



National Centre for Radio Astrophysics **TATA INSTITUTE OF FUNDAMENTAL RESEARCH**

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WEB TENDER NO : NCRA:WF046:LTD:2020/ WT-002 dtd. 10.09.2020

- NCRA-TIFR**, Pune, India invites sealed bids in two part, Part– I: Techno-commercial Bid & Part – II: Price Bid for the following **valid for three years**.

| Description | Earnest Money Deposit (EMD) |
|--|--|
| Rate contract for repairs of 1.5TR, 2TR 230Volts AC single phase and 3TR, 4TR 3phase 415 Volts AC split Air-conditioners, Cassette AC's and 5TR 415Volts AC 3 phase split package AC circuits of Blue Star make Package AC units at GMRT Khodad, Tal. Junnar, Dist. Pune 410504. | Rs. 14,000/- in the Form of Demand Draft drawn in favour of "TIFR" payable at Pune. |
| Estimated Cost : ~ Rs. 7.14 Lakhs (including of GST) for the first one year. | Tender Fee : Rs. 500/- (Rupees Five Hundred by way of Demand Draft in favour of "TIFR" payable at Pune). |
| Type of Tender : Two Bid. | |
| EMD and Tender Fee must be submitted with Technical Bid without fail. (No Exemption even for MSME registered entities). | |

| | |
|------------------------------|---|
| Downloading of Tender | From : 10.09.2020, 09.30 hrs. To : 30.09.2020, upto 18.00 hrs. |
| Submission of Tender | From : 16.09.2020, 09.30 hrs. To : 01.10.2020, upto 18.00 hrs. |
| Opening of Bid | On : 05.10.2020 at 15.30 hrs. |

2. Eligibility Criteria :

Bidder must meet the eligibility criteria specified below and must submit documents in support of the same.

- Bidder if required may visit the **GMRT, Khodad to know the exact scope of work and to understand site conditions etc.** with prior intimation to Administrative Officer, GMRT Office, Khodad by complying all required formalities including Medical Certificate stating No Covid (Coronavirus) like symptoms from a Professional Medical Doctor (MBBS/MD) and he must be fully confident of carrying out the work tendered and bidder to submit certificate of visit as per **Annexure H** with their technical bid in such a case. Bidder who have already visited the site for this job may submit copy of the earlier site visit certificate.

- b. The vendor must submit their bid showing their charges for all the items mentioned in the Chapter 7 and rates must be quoted for all the three years, **otherwise the bid will not be considered.**
- c. Bid must be valid for a minimum period of **90 (Ninety days)** from the due date for submission of bid.
- d. Bidders should submit the list of works carried out by them, giving details of the clients for whom **repairs of ACs are executed**, the value of work order etc. They should submit us, along-with their bids, the copies of work orders for the past **three years.**
- e. Bidders must have valid **GST registration No.**
- f. Bidder must also submit an undertaking that the work have been carried out by themselves and have not been executed on back to back through other agencies.
- g. Successful bidder must be able to submit :-
 - (i) Performance Guarantee of 5% of Work Order value.
 - (ii) Workmen Compensation Insurance Policy for their workmen / supervisor who will be deployed for the works at our site.
 - (iii) Indemnity Bond.

3. General Information about Bidding.

- a. Bids from bidders who have not accepted our order awarded to them or who have withdrawn from the tender process OR whose EMD/Security deposit has been forfeited by us in the past one year, are not eligible to bid.
- b. Bidding document can be downloaded from our website
<http://www.ncra.tifr.res.in/ncra/ncra1/public-tenders-1> **and also on**
<http://eprocure.gov.in/epublish/app> by any interested bidder meeting the above eligibility criteria.
- c. Bidders after downloading the tender document are requested to please send an email to purchase@ncra.tifr.res.in giving their Full address, contact details.
- d. The bids Part I – Techno-commercial Bid together with all documents sought in eligibility & Part II – Price Bid in separate sealed envelopes duly superscribed with tender no. & due date must reach Purchase Officer, NCRA-TIFR, Pune University Campus, Ganeshkhind, Pune-411007, India. Technical bid will be opened in the presence of Bidders' representatives who choose to attend on the specified date and time alongwith authority letter from their company. In the event of the date specified for bid receipt and opening being declared as a closed holiday for NCRA's office, the due date for submission of bids and opening of bids will be the following working day at the same time.

- e. **RIGHT TO REJECT ANY OR ALL BIDS:** NCRA reserves the right to accept or reject any or all bids without assigning any reasons there for. NCRA also reserves right to reject bids during technical evaluation, based on past performance, experience or any other criteria.
- f. Technical Bids must be accompanied by **Demand Draft towards Earnest Money Deposit and Demand Draft towards the Tender Fee** specified above without fail.
- g. Price bids will be opened at a later date which will be intimated to only techno-commercially qualified bidders.
- h. NCRA is not responsible for delay or loss of bids in transit.
- i. **Bidders are also requested to visit our website <http://www.ncra.tifr.res.in/ncra/ncra1/public-tenders-1> regularly for addendum /updates if any pertaining to this tender.**
- j. **Both Technical Bid (Part I) and Financial Bid (Part II)** to be submitted duly signed and stamped on each page within the due date and time in separate envelopes and marked on top as Part I and Part II superscribed with the Tender No., due Date in Bold Letters.

Please see attached sheet for conditions of tender.

PURCHASE OFFICER



NATIONAL CENTRE FOR RADIO ASTROPHYSICS
Tata Institute of Fundamental Research
Pune

Web Tender No.

NCRA:WF046:LTD:2020/ WT-002

Rate contract for repairs of 1.5TR, 2TR 230Volts AC single phase and 3TR, 4TR 3phase 415 Volts AC split Air-conditioners, Cassette AC's and 5TR 415Volts AC 3 phase split package AC circuits of Blue Star make Package AC units at GMRT Khodad, Tal. Junnar, Dist. Pune 410504.

CHECK LIST TO BE ENCLOSED WITH TECHNO COMMERCIAL BID

(Part-I of Tender)

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| Sr. No. | Particulars | Provide Details | Enclosed |
|----------------|---|-----------------------------|-----------------|
| 1 | Whether EMD enclosed. | D.D.No..... Dtd..... Rs. | Yes / No |
| 2 | Demand Draft towards Tender Fee enclosed | D.D.No...Dtd..... Rs. | Yes / No |
| 3 | Copies of Partnership registration. | | Yes / No |
| 4 | Whether all the pages of techno commercial bid have been submitted duly signed and Stamped submitted. | | Yes / No |
| 5 | Company Profile as per Annexure A enclosed | | Yes / No |
| 6 | Eligibility Criteria Statement duly filled in by bidder Annexure-B | | Yes / No |
| 7 | Details of orders completed in the past 3 years together with copies of orders submitted as per Annexure C submitted | | Yes / No |
| 8 | Whether Schedule of deviation from General & Special Conditions is submitted duly signed and Stamped as per Annexure – D enclosed | | Yes / No |
| 9 | Format for furnishing Bank Details for refund of EMD/ making payment – Annexure-G | | Yes / No |
| 10 | Format of Certificate of Site Visit – Annexure-H | | Yes / No |
| 11 | Undertaking for having read and taken note of all the terms and conditions of the Tender as per Annexure I enclosed. | | Yes / No |
| 12 | Copy of power of attorney to sign the bid enclosed (Applicable for LLP / partnership company / PVT LTD / LTD Company) | | Yes / No |
| 13 | Document seeking any exemption / relaxation as per Govt. of India rules submitted | | Yes / No |
| 14 | Unpriced bid as per Chapter 5 enclosed. | | Yes / No |
| 15 | Price bid – Part II – Chapter 7 (Schedule of work with Qty. & rate of tender document) to be submitted in separate sealed envelope. | | Yes / No |

Date :

Place :

Signature of Bidder :

Name & Designation :

Company Name & Address :

Company Seal & Phone No. :

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CHAPTER 1

General Conditions of Contract (GCC)

1. **PRICE:** Rates / charges specified in the bid must be firm till the completion of the contract period.
2. **TENDER FEE :** All bids must be accompanied by DD towards tender fee as shown on Tender Notice (**non-refundable**) in the form of Demand Draft in favour of “TIFR” payable at Pune and must enclosed alongwith your Techno Commercial Bid.
3. **BID VALIDITY :** Bids must be valid for a minimum period of **90 days** from the due date Bids with shorter validity are liable for rejection.

