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केन्द्रीय समुद्री मात्स्यिकी अनुसंधान संस्थान

(भारतीय कृषि अनुसंधान परिषद)

[कृषि अनुसंधान एवं शिक्षा विभाग, कृषि मंत्रालय, भारत सरकार]

Central Marine Fisheries Research Institute

(Indian Council of Agricultural Research)

[Department of Agricultural Research and Education, Ministry of Agriculture, Govt. of India]

पोस्ट बॉक्स सं. 1603, एरणाकुलम नोर्थ पी.ओ., कोच्ची - 682018, केरल, भारत

Post Box No. 1603, Ernakulam North P.O., Kochi - 682018, Kerala, India

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NOTICE INVITING ONLINE TENDER

Central Marine Fisheries Research Institute (CMFRI), Kochi invites e-tenders for the installation and commissioning of precision air conditioner (2 nos.) through the website www.eprocure.gov.in under two bid system from reputed manufacturers/suppliers.

Tender Enquiry No.	F.No. 19-6/2018-P/REVIVAL
Published Date	01.05.2019
Bid submission start date	22.05.2019
EMD Amount	Rs.11350 /-
EMD Submission Date	From 01.05.2019 to 22.05.2019.
Bid submission end date	22.05.2019 at 14.00 hours
Technical bid opening date	23.05.2019 at 14.00 hours

IMPORTANT NOTES:

1. Tender Documents can be downloaded from CMFRI Website www.cmfri.org.in or from the Central Public Procurement Portal www.eprocure.gov.in. Bidders should enroll/register in the e-procurement module of Central Public Procurement Portal through the website www.eprocure.gov.in for participating the bidding process. Bidders should also possess a valid DSC for online submission of bids.
2. Bids received on e-tendering portal only will be considered. Bids in any other form sent through sealed cover/e-mail/post/fax etc. will be rejected.
3. CMFRI reserves the right to accept/reject any or all the tenders in part/full without assigning any reason thereof.
4. CMFRI will not be responsible for any delay in enrollment/registration as bidder or submitting/uploading the offer on e-tender portal. Hence, bidders are advised to register in e-tendering website www.eprocure.gov.in and enroll their Digital Signature Certificate and upload their quotation we in advance.
5. Any change/corrigendum/extension of opening date in respect of this tender shall be issued through websites only and no press notification will be issued in this regard. Bidders are therefore requested to regularly visit our website for update.

Assistant Administrative Officer (P)
for Director

Place: Kochi
Date: 29.04.2019

GENERAL TERMS & CONDITIONS

1. Only bids received on CPP Portal will be considered for opening. Bids in any physical form sent through Fax/e-mail/courier/post/delivered personally will not be considered.
2. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
3. Bidders shall not be permitted to alter or modify their bids after expiry of the deadline for receipt of bids.
4. For Indian Bidders - The rates quoted should be for delivery and installation at CMFRI, Kochi. The bid shall be valid for a period of 90 days from the date of opening of the tender. If taxes, duties or any other charges payable by the Purchaser should be clearly indicated in the financial bid (BOQ).

Please note that this Institute is entitled to concessional Customs Duty, Exempted from payment of Excise Duty as applicable to Educational/Research Institutions/Laboratories etc. against DSIR Certificate.
5. As per Govt of India, Ministry of Finance Dept of Revenue Notification No.47/2017 Integrated tax (Rate) dated 14.11.2017, this Institute is entitled to concessional GST of 5% against DSIR certificate.
6. In case the manufacturer has submitted the bid, the bids of its authorized dealer will not be considered. In case of violation, both infringing bids will be rejected.
7. In case bidder is an authorized Dealer/Agent/Distributor - attested photocopies of Manufacturer's Authorization Certificate and also Manufacturers confirmation of extending the required warranty for that product to be enclosed failing which the tender will be rejected. Either the Indian Agent on behalf of the Principal/OEM or Principal OEM itself can bid , but both cannot bid simultaneously for the same item/product in the same tender
8. In case the bidder is an Indian Agent of foreign manufacturer, an attested copy of Agency Agreement between the Original Equipment Manufacturer and the Indian Agent showing the details of Agency Commission and confirmation of acceptance of payment in Indian Rupees to be enclosed failing which the tender will be rejected.
9. Rules and regulations for transportation of goods from foreign countries will be as per the contemporary version of the International Commercial Terms (Incoterms).
10. The equipments offered shall conform to the specifications as given in Annexure-I shall be guaranteed against defective design, defective quality material supplied, manufacturing defects etc., for a minimum period of 2 years from the date of supply/installation. Documents supporting the technical specification of the quoted goods may be uploaded in cover-1 in the PDF format.

