Associates.</b><br>141, Sainik Nagar, 9th Lane, Raebarelli Road,<br>Lucknow-226002<br>Phone: 9838818489, 9839018489                                  |
| 1.10 | COST OF BIDDING DOCUMENT  | : <b>Rs.1000.00 (to be paid as demand draft in<br/>favour of Baroda U.P. Bank, Raebareli)</b>  |
| 1.11 | ESTIMATED COST OF WORK  | : <b>Rs. 37.00 lacs</b>  |
| 1.12 | EARNEST MONEY DEPOSIT   | : <b>Rs.75, 000.00</b><br>(By DD in favour of Baroda UP Bank payable at<br>Raebareli)  |
| 1.13 | <b>Corrigendum, if any, in this regard shall be uploaded on Bank's website only</b><br>( <a href="https://www.barodagraminbank.com/tender.php">https://www.barodagraminbank.com/tender.php</a> ) only |  |

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## INSTRUCTIONS TO BIDDERS

**Subject - FURNISHING, ELECTRICAL, DATA CABLING & AIR CONDITIONING PIPING WORK AT  
BARODA U.P. BANK, ADMINISTRATIVE OFFICE, BARGAD CHAURAH, RAEBARELI UTTAR PRADESH**

Item wise sealed tenders are invited in a two bid system for the above mentioned work for which tender document can be downloaded from the website of the bank at <https://www.barodagraminbank.com/tender.php>

Sealed bids in a big envelop which contains two sealed envelopes (Part A Technical Bid, Part-B Financial Bid) to be submitted. Technical Bid to be enclosed with two demand drafts issued by any scheduled commercial bank for Rs. 1000/- (Rs. One thousand only) as a cost of bid document and **Rs. 75,000.00 (Rupees Seventy Five Thousand Only)** as earnest money drawn in favour of **Baroda U.P. Bank, Raebareli** payable at Raebareli. All envelopes must be superscribed as **'FURNISHING, ELECTRICAL, DATA CABLING & AIR CONDITIONING PIPING WORK FOR  
BARODA U.P. BANK, ADMINISTRATIVE OFFICE, BARGAD CHAURAH, RAEBARELI UTTAR  
PRADESH.**

Last date for submission of Tenders is **22-10-2021 up to 02.00 PM**. And the technical bid shall be opened on **same date at 3.30 p.m.** first to assess the technical soundness of the firm. **Any tender received thereafter will not be accepted.**

The financial bid will be opened for those bidders only whose technical bid qualifies the technical evaluation criteria of the bank. Date for opening of financial bid will be intimated to successful bidders in technical bid in due course. **The Bank** shall not be bound to accept the lowest bid & reserves the right to reject any or all the tenders without assigning any reason.

The tender shall be valid for a period of sixty days from the date of opening of tender.

(Administrative Head)

Date: 30.09.2021

(Seal & Signature of Baroda U.P. Bank)

## BASIC INFORMATION

1	Name of the Applicant / Organization			
	Address of the Registered Office (with phone numbers, fax numbers & e-mail ID & cell phone number)			
	Address of Office at nearest place to the RAEBARELI (Local Office) (with phone numbers, fax numbers & e-mail ID)			
2	Year of establishment			
3	Type of the organization (whether sole proprietorship, partnership, Private Ltd or Ltd. Co. etc.) (Enclose certified copies of documents as evidence)			
4	Name & qualification of the proprietor / partners / Directors of the organization / Firm a)  b)  c)  (Enclose certified copies of documents as evidence)			
5	Details of registration – Whether Partnership firm, company, etc. Name of Registering Authority, Date and Registration number. (Enclose certified copies of documents as evidence)			
6	Whether registered with Government / Semi-Government / Municipal authorities of any other Public organization and if so, in which class and since when? (Enclose certified copies of documents as evidence)			
7	Details of registration with (Enclose certified copies of documents as evidence)	Year of Registration.	Class	Valid Up to
7A	Number of years of experience in the field and details of work in any other field			

8	Address of the office through which the proposed work of the Bank will be handled and the name & designation of Officer in Charge	
9	Yearly turnover of the organization during last Five years (year-wise) and furnish audited balance sheet and Profit & Loss a/c (audited) for the last Five years.	
10	Name & Address of Bankers (Solvency certificate from a Bank to be enclosed for indicating satisfactory financial capacity of the organization)	1. 2. 3.
11	Enclose copy of latest income tax clearance certificate	
12	PAN Number	
13	Details of registration for payment of service tax (GST)	
14	Detailed description and value of works done (Proforma 1) and works on hand (Proforma 2)	
15	Details of Key Personnel Permanently employed (Proforma 3)	
16	Other infrastructural information to be used / referred for this project (Proforma 4)	
17	Furnish the names of 3(three) responsible persons along with their designation, address, telephone no. etc. for whose organisation, you have completed the above mentioned jobs and who will be in a position to certify about the performance of your organization.	
18	Whether any Civil Suit / litigation arisen in contracts executed / being executed during the last 10 years. If yes, please furnish the name of the project, employer, nature of work, contract value, work order and brief details of litigation. Give name of court, place, status of pending litigation.	Attach a separate sheet, if required.
19	Information relating to whether any litigation is pending before any Arbitrator for adjudication of any litigation or else any litigation was disposed off during the last ten years by an arbitrator. If so, the details of such litigation are required to be submitted.	

**Signature & seal of the Applicant**

**Detailed and Value of Works Done (Proforma-1)**

Sr. No.	Name of work/ project with address	Name & full postal address of the owner. Specify whether Govt. undertaking along with name, address and contact nos. of –2- persons (Engineers or top officials of the organisaiton)	Contract Amount (Rs.) for work with copy of work order & completion certificate from project incharge.	Stipulated time of completion (Years)	Actual time of completion (Years)	Any other relevant information Actual amount of the Project, if increased give reasons.	Enclose clients certificate for satisfactory completion.	Remarks.
1	2	3	4	5	6	7	8	9

**Notes:-**

1. Information has to be filled up specifically in this format. Please do not write “As indicated in Brochure”.
2. Date shall be reckoned from the date of advertisement of the notice in news papers.
3. For certificates, the issuing authority shall not be less than an Executive Incharge.



### **Detailed and Value of Works on Hand (Proforma-2)**

Sr. No.	Name of work/ project with address.	Name & full postal address of the owner. Specify whether Govt. undertaking along with name, address and contact nos. of –2- persons (Engineers or top officials of the organisation)	Contract Amount (Rs.) for work with copy of work order & completion certificate from project incharge.	Stipulated time of completion (Years)	Actual time of completion (Years)	Any other relevant information Actual amount of the Project, if increased, give reasons.	Enclose clients certificate for satisfactory Completion .	Remarks
1	2	3	4	5	6	7	8	9

**Notes:-**

1. Information has to be filled up specifically in this format. Please do not write “As indicated in Brochure”.
2. Date shall be reckoned from the date of advertisement of the notice in news papers.
3. For certificates, the issuing authority shall not be less than an Executive Incharge.

### **Details of Key Personnel Permanently Employed (Proforma-3)**

Sr. No.	Name and designation	Age	Qualification	Experience	Particulars of work done	Since when working with the firm	Any Other Information
1	2	3	4	5	6	7	8

**Notes:-**

1. Information has to be filled up specifically in this format. Please do not write remark "As indicated in Brochure".
2. Indicate other points, if any, to show your technical and managerial competency to indicate any important point in your favour.

**Details of Infrastructural Information in Office (Proforma-4)**

Sr. No.	Items	Numbers	Details
1	2	3	4

## **2.1 SCOPE OF BID**

- 2.1.1 The Baroda U P Bank, Administrative Office, RAEBARELI invites bids for furnishing, electrical, data cabling & Air conditioning piping work (as defined in these documents & referred to as “the works”) detailed herewith.
- 2.1.2 The successful bidder will be expected to complete the work/s by the intended completion date & to the desired quality as specified in the contract data.

## **2.2 ELIGIBLE BIDDERS**

- 2.2.1 All bidders shall provide in section 3.0 forms of bid & qualification information, a statement that bidder is not associated, nor has been associated in the past, directly or indirectly, with the consultant or any other entity that has prepared the design, specifications & other documents for the project or being proposed by BARODA U.P. BANK, ADMINISTRATIVE OFFICE, RAEBARELI or any of its officers.

## **2.3 QUALIFICATION OF THE BIDDER**

- 2.3.1 All bidders shall provide in the section 3.0 forms of bid & qualification information, a preliminary description of the proposed work method & schedule including drawings & charts (as necessary).
- 2.3.2 In the event that pre qualification of potential bidders has been undertaken, only bids from the pre qualified bidders will be considered for award of the contract. Otherwise, all the bidders should submit the following documents with their bids -
  - (a) Proof of definition of the constitution or legal status, place of registration & principal place of business; written power of attorney of the signatory of the bid to commit the bidder.
  - (b) Total monetary value of construction work performed for each of the last five years.
  - (c) Experience in works of a similar nature & size for each of the last five years.
  - (d) Qualifications & experience of key site management & technical personnel proposed for the contract.
  - (e) Reports on the financial standing of the bidder, such as profit & loss statements & auditor's reports for the past five years.
  - (f) Evidence of adequacy of working capital for this contract.
  - (g) Information regarding any litigation, current or during the last five years, in which the bidder is involved, the parties concerned & disputed amount. (including income tax, U.P.T.T. & C.S.T. service tax (GST) authorities).
  - (h) Proposals to subcontracting components of the works amounting to more than 10% of the contract price (if permitted & necessarily to be vetted by the architect).
  - (i) Income tax permanent account of the bidder.
  - (j) Income tax clearance certificate for the current financial year.
  - (k) U.P. trade tax registration no.
  - (l) Any additional information as needed in the contract document.
- 2.3.3 Bids from joint ventures are not acceptable.
- 2.3.4 To qualify for award of the contract, each bidder in its name should have:
  - (a) Achieved a minimum financial turnover (in all classes of interior furnishing Electrical, Data Cabling & Air Conditioning Work) of Rs. 1.5 Crore in each year for any three years, out of last four years.**
  - (b) Successfully completed two prime contracts of at least similar work type of value not less than Rs. 20.00 lacs. in the last Three financial year.**

OR

**One Project costing not less than 37.00 Lacs**

(c) Any additional condition as imposed in the tender document.

