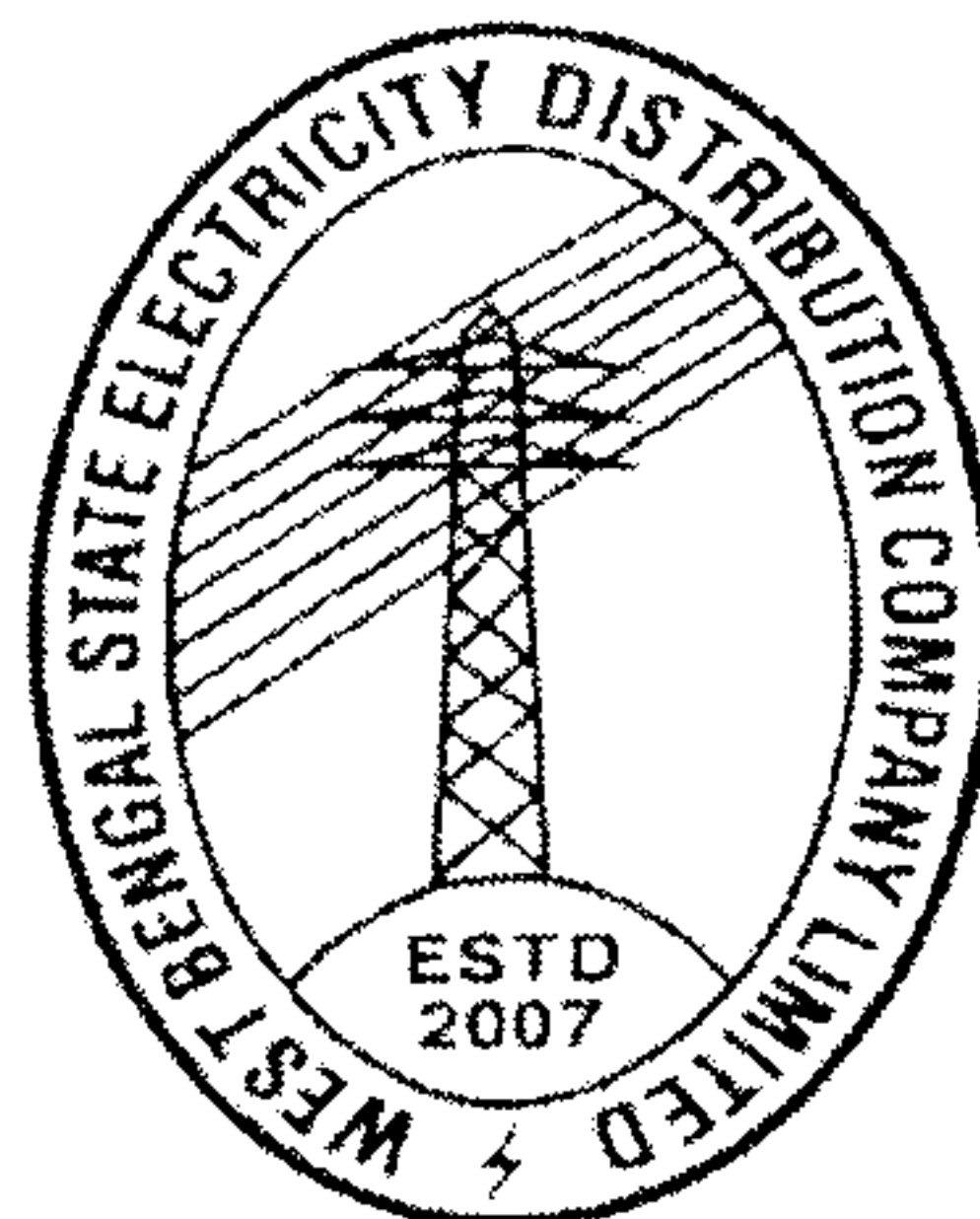


*West Bengal State Electricity Distribution Company Limited*  
*(A Government of West Bengal Enterprise)*  
*(I T & Communication Cell)*  
*Vidyut Bhavan, 3<sup>rd</sup> Floor, C&D Block, Bidhan Nagar, Block-DJ, Sec-II, Kolkata-700091*  
*Phone No.033-2358-9665, FAX No.033-2337-2427, 033-2358-9244*  
*Website: [www.wbsedcl.in](http://www.wbsedcl.in), e-mail: [itcell@wbsedcl.in](mailto:itcell@wbsedcl.in)*  
*CIN: U40109WB2007SGC113473*



***WBSEDCL***  
**e-TENDER NOTICE**  
(LOCAL COMPETITIVE BIDDING)  
**BID DOCUMENT**

**Supply, Delivery, Installation & Commissioning and  
Synchronization of 2 Nos of PACs with existing PACs at Data  
Centre Rajarhat , WBSEDCL including 5 years warranty Services.**

**Cost of Bid Document: Rs.7080/-  
(Including applicable GST of 18%)**

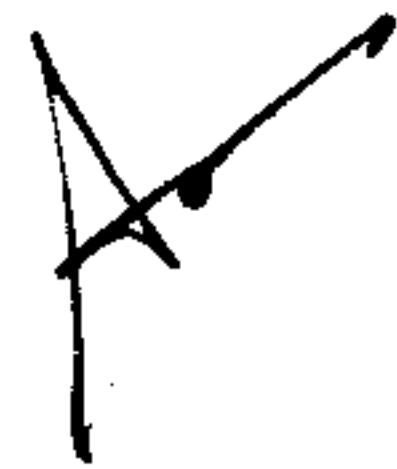
**Tender Notice No: WBSEDCL/IT&C/33.10(i)/3437**

**Dated: 10.02.2021**

  
**C.E., IT&C Cell**  
**WBSEDCL**

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## **SECTION: I**

### **INSTRUCTION TO BIDDER (IB)**

West Bengal State Electricity Distribution Company Limited hereinafter referred to as WBSEDCL, a Govt. of West Bengal Enterprise is responsible to distribute uninterrupted and quality Power within the State of West Bengal.

West Bengal State Electricity Distribution Company Limited, requires 2 Nos of 10 TR PACs at Data Centre, Rajarhat in buyback mode. This is an open tender for the purchase of total 2 Nos of 10 TR PACs in buyback mode and synchronize the PACs with existing 6 Nos of PACs.

WBSEDCL, hereinafter, referred to as the Purchaser, is in process of procurement of above mentioned PACs at Data Centre Rajarhat. WBSEDCL will finance the entire work as stipulated under scope of work in the Bid documents.

#### **IB.1. Eligibility of Bidders:**

**IB.1.1.** This Invitation for Bids, issued by the WBSEDCL is open to all firms including company (ies), Government owned Enterprises registered and incorporated in India as per Companies Act, 1956, barring Government Department as well as foreign and those bidders with whom business is banned by the WBSEDCL.

**IB.1.2.** Bidders must fulfill the Mandatory Conditions mentioned in the Annexure --II shall be considered as eligible for bidding.

**IB.1.3.** Required supporting documents are to be submitted as per clause IB.15.

**IB.1.4.** The bidder should be either OEM (Original Equipment Manufacturer) of the equipment or OES (Original Equipment Supplier) of such OEM (should produce documentary evidence from the OEM in this regard). OEM certification is mandatory for OES.

**IB.1.5.** The bidder should not have been blacklisted from any Govt. organization across India in last three years and undertaking in this regard should be provided by the authorized signatory of the bidder. During contract period if the undertaking submitted by the bidder is found to be false, the order issued on selected bidder shall be terminated with the forfeiture of the BG.

**IB.1.6.** Submission of multiple bids are not allowed by a single bidder i.e one bidder is only allowed to submit a single bid.

**IB.1.7.** Intending bidder may purchase the Bid document upon payment of cost of bid document of: non-refundable Rs. 6,000/- (Rupees Six thousand only) and applicable GST @18% (i.e. Rs 7080/- including GST) by Demand Draft / Banker's Cheque in favour of "West Bengal State Electricity Distribution Company Limited", payable at Kolkata. Purchase date of Demand Draft (DD) / Banker's Cheque (BC) should be after NIT publication date.

#### **IB.2. Issue of BID Documents:**

**IB.2.1.** Intending Bidders desirous of participating in the tender are to log on to the website <http://wbtenders.gov.in> . The tender can be searched by typing "wbasedcl" in the search box of the website.

**IB.2.2.** Bidders willing to take part in the process of e-tendering are required to obtain Digital Signature Certificate (DSC) in the name of person who will sign the tender, from any authorized





Certifying Authority (CA) under CCA, Govt of India (viz. nCode Solution, Safescrypt, e-Mudhra). DSC is given as a USB e-Token. After obtaining the Class 2 or Class 3 Digital Signature Certificate (DSC) from the approved Certifying Authority they are required to register the fact of possessing the Digital Signature Certificates through the registration system available in the website.

**IB.2.3.** Intending bidders are to download the tender documents from the website stated above, directly with the help of the e-Token provided. This is the only mode of collection of tender documents. Details of submission procedure are given in "Instructions to Bidders".

### **IB.3. Responsibility of Bidders:**

**IB.3.1.** It shall be the sole responsibility of Bidders to determine and to satisfy themselves by such means as they consider necessary or desirable for all matters pertaining to this contract including, in particular, all factors that may affect the cost, duration and execution of the work.

**IB.3.2.** It must be understood and agreed that such factors have properly been investigated and considered while submitting the bid. Any claim, whatsoever, including those for financial adjustments to the contract, once awarded under these documents will not be entertained by WBSEDCL. Neither any change in time schedule of the contract nor any financial adjustments, arising thereof, shall be permitted by WBSEDCL, which are based on the lack of such clear information of its effect.

**IB.3.3.** The bid shall include all the information as per bid document.

**IB.3.4.** The bidder shall bear all the costs associated with the preparation and submission of bid and WBSEDCL in no case shall be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

**IB.3.5.** In order to avoid any problem arising out of network error or server error, bidders are advised to submit the bid, well in advance of the last date and time of submission of the bid.

### **IB.4. Formation of cartel & penal Measures:**

Any evidence of unfair trade practices, including overcharging, price fixing, cartelization etc. as defined in various statutes, will automatically disqualify the parties. Repeated occurrence of such evidence of above bidders may also be viewed seriously by the WBSEDCL authority and penal measures as deemed fit would be imposed on such bidders.

### **IB.5. Key Dates: Schedule of Dates for e-Tendering:**

Sl No.	Action	Date & Time
1.	Publishing Date	17.02.2021, 14:00 Hrs.
2.	Document Download start date	17.02.2021, 14:00 Hrs.
3.	Last date of Receiving Pre-Bid Clarification	22.02.2021, 14:00 Hrs.
4.	Date of Pre-bid Clarification upload	26.02.2021, 17:00 Hrs.
5	Bid submission Start date	01.03.2021, 14:00 Hrs.
6.	Bid submission last date	15.03.2021, 14:00 Hrs.
7.	Last date of physical submission of Tender Fee & EMD	15.03.2020, 14:00 Hrs.
8.	Technical Bid opening date	18.03.2020, 14:00 Hrs
9.	Financial Bid opening date	Will be informed later to eligible bidders

If any 'Holiday, falls on any of the scheduled date, then the next working day (between mentioned working hours) shall be considered as scheduled date and schedule time.

**IB.6. Pre Bid Discussion:**

Due to outbreak of covid-19, no pre-bid meeting will be held. Queries must be sent to the office of the Chief Engineer, IT & Communication Cell through email. Mail id for sending queries : [soumya.samanta@wbasedcl.in](mailto:soumya.samanta@wbasedcl.in), [amlan.sarkar@wbasedcl.in](mailto:amlan.sarkar@wbasedcl.in), with a CC to [ceit@wbasedcl.in](mailto:ceit@wbasedcl.in) However, sending queries are not mandatory and will not be cause for disqualification of the bidders.