11. Manufacturer's name and country of origin of materials offered must be clearly specified. Please quote whether your organization is large scale industry or small scale industry. If you have NSIC/MSE/MSI/DGS&D Certificate, please attach it to the quotation. Mention your Registration details.
12. Complete details and ISI specification if any must accompany the quotation. Make/brand of the items shall be stated wherever applicable. If you have got any counter offer as suitable to the material required by us, the same may be shown separately.
13. Complete specification of the article quoted, including its Make & Model No., its warranty/guarantee period etc. in bidder's letter head shall be uploaded in the e-tender in PDF form along with illustrated pamphlets, brochure, drawings etc. wherever applicable in Cover-1. Correct postal address, Phone/Mobile number, e-mail ID of the Bidder and address & contact details to whom the purchase order has to be placed, also has to be given
14. Proper servicing, whenever necessary, has to be provided by the supplier or their authorized agents. Availability of technical support & servicing facility locally/nationally should be submitted in PDF form in Cover-1 of the Bid.
15. AMC charges after warranty period, its terms and conditions etc. may be indicated.
16. Users list may also to be attached in the tender form
17. **Bid Validity** : A bid shall remain valid for the period of 90 days from the date of opening of tender.
18. **Bid Security:**
 - a) The units registered with Micro Small Enterprises (MSEs) as defined in MSE Procurement Policy issued by Dept. of Micro, Small and Medium Enterprises (MSME) or are registered with the Central Organization or the concerned Ministry or Department or Startups as recognized by Department of Industrial Policy & promotion (DIPP) shall be exempted from the payment of Bid Security (Earnest Money Deposit) as defined under Rule 170 (i) of General Financial Rules (GFR-2017). In such case, copy of the Certificate showing registration with the above mentioned institutions to be uploaded in Cover-I of the e-tender in PDF format.
 - b) In case the unit is not covered as above, it shall submit the offer along with the Bid Security for Rs.11350/-(Rupees eleven thousand three hundred fifty only)
 - c) The Bid Security of Rs.11350/-(Rupees eleven thousand three hundred fifty only) can be submitted in the form of Demand Draft/Bankers Cheque in favour of "ICAR UNIT - CMFRI" payable at State Bank of India, Main Branch, Ernakulam or Bank Guarantee in the prescribed format, valid for 45 days beyond the final bid validity period. **Name of the Bidder, Tender and Tender reference No. has to be furnished behind the Bid Security DD/Bankers Cheque.** The scanned copy of Bid Security by way of DD/Banker Cheque/BG or its exemption Certificate in PDF form

should be uploaded in the relevant field of the e-tender. The offers without Bid Security will be rejected.

- d) The Bid Security will be returned to the unsuccessful bidders after the orders are placed with the successful bidder.
- e) The Bid Security will be forfeited if the bidder fails to accept the order based on his/her offer or fail to supply the items.
- f) Bid Security will be refunded to the successful bidder on receipt of Performance Security.

19. **Performance Security**

The successful Firm/Party is required to remit a Performance Security (or Performance Bank Guarantee (PBG) or Security Deposit (SD) amounting to 10 % of the cost of equipment in the form of an account payee Demand Draft drawn in favor of "ICAR UNIT - CMFRI" payable at State Bank of India, Main Branch, Ernakulam or Fixed Deposit receipt from a commercial bank, bank guarantee issued/confirmed from any other commercial bank in India in an acceptable form as directed by this office. **The Performance Security to be remitted within 14 days after notification of the award and it should remain valid for a period of 60 (sixty) days beyond the date of completion of all contractual obligations of the supplier, including warranty obligations.**

Performance Security shall be refunded to the contractor without interest, after he duly performs and completes the contract in all respect but not later than 60 days of completion of all such obligations including warranty under the contract.