**THE CONTRACTOR TO FILL THE ANNEXURE GIVEN BELOW**  
**CHECK LIST OF TECHNICAL BID FURNISHING, ELECTRICAL, DATA CABLING &**  
**AIR**

**CONDITIONING PIPING WORK**

**FOR BARODA U.P. BANK AT ADMINISTRATIVE OFFICE, BARGAD CHAURAH,**  
**RAEBARELI.**

Sr. No.	Bidder Detail	Empanelment with Banks/Financial Institution /Insurance Comp./PSU	Value and Name of Project of total work Successfully completed of Approximately 37 Lacs	Value and Name of completed two prime contracts of at least similar work type of value not less than Rs. 20.00 lacs.	P/L AC. Enclosed B/S Audited by C.A.	Financial Paper of 3 year	Establishment	Experience	Office /Work shop	GST Registration no./ certificate
1	2	3	4		5	6	7	8	9	10

## **2.4 ONE BID PER BIDDER**

- 2.4.1 Each bidder shall submit only one bid. A bidder who submits or participates in more than one bid (other than as a sub contractor or in the case of alternatives that have been permitted or requested) will cause all the proposals with the bidder's participation to be disqualified.

## **2.5 COST OF BIDDING**

- 2.5.1 The bidder shall bear all costs associated with the preparation & submission of his bid & the employer will in no case be responsible & liable for those costs.

## **2.6 SITE VISIT**

- 2.6.1 The bidder, at his own risk, cost & responsibility is encouraged to visit & examine the site of works & its surroundings & obtain all information that may be necessary for preparing the bid & entering into a contract for work/s.

## **2.7 CLARIFICATION OF BIDDING DOCUMENTS**

- 2.7.1 A prospective bidder requiring any clarification regarding the bidding documents may notify the employer in writing or by e-mail at the employer's address/e-mail ids indicated in the invitation bid. The employer will respond to any request for clarification which he receives earlier than 7 days prior to the deadline for the submission of bids. Copies of the employer's response will be forwarded to all purchasers of the bidding documents, including a description of the enquiry but without identifying its source.

## **2.8 AMENDMENT TO BIDDING DOCUMENT**

- 2.8.1 Before the deadline for the submission of the bid, the employer may modify the bidding documents by issuing addenda only on its website <https://www.barodagraminbank.com/tender.php>
- 2.8.2 Any addendum thus issued shall be part of the bidding documents & shall be communicated in writing or by cable to all purchasers of the bidding documents. Prospective bidders shall acknowledge receipt of each addendum by cable to the employer. For this purpose it is mandatory for all prospective bidders to furnish email/fax no. at the time of purchase of the document.
- 2.8.3 To give prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the employer shall extend as he thinks is necessary the deadline for submission of the bids. The discretion to do so & the time to be extended would be the privilege of the employer.

## **2.9 ALL DOCUMENTS RELATING TO THE BID SHALL BE IN ENGLISH LANGUAGE ONLY.**

## **2.10 BID PRICES**

- 2.10.1 The contract will be for the whole work based on the priced bill of quantities submitted by the bidder.
- 2.10.2 The bidder shall fill in rates & prices for all items of the works described in the bill of quantities. Items for which no rate or price is entered by the bidder will not be paid by the employer when

executed & shall be deemed covered by the other rates & prices in the bill of quantities. Corrections, if any, shall be made by crossing out, initialing, dating & rewriting.

- 2.10.3 All duties, taxes (Other than GST) & other levies payable by the contractor under the contract or for any other cause shall be included in the rates, prices & total bid price submitted by the bidder.
- 2.10.4 The rates & prices quoted by the bidder shall be fixed for the duration of the contract & shall not be subject to adjustment on any account

## **2.11 BID VALIDITY**

- 2.11.1 Bids shall remain valid for a period not less than sixty days after the deadline date for the bid submission. A bid valid for shorter period shall be rejected by the employer as non responsive.
- 2.11.2 In exceptional circumstances, prior to expiry of the original time limit, the employer may request that the bidders may extend the period of validity for a specified additional period. The request & the bidder's response shall be made in writing or by cable. A bidder may refuse the request without forfeiting his bid security. A bidder agreeing to the request will not be required or permitted to modify his bid except the validity period.

## **2.12 BID SECURITY (EARNEST MONEY)**

- 2.12.1 as per section 1
- 2.12.2 No bank guarantees will be acceptable in lieu of the above.
- 2.12.3 The bid security of the unsuccessful bidders shall be returned within 28 days of the end of the bid validity period as specified in earlier section or earlier if the owner so desires.
- 2.12.4 No interest whatsoever shall be payable on the said bid security.
- 2.12.5 The bid security of the successful bidder shall be discharged after the completion of the work.

## **2.13 FORMAT & SIGNING OF BID**

- 2.13.1 The original copy of the bid shall be typed or written in indelible ink & shall be signed by a person or persons duly authorized to sign on behalf of the bidder. All pages of the bid where entries or amendments have been made shall be initialed by the person/s signing the bid.
- 2.13.2 The bid shall contain no alterations, except those to comply with instructions issued by the employer, or as necessary to correct errors made by the bidder, in which case such corrections shall be initialed by the person/s signing the bid.

## **2.14 SEALING & MARKING OF BIDS**

- 2.14.1 The bidder shall seal the technical & financial bids in a non-transparent envelopes separately duly marking it as technical & financial bid. These envelopes shall be kept inside another envelope which shall be sealed & signed across the joints by the person / s authorized by the bidder.
- 2.14.2 The inner & outer envelope shall be addressed to the employer at the following address:  
The Administrative Head,  
Baroda U.P. Bank,  
Administrative Office,  
A-1, Civil Lines,  
Raebareli-229001  
(Uttar Pradesh)
- 2.14.3 The top of the envelope shall have clearly written in block letter the following –

**TENDER FOR FURNISHING, ELECTRICAL, DATA CABLING & AIR CONDITIONING PIPING WORK  
AT BARODA U.P. BANK, ADMINISTRATIVE OFFICE, BARGAD CHAURHA, RAEBARELI UTTAR  
PRADESH.**

2.14.4 The lower left hand corner of the envelope, the name & address of the bidder along with the telephone no./s & email should be inscribed.

2.14.5 If the outer envelope is not sealed & marked as in 2.14.1, the employer will assume no responsibility for the misplacement or premature opening of the bid.

**2.15 DEADLINE FOR SUBMISSION OF BIDS**

2.15.1 Bids must be received by the employer at the address specified above no later than **02.00 PM on 22-10-2021.**

In the event of the specified date for the submission of the bids is declared as a holiday by the employer's organization, the bids will be received up to the appointed time on the next working day.

2.15.2 The employer may extend the deadline for submission of bids by issuing an amendment in which case all rights & obligations of the employer & the bidders previously subject to the original deadline will then be subject to the new deadline.

2.15.3 In case of the above, all those bidders whose names, addresses & email id are in record with the employer will be intimated by cable at least two days in advance of the proposed date of submission of the bid.

2.15.4 Those bidders who fail to register their name, addresses & email id with the employer at the time of collection of the bid document shall have no right to 2.15.3 & can not hold the employer responsible for any damages whether direct or indirect.

**2.16 LATE BIDS**

2.16.1 Any bid received by the employer after the deadline as prescribed earlier will be returned unopened to the bidder.

**2.17 MODIFICATION & WITHDRAWAL OF BID**

2.17.1 Bidders may modify or withdraw their bids by giving notice in writing before the deadline as prescribed in clause no.2.15

2.17.2 Each bidder's modification or withdrawal notice shall be prepared, sealed, marked & delivered in accordance with clause no.2.13 & 2.14 with the outer & inner envelopes additionally marked "MODIFICATION" or "WITHDRAWAL" as appropriate. No bid may be modified or withdrawn after the deadline for submission of bids.

2.17.3 Withdrawal or modification of the bid between the deadline for submission of bids & the expiration of the original validity period or extended as above will result in the forfeiture of the bid security.

**2.18 BID OPENING**

2.18.1 The employer will open the bids, including the modifications in the presence on the bidders or their authorized representative / s who chose to attend at 03:30 PM on the date & place specified in the bid document. In the event of the specified date of the bid opening being declared a holiday by the employer's organisation, the bids will be opened at the appointed time & location on the next working day.

2.18.2 Envelopes marked withdrawal shall not be opened.

2.18.3 The bidder's name, the bid price, the total amount of each bid & of any alternative bid (if alternatives have been requested & permitted), any discounts, bid modifications & withdrawals, the presence or absence of bid security & such other details as the employer may consider



appropriate, will be announced by the employer at the opening. Any bid price, discount, or alternative bid price which is not read out & recorded at the bid opening will not be taken into account in bid evaluation.

## **2.19 PROCESS TO BE CONFIDENTIAL**

- 2.19.1 Information regarding to the examination, clarification, evaluation & comparison of bids & recommendations for the award of a contract shall not be disclosed to bidders or any other persons not officially concerned with such process until the award to the successful bidder has been announced. Any effort by the bidder to influence the employer's processing of bids or award decisions may result in the rejection of his bid.

## **2.20 CLARIFICATION OF BIDS**

- 2.20.1 To assist in examination, evaluation & comparison of bids, the employer may, at his discretion, ask any bidder for clarification of the bidder's bid, including breakdowns of unit rates. The request for clarifications & the response shall be in writing or by cable, but no change in the price of substance shall be sought, offered or permitted except as required to confirm the correction of arithmetic errors discovered by the employer in the evaluation of the bids.

## **2.21 EXAMINATION OF BIDS & DETERMINATION OF RESPONSIVENESS**

- 2.21.1 Prior to the detailed evaluation of bids, the employer will determine whether each bid
- (a) Meets the eligibility criteria defined in clause 2.2 & 2.3
  - (b) Has been properly signed
  - (c) Is accompanied with the required securities
  - (d) Is substantially responsive to the requirements of the bidding documents.
- 2.21.2 A substantially responsive bid is one which confirms to all terms, conditions & specifications of the building documents without material deviation or reservation. A material deviation or reservation is one:
- (a) Which limits in any substantial way the scope, quality or performance of the works
  - (b) Which limits in any substantial way, inconsistent with the bidding document, the employer's rights or the bidder's obligations under the contract.
  - (c) Whose rectification would affect unfairly the competitive position of other bidders presenting substantially responsive bids.
- 2.21.3 If a bid is not substantially responsive, it will be rejected by the employer & may not subsequently be made responsive by correction or withdrawal of the non confirming deviation or reservation.