4. **CLARIFICATION OF BIDDING DOCUMENTS**

A prospective Bidder requiring any clarification of the Bidding Documents shall contact purchaser in writing at purchaser's address specified in the Tender Notice. Purchaser shall forward copies of its response to all those who have acquired the Bidding Documents directly from it, including the query but without identifying its source. Purchaser if deemed necessary will amend the Bidding Documents as a result of a clarification, purchaser shall do so following the procedure under clause relating to Deadline for Submission of Bids will be revised if purchaser feels it necessary.

NCRA-TIFR reserve the right to ask for or to provide any clarification, changes after the release of this tender. **Any changes or clarifications provided by NCRA-TIFR may be checked at NCRA-TIFR website www.ncra.tifr.res.in**

5. **SUBMISSION OF BIDS :**

PART “I” (Technical Bid) consisting of Technical Bid with Commercial Terms and **PART “II” (Financial Bid) consisting of only Price** shall be submitted in **separate** sealed envelopes duly superscribed with the tender enquiry number, and the due date in bold letters, addressed to the Purchase Officer, National Centre for Radio Astrophysics / Tata Institute of Fundamental Research, Pune University Campus, Ganeshkhind, Pune 411007 . The envelopes should be clearly marked on top as either PART “I” or PART “II”.

The two sealed covers should be superscribed with the tender Enquiry No., Due Date in bold letters, addressed to the Purchase Officer, National Centre for Radio Astrophysics / Tata Institute of Fundamental Research, Pune University Campus, Ganeshkhind, Pune 411007 and to be delivered by hand/courier at the security Officer of NCRA-TIFR, Pune before due date specified. The technical bid will be opened in the presence of attending tenderers on the due date and time. Tenders submitted / received after due date and time will not be considered.

Bid should be submitted as per prescribed format of NCRA/TIFR. Bidders should quote in figures as well as in words the rates and amounts quoted by them. The amount for each item should be worked out and the total given. All corrections shall be attested by the dated initials of the bidder.

6. **In case the PART 'I' and Part 'II' bids are not sealed in separate envelopes the tender will be rejected.**

The technical bid should not contain any indication of the price. The bidder should take special care not to mention anything related to pricing and costing aspect of whatsoever nature. The technical bid should include/contain only technical specifications, technical literature, drawing, quantity, manufacturing and delivery schedule, mode and terms of payment, mode of despatch, the quantum and percentage of statutory levies payable by the purchaser as extra and all related commercial terms and conditions for the supply and for the services like erection and commissioning to be rendered by the tenderer. The details of the validity of the tender should also be indicated along with the commercial details.

After scrutiny of Technical Bids, Financial bids of only those bidders who are shortlisted on technical basis will be opened at on later date. The opening date, time and venue will be intimated to the technically successful bidder.

7. **PLACING OF ORDER :** Institute reserves the right to place the order for part/full/reduced quantity / reduced period than what is specified in the tender and also reserves the right to split the order on more than one bidder.

8 **ACCEPTANCE OF BID :** NCRA shall be under no obligation to accept the lowest or any other quotation received in response to this enquiry and shall be entitled to reject any or all quotations without assigning any reason whatsoever.

9. Bid must be signed only by competent authority specifying their name and designation.

Bids containing correction, overwriting will not be considered. Late or Delayed / Unsolicited quotations/offers shall not be considered at all. These will be returned to the firms as it is. Post tender revisions/corrections shall also not be considered.

Bidder should sign on all the pages of the technical bid and the price bid.

Bids not fulfilling above requirements are liable for rejection.

CHAPTER 2

Special Conditions of Contract (SCC)

1. **SCOPE OF WORK** : Refer **Chapter – 7 Price Bid**.
2. **CONTRACT PERIOD** : Contract period will be **one year from the date of issue of work order**. Contract can be extended further with mutual agreement for a period of two years, one year at a time if services provided is found satisfactory and there is no change in conditions of contract and the rates quoted in the tender.

3. **EMD: Rs. 14,000/-**

Should in the form of Demand Draft drawn in favour of “TIFR” payable at Pune.

EMD to be enclosed along with the Technical Bid (Part-I)

- 3.1 **REFUND OF EMD :**

- (a) EMD of bidders who do not qualify during Technical Evaluation will be released on completion of Technical Evaluation.
- (b) EMD of all technically qualified bidders (Except for L1) will be released after release of order on L1.
- (c) EMD of successful bidder will be released on receipt of Performance Guarantee.

- 3.2. **FORFEITURE OF EARNEST MONEY:**

- (a) If any bidder withdraws his tender before the expiry of the validity period, or before the issue of letter of acceptance, whichever is earlier, or makes any modification in the terms and conditions of the tender which are not acceptable to NCRA, then NCRA shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the Earnest Money absolutely. This provision would naturally apply only to the lowest bidder once the earnest money of all the bidder except lowest is refunded.
- (b) If contractor fails to furnish the prescribed performance guarantee within the prescribed period, the earnest money in full will be forfeited.
- (c) In case the contractor fails to commence the work specified in the tender documents on the **Fifteenth day** or such time period as mentioned in letter of award, after the date on which the Engineer issues written orders to commence the work, or from the date of handing over of the site, whichever is later. NCRA shall, without prejudice to any other right or remedy, be at liberty to forfeit whole of the earnest money absolutely.
- (d) If only a part of the work as shown in the tender is awarded, and the contractor does not commence the work, the amount of the earnest money to be forfeited will be worked out with reference to the estimated cost of the work so awarded.
- (e) In case of forfeiture of earnest money as prescribed in (a) to (d) above of any bidder, such bidder shall not be allowed to participate in the retendering process of the work.

4. **PERFORMANCE GUARANTEE**

Performance Bond is obtained as a back-up surety for fulfilment of obligation by the Contractor after satisfactory completion of the contract.

Form of Performance Bank Guarantee

Bank Guarantee as per prescribed format to be executed from any one of the nationalized banks or Scheduled bank on non-judicial stamp paper of appropriate value.

Quantum & Value of Performance Bank Guarantee

The bidder on whom order will be placed, shall deposit an amount equal to **5% (five percent)** of the value of the work including taxes as Performance Guarantee within 21 days of award of work, valid till completion of work plus Two months for proper fulfilment of the Contract. **This period can be further extended at the written request of the contractor for a maximum period ranging from 1 to 15 days with late fee @ 0.1% per day, of performance guarantee amount.**

In case Performance Guarantee is not submitted order will be cancelled and EMD will be forfeited.

Validity of Performance Bank Guarantee

Bank Guarantee should be valid till at least two months beyond the expiry date of warranty period.

Performance Guarantee Amount will not carry any interest.