Performance Security will be forfeited and credited to the Procuring Entity's account in the event of a breach of contract by the contractor.

20. **PAYMENT CLAUSE**

- a) In case of **Indigenous Goods**, the main elements of price may include raw material, production cost, overhead, packing and forwarding charges, margin of profit, transit insurance, excise duty, GST and other taxes and duties as applicable.
- b) **Elements of Price:** Price includes the price of the goods, cost of installation and Commission, operators' trains and so on. The bidders shall be furnishing a cost break-up indicating the applicable prices and taxes for each of such components along with the overall price.
- c) **Currency:** Domestic tenderers are to quote and accept their payment in Indian currency. In case of foreign currency, conversion rates in INR will be taken on that day when financial bid will open.
- d) **Terms of Payment for Domestic Goods:** Where the terms of delivery is **FOR** Destination/delivery at site, the usual payment terms is 100 per cent on receipt and acceptance of goods by the consignee and on production of all required documents by the supplier and successful installation and commissioning of the equipment.

21. **Mode of payment for Domestic Goods:** Payment for domestic suppliers will be on transparent electronic payment systems like Electronic Clearance System (ECS), Real-Time Gross Settlement Systems (RTGS), National Electronic Funds Transfer (NEFT) or Electronic Payment Gateways.

22. **Documents for payment for Domestic Goods:**

- i) Supplier's Invoice indicating, inter alia description and specification of the goods, quantity, unit price, total value.
- ii) Packing list identifying contents of each package
- iii) Certificate of Origin
- iv) Insurance Certificate
- v) Railway receipt/consignment note
- vi) Manufacturer's guarantee certificate and in-house inspection certificate
- vii) Inspection certificate issued by purchaser's inspector
- viii) Any other document(s) as and if required in terms of the contract.

23. **Terms of payment for Imported Goods:**

Letter of Credit will be opened for 100% value with condition to release the payment as follows:

A) **On shipment:**

90% of the contract price shall be paid through irrevocable letter of credit established in favour of the foreign supplier in scheduled commercial bank in India or a bank in the supplier's country acceptable to the purchaser, upon submission of the following documents:

- i) Supplier's original invoice giving full details of the goods including quantity, value, and so on;
- ii) Packing list identifying contents of each package
- iii) Certificate of country of origin of the goods to be given by the seller or a recognized chamber of commerce or another agency designated by the Local Government for this purpose;
- iv) Certificate of pre-dispatch inspection by the purchaser's representative wherever necessary;
- v) Manufacturer's test certificate and guarantee;
- vi) Certificate of Insurance
- vii) Bill of lading/airway bill, rail receipt or any other dispatch document, issued by a Government Agency (like the Department of Posts) or an Agency duly authorized by the concerned Ministry/Department, indicating:
 - a) Name of the Vessel/Carrier;
 - b) Bill of loading/Airway Bill;
 - c) Port of loading;
 - d) Date of shipment;
 - e) Port of discharge and expected date of arrival of goods, and
 - f) Any other document(s) as and if required in terms of the contract.

B) **On final Acceptance**

10% of the contract price of the goods received shall be paid within 30 days of successful installation and commissioning at the consignee's premises and acceptance by the consignee.

C) **Payment of Agency Commission**, if payable, against FOB/FAS/CFR/CIF/CIP contract - the entire 100% Agency Commission is generally paid (in non-convertible **Indian Rupees** on the basis of BC selling rate of exchange) after all other payments have been made to the supplier in terms of the contract.

24. **Modes of payment for Imported Goods:**

For imported goods, payment usually happens through the Letter of Credit (LC) opened by the State Bank of India. The amount of LC should be equal to the total payable amount, and be released as per the clause mentioned above. Provisions of Uniform Customs and Practices for Documentary Credits will be adhered to while opening the LC for import into India. If the LC is not opened, payment can also be made to the seller through a direct bank transfer only after the receipt of prescribed document.