## **2.22 CORRECTION OF ERRORS**

- 2.22.1 Bids determined to be substantially responsive will be checked by the employer for any arithmetic errors. Errors will be corrected by the employer as follows -
- (a) Where there is a discrepancy between the rates in figures & in words, the rate in words shall govern.
  - (b) Where there is a discrepancy between the unit rate & the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern.
- 2.22.2 The amount stated in the bid will be adjusted by the employer in accordance with the above procedure for the correction of errors & with the concurrence of the bidder, shall be considered as binding upon the bidder. If the bidder does not accept the correction amount, the bid will be rejected & the bid security may be forfeited.

## **2.23 EVALUATION & COMPARISON OF BIDS**

- 2.23.1 The employer will evaluate & compare only bids determined to be substantially responsive in accordance with clause no. 2.21
- 2.23.2 In evaluating the bids, the employer will determine for each bid the evaluated bid price by adjusting the bid price as follows:
- (a) Making any correction for errors pursuant to clause no. 2.22
  - (b) Making appropriate adjustment for any other acceptable variations, deviations etc.

- (c) Making appropriate adjustments to reflect discounts or other price modifications offered.
- 2.23.3 The employer reserves the right to accept or reject any variation, deviation or alternative offer. Variations, deviations & alternative offers & other factors which are in excess of the requirements of the bidding documents or otherwise result in unsolicited benefits for the employer shall not be taken into account in bid evaluation.

## **2.24 AWARD CRITERIA**

- 2.24.1 Subject to clause 2.25, the employer will award the contract to the bidder whose bid has been determined to be substantially responsive to the bidding documents & who has offered the lowest evaluated bid price. Provided that such bidder has been determined to be eligible in accordance with provisions of clause 2.2 & qualified in accordance with provisions of clause 2.3. It may be noted that having lowest bid is not the only criterion for award of the contract & does not guarantee the bidder of getting the contract.

## **2.25 EMPLOYER'S RIGHT TO ACCEPT ANY BID & TO REJECT ANY OR ALL BIDS**

- 2.25.1 Notwithstanding clause 2.24, the employer reserves the right to accept or reject any bid & to cancel the bidding process & reject any or all bids at any time prior to award of contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds of the employer's action.

## **2.26 NOTIFICATION OF AWARD & SIGNING OF AGREEMENT**

- 2.26.1 The bidder whose bid has been accepted will be notified of the award by the employer prior to expiration of the bid validity period by email confirmed by registered letter. The letter (hereinafter & in the conditions of contract called the "letter of acceptance") will state the sum that the employer will pay the contractor in consideration of the execution, completion & maintenance of the works by the contractor as prescribed by the contract (herein after called the 'contract price')
- 2.26.2 The notification of award will constitute the formation of the contract subject only to the furnishing of a performance guarantee in accordance with the provisions of clause 2.27
- 2.26.3 The agreement will incorporate all agreements between the employer & the successful bidder. It will be signed by the employer & sent to the successful bidder with in 28 days following the notification of award along with the letter of acceptance. Within 7 days of the receipt, the successful bidder will have to sign the agreement & deliver it to the employer.
- 2.26.4 If the successful bidder fails to do so, the employer will assume that the successful bidder is unwilling to execute the contract & the bid security of the successful bidder will be forfeited
- 2.26.5 In case of 2.26.4, the employer reserves the right to award the contract to the next lowest bidder provided he agrees to work on the same bid price as that of the successful bidder.
- 2.26.6 The owner may, at his own discretion, in the event of 2.26.4 happening call for fresh bids.
- 2.26.7 Upon the furnishing by the successful bidder of the performance security, the employer will promptly notify the other bidders that their bids have been unsuccessful.

## **2.27 DEFECTS LIABILITY PERIOD**

- 2.27.1 Twelve Months from the date of virtual completion of work (as per Virtual completion certificate).

## **2.28 COMPENSATION FOR DELAY**

- 2.28.1 Penalty for the delayed work/liquidated damages will be charged and payable @1% of the contract value per week up to a maximum of 5% of the contract value. In the event of the penalty charged exceeding 5% of the contract value, the Bank will be free to determine the contract after recovery of such charges from the security deposit and/or the retention amount. In case of any amount remaining outstanding, the same will be recoverable from any other works being carried out by the bidder for the Bank or through appropriate legal action. In case

of delays on the part of Bank, suitable extension of time will be granted but no other compensation will be paid for such delay.

## **2.29 ADVANCE PAYMENT**

2.29.1 No advance payment whatsoever will be made to the successful bidder for mobilization or for any other reason/s.

## **3.0 FORMAT OF THE FORM FOR BIDDER (TO BE SUBMITTED AS COVERING WITH THE BID)**

To  
The Administrative Head,  
Baroda U.P. Bank,  
Administrative Office,  
A-1, Civil Lines, Raebareli-229001  
(Uttar Pradesh)

**Subject: FURNISHING, ELECTRICAL, DATA CABLING & AIR CONDITIONING PIPING  
WORK FOR BARODA U.P. BANK, ADMINISTRATIVE OFFICE, BARGAD CHAURAHA,  
RAEBARELI UTTAR PRADESH.**

Sir,

1. I / we submit tender for execution of work as mentioned above as per the tender documents within the time schedule of completion of work for jobs, as separately signed & accepted by me / us, at the schedule of rates quoted by me / us for the whole work in accordance with notice inviting tender, instructions to the bidder, conditions of contract, important tender conditions, technical specifications, list of approved materials, bill of quantities, drawings as per all other details given in the tender document.
2. It has been explained to me / us that the time stipulated for jobs & completion of works in all respects & in different stages mentioned in the time schedule of completion of jobs & signed & accepted by me / us is the essence of the contract. I / we agree that in the case of failure on my / us part to strictly observe the time of completion mentioned for job / s on any of them to the completion of job/s, I / we shall pay compensation to the owner as per the provisions & stipulations contained in the tender document & I / we agree to recovery being made as specified therein. In exceptional circumstances, extension of time will not be counted for the extension of completion dates stipulated for the job & for the final completion of work as stipulated in the said "time of schedule" of completion of jobs.
3. I / we agree to pay the security deposit & accept the terms & conditions laid down below in this respect:
  - (a) Retention money : 5% of contract value will be deducted from each running/final bill of the contractor Towards security deposit.
  - (b) E.M.D. : We deposit herewith E.M.D. of Rs (as specified) by D.D. Rs 75,000/- favoring **Baroda U.P. Bank**, payable at Raebareli.
4. Should this tender be accepted, I / we hereby agree to abide by & fulfill all terms & conditions to above & in default therefore, to forfeit & pay to the owner or its successors or it's authorized nominees such sums of money as are stipulated in conditions of contract.
5. If I / we fail to commence the work specified in the memorandum in para (2) above, or I / we fail to deposit the amount of security deposit specified in the memorandum in (3) above, I / we agree that the said owner or its successor without prejudice to any other right or remedy be at liberty to forfeit the said security specified in (3) above. The said owner shall also be at liberty to cancel the notice of acceptance of tender in I / we fail to execute an agreement or to start work as stipulated in the tender documents.

Date.....Day of.....**2021**.

Name in block letters -

Address -

Yours faithfully,

**Signature of tenderer / s with the seal of the firm**

**Name & designation of authorized person signing the tender on behalf of the tenderer**

**4.0 CONDITIONS OF CONTRACT**

- 4.1 DEFINITIONS
- 4.2 EMPLOYER'S RISK
- 4.3 CONTRACTOR'S RISK
- 4.4 INSURANCE
- 4.5 SAFETY
- 4.6 POSSESSION OF THE SITE
- 4.7 SAMPLES & SHOP DRAWINGS
- 4.8 TIME OF COMPLETION
- 4.9 WATER & ELECTRICITY
- 4.10 VIRTUAL COMPLETION
- 4.11 VARIATIONS
- 4.12 TYPE OF CONTRACT
- 4.13 SCHEDULE OF QUANTITIES & VARIATIONS
- 4.14 LICENSE & PERMITS
- 4.15 TAXES
- 4.16 DELAYS
- 4.17 COMPENSATION FOR DELAY
- 4.18 LIQUIDATION DAMAGES
- 4.19 LABOUR REGULATIONS
- 4.20 SECURITY
- 4.21 ESCALATION OF MATERIALS COST
- 4.22 EXTRAS & VARIATIONS
- 4.23 WITHHOLDING OF PAYMENTS
- 4.24 CORRECTION OF WORK BEFORE VIRTUAL COMPLETION OF WORK
- 4.25 VIRTUAL COMPLETION
- 4.26 DEFECTS
- 4.27 METHODS OF MEASUREMENT
- 4.28 DISMISSAL OF CONTRACTOR'S EMPLOYEES
- 4.29 TERMINATION OF THE CONTRACT BY THE OWNER
- 4.30 JURISDICTION

- 4.31 TESTS & CERTIFICATES
- 4.32 CLEANING THE SITE
- 4.33 OPERATIONAL CONSTRAIN

#### **4.1 DEFINITIONS**

- 4.1.1 Bill of quantities means the prices & complete bill of quantities forming part of the bid.
- 4.1.2 The contract is the contract between the employer & the contractor to execute, complete & maintain the works.
- 4.1.3 The contractor is a person or corporate body whose bid to carry out work has been accepted by the employer.
- 4.1.4 The contract data defines the documents & other information which comprise the contract.
- 4.1.5 The contractor's bid is the completed bidding document submitted by the contractor to the employer.
- 4.1.6 The contract price is the price stated in the letter of acceptance & thereafter as adjusted in accordance with the provisions of the contract.
- 4.1.7 Days are calendar days & months are calendar months.
- 4.1.8 The defects liability period is the period named in the contract data & calculated from the completion date.
- 4.1.9 The employer is the party who will employ the contractor to carry out the works. In this case it will be -  
**The Administrative Head, Raebareli,**
- 4.1.10 The Engineer / Architect is the person named in the contract data or any other competent person appointed & notified to the contractor to act as replacement to the engineer / architect) who is responsible for supervising the contractor, administering the contract, certifying payments due to the contractor, issuing & valuing variations to contract, awarding extensions of time (if permissible) & valuing the compensation events (if permitted). In this case the Engineer / Architect will be –

**Gunjan & Associates**

**141, Sainik nagar 9<sup>th</sup> Lane, Raebarelli Road, Lucknow-226002.**

**Ph-9838818489**

- 4.1.11 Equipment is the contractor's machinery & vehicles brought temporarily to the site to construct works.
- 4.1.12 The initial contract price is the contract price listed in the employer's letter of acceptance.
- 4.1.13 The intended completion date is the date on which it is intended that the contractor shall complete the works. The intended completion date is specified in the contract data. The intended completion date may be revised only by the engineer in consultation with the owner by issuing an extension of time.
- 4.1.14 Materials are all supplies, including consumables, used by the contractor for incorporation in the works.
- 4.1.15 the site is the area defined as such in the contract data which shall be

**FURNISHING, ELECTRICAL, DATA CABLING & AIR CONDITIONING PIPING WORK FOR BARODA U.P. AT BARODA U.P. BANK ADMINISTRATIVE OFFICE, BARGAD CHAURAH, RAEBARELI**

- 4.1.16 Specification means the specification of the works included in the contract & any modification or addition made or approved by engineer / architect.
- 4.1.17 The start date is given in the contract data, it is the date when the contractor shall commence execution of the works. It does not necessarily coincide with any of the site possession data.
- 4.1.18 Temporary works are works designed, constructed, installed & removed by contractor which are needed for construction or installation of the works.
- 4.1.19 A variation is an instruction given by the engineer/architect which varies the work.