**IB.7. Clarification of Bidding Documents:**

If there be any discrepancy or obscurity in the meaning of any clause of the bid document, such queries must be sent to the office of the Chief Engineer, IT&C Cell, through email [soumya.samanta@wbasedcl.in](mailto:soumya.samanta@wbasedcl.in), [amlan.sarkar@wbasedcl.in](mailto:amlan.sarkar@wbasedcl.in), with a CC to [ceit@wbasedcl.in](mailto:ceit@wbasedcl.in) Such query received from vendors shall only be discussed by tender committee. No other query except email will be clarified. After submission of bid, correspondences regarding changes in taxes, duties or statutory obligations if any can only be made. Correspondences in any other form shall be treated as 'Bad Conduct'. If any changes are decided by the tender committee based on the query received from the vendors, the same will be uploaded in the website <https://wbtenders.gov.in> and no other communication shall be made afterwards. The clarification given shall be final and binding on the bidder.

**IB.8. Amendment / Addenda of Bidding Documents:** At any time, prior to the deadline of submission of Bid, WBSEDCL may, for any reason, modify the Bidding Documents by issuing Addenda / Amendments and the same will be uploaded in the website <https://wbtenders.gov.in> only in due time. WBSEDCL shall not have any obligation to inform the vendors through any other mode of communication.

**IB.9. Language of the Bid:** The bid so prepared by the bidder and all other correspondences and documents relating to the bid, exchanged by the bidder and WBSEDCL, shall be written English Language only.

**IB.10. Period of validity of Bid:** The bid shall remain valid up to 6 (six) months from the date of opening of Technical Bid of the tender. WBSEDCL may request to extend Validity of the bid beyond Six Months if required so, without any change in offer.

**IB.11. Tender Fee:**

**IB.11.1.** All bids must be accompanied with a non refundable tender fee. The bid shall be considered non responsive if the tender fee is not submitted along with the bid.

**IB.11.2.** The bidder shall furnish Tender Fee of Rs. 7080/- (Rupees One Thousand One hundred and Eighty) only including applicable GST in the form of Demand Draft (DD) / Banker's Cheque (BC) issued by any branch of any Indian Scheduled Bank in favor of "West Bengal State Electricity Distribution Company Limited" payable at Kolkata. The tender fee is Rs 7080/- (Rupees One Thousand One Hundred and Eighty) only for participation in the tender.

**IB.11.3.** Scanned copy of Demand Draft (DD) / Banker's Cheque (BC) towards Tender Fee is to be uploaded while submitting the bid online. The details of the instrument are to be entered while the bid is being submitted online.

**IB.12. Earnest money [Bid Guarantee]:**

**IB.12.1.** All bids must be accompanied with a refundable earnest money, as "Bid Guarantee".





The bid shall be considered non responsive if the earnest money is not submitted along with the bid.

**IB.12.2.** The bidder shall furnish Bid Guarantee in the form of Demand Draft (DD) / Bank Guarantee (BG) of the amount Rs 1,17,500 /-, issued by any branch of any Indian Scheduled Bank in favor of “West Bengal State Electricity Distribution Company Limited” payable at Kolkata or as per format given in Annexure-III which shall remain valid for 6 months from the date of submission of bid with a claim period of 3 (Three) months thereafter.

**IB.12.3.** Scanned copy of Demand Draft (DD) / Bank Guarantee (BG) is to be uploaded while submitting the bid online. The details of the instrument are to be entered while the bid is being submitted online.

**IB.12.4.** The Bid Guarantee of the unsuccessful Bidder/ Bidders, will be returned against their written claim within one month from the date of placement of order on the successful Bidder/ Bidders.

**IB.12.5.** The ‘Bid Guarantee’, of the successful Bidder/ Bidders, will be returned within 30 (Thirty) days from the date of acceptance of Performance Guarantee to be submitted as per Performance Guarantee Clause of bid document.

**IB.12.6.** No interest shall be payable by WBSEDCL on the above Bid Guarantee.

**IB.12.7.** The Bid Guarantee shall be forfeited for any of the following reasons:

**IB.12.8.** If during the period of bid validity, the bidder withdraws or modifies the bid in part or as a whole.

**IB.12.9.** If the successful Bidder/ Bidders fails/fail to accept the order unconditionally as per “Acceptance of LoA” clause of bid document or fails/fail to furnish the contract performance guarantee as stipulated in PBG clause of bid document.

**IB.12.10.** If the successful bidder / bidders fails to extend the validity period of EMD as per “Earnest Money” Clause of bid document.

**IB.12.11.** If any cartel is formed by the bidder in their quotation.

**IB.13. General guidance for e-Tendering:**

Instructions/Guidelines for electronic submission of the tenders have been mentioned below for assisting the bidders to participate in e-Tendering.

**IB.13.1. Registration of Bidders :** Any bidder willing to take part in the process of e-Tendering will have to be enrolled & registered with the e-Procurement system, through logging on to <https://wbtenders.gov.in>.

**IB.13.2. Digital Signature certificate (DSC):** Each bidder is required to obtain a class-II or Class-III Digital Signature Certificate (DSC) for submission of tenders.

**IB.13.3.** The bidder can search and download NleT & Tender Documents electronically from the website mentioned in Clause 4 using the Digital Signature Certificate. This is the only mode of collection of Tender Documents.

**IB.14. Signing of Bids:**

**IB.14.1.** The bid shall be downloaded from the website [www.wbtenders.gov.in](http://www.wbtenders.gov.in) and shall be signed by a person / persons duly authorized by the bidder.

**IB.14.2.** To be qualified for evaluation and finalization of contract, Bidder/ Bidders shall submit a written power of attorney, authorizing the signatory of the Bid to act on behalf of the Bidder in the form and manner which is acceptable by WBSEDCL.

**IB.14.3.** All the pages of the bid and where, entries/ amendments have been made, shall be signed by the person/persons signing the bid.

**IB.14.4.** The complete bid shall be without alterations, interlineations or erasers, except those to accord with instructions issued by WBSEDCL or as necessary to correct errors made by the bidders, in which case such corrections shall be initialed by the person/persons signing the bid. Bids not duly signed/ digitally signed shall be treated as cancelled.

**IB.15. Submission of Bid: Bids shall be submitted as under:**

**IB.15.1. General process of submission:** Tenders are to be submitted online through the website <https://wbtenders.gov.in>. All the documents uploaded by the Tender Inviting Authority form an integral part of the contract. Tenderers are required to upload all the tender documents along with the other documents, as asked for in the tender, through the above website within the stipulated date and time as given in the Tender. Tenders are to be submitted in two folders - one is Technical Proposal and the other is Financial Proposal. The tenderer shall carefully go through the documents and prepare the required documents and upload the scanned documents in Portable Document Format (PDF) to the portal in the specified locations of Technical Bid.

**IB.15.2.** The bidder needs to download the Forms / Annexure / BOQ, fill up the particulars in the specified Cell and upload the same in the specified location of Technical folder / financial folder. Original copies of the uploaded documents may be submitted for physical verification if required by the Tender Inviting Authority at the time of technical evaluation.

**IB.15.3.** The documents uploaded shall be virus scanned and digitally signed using the Digital Signature Certificate (DSC). Tenderers should take note of all the addendum/corrigendum related to the tender and upload the latest documents as part of the tender.

**IB.15.3.1. Technical Proposal:** The Technical Proposal shall contain all requisite documents in the following standardized formats in one cover (folder) which contains the followings: -

- i. **Tender Fee:** Scanned copy of Demand Draft (DD) / Banker's Cheque (BC) towards tender fee as prescribed in the NIT, **in favour of WBSEDCL payable at Kolkata** from any scheduled Bank of India. Payment in any other form will not be accepted. Purchase date of Demand Draft (DD) / Banker's Cheque (BC) should be after NIT publication date.
- ii. **Earnest Money Deposit (EMD):** Scanned copy of Demand Draft (DD) / Bank Guarantee (BG) towards EMD as prescribed in the NIT, **in favour of WBSEDCL payable at Kolkata** from any scheduled Bank of India. Payment in any other form will not be accepted. Purchase date of Demand Draft (DD)/ BG should be after NIT publication date.
- iii. Annexure-I: Format of Bid Proposal
- iv. Annexure-II: Mandatory Condition
- v. Annexure-IIA: Schedule of Bids





- vi. Annexure-IIB: Summary statement of average annual turnover
- vii. Annexure-IIC: Summary statement of Order Executed.
- viii. Annexure-IVA: Undertaking.
- ix. Annexure-IVB: Letter of Bid.
- x. Annexure-IVC: Deviation Schedule.
- xi. Annexure V: Material Specification
- xii. Annexure VIII: MAF (Manufacturer Authorization Form)
- xiii. Annexure IX : Technical Data Sheet.
- xiv. Notice Inviting Tender (NIT).
- xv. Addenda/ Corrigendum: If published.
- xvi. Company Details: Registration no of the company.
- xvii. PAN Card details.
- xviii. Banker's certificate regarding financial capability issued for any three consecutive financial years within 2016-2017, 2017-2018, 2018-2019 & 2019-2020.
- xix. Financial Information: Copy of audited annual accounts any three consecutive financial years within 2016-2017, 2017-2018, 2018-2019 & 2019-2020 are to be submitted by the companies and others and turnover certificate duly certified by chartered accountant along with IT returns for the corresponding period.
- xx. GST Registration certificate to be given for performance of service i.e West Bengal.
- xxi. The bidder(s) should have the experience of performing similar work order (of at least 40 Lakhs INR) in one single order to any Govt./reputed corporate institution for similar type of job within the financial years among 2016-2017, 2017-2018, 2018-2019 and. 2019-2020. The bidder shall submit the list of orders in his executed mentioning the order value in last four years.

*Note: Bidders are to keep track of all the Addendum/Corrigendum issued with a particular tender and upload all the above digitally signed along with the NIT. Tenders submitted without the Addendum/Corrigendum (if any) will be treated as informal and liable to be rejected. Only downloaded copies of the above documents are to be uploaded, virus scanned and digitally signed by the bidder. Failure of submission of any one of the above mentioned documents will render the tender liable to summary rejection.*

**IB.15.3.2. Financial Proposal:** The financial proposal should contain the following documents in one cover (folder).

**Bill of Quantities (BOQ)**

The bidder is to quote the rate in the blank spaces marked for quoting rate in the BOQ sheet of Annexure-VII. Only downloaded copies of the above documents are to be uploaded, virus scanned and digitally signed by the bidder. Any deviation in the format, content (Other than entry of the quoted price at the desired blank spaces) of the Price bid/BOQ will render the tender liable to summary rejection.

**IB.15.4. Submission of original copies of documents of Tender Fee and Earnest Money Deposit:**

**IB.15.4.1. Place of submission:** The original DD/BC towards Tender Fee and DD/BG towards Earnest Money Deposit shall be submitted in the following office:

**Office of the Chief Engineer, IT&C Cell,  
West Bengal State Electricity Distribution Company Limited,  
Vidyut Bhavan, 3<sup>rd</sup> Floor, D-Block,  
SaltLake, Sector-II, Kolkata – 700091.**





**IB.15.4.2. Time of submission:** The Tender Fee and EMD shall be submitted in the office as stated above within the date and time as specified in the NIT. If the bidder fails to submit the original DD/BC/BG within the due date and time his tender will not be opened and his bid will stand rejected.

**IB.15.4.3.** Conditional and incomplete tenders are liable to be rejected.

**IB.16. Late Submission of Bid:** Bidder shall take all possible measures to submit the bid within the schedule date & time at specified folder/location prescribed elsewhere in the bidding document. Late submission of bid for whatever reason shall not be accepted.

**IB.17. Evaluation of Rates: Procedure of Evaluation: Finalization of Rate:**

**IB.17.1. Opening of Technical Proposal**

**IB.17.1.1.** Technical proposals will be opened by the Tender Inviting Authority or his authorized representative electronically from the website stated above, using their Digital Signature Certificate.

**IB.17.1.2.** Technical proposals for those tenders whose original copies of DD/BC towards tender fee & DD/BG towards EMD have been received will only be opened. Proposals corresponding to which original copy of DD/BC/BG towards tender fee & EMD has not been received, will not be opened and will stand rejected.

**IB.17.1.3.** Intending tenderers may remain present if they so desire.

**IB.17.1.4.** Decrypted (transformed into readable formats) documents of the Statutory and Non-Statutory Covers will be downloaded for the purpose of evaluation.

**IB.17.2. Techno-commercial Evaluation of Tender**

**IB.17.2.1.** While evaluation, the Tender Inviting Authority or his authorized representative may summon of the tenderers and seek clarification / information or additional documents or original hard copy of any of the documents already submitted and if these cannot be produced within the stipulated timeframe, their proposals will be liable for rejection.