5. **CRITERIA For Deciding The Successful Bidders :**

- a. Rates for all three years will be taken into consideration for arriving at L1.
- b. Appropriate loading will be done for deviation in payment terms.
- c. If the rates quoted by bidder are same for more than one bidder then the bidder getting higher technical capability as assessed by NCRA on various grounds will be the decision criteria.
- d. If this also results in same, then NCRA reserves right to split order suitably among the bidders.
- e. Decision of NCRA-TIFR Pune is final in this regard.

6. **METHOD OF PAYMENT:** The payment will be made on monthly basis. You shall submit your bill on 1st of every month for services provided in the previous month duly certified by our Engineer, which will be paid within 7 working days.

7. **Indemnity Bond:** *Successful bidder after receipt of order* should also indemnify us on a non-judicial Stamp Paper of Rs. 500/- that in the event of happenings of anything of such nature, it would neither affect the work nor us in any way in respect of all Actions, Acts, Suits, Claims and Demands brought or made against NCRA by your workmen or any other person or persons whomsoever in connection with the works or in respect of any matter or thing done or committed to be done by you in the execution of or in connection with the works notwithstanding that all reasonable and proper precautions may have been taken by you against any loss or damage to the Owner in consequence of any action or suit being brought against NCRA for anything done or committed to be done in connection with the execution of the work. The indemnity given by you as aforesaid shall extend to making good all claims and demands arising out of losses/damages to property of every description and kind, the infringement of any legal right as well as injury or accident to any person resulting in death or otherwise.

The indemnity given by you shall extend to making good all claims and demands arising out of losses/damages to property of every description and kind, the infringement of any legal right as well as injury or accident to any person resulting in death or otherwise.

- 8 **SAFETY & SECURITY:** The Contractor shall be fully responsible for the safety and security of his workmen and staff and will ensure to maintain necessary records for payment and other details as per the prevailing Procedures and Acts. The Contractor shall be fully responsible for any personal injury, accident, death of your personnel and shall take proper precautions against any such loss or damages by taking Workmen Compensation Insurance Policy (WCIP) valid for the full contract period for all the persons you deploy for this work. **(If order is placed on you, the charges towards WCIP to be borne by contractor).**

Workmen Compensation policy must be taken keeping in consideration of following:

- i Nos. of Labourers and Supervisor deployed for the work.
- ii Place of work : GMRT Khodad Campus /NCRA, Village Khodad, near Narayangaon, Tal. Junnar, Dist. Pune.

Copy of Insurance Policy to be submitted directly to our Engineer, Accounts Section, Administrative Officer and Purchase Section, NCRA. The Contractor should also promptly report in writing to us all cases of accidents and damages. However, irrespective of the cause and place of occurring, during the execution of the work, the Contractor should make adequate arrangements to render all possible aid to the victims of such accidents and damages.

- 9 **GST:** Extra at actuals. Bidder to provide your GST registration number. Also, please note that NCRA-TIFR, Pune does not have any GST registration number being a non-commercial Govt. research and educational institute.
2% GST TDS will be deducted, if applicable.

10. **INCOME TAX :** For works contracts, as per the instruction of the Ministry of Finance, the Institute shall have right to recover the Income Tax at applicable rates and the amount so deducted will be credited to Income Tax authority. Please provide your Permanent Account Number (PAN) on your invoices.
11. **TERMINATION FOR INSOLVENCY**
Centre may at any time terminate the Contract by giving written notice to the contractor, if the contractor becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the contractor, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to purchaser.
12. **TERMINATION FOR CONVENIENCE**
Purchaser, by written notice sent to the contractor, may terminate the Contract, in whole or in part, at any time. The notice of termination shall specify that termination is for the purchaser's convenience, the extent to which performance of the contractor under the Contract is terminated, and the date upon which such termination becomes effective.

The Job that are complete and ready for completion within 30 days after the contractor's receipt of notice of termination shall be accepted by purchaser at the Contract terms and prices. For the remaining Goods/services, purchaser may elect:
(a) To have any portion completed and delivered at the Contract terms and prices;
and/or
(b) To cancel the remainder and pay to the contractor an agreed amount for partially completed Jobs and for materials and parts previously procured by the contractor.
13. **TERMINATION OF CONTRACT:** If the contractor who has been awarded the work has abandoned the works without any serious reason or deliberately delayed the work or is not carrying out the works under the terms and conditions of this contract, the Engineer reserves the right to terminate the contract at any time by giving written notice to you and you shall not be eligible for any compensation for the same.

In such a case, the Institute shall take over the charge of the works and other materials lying on the works site. The work shall be carried out by employing other persons at your risk and cost. Any difference in the cost which may become payable in all such cases will be deducted by the Institute from your security deposit or other dues.
14. **PROVISION OF CANCELLATION OF ORDER:** The Institute reserves the right to cancel the contract at any time by giving 30 days written notice. Similarly, if the Contractor wishes to withdraw his services he may do so by giving 30 days' notice in writing. Extension of the contract if required may be considered with mutual agreement depending on the need of the Institute and based on the past performance of the contractor.

15. **DEPLOYMENT OF LABOUR & MACHINERY:** You shall not employ any person who is below the age of 18 years. You shall furnish sufficient equipment's and labour as may be necessary to complete the work within the time limit shown in the contract.
16. **STORAGE OF YOUR TOOLS AND MATERIALS:** You shall make your own arrangements for storing materials during execution of the contract.
17. **PROTECTION OF PROPERTY:** You shall be responsible for making good the damages to the existing property if occurred during the execution of work. All such cases should be brought to the notice of the Engineer by you and also to the concerned department and all damages whatsoever done to be made good by you at your own cost.
18. **SAFETY & SECURITY:** The Contractor shall be fully responsible for the safety and security of his workmen and staff and will ensure to maintain necessary records for payment and other details as per the prevailing Procedures and Acts. You will be fully responsible for any personal injury, accident, death of your personnel and shall take proper precautions against any such loss or damages. You will provide adequate and necessary safety equipment's for all your workmen.
19. **OBSERVANCE OF LOCAL LAWS:** Wherever applicable (particularly for Local vendors), the vendor / contractor shall comply with all law, statutory rules & regulations etc. The vendor/ contractor shall obtain all necessary permits / approval from the local Governing Body, Police, and other concerned Authorities as may be required under law. The vendor /contractor shall pay all types of taxes, fees, license charges, deposits, duties, tolls, royalty or other charges that may be leviable on account of any the operations connected with the execution of this work/ contract
20. **ARBITRATION :**
 - 20.1 Purchaser and the contractor shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.
 - 20.2 If, after twenty-one (21) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either purchaser or the contractor may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under the Contract.
 - 20.3 The dispute settlement mechanism/arbitration proceedings shall be concluded as under:
 - (a) In case of Dispute or difference arising between purchaser and contractor relating to any matter arising out of or connected with this agreement, such disputes or

difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to the sole arbitrator mutually acceptable to contractor and owner. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to this order. Charges of the arbitrator will have to be shared equally by the Contractor and the Purchaser.

- 20.4 The venue of the arbitration shall be the place from where the purchase / work order or contract is issued.
21. In case of any interpretational issues arises in this tender, the interpretation / decision of NCRA-TIFR shall be final and binding on the bidder.
- 22 The competent authority on behalf of T.I.F.R. does not bind himself to accept the lowest or any other tender and reserves to himself the authority to reject any or all the tenders received without assignment of a reason. All tenders in which any of the prescribed conditions are not fulfilled or any condition including that of conditional rebate is put forth by the tenderer, shall be summarily rejected.
- 23 Canvassing in connection with this work order is strictly prohibited and the bids submitted by the vendors who resort to canvassing will be liable to rejection.
- 24 On acceptance of the tender, the name of the authorised representative(s) of the vendor, who would be responsible for taking instructions from the Engineer concerned, shall be communicated.
- 25 The contractor shall give complete cooperation for the execution of the works by the other agencies/contractors or the representatives deputed by the Institute, if required to be carried out simultaneously by other agencies while his own work is in progress. The coordination will be effected in consultation with the Engineer of the work.