25. **Insurance**

- a) The goods supplied under the contract, shall be fully insured in a freely convertible currency against loss or damage incidental to manufacturer or acquisition, transportation, storage and delivery in the manner specified in the contract.
- b) The amount to be covered under insurance should be sufficient to take care of the overall expenditure to be incurred by the procuring Entity for receiving the goods at the destination.
- c) Where deliver of imported goods is required by the purchaser on CIF/CIP basis, **the supplier shall arrange** and pay for marine/air insurance, making the purchaser the beneficiary.
- d) Where delivery is on FOB/FAS basis, marine/air insurance shall be the responsibility of the purchaser.

26. **Termination of contract for Insolvency:**

If the supplier becomes bankrupt or becomes otherwise insolvent or undergoes liquidation or loses substantially the technical or financial capability (based on which he was deflected for award of contract), at any time, the purchaser may terminate the contract by giving written notice to the supplier, without any compensation to the supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will or will accrue thereafter to the Procuring Entity.

27. **Termination of Contract for convenience:**

The purchaser by written notice sent to the supplier may terminate the contract, in whole or in part at any time for its convenience. The notice of termination shall specify the date with effect from which the termination will to become effective.

28. **Dispute Resolution:**

When a dispute/difference arises between the procuring Entity and supplier, both the purchaser and supplier should first try to resolve it amicably by mutual consultation. If the parties fail to resolve the dispute within 21 (twenty one) days, then depending on the position of the case, either the purchaser or supplier should give notice to the other party of its intention to commence arbitration. When the contract with a domestic supplier, the applicable arbitration procedure shall be as per the Indian Arbitration and Conciliation Act, 1996. While processing a case for dispute resolution/litigation/arbitration, the procuring Entity shall take legal advice, at appropriate stage. **The venue of arbitration should be the place from where the contract has been issued.**

29. Delivery: Maximum of three weeks from the date of supply order.
30. Installation: Within 30 days from the date of receipt of equipment in the Institute failing which Liquidated damage clause shall apply.
31. Liquidated Damage Clause: It would be realized @ 0.5% (half percent) of the base price (excluding taxes) of delayed goods for each week of delay subject to maximum 10%.
32. **Warranty**
 - i. The supplier warrants that the goods supplied under the contract is new, unused, of the most recent of current models and incorporated all recent improvement in design and materials unless provided otherwise in the contract. The supplier further warrants that the good supplied under the contract shall have no defect arising from design, materials (except when the design adopted and/or the material used are as per the purchaser's specifications) or workmanship or from any act or omission of the supplier, that may develop under normal use of the supplied goods under the conditions prevailing in India.
 - ii. This warranty shall remain valid for 36(thirty six) months after the goods or any portion thereof as the case may be, have been delivered to the final destination and installed and commissioned at the final destination and accepted by the purchaser in terms of the contract or for 18(eighteen) months from the date of despatch from the supplier's works for domestic goods or for 21 (twenty one)months after the date of shipment from the port or place of loading in the source country for imported goods, whichever is earlier, unless specified otherwise in the **Schedule of Requirements**.
 - iii. The purchaser shall promptly notify the supplier in writing of any claim arising under this warranty.
 - iv. Upon receipt of such notice, the supplier shall with all reasonable speed (or within the period, if specified in the **Schedule of Requirements** and the contract), repair or replace the defective goods or parts thereof, free of cost, at the ultimate destination. The supplier shall take over the replaced parts/goods at the time of their replacement. No claim whatsoever shall lie on the purchaser for the replaced parts/goods thereafter.
 - v. In the event of any correction of a defect or replacement of any defective material during the warranty period, the warranty for the corrected/replaced material shall be extended to a further period of 12 (twelve) months from the date such

corrected/replaced material starts functioning to the satisfaction of the purchaser. If the supplier, having been notified, fails to remedy the defect(s) within a reasonable period (or within the period, if specified in the Schedule of Requirements and the contract), the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expense and without prejudice to any other rights, which the purchaser may have against the supplier, under the contract.