**IB.17.2.2.** The summary list of tenderers, whose bids will be found techno- commercially eligible, will be available in the web portals. Date of opening of financial bid will be intimated to the techno-commercially qualified tenderers.

**IB.17.2.3.** If any kind of financial quotes are found within the technical proposal, the respective bids will be liable for rejection.

**IB.17.3. Opening and evaluation of Financial Proposal**

**IB.17.3.1.** Financial proposals submitted by the tenderers in the prescribed format (Annexure-IV) and declared techno-commercially eligible, will be opened electronically by the Tender Inviting Authority from the web portal stated above on the prescribed date.

**IB.17.3.2.** The encrypted copies will be decrypted and evaluated online.

**IB.17.3.3.** After opening of the financial proposal the preliminary summary result containing inter- alia, name of bidders and the rates quoted by them will be uploaded.

**IB.17.3.4.** The Tender Accepting Authority may ask any of the tenderers to submit justification for supporting the rate quoted by that tenderer.

**IB.17.3.5.** No deviation in any form in the price-bid sheet is acceptable.

**IB.17.3.6.** For any discrepancy in the amount of figures and words, the quoted amount in figure will prevail.

**IB.17.3.7.** Revision/withdrawal of Financial Proposal by the bidder after opening of Technical Proposal of the tender will not be allowed if it is not sought by the Tender Inviting Authority.



**IB.17.4. Price:**

**IB.17.4.1.** The Bidder shall indicate the prices in Indian Rupees only.

**IB.17.4.2.** Incomplete or partial quotation will not be accepted and shall be liable to be rejected.

**IB.17.4.3.** No deviation in any form in the Price Bid Sheet is acceptable

**IB.17.4.4.** Prices quoted by the Bidder shall be fixed. Bid/tenders submitted with adjustable price quotations will be rejected.

**IB.17.4.5.** Rates quoted should be for the material mentioned in Annexure – V and SW06.

**IB.17.4.6.** No extra costs shall be paid for change of the defective spares if any during warranty period.

**IB.17.4.7.** Total price offer shall be submitted in the prescribed format (Annexure – VII) only.

**IB.17.4.8.** The prices shall remain FIRM till completion of the service period for which the contract is awarded. Taxes and duties shall be payable as applicable and as per prevailing rate.

**IB.17.4.9.** The Bidder, at his own cost, responsibility and risk may visit the Site of Service and may obtain relevant information before quoting the rates. The costs of visiting the Site shall be at the Bidder's own expense.

**IB.18. Acceptance of Tender:**

Amongst the technically qualified bidders, L1 bidder will be decided on the basis of price bid evaluation for the overall work after satisfying each sub-category. Lowest valid rate should normally be accepted. However, the Tender Accepting Authority does not bind himself to do so and reserves the right to reject any or all the tenders, for valid reasons.

**IB.19. Time Schedule:** The entire activity as per scope of work shall start after issue of LOA. **Date of issue LOA shall be considered as zero date.**

<u>Activities</u>	<u>Time of Completion</u>
Supply & delivery of PACs	Within 10 Weeks from Zero date
Installation, Commissioning, Synchronization and Acceptance of PACs	Within 12 Weeks from Zero date
Warranty Services	5 (Five) years from the date of acceptance of the PACs

**IB.20. Taxes, Duties and other levies:** The bidder shall be solely responsible for the taxes that may be levied on the vendor's persons or on earning of any of his employees and shall hold the employer indemnified and harmless against any claims that may be made against the employer. The WBSEDCL shall not take any responsibility whatsoever regarding taxes under Income Tax Act 1961, for the contractor or his personnel.

**IB.21. Statutory Obligations:** Statutory obligations as per law of the land are to be complied.

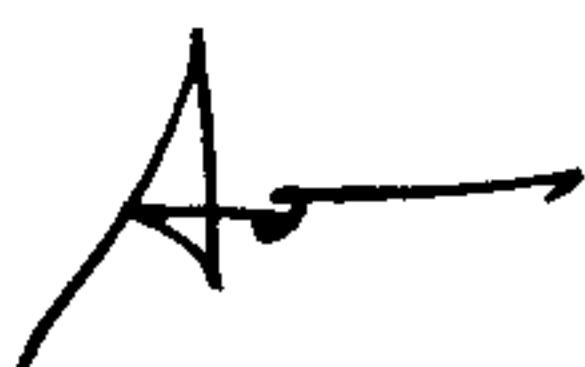
**IB.22. P.F. Code No. :** The vendor shall submit necessary PF code no.

**IB.23. Insurance:** The Contractor at his own cost shall arrange, secure and maintain all insurance as may be pertinent to the Work and obligatory in terms of law to protect his interest and interests of WBSEDCL against all perils detailed herein. The form and the



limit of such insurance as defined herein together with the underwriter in each case shall be acceptable to WBSEDCL. However, irrespective of such acceptance, the responsibility to maintain adequate insurance coverage at all times up to successful installation & commissioning and of all equipments shall be of Contractor alone. The Contractor's failure in this regard shall not relieve him of any of his contractual responsibilities and obligations. The insurance covers to be taken by the Contractor shall be in the joint names of the WBSEDCL and the Contractor, wherein the beneficiary will be WBSEDCL and the Contractor will be the custodian. The Contractor shall, however, be authorized to deal directly with the Insurance Company or Companies and shall be responsible in regard to maintenance of all insurance covers.

- IB.25.** Any loss or damage to the equipment during transportation, handling, storage, erection, putting into satisfactory operation and all activities to be performed till the successful completion of commissioning of the Equipment shall be to the account of the Contractor. The Contractor shall be responsible for preference of all claims and make good the damages or loss by way of repairs and/or replacement of the equipment, damaged or lost. The transfer of title shall not in any way relieve the Contractor of the above responsibilities. The Contractor shall provide WBSEDCL with copy of all insurance policies and documents taken out by him in pursuance of the Contract. Such copies of documents shall be submitted to WBSEDCL immediately after such insurance coverage. The Contractor shall also inform WBSEDCL in writing at least sixty (60) days in advance regarding the expiry/cancellation and/or change in any of such documents and ensure revitalization, renewal etc. as may be necessary well in time at his cost, risk and responsibility.
- IB.26.** The perils required to be covered under the insurance shall include, but not be limited to fire and allied risks, miscellaneous accidents (erection risks), workman compensation risks, loss or damage in transit, theft, pilferage, riot and strikes and malicious damages, civil commotion, weather conditions, accidents of all kinds, war risks etc. The scope of such insurance shall be adequate to cover the replacement / reinstatement cost of the equipment for all risks up to and including delivery of goods on Ex-works basis and shall also cover transportation and other costs till the equipment are delivered. Notwithstanding the extent of insurance cover and the amount of claim available from the underwriters, the Contractor shall be liable to make good the full replacement/rectification value of all equipment/materials and to ensure their availability as per project requirements. The extent of contractors' liability together with the insurance cover and claim available shall be limited to the full replacement / rectification value of all equipment / material to ensure their availability as per project requirement.
- IB.27.** Bidder shall ensure that for all activities to be performed under the Contract viz. transportation, storage, erection, testing, Installation and commissioning etc. equipment is handed over to WBSEDCL; the insurance cover shall only be taken from Indian Insurance Companies.
- IB.28.** **Period of Contract:** Initial Period of contract shall be from zero date to warranty end date or any other date as agreed upon mutually prior to the commencement of the contract.
- IB.29.** **Issue of LOA :** WBSEDCL will award the contract to the successful bidder/bidders whose bid has been determined to be substantially responsive and has been determined the lowest evaluated bid, provided further that the bidder is determined to be qualified to perform the contract satisfactorily. WBSEDCL shall be the sole judge in this regard.
- IB.30.** **Acceptance of LOA:** The successful bidder/bidders shall submit written unconditional acceptance of LOA within 14 days (Two weeks) from date of issuance of the same.





Submission of conditional acceptance of LOA shall be treated as non-compliance of this clause.

**IB.31. Right to reject Bids:** WBSEDCL reserves the right to accept or reject any bid and to annul the bidding process and reject 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 the reason for WBSEDCL's action.

**IB.32. Representative of Vendors:** The successful vendor is required to nominate officers with whom WBSEDCL will contact on all matters related to this job. The vendor has to specifically furnish to WBSEDCL, the name, designation, mobile no, office & residential phone no of such person for each office.

**IB.33. Mandatory Condition:** The bidder shall provide documentary evidence satisfactory & acceptable to WBSEDCL to establish that they have the requisite credential, capability and experience to handle the contract and meet requirements of all the Mandatory Conditions indicated in ANNEXURE-II.

**IB.34. Disqualification of Bidders:** Adverse report / remark on post-installation warranty service against any order from any office under WBSEDCL may disqualify the candidature of the bidder at any point of time during processing of the tender.

**IB.35. Settlement of Disputes:** In case of any dispute arising out the contract, the same should be settled through meeting between the WBSEDCL and the contracting agency at the appropriate level. The necessary judicial affairs and/or Court Case shall be exclusively within the jurisdiction of Calcutta High Court only.

**IB.36. Manufacturer's Authorization:**  
The bidder (except OEM) shall submit Manufacturer's Authorization Form i.r.o. the quoted equipment.

**IB.37. Communication:** The successful vendor, for communicating with WBSEDCL, for this job may use the following modes.

Telephone – (033) 23242551/50. [ceit@wbasedcl.in](mailto:ceit@wbasedcl.in) , [soumya.samanta@wbasedcl.in](mailto:soumya.samanta@wbasedcl.in)

**IB.38. Conflict of Interest:**

**IB.23.1.** The Bidder shall not have a Conflict of Interest that may affect the Tendering Process. Any Bidder found to have a Conflict of Interest shall be disqualified. In the event of disqualification, the Bid Security of the bidder shall be forfeited for the time, cost and effort of the Authority including consideration of such Bidder's Proposal, without prejudice to any other right or remedy that may be available to the Authority hereunder or otherwise.

**IB.23.2.** Any Bidder found to have a conflict of Interest if his near relative is posted as an employee/officer in any capacity in WBSEDCL, who is associated with the Tender Inviting Authority.

**IB.23.3.** Any Bidder found to have a Conflict of Interest if any employee of the bidding firm/company has or develops a financial or other interest with any employee/officer of WBSEDCL associated with the Tender Inviting Authority during execution of the contract.

**IB.23.4.** Any Bidder has a relationship with another Bidder/Bidders, directly or through common third parties, that puts them in a position to have access to each-others information about, or to influence the Tendering Process of either or each of the Bidder.

## SECTION: II

### Scope of Work [SW]

**SW1.** The scope of work included in this tender shall include (but not limited to) Design, Supply, inspection, delivery at site, installation, testing & successful commissioning of 2 Nos of PACs (as per the specification mentioned in Annexure V and Scope of work section SW06), including synchronization of all PACs and handing over to WBSEDCL of Precision Air Conditioning System for Data Centre, Rajarhat WBSEDCL. The scope of work also includes 5 (Five) years warranty service of the PACs supplied by the bidder.

Providing and fixing at site all equipments associated with Precision Air Conditioning system listed under the technical specifications. To execute all incidental work at site including materials supply at site associated with Precision Air Conditioning system indicated in the Technical specifications. Nature of such works will be supply, installation, testing commissioning & synchronizing of Indoor cooling, outdoor condensing unit, fixing grilles, refrigerant piping etc., associated electrical engineering work, power / control cables, control panel etc. Any other item not mentioned in this specification, BOQ, description of item/system but required to complete that item/system will be in the scope of work of contractor without any extra cost. Routine testing, Summer, Rainy or Monsoon & Winter season testing, pressure testing of fabricated components, commissioning of complete Precision Air Conditioning system. Performance testing at site of complete Precision Air Conditioning system as per various technical requirements.