26 LIEN IN RESPECT OF CLAIMS IN OTHER CONTRACT

- 26.1 Any sum of money due and payable to the Contractor (including the Security deposit / Performance Guarantee returnable to him) under contract may be withheld or retained by way of lien by the Centre against any claim of the Centre or such other person or persons in respect of payment of a sum of money arising out of or under any other contract made by the contractor with the Centre.
- 26.2 It is an agreed term of the contract that the sum of money so withheld or retained under this clause by the Centre will be kept withheld or retained as such by Centre till this claim arising out of in the same contract or any other contract is either mutually settled or determined by the arbitrator, and that the contractor shall have no claim for interest or damages whatsoever on this account or on any other ground in respect of any sum of money with-held or retained under this clause and duly notified as such to the contractor.

27 **WITH-HOLDING AND LIEN IN RESPECT OF SUMS CLAIMED**

- 27.1 Whenever any claim or claims for payment of a sum of money arises out of or under the contract against the contractor, Centre shall be entitled to withhold and have a lien to retain to the extent of the such claimed amount, from any sum or sums found payable or which at any time thereafter may become payable to the contractor under the same contract or any other contract with the Centre.
- 27.2 It is an agreed term of the contract that the sum of money or money so withheld or retained under the lien referred to above by the Centre will be kept withheld or retained as such by the Centre till the claim arising out of or under the contract is determined by the Arbitrator and that the contractor will have no claim for interest or damage whatsoever on any contract in respect of such with-holding or retention under the lien referred to and duly notified as such to the contractor.
- 28 The contractor shall give complete cooperation for the execution of the works by the other agencies/contractors or the representatives deputed by the Institute, if required to be carried out simultaneously by other agencies while his own work is in progress. The coordination will be effected in consultation with the Engineer of the work.
- 29 **SETTLEMENT OF DISPUTE:** For any dispute arising out of the contract, it should be the intention of both the parties to settle the matter amicably without referring it to the Court of Law.

For any dispute, the matter will be referred to the Centre Director NCRA whose decision will be final and binding on both the parties.

30. **Instructions given by our Site Engineer should be strictly followed.**
31. Contact person for understanding the Scope of Work and for seeing the Antenna Site:

Shri B.S. Patil / Shri R.V. Swami
GMRT, Khodad, Tal. Junnar,
Dist. Pune 410504
Tel. 02132-258400 /300.
Email. balaso@gmrt.ncra.tifr.res.in, rvs@gmrt.ncra.tifr.res.in

CHAPTER 3

Scope of Work

1.1 Repair of the AC's indoor and outdoor units after the parts are replaced and machine are repaired and put into operation shall in general include the following..

- A) Lubricating the room unit and condenser fan motor and other mechanical parts such as motor mounting bushes, motor/shaft alignment, fan blades/keys etc. while repairing / replacing the fan blades / blowers as required.
- B) Checking of the electrical connections of the repair related components and ensuring the functional working of electrical Components like compressor, condenser motor, indoor unit motor, PCB etc.
- C) Cleaning of filters while replacement /repairs of the indoor unit motor/room unit work.
- D) Checking grill temperature, compressor and motor current and other essential parameters recording and

1.2 Reporting/showing them to the Institutes representative or the Engineer concerned.

- 1.
 - E) Repairing / rewinding of the failed motors: While repairing the motors the contractor should remove complete burnt windings without damaging the laminations and core insulation, clean the entire surface, slots etc. and rewind motor using super enamel copper wire conforming to IS-4800 (or as per the latest edition) and suitable class of insulation. In no case the class of insulation material used shall be of lower than class 'E' as per IS 1271 (latest edition) or used in the motor, subsequently varnish the same with the two coats of reputed make varnish (preferably Dr Beck & Co make ELMO 20S).
 - G) Repairing for the gas leakage: Includes detecting the refrigerant gas leakage point/points in the system, repairing including necessary brazing at the refrigerant circuit / condenser coil / room unit coil or wherever it is noticed with proper vacuuming and pressure testing after rectifying the leak and filling the refrigerant gas to achieve the required temperature and checking the refrigerant gas leakages, gas pressure in the AC machines /system.
 - H) A standard operating procedure, as followed in the industries as a standard practice, shall be followed to attend the above problems.

1.3) Replacement of compressors: The hermetically sealed compressor shall be replaced with OEM (Original Equipment Manufacturer) repaired/ new (as the case may be) compressor during the break down. If OEM repaired compressors are not available due to any reason, the contractor has to replace the same with a new compressor of suitable model or as per the instruction of Concerned Engineer or his representative without any additional charge.

The repaired/new compressor should be shown to the departmental representative along with relevant documents before actually fixing it on the machine.

General Conditions :-

2.1) The contractor shall depute adequate technical staff, during the execution of this work, such as supervisors, electrician, air-conditioning mechanics etc. having adequate experience. These staff should be available at site whenever required by the Engineer In-charge or his authorized representative to take instructions and shall be available during and if required after office hours during the period of execution of this contract.

- 2.2) The contractor shall depute during the execution of the work under the contract period only such persons who are careful, skilled and experienced in their respective trades / fields and the Engineer In-charge shall be at liberty to object to and can ask the contractor to remove from the work any persons employed by the contractor during the execution of works who in the opinion of the Engineer In - charge misconducts or is incompetent, or negligent in the proper performance of his duties.
- 2.3) The contractor shall give complete cooperation during the execution of the AC repair works to the other agencies/contractors or the representatives deputed by the Institute, if required to be carried out simultaneously by other agencies while his own work is in progress. The coordination will be effected in consultation with the Engineer In-charge of the work.
- 2.4) NCRA/TIFR/GMRT reserves the right of including or excluding any number of A.C. units into/ from the contract at any time.
- 2.5) On acceptance of the tender, the name of the authorised representative(s) of the vendor, who would be responsible for taking instructions from the Engineer concerned, shall be communicated to the Concerned Engineer.

Chapter - 4

Standard forms (To be enclosed by bidders with Part – I, Techno-commercial bid)

| Table of Contents | |
|-------------------|--|
| Sl. No. | Contents |
| 1 | Company Profile - Annexure – ‘A’ |
| 2 | Eligibility Criteria – Annexure – ‘B’ |
| 3 | Schedule of Experience showing works completed as per Annexure C |
| 4 | Schedule of Deviation from General Conditions - Annexure – ‘D’ |
| 5 | Format of Performance Bank Guarantee*-Annexure – ‘E’ |
| 6 | Format of Indemnity Bond* – Annexure – ‘F’ |
| 7 | Format of Bank details for refund of EMD / making payment – Annexure ‘G’ |
| 8 | Format of Site Visit Report - Annexure ‘H’ |
| 9 | Format of Undertaking – Annexure ‘I’ |

**** To be used by vendor on whom order will be placed.***

Annexure – A
COMPANY PROFILE

Page 1 of 1

(To be filled in by the Bidder)

| Sl.No. | Question | Response |
|--------|---|----------|
| 1.1 | Company Name | |
| 1.2 | Type of firm Proprietary / Partnership / Pvt. Ltd. / Ltd. / Single Person Company / LLP | |
| 1.3 | Date of Incorporation / Registration. | |
| 1.4 | Company Head Office address | |
| | * Contact person(s) Name | |
| | * Phone Number | |
| | * Fax Number | |
| | * E-mail Address | |
| 1.5 | Address of office at Pune . | |
| | * Contact person(s) Name | |
| | * Phone Number | |
| | * Fax Number | |
| | * E-mail Address | |
| 1.6 | State pending or past litigation if any within the last 3 years with details and explain reasons. Please also mention any claims/complaints received in the last three years. | |
| 1.7 | Details of service personnel with contact No. | |
| 1.8 | Date of Establishment of firm | |