## **4.2 EMPLOYER'S RISK**

- 4.2.1 The employer is responsible for the accepted risks which are -
  - (a) In so far as they directly affect the execution of the work in the employer's country, the risk of war, hostilities, acts of terrorism, riot, commotion of disorder (unless restricted to the contractor's employees).
  - (b) A cause due solely to the design of the works, other than the contractor's design.

## **4.3 CONTRACTOR'S RISK**

All risks of loss of or damage to physical property & of personal injury & death which arise during & in consequence of the performance of the contract other than the accepted risks are the responsibility of the contractor.

## **4.4 INSURANCE**

Before commencing the execution of works, the contractor without limiting his obligations & responsibilities under this contract, shall ensure against his liability for any loss or injury which may occur to any person including any employee of the owner or a member of the general public, by or arising out of the execution of the work or in carrying out of the contract. Unless otherwise stipulated elsewhere in this contract, it shall be obligatory for the contractor to obtain the insurance cover under the following policy -

- (a) Contractor's all risks insurance policy to cover the following:
- (b) Policy to cover contractor's liability under workmen's compensation act 1923, minimum wages act 1948, contract labour (regulation & abolition act 1970 & other relevant acts listed elsewhere). This shall be for the period of compensation period.

The contractor shall insure against all such liabilities & shall continue such insurance during the whole of the time when any person employed by him is on the works. Premium for all insurance policies shall be paid by the contractor & shall not be reimbursable.

## **4.5 SAFETY**

The contractor shall be responsible for the safety of all activities on the site.

## **4.5 DISCOVERIES**

Anything of historical or other interest of significant value unexpectedly discovered on the site is the property of the employer. The contractor is to notify the engineer of such discoveries & carry out the engineer's instructions for dealing with them.

## **4.6 POSSESSION OF THE SITE**

The employer shall give possession of all parts of the site to the contractor. If possessions of a part are not given by the date stated in the contract data, the employer is deemed to have delayed the start of the relevant activities.

## **4.7 SAMPLES & SHOP DRAWINGS**

After the award of the contract, the contractor shall furnish for the approval of the architect, samples & shop drawings (where appropriate) for all materials, finishes & work listed elsewhere in these conditions.

**4.8 TIME OF COMPLETION**

The work shall be completed in all respects within **60 days** (including holidays & Sundays) from the date of award of work inclusive of mobilization period.

**4.9 WATER & ELECTRICITY**

These shall be arranged by the owner at one or more convenient point/s. Necessary extensions of these supplies will have to be got executed by the contractor at his own cost.

**4.10 VIRTUAL COMPLETION**

Virtual completion certificate shall mean the certificate / s to be issued by the architect when the "works" according to the architect have been completed in every respect in conformity with the contract documents & are ready & fit for occupation / commissioning.

**4.11 VARIATIONS**

The owner reserves the right to increase, decrease or delete the scope of work or any or all items, subject to limitation laid down. The contractor shall have no claim for loss of anticipated profits or for any other reason whatsoever on account of these variations.

**4.12 TYPE OF CONTRACT**

The contract shall be an item rate contract. The contractor shall be paid at the contract rates, for the actual quantity of the work carried out by him as measured, in accordance with the contract documents.

**4.13 SCHEDULE OF QUANTITIES & VARIATIONS**

The quantities given in the schedule of quantities are provisional & are meant to indicate the intent of work & provide a uniform basis for tendering. The contractor shall be paid for the actual quantity of work executed by him in accordance with the right to increase or decrease any of the quantities or totally omit any items of work & the contractor shall not claim any extra or damages on these grounds subject to the condition that the overall contract amount is not varied by more than +/- 50% overall contract amount, for the purpose of variation shall not take into account the additions to the total amount because of escalation of price materials, labour, etc. Any error in description or in quantity or omission of item in the schedule of quantities shall not vitiate this contract but shall be deemed to be a variation required by the architect.

**4.14 LICENSE & PERMITS**

License & permits for all materials under the govt. control shall be obtained by the contractor directly. The owner may assist the contractor in this respect to the extent possible. The contractor shall include in his tender all transport charges & other expenses that may be incurred in this connection.

**4.15 TAXES**

The rates quoted by the contractor for each item shall be inclusive of all taxes (such as sales tax both central & state), trade tax, income tax, turnover tax, works contract tax, excise duty, octroi etc. complete on all materials & equipment forming part of the work. **Only GST shall be payable extra as applicable**

#### **4.16 DELAYS**

Should the contractor be delayed or impeded in; the execution of works by reason of:

- (a) Force majeure.
- (b) By the works or delays of other contractors or tradesman, engaged or nominated by the owner & not referred to in the contract document.
- (c) The non delivery or delay in the delivery to the contractor of any materials & equipment which under the contract the owner or the architect; or
- (d) Any cause, whatever arising out of the acts of defaults of the owner or the architect; or
- (e) Any accident happening to the works during the progress not arising from negligence, default of the contractor or his workmen or subcontractor; or
- (f) Extras or variations being ordered by the architect; or
- (g) Any other cause which is in the opinion of the architect has caused delay; the contractor may from time to time within 14 working days of the happenings of any of the aforesaid, writing to the architect for an extension of time on account thereof, setting forth the cause of such delays.

The architect / owner shall, if he thinks the cause sufficient but not otherwise, by writing within 14 working days extend the time of completion of the works for such periods as he shall think adequate.

Unless the contractor shall ask for any extension of time within the period & the manner aforesaid,\* unless & until the architect / owner shall extend the time aforesaid, the contractor shall not by reason of any delay arising from cause aforesaid, be relieved in any way or to any extent from his obligation to proceed with, execute & complete the works within the time specified in the contract for the completion of the work.

#### **4.17 COMPENSATION FOR DELAY**

The contractor shall not be entitled to any compensation for any loss suffered by him on account of delays in commencing or executing the work whatever the cause of delays arising out of modification of the work entrusted to him or in any sub contracts connected therewith or delays in contracts for other trades of the project or in commencement of completion of such works.

#### **4.18 LIQUIDATION DAMAGES**

The contractor shall pay the owner such as stipulated liquidation damage for each day. Sundays & holidays inclusive that he work remain incomplete after the contract date for completion orally extended time as may be granted by the architect, provided that the total amount payable by way of damages shall not exceed 10% (ten percent only) of the total initial contract amount.

#### **4.19 LABOUR REGULATIONS**

The contractor shall be wholly & solely responsible for full compliance with the provisions under all labour laws of the Union of India &/or regulations such as payment of wages act 1936, minimum wages act 1948 & its subsequent amendment/s.

#### **4.20 SECURITY**

It will be responsibility of the contractor only.

#### **4.21 ESCALATION OF MATERIAL'S COST**

It is a fixed rate contract, no escalation either on materials or labour whatsoever shall be paid under any circumstances.



#### **4.22 EXTRAS & VARIATIONS**

If at any time whilst the works are in progress it shall be deemed specially by the architect to order material or work of a different description from that specified, he shall have full power to order & direct any such variations & additions & the work involved in any such variations additions shall be executed by the contractor if of the class of work provided for in the documents at the contract, or extend the time of completion but such additions or variations shall be paid for or deducted from the account of the contractor, as the case may require, according to the rates set but in the schedule of quantities.

The rates for such additional altered or substituted work under this clause shall be worked out in accordance with the following provisions in their respective order -

- (a) If the rates for the additional, altered or substituted work specified in the contract for the work, the contractor is bound to carry out the additional, altered or substituted work at the same rate as specified in the contract for work.
- (b) If the rates for the additional, altered or substituted work are not specifically provided in the contract for the work, then such rates will be derived from the rates for a similar class of work as specified in the contract for work.
- (c) If the altered, additional or substituted work cannot be derived from similar class of work as laid down in (b) above, then the rates for such items of work shall be completed on the basis of the analysis of rates as provided in all schedule of rates 1977-III standard analysis of rates (volume I & 2) published by national building organisation, New Delhi.

But if the contractor & architect cannot agree as to the rate to be paid, the architect may order & direct the same to be done by such person/s as he may think fit; & such person/s shall be permitted by the contractor to enter upon the works for the purpose of carrying out such work/s as is required.

#### **4.23 WITHHOLDING OF PAYMENTS**

The architect may withhold or on account of subsequently discovered evidence, nullify the whole or a part of any certificate to such extent as may be necessary to protect, the owner from loss on account of -

- (a) Defective work not remedied.
- (b) Failure of the contractor to make payments to sub contractors (if permitted) for materials or labour or equipments.
- (c) A reasonable doubt that the contract can be completed for the balance unpaid amount. Damage of works of another contractor or sub-contractor.

#### **4.24 CORRECTION OF WORK BEFORE VIRTUAL COMPLETION OF WORK**

The architect shall conduct a final inspection just prior to the virtual completion of the work & prepare a list of materials, equipment & items of work which fail to confirm to the contract specifications. The contractor shall promptly replace & re execute such items in accordance with the contract & shall bear all expenses of making good all work & the cost work of other contractors destroyed or damages by such replacement or removal. If the contractor fails to remove & replace above, rejected materials, equipment & or workmanship within a reasonable time, fixed by written notice, the owner may employ any other persons to amend & make good such defects at the expense to the contractor.

All expenses incurred by the owner in consequent on the defects shall be recoverable from any amount due or that may become due to the contractor.

#### **4.25 VIRTUAL COMPLETION**

The work shall be considered to be virtually complete only upon fulfillment of the procedure laid down in clause above & when the architect has certified in writing that the work has been virtually completed. The defects liability period shall commence from the date of the certificate. Should the owner decide to occupy any portion/s of the building or use any part of any equipment, before the contract is completed, same shall not constitute as acceptance of any part of the work unless so stated in writing by the architect.