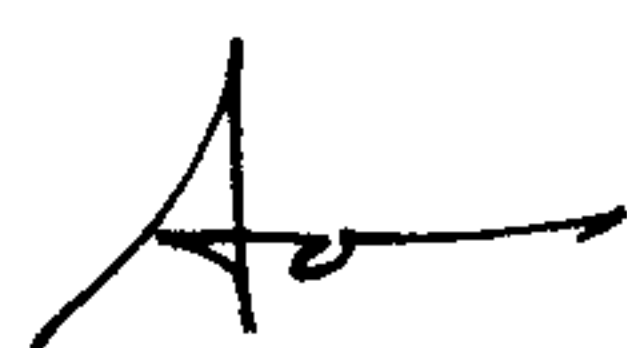
Power supply of 3 ph, 415 volts, 50Hz AC shall be provided at one point in main power panel for group testing & commissioning of complete Precision Air Conditioning system after erection is completed. Further distribution including cabling, earthing cable trays etc. shall be in Precision Air Conditioning Contractor's scope. However, the contractor shall make his own arrangement for power required during construction, fabrication etc. The equipment shall be suitable to operate on 415 Volts 3 phase, 4 wires, 50 Hz. A.C. supply with a variation of  $\pm 10\%$  in Volts and  $\pm 5\%$  in frequency respectively. The supply for illumination and single-phase equipment shall be 230 Volts A.C.

**A . The work shall include, but not be restricted to the following: Supply, Installation, Testing, Successful commissioning and synchronizing of the following:**

- a. Precision Air Conditioning units (Indoor cooling unit & Air Cooled Outdoor Condensing unit) with motors and Drives etc.
- b. Insulation for Refrigerant Piping.
- c. Supply air grilles / Diffusers, GSS frame for mounting of Floor grilles / diffusers in false flooring.
- d. False Flooring
- e. Floor Insulation
- f. Under deck Insulation
- g. Foundation bolts, Grouting, Vibration Isolators, Base Frames etc. for mounting the outdoor condensing unit, indoor Cooling Unit and other equipment.

**B) Other activities:**

- a. Balancing of the entire Precision Air Conditioning installation.
- b. All Minor Masonry, Carpentry and Civil works such as cutting opening in Masonry Walls, Internal Partitions, RCC Slabs etc. for Pipes and Cables and making them good the same to match existing works / décor shall be done by the Contractor, wherever asked for by WBSEDCL.
- c. All other works associated with above items as per specifications, drawings and conditions of contract except those specifically excluded.
- d. Drainage pipe from unit to drain sump.
- e. Cleaning of site & handing over the works.





f. Test reports, list of recommended spares, as-installed drawings, operation and maintenance manual for the entire Precision Air Conditioning installation.

**SW2.** Bidder may visit Data Centre Rajarhat to see the entire cooling system with prior permission of CE, IT&C, WBSEDCL.

**SW3.** PACs may be re-installed & re-configured without any extra cost to WBSEDCL if it is required during entire contract period.

**SW4.** Integration & tuning of the entire system for optimum performance and trouble free operation at DC. Performance test run of the PACs for fine tuning also may be required.

**SW5.** Warranty Service of the PACs to be performed during warranty period of 5 years in DC Rajarhat. Submission OEM Certification indicating PAC serial Number.

**SW6. Detail Technical Specification:**  
**Desired Indoor Design Conditions is as mentioned below:**

DB : 21 +/- 1 °C

RH : 50% ± 5% Dew point below 18 °C

Temperature Fluctuation- ±1°C

Temperature drift: 0.1-degree C/ 30 Min & 0.2-degree C/60 Min.

**PACs for Purchase**

SL. Nos.	DESCRIPTION OF ITEM	Make	CAPACITY
1	Px033 EC ( Down flow) 10 TR Machine including IR Humidifier , Heater , R410A, Condenser system including all other accessories	Emerson-Liebert/ Vertiv	10 TR X 2 Nos

**PACs for Buy Back**

SL. Nos.	DESCRIPTION OF ITEM	Make	CAPACITY
1	LIBERT PEX 135EC 10 TR PACs	Emerson-Liebert	10 TR X 2 Nos

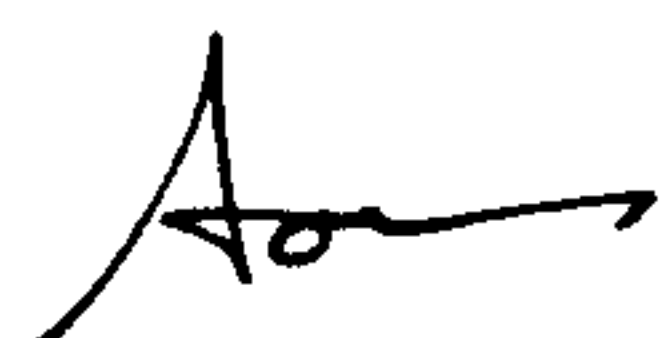
The on-site replacement of 2 Nos of LIBERT PEX 135EC 10 TR PACs with the new PACs. Configuration of the PACs. Synchronization with existing 6 Nos LIBERT PEX 135EC 10 TR PACs to maintain required cooling. This is a turnkey type work. All necessary accessories are to be supplied by the bidder for synchronizing of all 8 PACs. Nitrogen pressure testing, vaccumissing, gas charging and all other activity are the bidders responsibility.

SPECIFICATION OF BOTTOM DISCHARGE AIR COOLED DX TYPE PRECISION AIRCONDITIONER
Indoor Unit



Power supply	415V, 3 phase, 50 Hz, AC, 4 wire system
Compressor	Hermetically sealed variable capacity Digital Scroll Compressor
Cooling coil	DX type Aluminum fin & Cu tube internally grooved with slit fins
Blower motor	IP54, Electronically Commutated motor (EC Motor)
Nominal Air Flow	2500 to 3000 CFM
Static Pressure	25 mm Pa ESP
Safety device for compressor	Inbuilt internal thermal protector, over load trip, high-Low voltage trip, internal pressure relief valve, high pressure cut-out, low pressure cut out, etc.
Control Panel	Microprocessor based intelligent control panel with digital Temperature & Relative Humidity controller and faults diagnostic, alarm, indication as per detail specification given below
Temperature controller	Digital temp controller Range : 20 - 27°C Sensitivity : $\pm 1^{\circ}\text{C}$ (Preferable) TC/RTD/thermistors type temperature sensors
RH controller	Infra-Red Humidifier with high intensity Infrared quartz lamp. Range : 20 – 80 %
Heater	Strip heaters of required capacity to control temperature and RH
Condenser	Air cooled condensers shall have internally grooved copper tubing with anticorrosive coated aluminum fins.
Air Filters	Micro fiber glass fine filter of rated efficiency shall be down to 10 micron particle size, conforming to the standards EU4/MERV4. The unit is fitted with a filter differential pressure switch to provide filter clogged warning indication.
Refrigerant & oil Charging	Refrigerant R410 & oil shall be required quantity as first charge
Refrigerant Piping	hard drawn copper piping between indoor and outdoor units
Cabling	Suitable Power, control and interlocks cabling and earthing between indoor unit and isolator switch and between indoor unit and air cooled condensers (ODU) duly complete with all fittings.
Sheet Metal Parts	Indoor and outdoor units shall be power coated corrosion resistant textured finished CRCA sheet and should have modular construction with railing and hinged door.

LIST OF APPROVED MAKES FOR EQUIPMENT AND MATERIAL	
Details of Materials / Equipment	Approved Makes
Precision AC	Emerson-Liebert/ Vertiv ( PX033 EC DOWNFLOW)
Dampers/Fire Dampers	Carryaire/Dynacraft/TSC/Ravistar/ Systemair/Jonson Control
Grilles/Diffusers	Carryaire/Dynacraft/Ravistar/Zeco/ Systemair/Jonson Control
Fabric Air Dispersion Duct (Diffusers):	Ductsox/ Parihoda/Hero Fabriduct/
Al. Sheets	BALCO/Hindalco/ NALCO
Insulation & Lining Materials	Armacell/ Armaflex/ K-Flex/ UP Twiga
PVC/ C-PVC Pipes	Astral/ Finolex/ Supreme
Controllers, Controls & Sensors	Schneider/ Siemens/Johnson/ Emerson-Liebert
HP/ LP Switch	Danfoss / Ranco / Johnson control



Spring Vibration Isolators	Emerald/ Polybond/ Resistoflex
Electrical Items:	Siemens / ABB / Schneider
Cables	Finolex/ Polycab /Havells
Copper pipes	Mandev/ Rajco/Totaline
MS Structure/ beam/ gurdar/ channel	Jindal/ SAIL/ Tata/ Essar
Filters	Air Breeze/ Aerosol/Spectrum/AAF
Thermostat/ Humidistat	Honeywell/ Danfoss/ Johnson control
Actuator	Honeywell/ Johnson control/Siemens

### **Main Equipments & their materials specification**

#### **DX Type Air Cooled Precision air condition Units**

The room air-conditioning system shall be a floor discharge unit designed specifically for high sensible heat ratio applications such as Special Equipment labs. Each unit shall be capable of providing sensible cooling capacities at rated ambient temperatures with adequate airflow. Each unit shall be capable of providing actual cooling capacity as mentioned in the schedule of quantities. The system shall contain Scroll compressor, Evaporator, Humidifier, Condenser and an Thermostatic / Electronic Expansion valve, all of which shall be contained within the cabinet of the unit.

#### **Cabinet Construction**

The cabinet is manufactured from CRCA externally painted with RAL 7021 colour epoxy-polyester powder paint and assembled. Doubled-skinned Fan section and side panels with Glass wool insulation of 10-25 mm thickness with 30-40 kg/m<sup>3</sup> of density. The frontal panel(s) are assembled on hinges to make the access easier; this can be opened by the fast closing lock.

#### **Filtration**

The filter chamber shall be an integral part of the system and withdraw able from the front of the unit. The filter should be of 5 micron filtration Capacity & efficiency level should be above 90%.

#### **Fans**

The unit is fitted with one (two, three) direct-driven, high efficiency, single inlet, backward curved, centrifugal 'plug' type innovating EC fan(s). The fan(s) have an impeller with curved blades corrosion resistant made of fibreglass plastic. This new technology allows keeping the current high strength of aluminium alloy adding the benefits of light weight and full flexibility on blade design of the new material. The good dampening behaviour of the plastic also helps to reduce noise emissions. The fan motors are Electronically Commutated, IP54, with internal protections, continuous speed regulation via controller signal. The motor is three-phase with IP54 protection; provided with internal thermal protection.

#### **Humidifier**

The humidification system is provided by an electronic control humidifier. The dehumidification function, which is supplied as standard when the humidifier option is installed, acts by reducing the fan speed with consequent reduction of the air flow and at the same time operating the variable capacity compressors at full capacity. The unit is fitted with an infrared humidifier suitable for use with water of varying degrees of hardness. The humidifier is complete with a water inlet valve, and a maximum water level sensor; the humidifier includes 3 high-intensity quartz lamps shine on water creating instantaneous moisture using almost any water quality. The cleanable stainless steel humidifier pan is removable from front of the unit.

#### **Electrical Heating**

The heating resistors are of a rigid design for extended operational life and are normally utilised to maintain room dry-bulb conditions during a system call for dehumidification. Each stage of heaters is made of finned armoured stainless steel AISI 304 to maintain a low surfaces power density. Ionization effects are eliminated owing to the low heater surface temperature.



Heating control is of the ON-OFF type. The heaters are phase balanced and are provided with a manual reset safety thermostat to disable them in the event of a high temperature.

#### **Scroll Compressor**

One (Two) refrigeration circuit(s), (each) incorporating one (two) high efficiency, fully hermetic Digital Scroll compressors with crankcase heater, air-cooled condenser with outlet service valve, safety valve, filter drier, moisture indicating sight glass, liquid line solenoid valve and an expansion valve directly controlled by the unit microprocessor to allow the highest energy saving. The compressor shall be designed for operation on R410A refrigerant.

#### **Refrigeration Circuit**

Each circuit is equipped with pre-set high pressure switch and low pressure transducer for protection against high condensing and low evaporating temperatures. The low pressure transducer is managed by microprocessor controller, whilst to avoid compressor cycling at high discharge pressures, the high pressure switch is equipped with a manual reset. The inclined evaporator coil is manufactured from copper tubes, mechanically bonded to hydrophilic painted aluminium fins, with a stainless steel condensate drain pan. The large face area/low velocity coil allows precise control of temperature and humidity during cooling and dehumidification, and is designed to optimise fluid velocity and minimise pressure drop. The evaporator shall be staged coil to allow a maximum efficiency on partial loads.