Signature of the Bidder

Name & Designation

Company Seal

Date:

ANNEXURE B

Page 1 of 1

ELIGIBILITY CRITERIA

| Sr. No. | Description | Details to be furnished by the contractor, enclosing relevant documents in the technical bid. |
|---------|--|---|
| 1 | Bidder if required may visit the GMRT, Khodad to know the exact scope of work and to understand site conditions etc. with prior intimation to Administrative Officer, GMRT Office, Khodad by complying all required formalities including Medical Certificate stating No Covid (Coronavirus) like symptoms from a Professional Medical Doctor (MBBS/MD) and he must be fully confident of carrying out the work tendered and bidder to submit certificate of visit as per Annexure H with their technical bid in such a case. Bidder who have already visited the site for this job may submit copy of the earlier site visit certificate. | |
| 2 | The vendor must submit their bid showing their charges for all the items mentioned in the Chapter 7 and rates must be quoted for all the three years, otherwise the bid will not be considered. | |
| 3 | Bid must be valid for a minimum period of 90 (Ninety days) from the due date for submission of bid. | |
| 4 | Bidders should submit the list of works carried out by them, giving details of the clients for whom repairs of ACs are executed , the value of work order etc. They should submit us, along-with their bids, the copies of work orders for the past three years. | |
| 5 | Bidders must have valid GST registration No. | |
| 6 | Bidder must also submit an undertaking that the work have been carried out by themselves and have not been executed on back to back through other agencies. | |
| 7 | Successful bidder must be able to submit :- i. Performance Guarantee of 5% of Work Order value. ii. Workmen Compensation Insurance Policy for their workmen / supervisor who will be deployed for the works at our site. iii. Indemnity Bond. | |

NOTE: Bidder is required to submit documents in support of each of the above failing which their bid is liable to be rejected.

Signature of the Bidder :
Name & Designation :
Company Seal :
Date :

SCHEDULE OF EXPERIENCE SHOWING WORKS COMPLETED

| Customers (full Address) | Order No. and date | Work and location | Value of order (Rs.) | Date for completi on of work as per contract | Date of actual complet ion of work | Remarks indicating reasons for late completi on of work | Has the work been completed Satisfactory? (Attach a copy of order and completion certificates from the Centre) | Contact person Along with Telephone No., FAX No. and email address |
|--------------------------------|-----------------------------|----------------------|-------------------------------|---|--|--|---|---|
| | | | | | | | | |

Signature of the Bidder

Name & Designation

Company Seal

Date:

SCHEDULE OF DEVIATION FROM GENERAL CONDITIONS

1) The following are the particulars of deviations from the requirements of the tender specifications:

| CLAUSE | DEVIATION | REMARKS (INCLUDING JUSTIFICATION) |
|--------|-----------|--------------------------------------|
| | | |
| | | |
| | | |
| | | |
| | | |

Place:

Date:

Signature and seal of the

Manufacturer/Bidder

NOTE:

[

1) Where there is no deviation, the statement should be returned duly signed with an endorsement indicating “No Deviations”.

FORMAT OF BANK GUARANTEE FOR PERFORMANCE

(On Non Judicial Stamp Paper of Appropriate Value)

(To be obtained from any Scheduled Bank by vendor on whom purchase order will be released)

To,
Centre Director
NCRA, Pune

WHEREAS

..... (Name and address of the supplier) (hereinafter called "the supplier") has undertaken, in pursuance of contract no. datedto supply (description of goods and services) (herein after called "the contract").

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of (amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your need to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until the day of, 20.....
.....

(Signature of the authorized officer of the Bank)

Name : With Code :

Designation : Email address :

ANNEXURE – F

Page 1 of 1

Format of Indemnity Bond
(to be executed on **Rs. 500/-** Non-Judicial Stamp Paper by the successful bidder before
commencement of work at site, **if order is placed**)

Work Order No. _____ Dt. _____

In consideration of National Centre for Radio Astrophysics, Tata Institute of Fundamental Research (NCRA/TIFR) having office at Pune University Campus, Ganeshkhind, Pune 411 007, hereinafter referred to as “The Institute”, which expression shall unless it be repugnant to the context or meaning thereof, include its successors and assignors having awarded to M/s. _____ having registered office at _____, a firm carrying in such name and style the business of _____ (hereinafter referred to as “The Contractor” which expression shall unless it be repugnant to the context or meaning; thereof, include its partner(s) / proprietor(s) for the time being or its surviving partner(s) or its heirs and executors, administrators and assignees, its successors and assignors) the contract for _____ and in compliance with the terms and conditions of the said contract.

We M/s. _____ being the contractor shall save harmless and indemnify the Institute in respect of:

- a. Any expenses arising from any injury or accident or death of workers hired for this work or damage to property of any third party.
- b. Any claim made under any Act of Government or otherwise in respect of injury or damage as aforesaid.
- c. Any award of compensation or damages upon any claim as above.
- d. Any claim against the Institute by any member of the public or other third party in respect of anything, which may arise in respect of the works or in consequence thereof.
- e. Any claim which may be made upon the Institute whether under the Workman's Compensation Act or any other statute in force during the currency of this contract or of common law in respect of any worker of the contractor/or their family member(s) or of his sub-contractor(s).
- f. Any costs, charges or expenses arising out of any claim or proceeding and in respect of any award of compensation of damages arising therefrom.

We also hereby confirm that we have taken Workman's Compensation Policy No. _____ dtd. _____ valid till _____ for _____ persons deployed for work awarded to us against the above-cited order form M/s. _____.

For and on behalf of M/s. _____

Date:

S E A L

Accepted By

for and behalf of NCRA (TIFR) Pune

BANK DETAILS FOR REFUND OF EMD / MAKING PAYMENT

(Information to be submitted on Vendors Company Letter head)

To,
The Accounts Officer,
 NCRA-TIFR ,Pune University Campus,
 Post Bag No-3, Ganeshkhind,
 Pune-411007

Sub:- Bank Details for payment through Electronic Mode i.e. NEFT/RTGS

Sir,

It is requested that settlement of all our bill/s from now onwards may please be made through Electronic Mode (NEFT/RTGS). The details of My/our bank account are as under :-

1. Beneficiary Name
2. Full Address
3. IFSC Code

| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
4. Bank Account No.

| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

 (Full Account Number to be furnished for making payment to be made through Electronic Mode)
5. Type of Account viz Saving A/C / Current A/C / Cash Credit A/C / Overdraft
6. MICR No.

| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

Note: 1st three digit & last of 3 digit of MICR No. Should not be zero.

7. Name of the Bank:

8. Full Address of the Bank:

I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for any reasons, We will not hold NCRA TIFR Pune responsible and agree to discharge the responsibility expected of us as a participant under the scheme.

Yours Faithfully
 ()

Signature of authorized Officer of the company

Name
 Designation
 Company's seal
 Date

CERTIFICATE OF VISIT TO THE SITE

To,
Centre Director,
NCRA-TIFR,
Pune 411007, India.