32. Integrity Pact

The integrity Pact essentially envisages an agreement between the prospective vendors/bidders and the buyer, committing the persons/officials of both sides, not to resort to any corrupt practices in any aspect/stage of the contract. Only those vendors/bidders, who commit to such a pact with the buyer, would be considered competent to participate in the bidding process. The essential ingredients of the Pact include:

- i) Promise on the part of Procuring Entity to treat all the bidders with equity and reason and not to seek or accept any benefit, which is legally available.
- ii) Promise on the part of bidders not to offer any benefit to the employees of the Procuring Entity not available legally and also not to commit any offence under Prevention of Corruption Act, 1988 or Indian Penal Code 1860.
- iii) Promise on the part of bidders not to enter into any undisclosed agreement or understanding with other bidders with respect to prices, specifications, certifications, subsidiary contracts; etc.
- iv) Undertaking (as part of Fall Clause) by the bidders that they have not and will not sell the same material/equipment at prices lower than the bid price;
- v) Foreign bidders to disclose the name and address of agents and representatives in India and Indian Bidders to disclose their foreign principals or associates;
- vi) Bidders to disclose the payments to be made by them to agents/brokers or any other intermediary; vii) Bidders to disclose any past transgressions committed over the specified period with any other company in India or Abroad that may impinge on the anti corruption principle;
- vii) Integrity Pact lays down the punitive actions for any violation.
- viii) Integrity Pact (IP) would be implemented through a panel of Independent External Monitors (IEMs) : Shall be appointed by the organization in consultation with Central Vigilance Commission. Names and contact details of the Independent External Monitor(s) should be listed in Notice Inviting Tender (NIT). The IEM would review independently and objectively, whether and to what extent parties have complied with their obligations under the Pact. Government of India organizations and Public Sector Undertakings desirous of implementing Integrity Pact are required to select at most three persons (below the age of 70 (seventy) years) of high integrity and reputation as Independent External Monitors (IEM) after due diligence and forward to the CVC for its approval. Only those officers of Government of India Departments or Public Sector Undertakings, who have retired from top management positions, would be considered for appointment as IEM, provided they are neither serving or retired from the same organization. Eminent persons, retired judges of High/Supreme Courts, executives of private sector of considerable eminence could also be considered for functioning as Independent External Monitors. The appointment of Independent External Monitors would be for an initial

period of three years and could be extended for another term of two years (maximum tenure of five years). Names and contact details of the Independent External Monitor(s) should be listed in Notice Inviting Tender (NIT).

- ix) In tenders meeting the criteria of threshold value/nature of procurement: Integrity Pact clause and format should be included in the Bid Documents. Each page of such Integrity pact proforma would be duly signed by Purchaser's competent signatory. All pages of the Integrity Pact are to be returned by the bidder (along with the technical bid) duly signed by the same signatory who signed the bid, i.e. who is duly authorized to sign the bid and to make binding commitments on behalf of his company. Any bid not accompanied by Integrity Pact duly signed by the bidder shall be considered to be a non-responsive bid and shall be rejected straightway.
- x) Role/Functions of IEMs: The Monitors would not be subject to instructions by the representatives of the parties and should perform their functions neutrally and independently. They would review independently and objectively, whether and to what extent parties have complied with their obligations under the Integrity Pact. For this purpose, they would have access to all contract documents/books of accounts of the bidders in case of any allegation of violation of any provisions of the Integrity Pact or payment of commission, whenever required. The IEMs will have the option to participate in such meetings among the parties related to the project provided such meetings could have an impact on the contractual relations between the parties. Ideally all IEMs of an organization should meet once every two months to take stock of ongoing tendering process. The IEMs would examine all complaints received by them and give their recommendations/views to the designated officer of the Procuring Entity, at the earliest. The Monitors would also inform the Procuring Entity, if they notice or have reason to believe, a violation of the Integrity Pact. They may also send their report directly to the Central Vigilance Commission, in case of suspicion of serious irregularities requiring legal/administrative action. At least one IEM would be invariably cited in the NIT. However for ensuring the desired transparency and objectivity in dealing with the complaints arising out of any tendering process, the matter should be examined by the full panel of IEMs, who would look into the records, conduct an investigation, and submit their joint recommendations. The recommendations of IEMs would be in the nature of advice and would not be legally binding. IEMs may not be equated with consultants in the Procuring Entity. Their role is independent in nature and the advice once tendered would not be subject to review. The role of the Chief Vigilance Officer (CVO) of Procuring Entity shall remain unaffected by the presence of IEMs. A matter being examined by the IEMs can be separately investigated by the CVO, if a complaint is received by him or directed to him by the CVC.