#### **Evaporator Coil**

The evaporator coil shall be slant coil incorporating draw-through air design for uniform air distribution. The coil shall be constructed of rifled bore copper tubes and louvered aluminum fins, with the frame and drip tray fabricated from Stainless steel. All metal parts in contacts with condensate shall be the same material to prevent electrolytic corrosion. The drip trays shall ensure the collection of condensate and be accessible for cleaning.

#### **Dehumidification**

Dehumidification function shall operate only when actually required, with reduction in the airflow rate and ensure uniform air distribution & Avoids sudden variation in supply air & room air temperature.

#### **Remote Air Cooled Condenser**

The air-cooled condenser shall be the low profile, weatherproof type incorporating high efficiency, direct drive, external rotor motors with axial blade fans. The condenser shall be constructed from GI Frame. Heavy duty mounting legs and all assembly hardware shall be included. Condensers shall be suitable for 24-hour operation and be capable of providing vertical or horizontal discharge. The condenser shall be fully factory wired and require a 230-volt I phase 50 Hz electrical services.

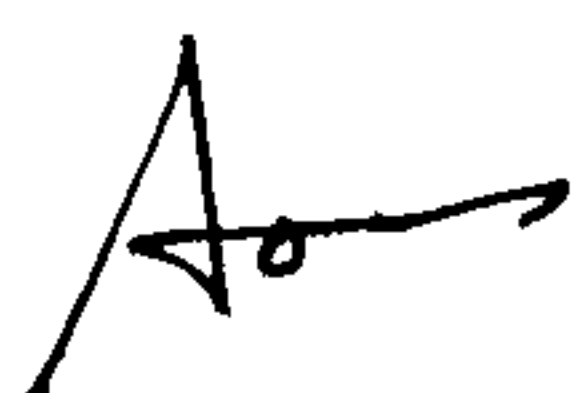
#### **Fan Speed Control Condenser**

The condenser fans shall be directly driven by 6 pole 900 rpm, 230 volt 50 hz electric motors with an IP54 enclosure rating and class F insulation. The motor shall be equipped with permanently sealed ball bearing and high temperature grease. The motors shall be speed controlled to ensure stable operating conditions from -5o C to 45 o C ambient by a factory fitted, direct acting pressure actuated fan speed controller. The control system shall be complete with input isolation switch, transducers and pressure switches. The high performance heat exchanger shall include mechanically expanded crosshatched copper tubes and louvered aluminum form maximum heat transfer. The coil shall be finished in a high temperature modified epoxy coating (kirbykote) to offer increased protection in aggressive environments. The coil shall be have maximum of 3 rows and 472 fins per meter and the face velocity shall not be more than 2.91 m/s.

#### **Unit Controller**

The Control System is microprocessor based, 32-bit RISC. It can be programmed to control the function of every device within the unit via I/O. The controller allows setting and monitoring of the following room parameters via a 3 button keypad:

- Air Temperature





- Temperature set-point
- Temperature band
- Humidity
- Humidity set-point
- Humidity band

The parameters are indicated using symbols and text on a back-lit, 3 digits Liquid Crystal Display. Cooling and heating modes are also indicated on the LCD screen. Alarm conditions activate a visual indicator. Three LED's indicate the unit status – 'Power on' (Yellow), 'Unit on' (Green) and 'Warning/Alarm activated' (Red)

The controller shall provide Unit to Unit Ethernet connection to operate with multiple units, run/stand-by rotation, automatic changeover and parameter sharing functions, external communications through BMS, sequential auto restart timer, with adjustable time delays to be applied to unit restart after a power loss.

The following warnings / alarms are included:

- High temperature
- Low temperature
- High relative humidity
- Low relative humidity
- Humidifier failure
- Fan failure
- Electrical heater high temperature (When applicable)
- Sensor failure
- Controller errors

Terminals are provided for remote start/stop control plus Volt-free 'Common Alarm' and 'Unit Run' indication

The display shall provide with track recorded of temperature and humidity with graphically display on the screen. A buzzer provides audible indication of a 'Warning' or 'Alarm' condition. Unit memory shall hold the 200 most recent alarms with time and date stamp for each alarm. Unit memory shall hold the 400 most recent events with id number, time and date stamp for each event. Menu shall display accumulative component operating hours for major components including compressors, fan motor, humidifier and reheat.

#### **Control**

**The control system shall allow programming of the following conditions:**

- Temperature set point • Humidity Set point • High Temperature Alarm • Low temperature Alarm • High Humidity Alarm • Low Humidity Alarm

**The control system shall include the following settable features:**

- Unit identification number. • Startup Delay, Cold start Delay and Fan Run on timers • Sensor Calibration. • Remote shutdown & general Alarm management • Compressor Sequencing. • Return temperature control. • Choice of Modulating output types.

#### **Alarms**

**The microprocessor shall activate an audible, visual and general alarm in the event of any of the following conditions:**

- High Temperature • Low Temperature • High Humidity • Low Humidity • Loss of Air • High Pressure • Low Pressure • Humidifier Low Water • Water Under Floor • Spare Alarm 1 and 2 (Customized text)

**The unit shall also incorporate the following protections:**

- Single phasing preventors. • Reverse phasing • Phase imbalancing • Phase failure Overload tripping (MPCB) of all components

## **SECTION: III**

### **General Conditions of Contract [GCC]**

#### **GCC.1. General Terms:**

- GCC.1.1. The entire project shall be executed on TURN KEY concept.**
- GCC.1.2.** The WBSEDCL reserves the right to reject the material, even after delivery, if any deviation from tendered specifications is found in the supplied materials at any point of time.
- GCC.1.3.** The bidder shall submit declaration of OEM (applicable for OES) that they will ensure supply and delivery of necessary material of their make for minimum period of 5 (Five) years. For OEM self-declaration is to be submitted on this matter.
- GCC.1.4.** **The Bidder should have an office establishment in Kolkata, West Bengal.**
- GCC.1.5.** For timely completion of the project, WBSEDCL reserves the right to divide/split/modify/cancel the entire job during placement of order without showing any reason whatsoever.
- GCC.1.6.** The bidder has to furnish all the information as required regarding their offer.
- GCC.1.7.** Quotation from any sub-vendor will not be entertained.
- GCC.1.8.** Any form of consortium will not be allowed.
- GCC.1.9.** The bidder shall satisfy WBSEDCL with his ability to perform the service.
- GCC.1.10.** All correspondence, documents and Bid, exchanged between the Bidder and WBSEDCL shall be written in English language. Failure to comply with this request may disqualify a bidder.
- GCC.1.11.** The Company reserves the right, to reject any or all the tenders, at its discretion, without assigning any reason whatsoever.

#### **GCC.2. Force Majeure :**

- GCC.2.1.** The vendor shall be under no liability if the vendor is prevented from carrying out any of the vendor's obligations by reason of war, Invasion, act of foreign country, hostilities, riots, civil commotion, mutiny, accident, earthquake, fires, floods, orders and / or restrictions and other cause beyond the reasonable control of the vendor. However, such force majeure circumstances are to be intimated immediately and to be established subsequently with proper documents / proofs to the entire satisfaction of WBSEDCL.
- GCC.2.2.** WBSEDCL will not take any additional liability towards enhanced taxes, duties and price variation due to force majeure condition.

#### **GCC.3. Cancellation/Termination of Order:** WBSEDCL shall have the right to repudiate the contract if the work is not being performed as per satisfaction and as per "Time Schedule" Clause. The following causes may also lead to cancellation of LOA.

- GCC.3.1.** Non acceptance of LOA as per "Acceptance of LoA" clause.
- GCC.3.2.** Non submission of Performance BG within time.





**GCC.3.3.** If failed to implement the project.

**GCC.3.4.** In each above cases 15 days' termination notice shall be issued prior to termination of LOA.

**GCC.3.5.** If conflict of interest found as per clause no IB38.

**GCC.4. Performance Guarantee:**

**GCC.4.1.** For Supply Delivery Installation and Commissioning of all materials, as contract security, the successful bidder has to furnish a performance Guarantee in the form of Bank Guarantee on non-judicial stamp paper of Rs.100/- by any Schedule Bank in India, as per format enclosed (ANNEXURE-VI). The BG shall be submitted to the CE, IT&C Cell, 3rd Floor, 'D' Block, Bidyut Bhavan, WBSEDCL. As Performance BG, 10% of Contract Price to be submitted within four weeks from the date of issue of LOA. Validity of BG will be 5 (Five) years 6 (Six) months from the date of LOA and claim period will be further 3 (three) months.

**GCC.5. Arbitration & Legal Jurisdiction:**

**GCC.5.1.** During execution of this contract, if any dispute arises thereby, shall be settled amicably between WBSEDCL and yourself to the extent possible.

**GCC.5.2.** All disputes or differences in respect of which the decision if any has not become final shall be settled by arbitration in accordance with the provisions of the Arbitration and Conciliation Act – 1996 or any statutory modification thereof. The venue of Arbitration shall be Kolkata only.

**GCC.5.3.** The necessary legal affairs and / or court case shall be exclusively within the jurisdiction of Calcutta High Court only.

**GCC.6. Delivery & Storage of Equipment:**

**GCC.6.1.** E-Waybill may be generated from the vendor's end and must be submitted in hard copy during delivery of the materials otherwise the materials will not be received. The In-charge of DC will issue necessary dispatch clearance. On receipt of necessary clearance, delivery of materials and equipments are to be made at respective locations. Accordingly, delivery challan shall be raised. No equipment shall be delivered to the site without obtaining dispatch clearance. Such materials and equipments, just after receipt would be handed-over to the agency against their receipt duly signed by authorized signatory, for installation purpose. The entire responsibility of proper storage, handling, re-transport actual location of installation and insurance against all risks would be vested with the contracting agency and WBSEDCL will not be responsible for any loss, theft or damage of equipment in any manner whatsoever till the same are installed and commissioned and taken-over by WBSEDCL.

**GCC.6.2.** The contracting agency will not be permitted to take away such materials / equipment without written permission of the Head of the respective office (CE, IT&C Cell) from the site where such equipment has been delivered. Such materials and equipments are to be taken back by the contracting agency only at the time of installation of the same after clearance given by the supervising officer of work.

**GCC.6.3.** All supplied items should be certified by respective OEM mentioning sl. no. for the particular LOA which would be placed on successful bidder. The certificate from OEM containing sl. No. of equipment should be submitted along with Bill "on delivery" as per terms of payment.



**GCC.6.4. All transit risks & costs shall have to be borne by the contractor.**

**GCC.7. Liquidated damage:** The timely completion of entire project as per “Completion Time” Clause is the basic consideration and essence of the contract and WBSEDCL reserves the right to repudiate the contract if the successful bidder fails to complete the work within stipulated period for completion. However, the ordering authority may at his discretion waive this condition with imposition of liquidated damage indicated herein below.

**GCC.7.1. Delay in implementation of the project:** If the successful bidder fails to complete the work within the completion time as stated in the Clause of “Time Schedule”, a L.D. at the rate of ½% of the proportionate contract price per day of delay or part thereof subject to a maximum of 10% of proportionate Contract price of the LOA shall be imposed on the successful bidder. As it is a turn-key project & mere supply of equipments cannot be construed as completion of work, hence for the purpose of this clause, work will be treated as finished for a particular location only when successful installation, commissioning and trial run and acceptance of the material is complete. Otherwise the total value of material and work will be treated as unfinished and L.D. will be calculated on the total value. L.D. if applicable will be deducted from bills on installation & commissioning or from any outstanding bills / bank guarantee lying / to be lying with WBSEDCL.

**GCC.7.2. During Warranty Period:** Failure to set right the malfunctioning or to rectify fault of the system within the schedule downtime as indicated in the “Warranty” clause, a deduction at the rate of 5% (five percent) cost of particular material per day or part thereof subject to maximum of 10% cost of particular equipment will be recovered as L.D. from the contractor. Liquidated Damage, if applicable during warranty period, will be recovered from any outstanding bills / bank guarantee lying / to be lying with WBSEDCL.

**GCC.8. Completion Time:**

Completion time for execution of the project in turn-key basis shall be as per time schedule clause. The successful bidder shall complete the entire job including delivery of equipment, installation and commissioning within scheduled completion time as stipulated in this clause. Date of placement of LoA shall be considered as zero date.