Dear Sir,

Sub : Web Tender No. : **NCRA:WF046:LTD:2020/ WT-002 dtd. 10.09.2020** for
Rate contract for repairs of 1.5TR, 2TR 230Volts AC single phase and 3TR, 4TR
3phase 415 Volts AC split Air-conditioners, Cassette AC's and 5TR 415Volts AC 3
phase split package AC circuits of Blue Star make Package AC units at GMRT
Khodad, Tal. Junnar, Dist. Pune 410504, as per the tender document.

With reference to your tender mentioned above, we have studied the tender document and
drawings in details and visited the site of :-

**Giant Metrewave Radio Telescope (GMRT) Office,
National Centre for Radio Astrophysics (NCRA),
Tata Institute of Fundamental Research (TIFR),
At. Post. Khodad, Tal. Junnar,
Dist. Pune 410504.**

and have understood the Scope of work and conditions of the site where the work to be
carried out.

Name & Signature of Bidder :

Name & Signature of GMRT Representative:

Designation :

Date :

Company Seal & Phone No .:

Date :

ANNEXURE-I

Page 1 of 1

UNDERTAKING

1. We have studied the complete tender document and accept all the terms and conditions except those specified in **Annexure D**.
2. It is certified that my firm/agency/company has never been black listed by any of the Departments / Autonomous Institutions / Universities / Public Sector Undertakings of the Government of India or Government of Maharashtra or any other State Government or Public Sector Banks or Local Bodies / Municipalities and no criminal case is pending against the said firm / agency as on **date of bidding**.
3. Orders have been executed by us directly and not assigned to any third party on back to back basis.

Date :

Signature of the Bidder :

Place :

Name of the Bidder :

Company Seal :

Designation :

Phone/Fax No. :

E-mail address :

Chapter 5

Page 1 of 7

Un-priced bid

(To be enclosed alongwith the Technical Bid – Part I)

| Sr. No. | Description | Estimated qty of failure/ replacement/ year |
|---------|---|--|
| 1 | 1a) Removal, repairs and reinstallation of 1 phase, 220-240V AC, 60W, 0.425A indoor unit/ blower fan motor of 1.5Ton/2Ton Hi-wall split AC. | 1 |
| | 1b) Removal, repairs and reinstallation of 1phase, 230V AC, 93W, 0.8A outdoor unit / condenser fan motor of 1.5Ton/2Ton Hi-wall split AC. | 1 |
| 2 | 2a) Replacement of indoor unit /blower motor of 1.5Ton/2Ton Hi-wall split AC | 1 |
| | 2b) Replacement of fan blade of indoor motor /unit of 1.5Ton/2Ton Hi-wall split AC | 1 |
| | 2c) Replacement of condenser fan motor of 1.5Ton/2Ton Hi-wall split AC. | 1 |
| 3 | 3a) Removal, repairs and reinstallation of indoor unit blower fan motor of 3Ton/4Ton slim line/4Ton Cassette split AC. | 1 |
| | 3b) Replacement of indoor fan motor of 3Ton/4Ton slim line/4Ton Cassette split AC. | 1 |
| | 3c) Replacement of blower/ fan blade of indoor unit of 3Ton/4Ton slim line/4Ton Cassette split AC. | 1 |

Date : Signature of Bidder :
Name & Designation :

Place : Company Name & Address :
Company Seal & Phone No. :

Chapter 5

Page 2 of 7

| Sr. No. | Description | Estimated qty of failure/ replacement/ year |
|---------|---|--|
| | 3d) Removal, repairs and reinstallation of condenser fan motor of 3Ton/4Ton slim line/4Ton Cassette split AC. | 1 |
| | 3e) Replacement of condenser fan motor of 3Ton/4Ton slim line/4Ton Cassette split AC. | 1 |
| | 3f) Repairs and reinstallation of condenser fan motor (3phase, 0.75hp, 415V, star connected) of 5 Ton Blue Star make Package AC unit. | 1 |
| | 3g) Replacement of condenser fan motor (3phase, 0.75hp, 415V, star connected, 910RPM, frame 80, IP55) of 5 Ton Blue Star make Package AC unit. | 1 |
| 4 | Replacement of condenser fan blade | |
| | 4a) Replacement of condenser fan blade of 1.5Ton/2Ton Hi-wall split AC. | 2 |
| | 4b) Replacement of condenser fan blade of 3/4 Ton Voltas make Slim line Split AC | 1 |
| | 4c) Replacement of condenser fan blade of 4 Ton Blue Star make Cassette AC | 1 |
| | 4d) Replacement of condenser fan blade of 5 Ton Blue Star make Package AC | 1 |
| 5 | Detection and rectification / repairs of gas leakage by brazing, pressure testing, vacuuming and refrigerant full gas charging as required in the following type of split AC's. | |
| | 5a) For 1.5 TR/2TR Voltas/Blue Star single phase split AC | 3 |

| | | |
|---------|----------------------------|--|
| Date : | Signature of Bidder : | |
| | Name & Designation : | |
| Place : | Company Name & Address : | |
| | Company Seal & Phone No. : | |

Chapter 5

Page 3 of 7

| Sr. No. | Description | Estimated qty of failure/ replacement/ year |
|---------|---|--|
| | 5b) For 3 Ton 3 phase Voltas slim line/tower type Split AC | 1 |
| | 5c) For 4 Ton 3 phase Voltas slim line/tower Split AC | 1 |
| | 5d) For 4 Ton Blue Star make Cassette AC | 1 |
| | 5e) For 5 Ton Blue Star make Package AC Circuit. | 2 |
| 6 | Refrigerant Gas Top up in following AC's | |
| | 6a) For 1.5 TR/2TR Voltas/Blue Star single phase split AC | 2 |
| | 6b) For 3 Ton 3 phase Voltas slim line/tower Split AC | 1 |
| | 6c) For 4 Ton 3 phase Voltas slim line/tower Split AC | 1 |
| | 6d) For 4 Ton Blue Star make Cassette AC | 1 |
| | 6e) For 5 Ton Blue Star make Package AC Circuit | 1 |
| 7 | Repair of PCB of Evaporator unit | |
| | 7a) Repairs of PCB of Voltas/Blue Star/LG make 1.5/2 Ton Hi-wall split AC | 2 |
| | 7b) Repairs of PCB of Voltas make 3TR slim line/tower Split AC | 1 |
| | 7c) Repairs of PCB of Voltas make 4TR slim line/tower Split AC | 1 |
| | 7d) Repairs of PCB of Blue Star make 4 Ton cassette AC | 1 |

| | | |
|---------|--------------------------|---|
| Date : | Signature of Bidder | : |
| | Name & Designation | : |
| Place : | Company Name & Address | : |
| | Company Seal & Phone No. | : |

Chapter 5

Page 4 of 7

| Sr. No. | Description | Estimated qty of failure/ replacement/ year |
|---------|--|--|
| 8 | Replacement of PCB of Evaporator unit | |
| | 8a) Replacement of PCB of Voltas/Blue Star/LG make 1.5/2 Ton Hi-wall split AC | 1 |
| | 8b) Replacement of PCB of Voltas make 3TR slim line/tower Split AC | 1 |
| | 8c) Replacement of PCB of Voltas make 4TR slim line/tower Split AC | 1 |
| | 8d) Replacement of PCB of Blue Star make 4 Ton cassette AC | 1 |
| 9 | Replacement of faulty Compressor with new: This includes removal of faulty compressor and supplying and installing the new compressor, brazing the refrigerant lines, gas leakage testing, vacuuming /N ₂ testing as required and Ref gas charging in the AC system to achieve the desired grill temperature. | |
| | 9a) For 1.5 TR/2TR Voltas/Blue Star single phase Hi wall split AC | 2 |
| | 9b) For 3 Ton 3 phase,415V AC Voltas slim line/tower Split AC (SSL shed, Recreation hall) Compressor: Sanyo: model :C-SB-373 H8A/ Model: C-SB373H8A (Code- 80985088) | 1 |
| | 9c) For 3 Ton 3 phase,415V AC Voltas slim line/tower Split AC (library) Compressor model:CR42K6 TF6-101 | 1 |

| | | |
|---------|----------------------------|--|
| Date : | Signature of Bidder : | |
| | Name & Designation : | |
| Place : | Company Name & Address : | |
| | Company Seal & Phone No. : | |