#### **4.26 DEFECTS**

- 4.26.1 The contractor shall make good, at his own cost & to the satisfaction of the architect from work of materials not being in confirmation of the drawings or specifications or schedule of quantities or the specifications of the architect, which may appear within six months after completion of work.
- 4.26.2 Any defects noticed & brought to the attention of the contractor shall be promptly attended to by the contractor expeditiously.
- 4.26.3 After the contract is signed, the contractor will be furnished with two copies of the drawings & two copies each of conditions & contract, specifications & schedule of quantities without cost to him for his own use until the completion of the contract. Additional copies of the drawings & other documents will be supplied on payment to the architect at actual cost.
- In general, the drawings shall indicate dimensions, position & type of construction; the specification shall indicate the quantity & rate for each item of work. However the above documents being complementary, what is called for by any one shall be binding as if called for by all. In case of any discrepancies in or among the documents, the most stringent of all shall apply. No deviations from the drawings, specifications & schedule of quantities shall be made. The architect's interpretation of these documents shall be final & without appeal.

#### **4.27 METHODS OF MEASUREMENT**

For measuring of work, the standard method of measurement in accordance with the standards laid down by the BIS shall be adopted unless otherwise specified. In the event of any dispute with regard at the mode of measurement of the work executed, the decision of the architect shall be final & binding.

#### **4.28 DISMISSAL OF CONTRACTOR'S EMPLOYEES**

The contractor shall on request of the architect immediately dismiss from the works of any person / s employed thereon by him who may, in the opinion of the architect be incompetent misconduct's himself & such person shall not be re employed on the works without the permission of the architect.

#### **4.29 TERMINATION OF THE CONTRACT BY THE OWNER**

If the contractor should persistently or repeatedly refuse to carry on the work diligently or shall fail except in case for which extension of time is provided, to supply enough properly skilled manpower or proper materials or equipment for the progress of work, or if he should fail to make prompt payments to sub contractors(if permitted) or for materials or equipment / s or labour or persistently disregard laws, ordinances or instructions of the architect or otherwise be guilty of a violation of any provision of the contract, or has abandoned the contract, or has failed to commence the works, or has suspended the works, then the owner upon the certificate of the architect that sufficient cause exists to justify such action say without prejudice to any other right or remedy & after giving the contractor seven days notice in writing, terminate the employment of the contractor & take possession of the premises of all materials, equipment/s,

T&P thereon & use these as owners property for the completion of the work. In such case, the contractor shall not be entitled to receive any further payment until the work is finished.

**4.30 JURISDICTION**

All matters arising out of or in way connected with this agreement shall be deemed to have arisen at RAEBARELI (Uttar Pradesh) & shall have jurisdiction to determine the same.

**4.31 TESTS & CERTIFICATES**

The contractor shall be & remain liable at his own cost to conduct all tests at all relevant times during supply, erection & installation of any works, structures, materials & components as shall be required in terms of the contract document. On testing if the architect is not satisfied by the quality or workmanship of any structure, material or component, the contractor shall re perform as per the specifications.

**4.32 CLEANING THE SITE**

The contractor shall be responsible for removing malba from the site to place permitted by the municipal authorities every 48 hours & cleaning the site regularly. Cost of removal of malba, transportation, loading, unloading etc. (up to any lead) shall be included in the cost of the relevant item of construction.

**4.34 OPERATIONAL CONSTRAIN**

This is a new premises & the space is freely available during period of execution of work.

## **5.0 IMPORTANT TENDER CONDITIONS (over riding any other condition laid down earlier**

1	Possession of site	: Immediate.
2.	Time of completion	: 60 days from the date of handing over the site
3.	Liquidation damages will be made.	Per day: Rs.1000/- per day inclusive of Sunday, holidays, limited to 10% of the Contract amount.
4.	Payment schedule	No advance payment Maximum of two interim payments on running bills before final bills
5.	Retention money	5% (five percent only) of the value of the interim bills.
6.	Period of submitting final bills	: Within 30 days of virtual completion of work.
7.	Release of retention money :	: 50% of the retention amount within 15 days of virtual completion.
8.	Defects liability	: Twelve Months from the date of virtual completion of work (as per Virtual completion certificate).
9.	Estimated cost of work	: As section 1.
10.	Income tax & other taxes:	will be deducted as per the prevailing income tax rules
11 .	Rate(central) trade	: Rates are inclusive of all taxes such as sales tax (state & central), trade Tax, works contract tax, etc. except GST

## **TECHNICAL SPECIFICATIONS**

### **6.1.1 Quality**

All materials used in the works shall be of their respective kinds as specified herein, obtained from sources & suppliers as approved by the architects & shall comply strictly with the tests prescribed hereafter, or where tests are not laid down in the specifications, with the requirements of the latest issue of the relevant Indian standard.

### **6.1.2 Sampling & testing**

All materials used in the works shall be subject to inspection & test in addition to test certificate of all materials proposed to be incorporated in permanent works shall be submitted to the architect for approval before they are brought to the site.

### **6.1.3 Rejection**

Any materials that have been not found to confirm to the specifications will be rejected forthwith & shall be removed from the site by the contractor at his own cost.

The architect shall have power to cause the contractors to purchase & use such material / s from any particular source / s as May in his opinion be necessary for the proper execution of the work.

## **6.2 WORKMANSHIP**

All works shall be true to level, plumb & square & the corners, edges, etc. in all cases shall be unbroken & net. Distemping, POP / Painting / Polishing shall be provided in accordance with CPWD specifications 1977 & relevant standards as applicable to this work. Painting with plastic emulsion paint (if required) shall be as per CPWD specifications 1977 & IS 5411-1969.

Paint shall be of approved manufacturer & brand. All timber shall be treated with preservatives before delivery to site. While remaining in proper wrapping, timber shall be protected from extremes of temperature & direct sunlight. Timber shall be soft wood or hardwood as suitable for the purpose for which it is intended. It shall be seasoned, free of defects which would affect strength or usability & shall be flat, non splitting & dressed on all sides. All glue, laminate, ply, board shall be as per relevant IS codes. Where ever teak is specified it shall be 1st. Class C.P. Teak. All aluminium work prelaminate particle board work & glass work will be as per the relevant IS codes & their latest amendments.

## **6.3 FINISH**

Finishes shall be fully in accordance with the drawings & schedules and / or as per the directions of the architect.

## **6.4 SAMPLES**

A sample of every item to be incorporated shall be submitted for approval of the architect before placing the order. Approved samples shall be used as standards of finish & workmanship.

### **LIST OF ACCEPTABLE MATERIALS**

<b>S.No</b>	<b>Description</b>	<b>Approved Brand/ Manufacturer</b>
1.	Cement	M/s ACC, M/s Prism , M/s Jaypee
2.	Wood	Kail wood
3.	Polish	MRF Polyurethane
4.	Termite treatment	Chloroporyphos 20% concentration / Dusban / Terminator pidlite make
5.	Soft Board	Celotex
6.	False Ceiling and Sections	Grid Tiles ---Armstrong, St Gobain Gypsum India,
7.	Aluminium sections	Hindalco, Jindal, Indal
8.	Vitrified Floor tiles	SOMANY, ASIAN, JOHNSON
9.	Block boards / Plywood/Flush doors BWP	<b>Archid BWP , DURO BWP, M/s Century BWP , No alternate brands from the same manufacturer allowed</b>
10.	Laminates	M/s Green Mika , Merino , Century & Archid
11.	Hardware-(Aluminium)	Approved design, brand, quality & manufacture Allowed
12.	Hardware	ALL HARDWARE TO ONLY GODREJ
13.	Drawer/ cabinet Handless/locks	Dorset / Kitch/ Godrej/ hettich
14.	Magnet Catcher	Supreme, Excel
15.	Drawer / cabinet shutter Accessories	Ebbco, Hettich, Hafele
16.	Synthetic Enamel Paints, Distemper or Plastic paint Best quality of make as approved	Asian Paints Ltd), Berger Paints (India) Ltd.(Luxol), ICI, Nerolac.
17.	Venetian blinds/ verticals	Vista/sun
18.	Glazing	M/s Modiguard, M/s asahi india, Saint Gobain.
19.	Door Closer/ floor spring	Godrej, Dorma, Ozone
20.	Glue Addhessive	Fevicole, Century
21.	Door handles/ Locks	Godrej
22.	Screw	Excel GKW
23.	Glass brass bracket	Flora, Perfect

24.	POP bag or readymade work	Diamond (Super fine quality)
25.	GI section for Partitions, Panel, false ceiling	Same Company as of Gypsum Bard or Mineral Fibre Tiles
26.	Film	Alkor, Garware, 3M
27.	Plants	
28.	Wire management holes	Twinkle
29.	Cement Board	E board, Bison,
30.	Vitrified floor tiles adhesive / Grout	Bal Endura, Dr. Fixit Fevimate XL with Polymer Modified Mortar, ROFF Granite tile adhesive
31.	Texture	Spectrum , Heritage, Acro paint
32.	Upholstery	Raymonds
33.	Sanitary Fixtures	Cera, Hindware, Parryware
34.	GI Pipes and accessories	TATA
35.	CI Pipes and accessories	NECO
36.	Plumbing Fittings	Jaquar Continental series
37.	Ceramic Tiles	Kajaria (High Lighter Concept)
38.	Chairs / Sofa	Godrej, Delite / Debono

## 1. Technical Specifications for Point Wiring

### 1.1 Light, Fan & Exhaust Point Wiring thru Modular switch

S.No.	Particulars	Specifications	Compliance Y/N
1	Nominal Copper Stranded wires	3 x 1.5sq mm	
2	Voltage Grade	1.1 kV	
3	Type	Fire Resistant Low smoke Halogen	
4	Conductor Material	Copper Conductor	
5	Insulation Type	PVC Insulated	
6	No of Cores/ Wires	3 of 1.5sq.mm	
7	6A Modular switch	To control each point separately or 2 or 3 light points as per tender	
8	Indian Standard	Conforming to IS: 694/ 1990 for wires & IS: 1293/ 1988 for modular switch & sockets	
9	Make of modular switch & wire	Tenderer to Specify	
10	Separate Earth wire from TPN Db	Separate Earth wire for each Point	
11	Separate Neutral from TPN Db	Separate Neutral for each Point	
12	Inter looping of earth & Neutral	Conform no interloping of earth wire & Neutral	