33. The above procurement will be subject to Manual for Procurement of Goods 2017(http://www.doe.gov.in/sites/default/files/Manual%20for%20Procurement%20of%20Goods%202017_0_0.pdf) and General Financial Rules 2017 (https://www.mof.gov.bd/en/index.php?option=com_content&view=article&id=48&Itemid=1) and orders and instruction and guidance from Govt of India and ICAR from time to time.

INSTRUCTIONS TO BIDDERS

The tender shall be submitted in accordance with these instructions and any tender not conforming to the instructions as under is liable to be rejected. These instructions shall form the part of the tender and the contract.

1. For Online Bid submission, as per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal ([URL:http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app)). The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates.

More information useful for submitting the online bids on the CPP Portal is available at "Bidders Manual Kit".

For Registration.

2. Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal ([URL:http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app)) by clicking on the line "Online Bidder Enrollment". Enrolment on the CPP Portal is free of charge.
3. Foreign Bidders have to refer "DSC details for foreign Bidders".

Bid Submission

4. The intending Tenderer, in case of Original Equipment Manufacturers (OEM) shall upload a self-declaration on their letter head as PDF file in Cover-1 of e-tender, along with the tender documents, confirming that they are regularly manufacturing, supplying, and installing testing & commissioning of the similar equipment for the last 2 years.
5. The intending Tenderer, in case of Authorized Distributor/Authorized Dealer shall possess valid authorized Distributorship/Dealership license from Original Equipment Manufacturers (OEM). The tenderer shall enclose the copy of the same as PDF file in Cover-1 of the e-tender while submitting the tender.
6. The equipment shall be in compliance with the specifications mentioned in Annexure-I of the tender and shall be of the latest technology, best quality and high standards.
7. Any optional accessories/tooling, besides the standard equipment recommended for the better performance of the equipment, if offered, is provided with their full technical details including their use and advantage in a separate sheet with the tender documents.
8. No extra payment shall be paid on account of any discrepancy in nomenclature of items.

9. While submitting the tender, if any of the prescribed conditions are not fulfilled or are incomplete in any form, the tender is liable to be rejected. If any tenderer stipulates any condition of his own, such conditional tender is liable to be rejected.
10. Director, CMFRI reserves the right to reject any tender/bid wholly or partly or to cancel the Bidding processes and reject all bids at any time prior to the award of contract without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected Bidder or Bidders of the rough for Institute's action.
11. The Technical Evaluation Committee constituted by the Director, CMFRI shall have the right to verify the particulars furnished by the bidder independently.
12. Tenderer shall take into account all costs including installation, commissioning, cartage etc. for giving delivery of material at site i.e. CMFRI, Kochi before quoting the rates. In this regard no claim for any extra payment for any reason shall be entertained.
13. The item should be delivered at CMFRI, Ernakulam North P.O., Kochi-682 018 for Indian bidders, for foreign bidders it should be on **FOB basis** and the supplier shall be responsible for any damage during the transit of goods.
14. All the tender documents & price bid to be uploaded as per this tender are to be digitally signed by the bidder.
15. All the communications with respect to the tender shall be addressed to:

The Director,
Central Marine Fisheries Research Institute,
P.B. No. 1603, Ernakulam North P.O.,
Kochi- 682 018.