Chapter 5

Page 5 of 7

| Sr. No. | Description | Estimated qty of failure/ replacement/ year |
|---------|---|---|
| | 9d) For 4 Ton 3 phase, 415V AC Voltas slim line/tower Split AC (NGN colony) Compressor: Copeland scroll model: ZR61KC-TFD-522 | 1 |
| | 9e) For 4 Ton 3 phase, 415V AC Blue Star make three phase Cassette AC (FPGA, Jog Shed) . Compressor make: Copeland scroll, Model: ZR61KS-TFD-522 | 2 |
| | 9f) For 5 Ton 3 phase, 415V AC Blue Star make Package AC Circuit. Compressor make- Copeland, Model: CRN5-0500-TFD-522 | 2 |
| 10 | Supply and installation of blower fan V-belts (of A747Lp/A28 size) for 15TR Blue Star make package AC units. (Note: Each 15TR Package ac AHU has two belts (one pair). Rates may be quoted per pair basis. Estimated belt pairs to be replaced/year are - 12 Nos) | 12 pairs |
| 11 | Replacement of bearings for blower motor of 15TR Blue Star make package AC indoor unit. Motor details: 3phase, 3HP/2.2KW, RPM:1425, Duty: S1, 4.8Amps, Frame:100L, Insulation: Class F, Motor make: Hindustan Electric. Each motor requires a set of 2 bearings. Rates may be quoted per set for replacing two bearings per motor. | 01 set of 2 bearings |

| | | |
|---------|----------------------------|--|
| Date : | Signature of Bidder : | |
| | Name & Designation : | |
| Place : | Company Name & Address : | |
| | Company Seal & Phone No. : | |

Chapter 5

Page 6 of 7

| Sr. No. | Description | Estimated qty of failure/ replacement/ year |
|---------|---|--|
| 12 | Supply and installation of bearing for blower of 15TR package AC AHU. Each blower/package AC units has 02 bearings. Rates may be quoted for replacing the set of 02 bearings. | 01 set of 2 bearings |
| 13 | Replacement of strainer (including removal of old strainer, supply and installation of new strainer, brazing, gas leakage testing etc a complete job) for 5TR split AC circuit of 15TR Blue Star make package AC unit. Rates may be quoted per strainer replacement job (Refrigerant gas charging after strainer replacement activity if required shall be considered separately. Here rates may be quoted for strainer replacement only). | 1 job |
| 14 | Supply of air filters for Blue Star 15 TR AHU of Model: DPA1803 | 09 Nos |
| 15 | Removal, full rewinding and reinstallation of 3 phase 415 volts, 0.75HP, 0.55KW induction type fan motor of package AC condensers. | 01 No |

Note 1: Replacement of an item includes removal of old/faulty unit and proper installation, testing and putting it in smooth operation of the new units like compressors (including removal of old, installation of new with brazing, vacuuming, leak testing and gas charging), motors, fan blades, alignment of blades/motors, blowers of indoor units, PCB's etc.

Date : Signature of Bidder :

Name & Designation :

Place : Company Name & Address :

Company Seal & Phone No. :

Chapter 5

Page 7 of 7

| | |
|---|-----------------|
| YOUR GST REGISTRATION NO. | |
| GST % | |
| Your PAN No. | |
| Whether rates for all items and for all three years submitted in price bid. | Yes / No |

Date :

Signature of Bidder :

Name & Designation :

Place :

Company Name & Address :

Company Seal & Phone No. :

Chapter 6

Location of AC units

Following AC units (are not covered under any AMC but) will have to be repaired and attended to whenever /if failed OR if required by us through the contractor under rate contract on chargeable basis as mentioned below location wise **during one year period from the date of Work order**. This WO may be extended further for two years on mutual agreement if the services provided and the work done by the contractor is satisfactory.

Location of AC units –

| Sr No | AC Machine details | Location & Qty | Location & Qty | Total Qty |
|-------|---|---|--|-----------|
| 1 | 1.5 TR Voltas/Blue Star make, working on 230volts AC, 1Ø ,50Hz supply- Hi wall split AC's (Voltas 09nos + Blue star 8 nos) | GMRT Lab building at Khodad Qty:15 Nos | PC room Narayangaon Housing Colony 02 Nos | 17 |
| 2 | 2TR Voltas/ Blue Star make AC's, working on 230volts AC, 1Ø ,50Hz supply, Hi wall split AC's. (Voltas 31nos + Blue star 3nos) | GMRT Lab Building – 34 Nos | Nil | 34 Nos |
| 3 | 2TR Carrier make split type AC units working on 1Phase, 230Volts AC supply, Hi-Wall split AC's (CD office-1, OFC-2, Servo – 02No). | GMRT lab building: 05 Nos | Nil | 05 Nos |
| 4 | 3 TR Voltas make slim line split AC's, working on 3 Ø 415V AC supply | GMRT Lab Building- 02 Nos, SSL shed-01 | Recreation Hall at GMRT Khodad- 03 Nos | 06 Nos |
| 5 | 4 TR Voltas make slim line split AC's, working on 3 Ø 415V AC supply | Narayangaon Colony utility Building- 02 Nos | Nil | 02 Nos |
| 6 | 4 TR Blue Star make Cassette split AC's, working on 3 Ø 415V AC supply | Lab building- 01 | Jog shed servo lab- 02 | 03 Nos |
| 7 | 5TR, Blue Star make split AC's, circuits of/in 15TR package AC working on 3 Ø 415V AC, | Lab building- 9 circuits | Nil | 09 Nos |
| 8 | 3TR Carrier make Cassette AC's operating on 415Volts, 3phase 50-Hz AC supply | MP building labs- 3 & 4- 04 each. | Nil | 08 Nos |
| 9 | 4TR Carrier make Cassette AC's operating on 415Volts, 3phase 50-Hz AC supply | MP building labs- 1 &2- 03 each. | Nil | 06 Nos |

Chapter 7
PART – II - PRICE BID

Page 1 of 6

(To be submitted in a separate sealed Envelope)
[Schedule of work, quantity – Rate contract for repair works of AC's installed at
GMRT Khodad Campus and Narayangaon Hsg colony].

| Sr. No. | Description | Unit Rate for 1 st year From date of WO Rs. | Unit Rate for 2 nd year From date of WO Rs. | Unit Rate for 3 rd year From date of WO Rs. |
|---------|---|--|--|--|
| 1 | 1a) Removal, repairs and reinstallation of 1 phase, 220-240V AC, 60W, 0.425A indoor unit/ blower fan motor of 1.5Ton/2Ton Hi-wall split AC. | | | |
| | 1b) Removal, repairs and reinstallation of 1phase, 230V AC, 93W, 0.8A outdoor unit / condenser fan motor of 1.5Ton/2Ton Hi-wall split AC. | | | |
| 2 | 2a) Replacement of indoor unit /blower motor of 1.5Ton/2Ton Hi-wall split AC | | | |
| | 2b) Replacement of fan blade of indoor motor /unit of 1.5Ton/2Ton Hi-wall split AC | | | |
| | 2c) Replacement of condenser fan motor of 1.5Ton/2Ton Hi-wall split AC. | | | |
| 3 | 3a) Removal, repairs and reinstallation of indoor unit blower fan motor of 3Ton/4Ton slim line/4Ton Cassette split AC. | | | |
| | 3b) Replacement of indoor fan motor of 3Ton/4Ton slim line/4Ton Cassette split AC. | | | |
| | 3c) Replacement of blower/ fan blade of indoor unit of 3Ton/4Ton slim line/4Ton Cassette split AC. | | | |