## 1.2 6A Modular Switch & socket on board and its wiring in board

S.No.	Particulars	Specifications	Compliance Y/N
1	Nominal Copper Stranded wires	3 x 1.5sq mm	
2	Voltage Grade	1.1 kV	
3	Type	Fire Resistant Low smoke Halogen	
4	Conductor Material	Copper Conductor	
5	Insulation Type	PVC Insulated	
6	No of Cores/ Wires	3 of 1.5sq.mm	
7	6A Modular Switch & Socket	To be installed in each Sub Board	
8	Indian Standard	Conforming to IS: 694/ 1990 for wires & IS: 1293/ 1988 for modular switch & sockets	
9	Make of modular switch & wire	Tenderer to Specify	
10	Separate Earth wire from TPN Db	Separate Earth wire for each Point	
11	Separate Neutral from TPN Db	Separate Neutral for each Point	
12	Inter looping of earth & Neutral	Conform no interloping of earth wire & Neutral	

## 1.3 Circuit Wiring for Light, Fan & Exhaust Fan Points

S.No.	Particulars	Specifications	Compliance Y/N
1	Nominal Copper Stranded wires	3 x 1.5sq mm	
2	Voltage Grade	1.1 kV	
3	Type	Fire Resistant Low Smoke Halogen	
4	Conductor Material	Copper Conductor	
5	Insulation Type	PVC Insulated	
6	No of Cores/ Wires	3 of 1.5sq.mm	
7	Indian Standard	Conforming to IS: 694/ 1990 for wires	
8	Make of wire	Tenderer to Specify	
9	Separate Earth wire from TPN Db	Separate Earth wire for each Point	
10	Separate Neutral from TPN Db	Separate Neutral for each Point	
11	Inter looping of earth & Neutral	Conform no interloping of earth wire & Neutral	



## 1.4 Primary & Secondary Power Point circuit wiring c/w 16A Modular Switch & Socket

S.No.	Particulars	Specifications	Compliance Y/N
1	Nominal Copper Stranded wires	2 x 4 sq mm + 1 x 1.5sq.mm	
2	Voltage Grade	1.1 kV	
3	Type	Fire Resistant Low Smoke Halogen	
4	Conductor Material	Copper Conductor	
5	Insulation Type	PVC Insulated	
6	No of Cores/ Wires	2 x 4 + 1 x 1.5	
7	16A Modular Switch & Socket	For Each Primary & secondary PP	
8	Indian Standard	Conforming to IS: 694/ 1990 for wires & IS: 1293/ 1988 for modular switch & sockets	
9	Make	Tenderer to Specify	
10	Separate Earth wire from TPN Db	Separate Earth wire for each Circuit	
11	Separate Neutral from TPN Db	Separate Neutral for each Circuit	
12	Inter looping of earth & Neutral	Conform no interloping of earth wire & Neutral	

## 2. Technical Specifications for Air conditioning Distribution

### 2.1 & 2.3 AC Circuit, Voltage stabilizer

#### Cabling

S.No.	Particulars	Specifications	Compliance Y/N
1	Nominal Cable size	4 sq.mm	
2	Voltage Grade	1.1 kV	
3	Nominal Current rating	39A in Air	
4	No of Cores	3	
5	Material	Copper Conductor	
6	Insulation Type	XLPE	
7	Sheath	PVC Inner sheathed	
8	Indian Standard	Conforming to IS: 1554 (PART I) Amended up to date	
9	Make	Tender to Specify	
10	Cable Termination	Confirm all wires terminated thru fork/ cotter type lugs	

## 2.2 Air Conditioning Plug & socket

S.No.	Particulars	Specifications	Compliance Y/N
1	Type	MCB Protected Power unit with provisioning for 2P MCB	
2	Protection	IP -20	
3	Make	Siemens or Havells (DHD DCDP025202503 2P) or equivalent other specify	
4	Rating of 2P MCB	20A/ 25A & 32A	
5	Wire Terminations	Confirm all wires terminated thru fork/ cotter type lugs	

## 2.4 Cassette outdoor MCB in 4way SPN Db

S.No.	Particulars	Specifications	Compliance Y/N
1	Type	4way SPN Single door IP - 20	
2	Nos. of slots	4	
3	Nos. of MCB's	1	
4	Input MCB	63A 2P "C" Characteristics 10kA	
5	Db body	Metallic, Powder Coated (100 $\pm$ 25 microns)	
6	Make	Havells / Siemens or any other equivalent specify	
7	Input Wiring	3 c 4sq.mm Cu armoured cable	
8	Wiring Termination	Termination thru proper size of fork/ pin/ cotter type lugs	
9	Output wiring	To Outdoor Cassette unit in AC vendor scope	
10	Wiring Termination	Termination thru proper size of fork/ pin/ cotter type lugs	
11	Earthing	Whether SPN Db is earthed or Not?	
12	Location	Whether approved by Purchaser?	

## 2.5 Cassette Out door unit supply Cable

S.No.	Particulars	Specifications	Compliance Y/N
1	Nominal Cable size	4 sq.mm	
2	Voltage Grade	1.1 kV	
3	Nominal Current rating	39A in Air	
4	No of Cores	4	
5	Material	Copper Conductor	
6	Insulation Type	XLPE	
7	Sheath	PVC Inner sheathed	
8	Indian Standard	Conforming to IS: 1554 (PART I) Amended up to date	
9	Make	Tender to Specify	
10	Cable Termination	Confirm all wires terminated thru fork/ cotter type lugs	

## 3. Technical Specifications for UPS Distribution

### 3.1 UPS Supply Regulating Changeover in SS enclosure

S.No.	Particulars	Specifications	Compliance Y/N
1	Type	Front operated 100A 4P Change over in Sheet steel enclosure	
2	Degree of Protection	IP - 20	
3	Voltage	415V	
4	Rated insulation voltage	750V	
5	ISS/ IEC	IS/ IEC:60947 -3	
6	Sheet Steel Enclosure	To house 100 4P changeover	
7	Make	Tenderer to Specify	
8	Input Cable	4c 10sq.mm Cu Conductor XLPE Armoured	
9	Cable termination	Termination thru proper size of lugs	
10	Earthing	Whether Change- over is properly earthed or not?	

### 3.2 100A 4P MCCB in SS enclosure

S.No.	Particulars	Specifications	Compliance Y/N
1	MCCB	100A 4P	
2	Specifications of MCCB	16kA, Fixed Thermal & Fixed Magnetic	
3	Voltage	415V	
4	ISS/ IEC	IS/ IEC:60947 -2	
5	Sheet Steel Enclosure	To house 100 4P MCCB	
6	Make	Tenderer to Specify	
7	Input Cable	4c 10sq.mm Cu Conductor XLPE Armoured	
8	Cable termination	Termination thru proper size of lugs	

### 3.3 UPS Input Cable

S.No.	Particulars	Specifications	Compliance Y/N
1	Nominal Cable Size	10 sq. mm	
2	Voltage Grade	1.1 kV	
3	Nominal Current Rating	67A, when laid in open/ Air	
4	No of Cores	Four Core	
5	Material	Copper Conductor	
6	Insulation Type	XLPE Insulated	
7	Sheath	PVC Inner Sheathed	
8	Indian Standard	Conforming to IS: 1554 (PART I) Amended up to date	
9	Make	Tenderer to Specify	
10	Cable Termination	Termination thru proper size of lugs	

### 3.4 UPS Output Cable

S.No.	Particulars	Specifications	Compliance Y/N
1	Nominal Cable Size	10 sq. mm	
2	Voltage Grade	1.1 kV	
3	Nominal Current Rating	67A, when laid in open/ Air	
4	No of Cores	Three Core – 1P + 1N + 1E	
5	Material	Copper Conductor	
6	Insulation Type	XLPE Insulated	
7	Sheath	PVC Inner Sheathed	
8	Indian Standard	Conforming to IS: 1554 (PART I) Amended up to date	
9	Make	Tenderer to Specify	
10	Cable Termination	Termination thru proper size of lugs	

### 3.5 UPS Output Regulating HTPN Distribution Board

S.No.	Particulars	Specifications	Compliance Y/N
1	Type	4- way HTPN Single door IP - 20	
2	Nos. of slots	8 incoming + 12 Outgoing	
3	Input MCB	80A 2P MCB "C" Characteristics 10kA	
4	Outgoing MCB's	R – 63A 2P "C" Characteristics 10kA Y – 40A 2P + 16A 2P B – 40A 2P + 16A 2P	
5	Nos. of MCB's	1 incomer+ 5 outgoing	
6	MCB Rating	80A Incomer+ 63A, 2*40A & 2*16A outgoing	
7	Db body	Metallic, Powder Coated (100 ± 25 microns)	
8	Make	Siemens 8GB32201RC04 or any other specify	
9	Input cable	3c x 10sq.mm Copper conductor XLPE Insulated Armoured	
10	Cable Termination	Termination thru proper size of lugs	
11	Output wiring	3 x 2.5sq.mm Cu Stranded FRLSH	
12	Wiring Termination	Termination thru proper size of fork/ pin/ cotter type lugs	
13	Earthing	Whether HTPN Db is earthed or not?	
14	Location	Whether approved by Purchaser?	

### 3.6a UPS Output SPN Distribution Board Type -1

S.No.	Particulars	Specifications	Compliance Y/N
1	Type	12way SPN Single door IP - 20	
2	Nos. of slots	2 in-coming + 10 Outgoing	
3	Nos. of MCB's	1 incomer+ 10 Outgoing	
4	Input MCB	63A 2P "C" Characteristics 10kA	
5	Outgoing MCB's	1 x 16A + 9 x 10A SP "C" Characteristics 10kA	
6	Db body	Metallic, Powder Coated (100 ± 25 microns)	
6	Make	Siemens 8GB32101RC12 or any other equivalent specify	
9	Input Wiring	3 x 2.5 sq.mm Cu Stranded FRLSH	
10	Wiring Termination	Termination thru proper size of fork/ pin/ cotter type lugs	
11	Output wiring	3 x 2.5 sq.mm Cu. stranded FRLSH	
12	Wiring Termination	Termination thru proper size of fork/ pin/ cotter type lugs	
13	Earthing	Whether SPN Db is earthed or Not?	
14	Location	Whether approved by Purchaser?	

### 3.6b UPS Output SPN Distribution Board Type -2

S.No.	Particulars	Specifications	Compliance Y/N
1	Type	12way SPN IP - 20	
2	Nos. of slots	2 incoming + 10 Outgoing	
3	Input MCB	40A 2P MCB “C” Characteristic 10kA	
4	Outgoing MCB’s	1x 10A + 5 x16A 1P “C” Characteristics 10kA	
5	Nos. of MCB’s	1 + 6	
6	Db body	Metallic, Powder Coated (100 + <u>25</u> microns)	
7	Make	Siemens 8GB32102RC12 or any other equivalent specify	
8	Input Wiring	3 x 2.5 sq.mm Cu Stranded FRLSH	
9	Wiring Termination	Termination thru proper size of fork/ pin/ cotter type lugs	
10	Output wiring	3x 2.5 sq.mm Cu Stranded FRLSH	
11	Wiring Termination	Termination thru proper size of fork/ pin/ cotter type lugs	
12	Earthing	Whether SPN Db is earthed or not?	
13	Location	Whether approved by Purchaser?	