**GCC.9. DATE OF ACCEPTANCE**

Subject to, date of taking over the installation after 10 days of trouble free operation shall be the date of acceptance. Any undue wear and tear of components during the “Running in Period” shall be made good by the contractor free of charge.

**GCC.10. Risk Purchase / Performance:** Completion time (Four weeks from Zero date) stipulated in the clause no. “GCC.9 Completion Time” shall be deemed to be the essence of the contract and if the contractor fails to deliver, install and commission the consignment within the completion time i.e. within Four Weeks from zero date, the purchaser shall be entitled to purchase such consignment and if not available the best and nearest available substitute elsewhere on the account



and at the risk of the contractor or to cancel the contract and the contractor shall be liable to compensate for any loss or damage which the purchaser (WBSEDCL) may sustain by reason of such failure on the part of the supplier. Recovery will be made from the outstanding bills and/or through encashment of any Bank guarantee of the contractor lying/ to be lying with WBSEDCL.

**GCC.11. Warranty:**

- GCC.11.1.** The entire items, supplied, installed and commissioned i.e. PACs and accessories, etc. will have warranty for trouble free operation for a period of 5 (five) calendar years without any extra cost to WBSEDCL, from date of acceptance of material under the LOA. Further, during this period, it will be responsibility of the selected bidder to maintain and support the system fully and ensure proper availability of service. Services necessary for maintenance of all the above shall be bidder's responsibility.
- GCC.11.2.** Service calls have to be attended within the same day. The faults are to be rectified within a period of 24 hrs. in both the location DC and DRC from the time of booking of complaint during the warranty period. For downtime calculation, the day and time on which the call is logged and day and time on which the call is closed will be considered. Sundays & Holidays will also be counted towards calculation of downtime. Replacement of major defective items has to be made within 24 hrs..
- GCC.11.3.** During the warranty period, preventive maintenance of entire system at least once in every three months must be done by the contractor to avoid breakdown / malfunctioning of the system. Site Officer will inform the breakdown / failure of system to the contractor over phone.
- GCC.11.4.** The contractor must maintain 24X7 centralized call registration system and acknowledge each and every call with a unique call docket no., which is to be used for further reference.
- GCC.11.5.** If all the PACs as a whole does not meet the requirements as mentioned in this document any time during the warranty period, the vendor must provide replacement and assure quality with the appropriate tests to match the original specifications.

**GCC.12. Limitation of liability:**

Except in cases of gross negligence or willful misconduct:

- GCC 12.1.** Neither Party shall be liable to the other Party for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the bidder to pay liquidated damages to WBSEDCL, and
- GCC 12.2.** The aggregate liability of Bidder to WBSEDCL, whether under the Order, in tort, or otherwise, shall not exceed the amount specified in the Contract Price. Provided that this limitation shall not apply to the cost of repairing or replacing defective equipment/solutions, or to any obligation of the bidder to indemnify WBSEDCL with respect to patent infringement.





**GCC.13. Submission of bills for payment:**

GCC.13.1. Bills against Delivery, Installation Commissioning, synchronization and acceptance certificate are to be submitted in triplicate with relevant papers and documents to the Chief Engineer, IT & C Cell.

**GCC.14. Terms of Payment:**

GCC.14.1. No advance payment will be made against this order in any circumstances for turn-key implementation of entire project.

GCC.14.2. Payment shall be made in Indian Rupee only.

GCC.14.3. Payment will be released after successful completion of entire work including Supply, delivery of the materials, Installation, Commissioning and Acceptance of material as mentioned in "Scope of Work "and after submission of valid performance BG.

GCC.14.4. Xerox copy of GST registration certificate.

GCC.14.5. Xerox copy of Order,

GCC.14.6. Bills are to be certified by both Controlling and Supervising Officer.

GCC.14.7. Bills are to be submitted to the office of the Chief Engineer, IT&C Cell, 3rd Floor, Block-D, Bidyut Bhavan, Salt Lake City, Kolkata – 700091.

**GCC.14.8. On Delivery, Installation ,Commissioning and acceptance:**

GCC.14.8.1. 100 % of the material value plus 100% tax on those materials subject to submission of PBG of 10% of the order Value.

GCC.14.8.2. Enclosures: Successful Installation, commissioning and acceptance certificate indicating date of installation and acceptance signed by the concerned Consignee & Supervising Officer.

**GCC.15. Detail Address of Delivery Locations**

a) Central Data Center, WBSEDCL, Behind DLF-1 Building, Beside 33/11 KV Sub Station, Street No:41, Action Area-1, Newtown, Rajarhat.

**GCC.16. WBSEDCL personnel for liaison :**

**GCC.16.1. Controlling Officer:**

Addl. Chief Engineer, IT & C Cell. - He would issue the successful completion certificate.

**GCC.16.2. Consignee & Supervising Officer:**

In-charge of DC– He would supervise & monitor all the activities.

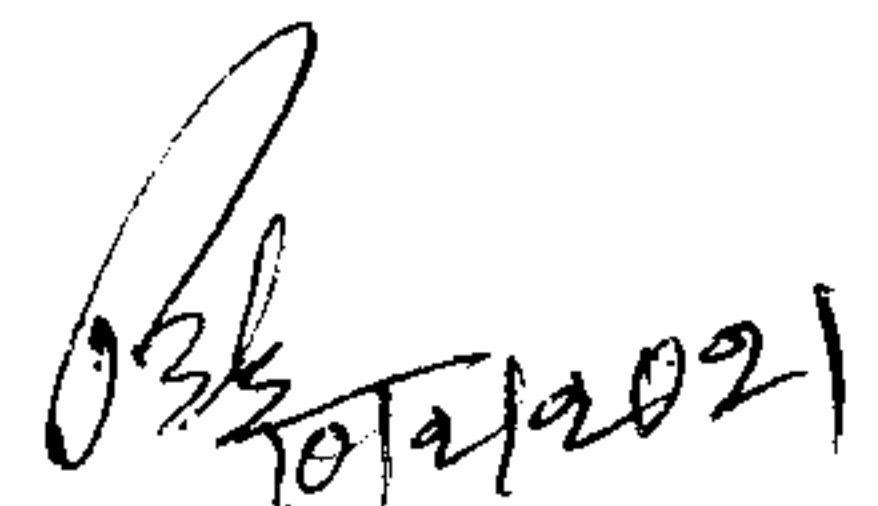
**GCC.17. Paying Authority:**

Manager (F&A), Establishment-Corporate, Bidyut Bhawan, WBSEDCL.



**Enclosure:**

1. Annexure-I : Format of Bid Proposal
2. Annexure-II: Mandatory Condition
3. Annexure-IIA: Schedule of Bids
4. Annexure-IIB: Summary statement of average annual turnover
5. Annexure-IIC: Summary statement of Order Executed.
6. Annexure-III: Bid Guarantee-EMD-Format of BG.
7. Annexure-IVA: Undertaking.
8. Annexure-IVB: Letter of Bid.
9. Annexure-IVC: Deviation Schedule.
10. Annexure V : Material Specification
11. Annexure- VI: Format of Performance Bid Guarantee
12. Annexure VII : Price Bid Format
13. Annexure VIII: MAF (Manufacturer Authorization Form)
14. Annexure IX : Technical Data Sheet
15. Annexure X : Bank Details

  
C.E, IT&C Cell  
**WBSEDCL**





**BID PROPOSAL****From**

Bidder's Name and Address :  
Contact person :  
Designation :  
Telephone No. (Land Line & mobile) :  
Fax :  
Tender Reference :

To  
The Chief Engineer,  
IT & C Cell,  
West Bengal State Electricity Distribution Company Limited,  
3<sup>rd</sup> Floor, Block'D', Vidyut Bhavan.,  
Bidhannagar,  
Kolkata- 700 091.

Sub.: Supply, Delivery, Installation & Commissioning and Synchronization of 2  
Nos of PACs with existing PACs at Data Centre Rajarhat, WBSEDCL  
including 5 years' warranty Services

Dear Sir,

1. We the undersigned Bidder/(s), having read and examined in details the specifications and other documents of the subject Tender, do hereby propose to execute the contract as per specification as set forth in your Bid-Documents.
2. PRICES AND VALIDITY:
  - 2.1. The ex-works prices of all items/equipments and rate of Supply, Delivery, Installation & Commissioning and Synchronization of PACs etc. stated in the bid are FIRM during the entire period of contract irrespective of date of completion and not subject to any price adjustment as per in line with the Bidding Documents. All prices and other terms and conditions of this proposal are valid for a period of 180 (one hundred eighty) days from the date of opening of the bids . We further declare that prices stated in our proposal are in accordance with your bidding.
  - 2.2. We confirm that our bid prices include all other taxes and duties and levies applicable on bought out components, materials, equipments and other items and confirm that any such taxes, duties and levies additionally payable shall be to our account.
  - 2.3. All duties & taxes such as excise duty, sales tax (but not Surcharge in lieu of Sales Tax), Service Tax, Local Tax and other Levies, if any, applicable on transaction



**ANNEXURE-I**

West Bengal State Electricity Distribution Company Limited  
Tender notice No. WBSEDCL/IT&C/33.10(i)/3437 Dated: 10/02/2021

from us to you payable extra by you against production of documentary evidence to be submitted by us.

3. BID GUARANTEE :

We have enclosed a Bid Guarantee in the form of Bank Guarantee from .....drawn in favour of WBSEDCL for an amount of Rs.....

4. DEVIATIONS :

We declare that contract shall be executed strictly in accordance with the specifications and documents except for the deviations, all of which have been detailed out exhaustively in our deviation schedules, in volume irrespective of whatever has been stated to the contrary any where else in our proposal.

Further, we agree that additional conditions, deviations, if any, found in the proposal documents other than those stated in our Deviation Schedules, save that pertaining to any rebates offered, shall not be given effect to.

5. WORK SCHEDULE :

If this proposal is accepted by you, we agree to provide services and complete the entire work, in accordance with schedule indicated in the proposal, we fully understand that the work completion schedule stipulated in the proposal is the essence of the Contract, if awarded. The completion schedule of the various major key phases of the work will be as per time Schedule submitted by us and approved by WBSEDCL in order to maintain the completion time schedule of bid documents.

6. CONTRACT PERFORMANCE GUARANTEE :

We further agree that if our proposal is accepted, we shall provide a Contract Performance Guarantee of value, equivalent to ten percent (10%) of the Contract Price as stipulated in Bid document in the form of Bank Guarantee (Please specify the form of guarantee) in your favour and enter into a formal agreement with you within four weeks from the date of issue of LOA

Dated.....this.....day of.....2021

Thanking you, we remain,

Yours faithfully,

Date \_\_\_\_\_

Place \_\_\_\_\_

(Signature) \_\_\_\_\_

(Printed Name) \_\_\_\_\_

(Designation) \_\_\_\_\_

(Common Seal) \_\_\_\_\_

Business Address:

Name & Address of Authorized Signatory:





**Mandatory Condition**

Sl No.	Requisite Credential	Requisite Supporting document	Submitted Yes/No
1	Annual Turn Over for each of last three consecutive financial years i.e. 2016-17, 2017-18, 2018-19, 2019-20 must be at least <b>2.5 Crore</b> .	Provide the turnover in a separate sheet (as <b>per Annexure-IIB</b> ) with Auditor's signature along with following supporting document duly attested i. Audited Balance Sheet for consecutive 3 years as mentioned. ii. PL Account for consecutive 3 years as mentioned.	
2	Financial Capability to handle a single Project of Rs <b>25 Lakhs</b> .	Statement of orders executed during last Three financial years ( <b>Vide Form-IIC</b> ) i.e for financial years 2016-17, 2017-18, 2018-19, 2019-20	
3	Must have capability of installation and commissioning of similar PACs as mentioned in the NleT. The Bidder must have a Toll Free Number / contact no for service support where user shall log complaints. The Bidder should have office facility available in Kolkata, West Bengal.	i. Relevant valid ISO Certification ii. Centralized Electronic Call log-in facility along with Toll Free phone no/ contact no. iii. Address of Kolkata Office.	
4	Must have experience of at least two similar projects for Supply, Delivery, Installation and Commissioning of PACs, with Project value not less than <b>15 Lakhs each</b> .	Work order with successful work completion Certificate to be enclosed.	
5	Must have back-end agreement with the OEMs ( for OES) for entire contract period	MAF/ OEM certification. (for OES) For OEM self-declaration is required GTP to be submitted by the bidder.	
6	The bidder should be either OEM (Original Equipment Manufacturer) of the equipment or OES (Original Equipment Supplier) of such OEM (should produce documentary evidence from the OEM in this regard). OEM certification is mandatory for OES.)	In case bidder is not OEM then manufacturer authorisation letter to be submitted.	