Date : Signature of Bidder :
Name & Designation :

Place : Company Name & Address :
Company Seal & Phone No. :

Chapter 7
PART – II - PRICE BID

Page 2 of 6

| Sr. No. | Description | Unit Rate for 1 st year From date of WO Rs. | Unit Rate for 2 nd year From date of WO Rs. | Unit Rate for 3 rd year From date of WO Rs. |
|---------|---|--|--|--|
| | 3d) Removal, repairs and reinstallation of condenser fan motor of 3Ton/4Ton slim line/4Ton Cassette split AC. | | | |
| | 3e) Replacement of condenser fan motor of 3Ton/4Ton slim line/4Ton Cassette split AC. | | | |
| | 3f) Repairs and reinstallation of condenser fan motor (3phase, 0.75hp, 415V, star connected) of 5 Ton Blue Star make Package AC unit. | | | |
| | 3g) Replacement of condenser fan motor (3phase, 0.75hp, 415V, star connected, 910RPM, frame 80, IP55) of 5 Ton Blue Star make Package AC unit. | | | |
| 4 | Replacement of condenser fan blade | | | |
| | 4a) Replacement of condenser fan blade of 1.5Ton/2Ton Hi-wall split AC. | | | |
| | 4b) Replacement of condenser fan blade of 3/4 Ton Voltas make Slim line Split AC | | | |
| | 4c) Replacement of condenser fan blade of 4 Ton Blue Star make Cassette AC | | | |
| | 4d) Replacement of condenser fan blade of 5 Ton Blue Star make Package AC | | | |
| 5 | Detection and rectification / repairs of gas leakage by brazing, pressure testing, vacuuming and refrigerant full gas charging as required in the following type of split AC's. | | | |
| | 5a) For 1.5 TR/2TR Voltas/Blue Star single phase split AC | | | |

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|---------|---|--|--|--|
| | 5b) For 3 Ton 3 phase Voltas slim line/tower type Split AC | | | |
| | 5c) For 4 Ton 3 phase Voltas slim line/tower Split AC | | | |
| | 5d) For 4 Ton Blue Star make Cassette AC | | | |
| | 5e) For 5 Ton Blue Star make Package AC Circuit. | | | |
| 6 | Refrigerant Gas Top up in following AC's | | | |
| | 6a) For 1.5 TR/2TR Voltas/Blue Star single phase split AC | | | |
| | 6b) For 3 Ton 3 phase Voltas slim line/tower Split AC | | | |
| | 6c) For 4 Ton 3 phase Voltas slim line/tower Split AC | | | |
| | 6d) For 4 Ton Blue Star make Cassette AC | | | |
| | 6e) For 5 Ton Blue Star make Package AC Circuit | | | |
| 7 | Repair of PCB of Evaporator unit | | | |
| | 7a) Repairs of PCB of Voltas/Blue Star/LG make 1.5/2 Ton Hi-wall split AC | | | |
| | 7b) Repairs of PCB of Voltas make 3TR slim line/tower Split AC | | | |
| | 7c) Repairs of PCB of Voltas make 4TR slim line/tower Split AC | | | |
| | 7d) Repairs of PCB of Blue Star make 4 Ton cassette AC | | | |

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|---------|---|--|--|--|
| 8 | Replacement of PCB of Evaporator unit | | | |
| | 8a) Replacement of PCB of Voltas/Blue Star/LG make 1.5/2 Ton Hi-wall split AC | | | |
| | 8b) Replacement of PCB of Voltas make 3TR slim line/tower Split AC | | | |
| | 8c) Replacement of PCB of Voltas make 4TR slim line/tower Split AC | | | |
| | 8d) Replacement of PCB of Blue Star make 4 Ton cassette AC | | | |
| 9 | Replacement of faulty Compressor with new: This includes removal of faulty compressor and supplying and installing the new compressor, brazing the refrigerant lines, gas leakage testing, vacuuming /N2 testing as required and Ref gas charging in the AC system to achieve the desired grill temperature. | | | |
| | 9a) For 1.5 TR/2TR Voltas/Blue Star single phase Hi wall split AC | | | |
| | 9b) For 3 Ton 3 phase,415V AC Voltas slim line/tower Split AC (SSL shed, Recreation hall) Compressor: Sanyo: model :C-SB-373 H8A/ Model: C-SB373H8A (Code- 80985088) | | | |
| | 9c) For 3 Ton 3 phase,415V AC Voltas slim line/tower Split AC (library) Compressor model:CR42K6 TF6-101 | | | |

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|---------|---|--|--|--|
| | 9d) For 4 Ton 3 phase, 415V AC Voltas slim line/tower Split AC (NGN colony) Compressor: Copeland scroll model: ZR61KC-TFD-522 | | | |
| | 9e) For 4 Ton 3 phase, 415V AC Blue Star make three phase Cassette AC (FPGA, Jog Shed) . Compressor make: Copeland scroll, Model: ZR61KS-TFD-522 | | | |
| | 9f) For 5 Ton 3 phase, 415V AC Blue Star make Package AC Circuit. Compressor make- Copeland, Model: CRN5-0500-TFD-522 | | | |
| 10 | Supply and installation of blower fan V-belts (of A747Lp/A28 size) for 15TR Blue Star make package AC units. (Note: Each 15TR Package ac AHU has two belts (one pair). Rates may be quoted per pair basis. Estimated belt pairs to be replaced/year are - 12 Nos) | | | |
| 11 | Replacement of bearings for blower motor of 15TR Blue Star make package AC indoor unit. Motor details: 3phase, 3HP/2.2KW, RPM:1425, Duty: S1, 4.8Amps, Frame:100L, Insulation: Class F, Motor make: Hindustan Electric. Each motor requires a set of 2 bearings. Rates may be quoted per set for replacing two bearings per motor. | | | |

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| Sr. No. | Description | Unit Rate for 1 st year From date of WO Rs. | Unit Rate for 2 nd year From date of WO Rs. | Unit Rate for 3 rd year From date of WO Rs. |
|---------|---|--|--|--|
| 12 | Supply and installation of bearing for blower of 15TR package AC AHU. Each blower/package AC units has 02 bearings. Rates may be quoted for replacing the set of 02 bearings. | | | |
| 13 | Replacement of strainer (including removal of old strainer, supply and installation of new strainer, brazing, gas leakage testing etc a complete job) for 5TR split AC circuit of 15TR Blue Star make package AC unit. Rates may be quoted per strainer replacement job (Refrigerant gas charging after strainer replacement activity if required shall be considered separately. Here rates may be quoted for strainer replacement only). | | | |
| 14 | Supply of air filters for Blue Star 15 TR AHU of Model: DPA1803 | | | |
| 15 | Removal, full rewinding and reinstallation of 3 phase 415 volts, 0.75HP, 0.55KW induction type fan motor of package AC condensers. | | | |

Note 1: Replacement of an item includes removal of old/faulty unit and proper installation, testing and putting it in smooth operation of the new units like compressors (including removal of old, installation of new with brazing, vacuuming, leak testing and gas charging), motors, fan blades, alignment of blades/motors, blowers of indoor units, PCB's etc.

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