### 3.6c UPS Output SPN Distribution Board Type 3

S.No.	Particulars	Specifications	Compliance Y/N
1	Type	12way SPN IP - 20	
2	Nos. of slots	2 incoming + 10 Outgoing	
3	Input MCB	40A 2P MCB “C” Characteristic 10kA	
4	Outgoing MCB’s	8 x 10A 1P “C” Characteristics 10kA	
5	Nos. of MCB’s	1 + 8	
6	Db body	Metallic, Powder Coated (100 + <u>25</u> microns)	
7	Make	Siemens 8GB32102RC12 or any other equivalent specify	
8	Input Wiring	3 x 2.5 sq.mm Cu Stranded FRLSH	
9	Wiring Termination	Termination thru proper size of fork/ pin/ cotter type lugs	
10	Output wiring	3x 2.5 sq.mm Cu Stranded FRLSH	
11	Wiring Termination	Termination thru proper size of fork/ pin/ cotter type lugs	
12	Earthing	Whether SPN Db is earthed or not?	
13	Location	Whether approved by Purchaser?	

### 3.7 Input wiring for UPS Output Db's

S.No.	Particulars	Specifications	Compliance Y/N
1	Nominal Copper Stranded wires	3 x 2.5sq mm	
2	Voltage Grade	1.1 kV	
3	Type	Fire Resistant Low Smoke Halogen	
4	Conductor Material	Copper Conductor	
5	Insulation Type	PVC Insulated	
6	Indian Standard	Conforming to IS: 694/ 1990	
7	No of Cores/ Wires	3	
8	Make	Tender to Specify	
9	Separate Earth wire from SPN Db	Separate Earth wire for each Circuit	
10	Separate Neutral from SPN Db	Separate Neutral for each Circuit	
11	Inter looping of earth & Neutral	Conform no interloping of earth wire & Neutral	

### 3.8 Output wiring from UPS Output Db's (Included in 3.9 & 3, 10)

S.No.	Particulars	Specifications	Compliance Y/N
1	Nominal Copper Stranded wires	3 x 2.5 sq.mm	
2	Voltage Grade	1.1 kV	
3	Type - FRLSH	Fire Resistant Low Smoke Halogen	
4	Insulation Type	PVC Insulated	
5	Indian Standard	Conforming to IS: 694/ 1990	
6	Make	Tenderer to Specify	
7	Earth wire from sub distribution board	Separate Earth wire for each point	
8	Neutral from sub distribution board	Separate Neutral for each point	
9	Inter looping of earth & Neutral	Conform no interloping of earth wire & Neutral	

### **3.9 UPS Nodes- Primary + Secondary** **(Specification of node wiring refer 3.8 above)**

S.No.	Particulars	Specifications	Compliance Y/N
1	Switches & sockets in Node	1switch + 3 sockets	
2	Rating	1 x 16A switches & 3 x 6A 3 Pin sockets	
3	Type	Modular switch & Sockets	
4	Indian Standard	IS: 1293/ 1988 for modular switch & sockets	
5	Make of switch/ sockets	Tenderer to specify	
6	MS/ GI Box embedded	Whether in Wall/ floor/ Paneling	
7	Incoming wires	3 x 2.5sq.mm Copper Stranded FRLSH	
8	Wiring Termination	Termination thru proper size of fork/ pin/ cotter type lugs	

## **4. Technical Specifications for Main Panel & Distribution**

### **4.1 Fuse Kit Kats**

S.No.	Particulars	Specifications	Compliance Y/N
1	Kit Kat Rating	200A	
2	Quantity	3nos.	
3	Type	Rewire-able porcelain base fuse carrier with extension strip	
4	Make & model	Havells IHKKRT4200 or any other specify	
5	Indian Standard	Conforming to IS: 2086	
6	Neutral	Neutral Terminal provided	
7	Nos. of holes	4nos.	
8	Incoming Cable	4c 70Sq.mm XLPE insulated armoured Aluminium conductor	
9	Cable Termination	Termination thru proper size of lugs	



## 4.2 Main Panel

S.No.	Particulars	Specifications	Compliance Y/N
1	Type	Indoor type, Free standing, Floor Mounted with horizontal bus bars mounted at top. The MCB's instruments etc. shall be accessible from front. The cable terminations shall be from the rear side.	
2	Material of Panel	18swg CRCA sheet, Metallic, Powder Coated (100 $\pm$ 5 microns)	
3	Ammeter	CT operated ammeter of suitable rating complete with CT and selector switch – Specify rating	
4	Voltmeter	0-500V with selector switch	
5	Indicating Lamps	R, Y & B provided?	
6	Bus Bar	3+ 1nos. Copper current carrying capacity $> \text{or} = 200\text{A}$	
7	Incomer	200A 4P MCCB 25kA adjustable thermal & over current relay	
8	Panel Changeover	200A 4P	
9	Outgoing Feeders		
9.1	AC distribution		
	AC feeder	125A 4P MCCB 25kA adjustable thermal & over current relay	
	AC Outgoing	6 x 63A 2P MCB for 5 cassette AC + 1 Spare 11x 32A 2P MCB for 9 Split AC+ 2 spare	
9.2	CR Distribution	2 x 100A 4P MCCB 25kA adjustable – 1CR + 1 Spare	
9.3	UPS Distribution	1 x 100A 4P MCCB 25kA adjustable	
9.4	Branch Distribution		
a)	Feeder 1 to 5 (5nos.)	63A 4P MCB 10kA “C” 3 for VTPN Db + 2 Spare	
c)	Feeder 6 to 8 (3nos)	32A 2P MCB 10kA “C” 1 Signage + 2 spare	
10	Switch gear in panel Manufacturer	Siemens/ MDS/ Hager/ ABB Please specify	
11	Earth strip	2nos. 25x5mm GI strips at bottom	
12	Identification Plates	Identification plates for incomer/ each feeder installed	
13	Incoming cable	4 c 70sq. XLPE insulated armoured Aluminum conductor	
12	Cable Termination	Termination thru proper size of lugs	
13	Earthing	Whether Panel body is double earthed or not?	

### 4.3 Main Panel Input Cable

S.No.	Particulars	Specifications	Compliance Y/N
1	Nominal Cable Size	70sq. mm	
2	Voltage Grade	1.1 kV	
3	Nominal Current Rating	170A, when laid in open/ Air	
4	No of Cores	4 cores	
5	Material	Aluminium Conductor	
6	Insulation Type	XLPE Insulated	
7	Sheath	PVC Inner Sheathed	
8	Indian Standard	Conforming to IS: 1554 (PART I) Amended up to date	
9	Make	Tenderer to Specify	
10	Cable Termination	Termination thru proper size of lugs	

### 4.4a VTPN Db Incoming Cable

S.No.	Particulars	Specifications	Compliance Y/N
1	Nominal Cable Size	16 sq. mm	
2	Voltage Grade	1.1 kV	
3	Nominal Current Rating	94A, when laid in open/ Air	
4	No of Cores	4 cores	
5	Material	Copper Conductor	
6	Insulation Type	XLPE Insulated	
7	Sheath	PVC Inner Sheathed	
8	Indian Standard	Conforming to IS: 1554 (PART I) Amended up to date	
9	Make	Tenderer to Specify	
10	Cable Termination	Termination thru proper size of lugs	

### 4.4b PP and LF VTPN Db Cables

S.No.	Particulars	Specifications	Compliance Y/N
1	Nominal Cable Size	6 sq. mm	
2	Voltage Grade	1.1 kV	
3	Nominal Current Rating	50A, when laid in open/ Air	
4	No of Cores	4 cores	
5	Material	Copper Conductor	
6	Insulation Type	XLPE Insulated	
7	Sheath	PVC Inner Sheathed	

8	Indian Standard	Conforming to IS: 1554 (PART I) Amended up to date	
9	Make & Model	Tenderer to Specify	
10	Cable Termination	Termination thru proper size of lugs	
11	Location	Whether approved by Purchaser?	

### 4.5 6way VTPN Distribution Board

S.No.	Particulars	Specifications	Compliance Y/N
1	Type	8way VTPN	
2	Nos. of slots	8+4 incoming + 24 Outgoing	
3	Nos. of Db's	3nos.	
4	Input MCB	63A 4P "C" 10kA for Db 1 & Db - 2	
5	Neutral	Thru input cable	
6	Outgoing MCB's	1P "C" Characteristics - 10kA	
7	Nos. of MCB's	18 for 1 <sup>st</sup> , 20nos. for 2 <sup>nd</sup> & 15nos. for 3 <sup>rd</sup>	
8	MCB Rating Db -1	3*32+ 9*20 + 6*10A 1P for 1 <sup>st</sup> VTPN Db	
9	MCB Rating Db -2	5*32+3*25+ 5*20 + 7*10A 1P for 2 <sup>nd</sup> VTPN Db	
9b	MCB Rating Db - 3	3*32+ 6*20 + 6*10A 1P for 3 <sup>rd</sup> VTPN Db	
10	Db body	Metallic, Powder Coated (100 + 25 microns)	
11	Make & Model	Siemens 8GB0408VRC or any other equivalent specify	
12	Input cable	4c x 16sq.mm Copper conductor XLPE Insulated Armoured/ 4c x 6sq.mm Cu Conductor XLPE cable	
13	Cable Termination	Termination thru proper size of lugs	
14	Circuit wiring		
a	L&F	3*1.5 sq.mm Cu Stranded FRLSH	
b	Power Point Primary	2x4 + 1*1.5 sq.mm Cu Stranded FRLSH	
c	Power Point Secondary	2*4 + 1*1.5 sq.mm Cu Stranded FRLSH	
15	Wiring Termination	Termination thru proper size of fork/ pin/ cotter type lugs	
16	Earthing	Whether VTPN Db is earthed	
17	Location	Whether approved by Purchaser?	