Sl No.	Requisite Credential	Requisite Supporting document	Submitted Yes/No
7	The bidder should have its own Engineers for direct support.	List of Engineers details to be enclosed.	
8	Must Comply with all statutory obligations.	Provide the following required nos. in a separate sheet ( <b>as per Annexure- IIA</b> ) duly attested with following supporting documents. i. Copy of PAN Card ii. GST certificate iii. Registration no of the company iv. Relevant valid ISO Certification 9001	
9	The bidder shall have a registered office in Kolkata and having operations in India for the last five years (Certificate of Incorporation).	A documentary proof with complete address details and contact person details and Certificate of Incorporation.	
10	The vendor shall maintain sufficient stock of PACs and spares in West Bengal/ Kolkata at his own cost for a total contract.	Self declaration.	
11	Must comply to the Conflict of Interest clause .	Self declaration	
12	Banker's certificate regarding financial capability issued for any consecutive three financial years within 2016-17, 2017-18, 2018-19, 2019-20	Banker's certificate	

N.B.: Each page of all the documents/copy of certificates should be submitted with attestation by the authorized signatory and with seal & date.

**Signature of the bidder with Office Seal**





## SCHEDULE OF BIDS

1.	Name of the tenderer with office address Tel No./Fax no./Email address	:			
2.	Address of Kolkata office and Tel no./Fax no./ E-mail address with the name of contact person	:			
3.	Contact Person with Telephone No., Mobile No., E-mail ID and FAX No. of the Bidder	:			
4.	GST registration No.	:			
5.	Earnest Money (Amount and in the form of BG/DD/BC) submitted	:	6	Category of organisation	
7.	Details of Earnest Money in BG/DD/BC as submitted:	:	8	Company Registration No.	
9.	Details of Tender Fees in DD/BC as submitted:	:			
10.	PAN Card No	:			
11.	Whether agreed to <b>(YES/NO):</b>	:			
	a) Terms of Payment	:	c)	Risk purchase clause	
	b) Earnest Money clause	:	d)	Liquidated damage clause	
12.	Offer valid upto	:	<b>180 days from the date of opening of Technical Part of the Tender.</b>		
13.	The price should be Firm.	:	<b>The Prices Are Firm.</b>		
14.	Whether the bidder has submitted a) GST certificate b) Copy of PAN Card c) Company Registration certificate d) Relevant valid ISO 9001 Certification	:			

( Signature and Seal of Tenderer )

Dated-----

Tender Notice No: WBSEDCL/IT&amp;C/33.10(i)/ 3437

Dated: 10.02.2021



**Certificate regarding Summary Statement of Yearly Turnover**

This is to certify that the following statement is the summary of the audit report /tax audit report arrived in favour of ..... for the **any three consecutive** years or for such period since inception of the Firm, if it was set in less than such three year's period.

Sl. No.	Financial		Remarks
	Year	Turnover rounded up to two digit after decimal (Rs. In Lakh)	
1.	2016-17		
2.	2017-18		
3.	2018-19		
4.	2019-20		
Total			

Average Turnover:

**Note:**

1. Average turnover is to be expressed in lakh of rupees, rounded up to two digits after decimal.
2. Average turnover for 3 years is to be obtained by dividing the total turnover by 3.0 (**any three consecutive** years )

**(Signature with Designation & Seal)**

Dated-----





**STATEMENT OF ORDERS EXECUTED DURING LAST FOUR FINANCIAL YEARS.**

Sl. No.	Work Description	Financial year	Order No. and date	Name order issuing authority	Order Value in Rs.	Scanned Copy of Completion of the order submitted (YES/NO)	Remarks

.....  
 (SIGNATURE OF THE TENDERER WITH OFFICE SEAL)

Dated-----

**Tender Notice No:** WBSEDCL/IT&C/33.10(i)/3437

Dated: 10/02/2021



**PROFORMA OF BANK GUARANTEE**  
**FOR BID GUARANTEE (Earnest Money)**  
(To be stamped in accordance with Stamp Act)

Ref. No. :

Date :

To  
The West Bengal State Electricity Distribution Company Limited  
Vidyut Bhavan  
DJ Block, Sector - II  
Salt Lake, Kolkata - 700 091

Dear Sirs,

In accordance with your Notice Inviting Tender (NIT) under your Specification No. \_\_\_\_\_ M/s \_\_\_\_\_ having its Registered Head Office at \_\_\_\_\_ (hereinafter called the Bidder) wish to participate in the said Tender for \_\_\_\_\_.

As an irrevocable Bank Guarantee against Bid Guarantee for an amount of \_\_\_\_\_ is required to be submitted by the Bidder as a condition precedent for participation in the said Tender, which amount is liable to be forfeited on the happening of any contingencies mentioned in the Tender Documents.

We, the \_\_\_\_\_ Bank at \_\_\_\_\_ having our Head Office at \_\_\_\_\_ (Address of Bank) guarantee and undertake to pay immediately on demand by West Bengal State Electricity Distribution Company Limited the amount of \_\_\_\_\_ (in words and figures) without any reservation, protest, demur and recourse. Any such demand made by said Purchaser shall be conclusive and binding on us irrespective of any dispute of difference raised by the Bidder.

This Guarantee shall be irrevocable and shall remain valid up to \*\* \_\_\_\_\_. If any further extension of this guarantee is required, the same shall be extended to such required period on receiving instructions from M/s \_\_\_\_\_ on whose behalf this Guarantee is issued.

All rights of West Bengal State Electricity Distribution Company Limited under this Guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities there under unless WBSEDCL enforce a claim under this Guarantee against the Bank within three months from the above mentioned expiry date of validity or, from that of the extended date.

In witness whereof the Bank, through its authorized Officer, has set its hand and stamp on this \_\_\_\_\_ day of \_\_\_\_\_ 2021 at \_\_\_\_\_.

**WITNESS:**

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Official address)

\_\_\_\_\_  
(Designation with Bank Stamp)

Attorney as per Power of Attorney No. \_\_\_\_\_  
Date \_\_\_\_\_

\*\* This date should be initially for one hundred eighty (180) days and may be extended from time to time.

**Tender Notice No:** WBSEDCL/IT&C/33.10(i)/3437

Dated: 10.02.2021





PROFORMA FOR UNDERTAKING TO BE SUBMITTED BY THE BIDDER

(For genuineness of the information furnished on-line and authenticity of the documents produced before Tender Committee for verification in support of his eligibility)

I -----, Partner/Legal Attorney/ Accredited Representative of M/s -----, solemnly declare that:

1. We are submitting Tender for the Work -----  
----- against Tender Notice No. ----- dt. -----  
-----
2. None of the Partners of our firm is relative of employee of -----  
----- (Name of the Company).
3. All information furnished by us in respect of fulfilment of eligibility criteria and qualification information of this Tender is complete, correct and true.
4. All documents/ credentials submitted along with this Tender are genuine, authentic, true and valid.
5. If any information and document submitted is found to be false/ incorrect any time, department may cancel my Tender and action as deemed fit may be taken against us, including termination of the contract, forfeiture of all dues including Earnest Money and banning / delisting of our firm and all partners of the firm etc.

(Signature of the Tenderer with Seal )

Dated-----

**Tender Notice No:** WBSEDCL/IT&C/33.10(i)/3437

**Dated:** 10/02/2021



**FORMAT OF LETTER OF BID**

**LETTER HEAD OF BIDDER (AS ENROLLED ONLINE ON e-Tendering PORTAL OF NIC)**

To,  
The Tender Committee,

Sub: Letter of Bid for the work

-----  
-----  
-----  
-----  
-----  
Ref: 1. NleT No ----- dated -----

2. Tender Id No. -----

Dear Sir,

We offer to execute the work as per our offered bill of quantity in accordance with the conditions of the NleT document as available in the website. The details of the EMD being submitted by us has been furnished on-line.

This Bid and your subsequent Letter of Acceptance / Work Order shall constitute a binding contract between us.

We hereby confirm our acceptance of all terms and conditions of the NleT document unconditionally.

(Signature of the Tenderer with Seal)

Dated-----

**Tender Notice No:** WBSEDCL/IT&C/33.10(i)/3437

Dated: 10/02/2021





**Techno Commercial Deviation Sheet**

1. If the proposal has got any deviation from the Technical specification, the bidder shall tabulate those deviations clause by clause.

Sl No	Clause No	Description	Deviation offered	Remarks:(+)ve /(-)ve

2. If the proposal has got any deviation from the commercial terms, the bidder shall tabulate those deviations here clause by clause.

Sl No	Clause No	Description	Deviation offered	Remarks:(+)ve /(-)ve

Signature of Authorized Signatory with office seal

Name and address of the bidder:

**Note:** When there is no deviation, this sheet is to be submitted with the offer duly signed with an endorsement indicating "No Deviation". Deviations not indicated here will not be taken into consideration.



### PACs for Purchase

Systems should mandatorily be having variable speed compressors and performance as per specifications.

SPECIFICATION OF BOTTOM DISCHARGE AIR COOLED DX TYPE PRECISION AIRCONDITIONER	
Indoor Unit	
Power supply	415V, 3 phase, 50 Hz, AC, 4 wire system
Compressor	Hermetically sealed variable capacity Digital Scroll Compressor
Cooling coil	DX type Aluminum fin & Cu tube internally grooved with slit fins
Blower motor	IP54, Electronically Commutated motor (EC Motor)
Nominal Air Flow	2500 to 3000 CFM
Static Pressure	25 mm Pa ESP
Safety device for compressor	Inbuilt internal thermal protector, over load trip, high-Low voltage trip, internal pressure relief valve, high pressure cut-out, low pressure cut out, etc.
Control Panel	Microprocessor based intelligent control panel with digital Temperature & Relative Humidity controller and faults diagnostic, alarm, indication as per detail specification given below
Temperature controller	Digital temp controller Range : 20 - 27°C Sensitivity : $\pm 1^{\circ}\text{C}$ (Preferable) TC/RTD/thermistors type temperature sensors
RH controller	Infra-Red Humidifier with high intensity Infrared quartz lamp. Range : 20 – 80 %
Heater	Strip heaters of required capacity to control temperature and RH
Condenser	Air cooled condensers shall have internally grooved copper tubing with anticorrosive coated aluminum fins.
Air Filters	Micro fiber glass fine filter of rated efficiency shall be down to 10 micron particle size, conforming to the standards EU4/MERV4. The unit is fitted with a filter differential pressure switch to provide filter clogged warning indication.
Refrigerant & oil Charging	Refrigerant R410 & oil shall be required quantity as first charge
Refrigerant Piping	hard drawn copper piping between indoor and outdoor units
Cabling	Suitable Power, control and interlocks cabling and earthing between indoor unit and isolator switch and between indoor unit and air cooled condensers (ODU) duly complete with all fittings.
Sheet Metal Parts	Indoor and outdoor units shall be power coated corrosion resistant textured finished CRCA sheet and should have modular construction with railing and hinged door.



West Bengal State Electricity Distribution Company Limited  
Tender notice No. WBSEDCL/IT&C/33.10(i)/3437 Dated: 10/02/2021

LIST OF APPROVED MAKES FOR EQUIPMENT AND MATERIAL	
Details of Materials / Equipment	Approved Makes
Precision AC	Emerson-Liebert/ Vertiv ( PX033 EC DOWNFLOW)
Dampers/Fire Dampers	Carryaire/Dynacraft/TSC/Ravistar/ Systemair/Jonson Control
Grilles/Diffusers	Carryaire/Dynacraft/Ravistar/Zeco/ Systemair/Jonson Control
Fabric Air Dispersion Duct (Diffusers):	Ductsox/ Parihoda/Hero Fabriduct/
Al. Sheets	BALCO/Hindalco/ NALCO
Insulation & Lining Materials	Armacell/ Armaflex/ K-Flex/ UP Twiga
PVC/ C-PVC Pipes	Astral/ Finolex/ Supreme
Controllers, Controls & Sensors	Schneider/ Siemens/Johnson/ Emerson-Liebert
HP/ LP Switch	Danfoss / Ranco / Johnson control
Spring Vibration Isolators	Emerald/ Polybond/ Resistoflex
Electrical Items:	Siemens / ABB / Schneider
Cables	Finolex/ Polycab /Havells
Copper pipes	Mandev/ Rajco/Totaline
MS Structure/ beam/ gurdar/ channel	Jindal/ SAIL/ Tata/ Essar
Filters	Air Breeze/ Aerosol/Spectrum/AAF
Thermostat/ Humidistat	Honeywell/ Danfoss/ Johnson control
Actuator	Honeywell/ Johnson control/Siemens

Complied (YES/ NO)

.....  
(SIGNATURE OF THE TENDERER WITH OFFICE SEAL)

Dated-----





## PROFORMA FOR BANK GUARANTEE FOR CONTRACT PERFORMANCE

(To be stamped in accordance with Stamp Act)

Bank Guarantee No. \_\_\_\_\_

Ref No. \_\_\_\_\_

Date : \_\_\_\_\_

To

The West Bengal State Electricity Distribution Company Limited,  
Vidyut Bhavan, Salt Lake,  
DJ Block, Sector-II,  
Kolkata -700 091 (India).

Dear Sir,

In consideration of West Bengal State Electricity Distribution Company Limited (hereinafter referred to as WBSEDCL) which expression shall unless repugnant to the context or meaning thereof include its successors, administrators and assigns having awarded to M/s \_\_\_\_\_ with its Registered/Head Office at \_\_\_\_\_ (hereinafter referred to as the 'Contractor') which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators, executors and assigns, a Contract by issue of Order No. \_\_\_\_\_ dated \_\_\_\_\_ valued at \_\_\_\_\_ for \_\_\_\_\_ (Scope of Contract) and the Contractor having agreed to provide a Contract Performance Guarantee for the faithful performance of the Service to \*-----%(percent) of the value of the Contract value vide Order No. \_\_\_\_\_ Date \_\_\_\_\_(reference of original order), against Contract to WBSEDCL.

We \_\_\_\_\_(Name and Address) having its Head Office at \_\_\_\_\_ hereinafter referred to as the 'Bank') which expression shall, unless repugnant to the context or meaning thereof include its successors, administrators, executors and assigns do hereby guarantee and undertake to pay WBSEDCL, on demand any and all moneys payable by the Contract to the extent of \_\_\_\_\_ as aforesaid at any time upto (day/month/year) without any demur, reservation, contest recourse or protest and or without any reference to the Contractor. Any such demand made by WBSEDCL on the Bank shall be conclusive and binding notwithstanding any difference between WBSEDCL and the Contractor or any dispute pending before any before any Court, Tribunal or any other Authority. The Bank undertakes not to revoke this guarantee during its currency without previous consent of WBSEDCL and further agrees that the guarantee herein contained shall continue to be enforceable till the WBSEDCL discharges this guarantee.

WBSEDCL shall have the fullest liberty without affecting in any way the liability of the Bank under this guarantee from time to time extend the time for performance of the Contract by the Contractor. WBSEDCL, shall have the fullest liberty, without affecting this guarantee to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the Contractor and to exercise the same at any time and any manner, and either to enforce or to forbear to enforce any covenants, contained or implied in the Contract between WBSEDCL and the Contractor or any other course of remedy or security available to WBSEDCL. The Bank shall not be released of its obligations under this presents by any exercise by WBSEDCL of its liberty with reference to the matters aforesaid or any of them or by reason or any other acts of omission or commission on the part of WBSEDCL or any other indulgence shown by WBSEDCL or by any other matter or thing whatsoever which under the law would but for this provisions have the effect of relieving the Bank.

The Bank also agrees that WBSEDCL at its option shall be entitled to enforce this guarantee against the Bank as a Principal debtor, in the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee that WBSEDCL may have in relation to the contractor's liabilities.

Notwithstanding anything contained herein above our liability under this guarantee is restricted to \_\_\_\_\_ and shall remain in force up to and including \_\_\_\_\_ and shall be extended from time to time for such period, as may be desired by M/s. \_\_\_\_\_ to whose behalf this guarantee has been given.

All rights of WBSEDCL under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities there under unless the WBSEDCL enforce a claim under this guarantee against the Bank within three months from the above mentioned date or from the extended date.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 2021 at \_\_\_\_\_

Witness :

(Signature)

(Signature)

(Name)

(Name)

(Official address)

(Designation with Bank Stamp)

Attorney as per Power of

Attorney No. \_\_\_\_\_

Date \_\_\_\_\_

Tender Notice No: WBSEDCL/IT&amp;C/33.10(i) / 3437

Dated: 10/02/2021



[Validate](#)[Print](#)[Help](#)Item Rate BoQ

Tender Inviting Authority: Chief Engineer, IT&amp;C Cell, WBSEDCL

Annexure-- VII

Name of Work: Supply, Delivery, Installation &amp; Commissioning of 2 Nos of PAC at Data Centre Rajarhat and DRC Berhampore including 5 years warranty Services.

Contract No: WBSEDCL/IT&amp;C/33.10(i)/3437 Dated : 10/02/2021

Bidder Name :

PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only )									
NUMBER	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER	TEXT	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Quoted Basic unit price in INR Rs. P	GST (%)	HSN / SAC Code	TOTAL AMOUNT In Figures	TOTAL AMOUNT In Words	
1	2	4	5	13	14	18	53		55
1	Price for 2 Nos of PAC with all synchronization and other accessories as per specification mentioned in Nlet.	2	No				0.00	INR Zero Only	
2	Installation charges		1 LS				0.00	INR Zero Only	
3	Buy Back Price for 2 Nos of PACs		2 No				0.00	INR Zero Only	
15	Mention GST (%) and HSN/SAC Code Properly. (Not required for Buy Back )								
Total in Figures									
Quoted Rate in Words							0.00	INR Zero Only	

Manufacture's Authorization Form (MAF)

ANNEXURE-VIII

Date: \_\_\_\_\_

Tender Reference No.& Tender ID. \_\_\_\_\_

Dear Sir,

We \_\_\_\_\_ (OEM) who are established and reputed manufacturers of \_\_\_\_\_ (Equipment) having Factories at \_\_\_\_\_ and \_\_\_\_\_ confirms that, M/s. \_\_\_\_\_ (Name and address of Bidder herein after called as partner) wishes to participate the Bid or Project stated above and enter into agreement for the purchase and resale of \_\_\_\_\_ (OEM) Products and, Service. The Partner is entitled and authorized to the following.

(a) Resale, and/or distribute \_\_\_\_\_ (OEM) products and/or services in India to end users within that Territory.

(b) Bid, negotiate and conclude a contract with \_\_\_\_\_ for the above products/services manufactured or supplied by \_\_\_\_\_ (OEM).

\_\_\_\_\_ (OEM) will, within the scope of its agreement with its authorized channels, provide product warranty services and technical support for \_\_\_\_\_ (OEM) products obtained through its authorized channels for a defect liability period mentioned in the Tender document referred above, from the date of installation at \_\_\_\_\_ (Work-site name).

\_\_\_\_\_ (OEM) certify that, the equipment being sold would not be declared End of Sale (EoS) within defect liability period and that \_\_\_\_\_ (OEM) shall supply suitable substitute in case EoS of equipment. Also \_\_\_\_\_ (OEM) certifies that the products being sold would be covered under Warranty/Technical Support and technical support will be available for defect liability period from the date of installation at \_\_\_\_\_ (Work-site name).

If you need any additional information, please contact Mr./Ms. \_\_\_\_\_ at \_\_\_\_\_ (Mobile No.) of \_\_\_\_\_ (E-mail ID).

Yours faithfully,

Name of the person:  
For and on behalf of M/s.

Designation:  
Contract Details:

Date:

Place:

(Name of Original Equipment Manufacture- OM) (Seal of OEM)





(Technical Data Sheet to be filled up by the bidder)

### **SCHEDULE OF TECHNICAL DATA**

#### **GENERAL**

Technical data for all pieces of equipment and materials shall be submitted in the formats given in this section.

If the technical data is not filled in completely then the tender is liable for rejection.

Performance charts and catalogues of all equipment are to be submitted along with the tender. The technical literature so enclosed will not be a substitute for the Data sheet, the data sheet has to be necessarily filled in.

Additional information if any, may be added at the end of each format.

Tenderers shall carefully study the spaces allotted for installation of equipment and allied works and offer their equipment and systems to fit into the spaces allotted. The tenderers shall take into account the spaces required for maintenance etc. All requirements for safe and efficient installation and operation of the plants shall be deemed to be included in the offer.

Non-compliance to above instruction may result in rejection of the tenders.

#### **TECHNICAL DATA**

<b>Indoor Unit</b>		
<b><u>Description</u></b>	<b><u>Unit</u></b>	
Number of bay	--	
Number of circuit's	--	
Casing material	--	
Skin	--	
TYPE OF UNIT:		
Floor Unit	FA/RA/DA	
COMPRESSOR:		
Make	--	

Type	--	
Model No.	--	
No of Compressor / unit	nos.	
Power supply	V / Ph / Hz	
Capacity Control Arrangement	%	
Method of Lubrication	--	
Grade of Lubrication Oil	--	
Starting & unloading arrangement	--	
Motor rpm	rpm	
Motor class of insulation	--	
Motor protection	--	
EVAPORATOR COIL:		
Make	--	
Type	--	
No of Coil / unit	--	
Rows deep	nos.	
Face area	m2	
Fins per Inch	nos.	
Tube Material / Size / Thick	-- / mm / mm	
Fin Material / Thick	-- / mm	
REFRIGERANT CONNECTIONS		
Gas Connection (OD)	mm	
Liquid Connection (OD)	mm	
EVAPORATOR FAN:		
Make	--	
Type of Fan	--	
Material Fan / Frame	--	
Type of Drive	--	
Fan diameter	mm	
No of Fan / unit	nos.	
Power supply	V / Ph / Hz	
Motor rpm	rpm	
Motor class of insulation	--	
Motor protection	--	
Type of Bearing	--	
Bearing Lubrication	--	
EXPANSION VALVE:		
Make	--	

*As*

Type	--	
FILTERS:		
Make	--	
Type	--	
Size	mm	
Qty.	nos.	
Filtration efficiency	% / micron size	
Pressure drop (clean condition)	mm wc	
Pressure drop (dirty condition)	mm wc	
HUMIDIFIER:		
Make	--	
Type	--	
Capacity	kg /hr	
Input power	kW	
Setting - Amps	Amp's	
Power supply	V / Ph / Hz	
ELECTRICAL HEATER:		
Make	--	
Capacity	kW	
Power supply	V / Ph / Hz	
DIMENSION AND WEIGHT:		
Width	mm	
Depth	mm	
Height	mm	
Footprint	mm <sup>2</sup>	
Weight (Air Cooled)	kg	
Weight (Water Cooled)	kg	
<b>Air cooled condenser</b>		
Number of circuit's	--	
CONDENSER COIL:		
Make	--	
Type	--	
Face area	m <sup>2</sup>	
Air Volume	m <sup>3</sup> / hr	
Rows deep	nos.	
Fins per Inch	nos.	

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Tube Material / Size / Thick	-- / mm / mm	
Fin Material / Size / Thick	-- / mm / mm	
CONDENSER FAN:		
Make	--	
Type of Fan	--	
Fan Material	--	
Type of Drive	--	
No of Fan / Condenser	nos.	
Impeller Diameter	mm	
Power supply	V / Ph / Hz	
Motor Rated KW	kW	
Full Load Amps (FLA)	amps.	
Motor rpm	rpm	
Motor class of insulation	--	
Motor protection	--	
DIMENSION AND WEIGHT:		
Casing Material	--	
Vertical Discharge		
Width	mm	
Depth	mm	
Height	mm	
Horizontal Discharge		
Width	mm	
Depth	mm	
Height	mm	
Weight	kg	

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**Bank Details**

**Bank Details for preparation of BG for EMD has been mentioned below: -**

Name of bank: CANARA Bank.  
Name of Branch: Salt Lake City Branch  
**A/C No. 2549261000122**  
IFSC code: CNRB0002549