### 4.6 4way VTPN Distribution Board

S.No.	Particulars	Specifications	Compliance Y/N
1	Type	4way VTPN	
2	Nos. of slots	8 incoming + 12 Outgoing	
3	Nos. of Db's	1nos.	
4	Input MCB	63A 4P "C" Characteristics - 10kA	
5	Neutral	Thru 63A 4P MCB	

6	Outgoing MCB's	1P "C" Characteristics 10kA	
7	Nos. of MCB's	10nos. for 1 <sup>st</sup> Db	
8	MCB Rating Db -1	1*32 + 3*16 + 6*10A 1P for 1 <sup>st</sup> VTPN Db	
9	MCB Rating Db -2		
10	Db body	Metallic, Powder Coated (100 + 25 microns), Double door	
11	Make & Model	Siemens 8GB0404VRC or any other equivalent specify	
12	Input cable	4c x 6sq.mm Copper conductor XLPE Insulated Armoured	
13	Cable Termination	Termination thru proper size of lugs	
14	Circuit wiring	3*1.5 sq.mm Cu Stranded FRLSH	
a	L&F	3*1.5 sq.mm Cu Stranded FRLSH	
b	Primary PP	2*4 + 1*1.5 sq.mm Cu Stranded FRLSH	
c	Secondary PP	2*4 + 1*1.5 sq.mm Cu Stranded FRLSH	
15	Wiring Termination	Termination thru proper size of fork/ pin/ cotter type lugs	
16	Earthing	Whether VTPN Db is earthed	
17	Location	Whether approved by Purchaser?	

## 5. Technical Specifications for Earthing & Associated work

### 5.1 Earthing work

S.No.	Particulars	Specifications	Compliance Y/N
1	Type of electrode	Dual pipe technology – Pipe in Pipe	
2	Length of Electrode	3 m	
3	Earth wire terminals	GI strip clamp with 2 holes	
4	Resistance	Less than 1 ohms	
5	Size of earth wire leads	1* 4sq.mm Copper stranded wire	
6	Clamping of earth wire	SS bolts, nuts with washers	
7	Termination of earth wire	Thru lugs/ Bolts & nuts with washers	
8	Measured E/N Value	Less than 5V	
9	Location	Whether approved by Purchaser?	

### 5.2 Earthing Leads

S.No.	Particulars	Specifications	Compliance Y/N
1	Nominal Copper Stranded wires	1*4 sq.mm	
2	Voltage Grade	1.1 kV	
3	Type	Fire Resistant Low Smoke Halogen	
4	Insulation Type	PVC Insulated	
5	Indian Standard	Conforming to IS: 694/ 1990	
6	Make	Tenderer to Specify	
7	Termination	Both ends thru lugs/ bolts, washers & nuts	
8	GI strip earth termination clamp	Whether provided for UPS earthing or not?	

## 6. Technical Specifications for Fixtures & Fittings

### 6.1 Recessed 2 x 2' LED light fitting

S.No.	Particulars	Specifications	Compliance Y/N
1	Type of fitting	2' x 2' LED light recessed	
2	Preferred make	Crompton or equivalent Philips	
3	Model	Crompton - Aura -1 model CCR-127-36-57-SL-NWH	
4	Voltage & Frequency	220-240V 50Hz	
5	Alternative	Whether any other make & model offered, specify	
6	Approval	Whether same is approved by Purchaser	
7	Warranty of LED fitting	3 years, if not, please specify	

### 6.2 Recessed 15/ 20w LED spot light fitting

S.No	Particulars	Specifications	Compliance Y/N
1	Type of fitting	15/ 20w LED spot-light recessed	
2	Preferred make	Crompton or equivalent Philips	
3	Model	Crompton- Pearl Ultima - R model LSCRM-18W-WW	
4	Voltage & Frequency	220-240V 50Hz	
5	Alternative	Whether any other make & model offered, specify	
6	Approval	Whether same is approved by Purchaser	
7	Warranty of LED fitting	3 years, if not, please specify	

### 6.3 Surface mounted 1\*20/22w 4' long LED Tube light fitting

S.No.	Particulars	Specifications	Compliance Y/N
1	Type of fitting	Surface mounted 20/ 22w 4' long LED Tube light	
2	Preferred make	Panasonic or Havells	
3	Model	Panasonic ABT 019206 or Havells E-Lite LED Pride Plus Neo LHEXAQP7PN1W020	
4	Voltage & Frequency	220-240V 50Hz	
5	Alternative	Whether any other make & model offered, specify	
6	Approval	Whether same is approved by Purchaser	
7	Warranty of LED fitting	3 years, if not, please specify	

### 6.4 Surface mounted 7/8w LED spot light fitting

S.No	Particulars	Specifications	Compliance Y/N
1	Type of fitting	7/ 8w LED spot light recessed	
2	Preferred make	Philips	
3	Model	Philips SM250C LED7S- 6500 PSU WH	
4	Voltage & Frequency	220-240V 50Hz	
5	Alternative	Whether any other make & model offered, specify	
6	Approval	Whether same is approved by Purchaser	
7	Warranty of LED fitting	3 years, if not, please specify	

### 6.5 Wall mounted Fan

S.No.	Particulars	Specifications	Compliance Y/N
1	Type	Wall mounted	
2	Sweep	450mm	
3	Material - Body	Metal/ steel body	
4	Material - blades	Metallic	
5	Preferred make	Havells/ Crompton/ Usha	
6	Model	Specify	
7	Voltage & Frequency	220-240V 50Hz	
8	Alternative	Whether any other make & model offered, specify	
9	Approval	Whether same is approved by Purchaser	
10	Warranty	Please specify	

### 6.6 Ceiling Fan

S.No.	Particulars	Specifications	Compliance Y/N
1	Type	Ceiling mounted, Double ball bearing type	
2	Sweep	1200mm	
3	Preferred make	Havells/Crompton	
4	Model	Velocity/ Velocity HS	
5	Voltage & Frequency	220-240V 50Hz	
6	Alternative	Whether any other make & model offered, specify	
7	Approval	Whether same is approved by Purchaser	
8	Warranty	Please specify	

### 6.7 Air Fresh fan

S.No	Particulars	Specifications	Compliance Y/N
1	Type	Air fresh fan	
2	Sweep	300mm – 12”	
3	Preferred make	Havells/Crompton	
4	Model	Venti Air DSP metallic range	
5	Voltage & Frequency	220-240V 50Hz	
6	Alternative	Whether any other make & model offered, specify	
7	Approval	Whether same is approved by Purchaser	
8	Warranty	Please specify	

### 6.8 Exhaust fan

S.No.	Particulars	Specifications	Compliance Y/N
1	Type	Exhaust fan	
2	Sweep	230 / 300mm	
3	RPM	1400	
4	Preferred make	Havells/Crompton	
5	Model	Turbo force model	
6	Voltage & Frequency	220-240V 50Hz	
7	Alternative	Whether any other make & model offered, specify	
8	Approval	Whether same is approved by Purchaser	
9	Warranty	Please specify	

## 7. Technical Specifications for Data Cabling & Associated

### works 7.1 25mm diameter PVC Pipe

S.No.	Particulars	Specifications	Compliance Y/N
1	Nominal size	25mm OD PVC Pipe	
2	Type	Medium duty	
3	Indian Standard	Conforming to IS: 9537 Part III & IS: 3419 -1988	
4	Preferred make	AKG, please specify if any other ISS/ BIS make is offered	
5	Laying of pipe & accessories	Pipe laid complete with accessories such as bends, junction boxes, elbows, circular boxes etc.	

## 7.2 Cat 6 e Data cabling

S.No.	Particulars	Specifications	Compliance Y/N
1	Type of data cable	Giga speed Cat 6 e UTP (Untwisted pair)	
2	Nos. of Pairs	4	
3	Cable specifications	Bare solid copper conductors insulated with FR PVC Jacketing/ Fluorinated-Ethylene-Propylene (FEP)	
4	Standard	Conforming to ISO/IEC 11801, CENELEC EN50173	
5	Preferred make	D link/ Systimax/ Schnider	
6	Method of laying	In pre-laid conduits	

## 7.3 Patch Chords 1m & 2m long

S.No.	Particulars	Specifications	Compliance Y/N
1	Type of patch chords	1m & 2m long	
2	Specifications	Solid copper conductor factory terminated with GS 8E plugs	
3	Standard	Conforming to ISO/IEC 11801, CENELEC EN50173	
4	Preferred make	D link/ Systimax/ Schnider	
5	Model	Systimax GS 8E or equivalent D link	

## 7.4 Information Outlets

S.No.	Particulars	Specifications	Compliance Y/N
1	Type	Giga speed XL information outlet	
2	Specifications	Modular surface mount box	
3	Preferred make	D link/ Systimax/ Schnider	
4	Model	Systimax Giga SPEED XL MGS400 or equivalent D link	

## 7.5 Patch Panel

S.No.	Particulars	Specifications	Compliance Y/N
1	Type	Giga speed XL Patch Panel	
2	Nos. of Ports	24 Ports	
3	Preferred make	D link/ Systimax/ Schnider	
4	Model	Systemax 360 -1100 - GS3 -24 Port Patch Panel, iPatch Ready or equivalent D link DC6PP24UKY1U	



### 7.7 12U Rack

S.No.	Particulars	Specifications	Compliance Y/N
1	Type	12U Rack	
2	Specifications	Perforated front door and removable rear locking door. Heavy duty Castors & levelling feet (set of 4), Stationary shelf, Mounting Hardware pack & 2Fans - Cable entry from rear	
3	Preferred make	President/ Schnider	
4	Model	Specify	
5	Alternative	Whether any other make & model offered, specify	
6	Approval	Whether same is approved by Purchaser	
7	Warranty	Specify	

**TENDER DOCUMENT**  
**FOR**  
**FURNISHING, ELECTRICAL, DATA CABLING & AIR CONDITIONING PIPING**  
**WORK**

**AT BARODA U.P. BANK, ADMINISTRATIVE OFFICE, BARGAD**  
**CHAURAHA, RAEBARELI**

**PART 2**

Architect

**Gunjan and Associates.**  
141, Sainik Nagar, 9<sup>th</sup> Lane,  
Raebarelli Road, Lucknow-226002

Phone: 9838818489, 9839018489

**E-Mail:** [garun1511@gmail.com](mailto:garun1511@gmail.com); [arunjan@yahoo.com](mailto:arunjan@yahoo.com)

[studio@gunjanandassociates.com](http://studio@gunjanandassociates.com)

**BARODA U.P. BANK**  
**ADMINISTRATIVE OFFICE, ADMINISTRATIVE OFFICE, RAEBARELI.**

E-mail: [pe.aoraeb@barodauprrb.co.in](mailto:pe.aoraeb@barodauprrb.co.in)

## **INDEX**

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