Annexure – I

Specification of item

SCOPE OF WORK

The Scope of Work covers the supply, installation, commissioning and warranty of High Performance Split air-conditioner and services provided for the same.

1 GENERAL

1.1 Design Requirements

The environmental control system will be a High performance factory assembled split air-conditioning unit. It will be wall mounted, optimized for maximum cooling capacity and high Airflow rate to match sensible load in technology room . This unit should be designed for service from the front of the unit.

The Air-cooled High Performance Split AC unit shall be designed as per following conditions:

- Inside Design condition : 22 Deg C \pm 2 Deg C and Max 50% RH
- Ambient air design temperature : 43 Deg C*
- Actual Capacity : 1.2 TR
- Air Quantity : 500 to 600 CFM / TR
- Filters Efficiency : 90% efficiency down to 10 Microns.
- Type of load : High sensible heat load (Sensible heat factor above 0.90)

Bidder to offer for following Capacity of Unit:

Sl. No.	Capacity of Unit	Model	Each Unit Basic Price (Inr)	Each Unit I&C Price (Inr)
1	1.2 TR (Single Phase)			
Total price for 2 nos.				

1.2 Submittals

Submittals will be provided with the proposal and will include: Dimensional/installation, refrigerant – hydraulic and electrical connections data, and circuit drawings.

1.3 Warranty

The system will be provided with a warranty against defects in material and workmanship.

1.4 Quality Assurance

The system will be designed and manufactured according to world-class quality standards. The manufacturer should be ISO 9001 certified.

*If the existing actual room temperature is 43 degree Celsius ;by using precision air conditioner set for 22 degree Celsius, we should have an inside temperature of 22 \pm 2 degree Celsius precision with a maximum 50 % relative humidity,

2 PRODUCT

2.1 Cooling Circuit

The refrigeration system shall consist of a R407C based Scroll compressor, hydrophilic coated evaporator coil, condenser coil, thermostatic expansion valve(Capillary Tube type expansion device is not acceptable) and filter drier. The compressor should have a suction gas cooled motor, vibration isolators, internal thermal overloads, manual reset high pressure switch, low pressure and high pressure transducer.

2.2 Fan section

The unit will be equipped with a direct drive electronically commutated radical fan with high efficiency and high reliability. The unit are designed with draw-thru airflow having fans in downstream of the coil.

2.3 Cabinet and Frame

The exterior Metallic steel panels will be custom powder coated to protect against corrosion. The wall constructed side, bottom and rear panels separated with insulation from the airstream. The unit should be provided with perforated inlet and outlet panels and same should have more than 65% open area.

2.4 Air Filtration

The unit will be equipped with one set of HDPE air-filter having filtration efficiency of 90% down to 10 micron and same to be located within the cabinet and accessible from the front of the unit. The filter can be washed repeatedly.

2.5 Air Cooled Condenser

The condenser should be with fan modulation kit. Condenser should be able to work -5 deg C to 45 deg C ambient temperature without tripping. The condenser frame will be made up of a sturdy G.I. structure. The protection level of the outdoor unit will be IP54. The air-cooled condenser coil is constructed of mechanically expanded copper tubes in enhanced surface aluminium fin with Hydrophilic coating.

2.6 Unit Controls

2.6.1 Microprocessor Controller

Unit should be controlled by intelligent control board. The control board should be microprocessor based. The controller should allow setting and monitoring of the room parameters.

The controller allows setting and monitoring of the following space parameters:

- Return Temperature set-point
- Actual Room temperature
- Indoor Fan speed Range
- Mode of Operation
- Unit Number
- Active Alarm

Example of available warnings / alarms:

- Power fail
- High Return temperature
- Loss of airflow
- Compressor Low Pressure
- Compressor High Pressure
- High discharge temperature
- etc

Following features will be incorporated in the controller:

- Sequencing and auto-rotation of units upto 6 numbers in connection.
- Fault Failure Switch in sequence
- Automatic restart will be provided after a power failure.

2.6.2 Displays versions:

The unit should be provided with corded remote controller with LCD screen and keypad. It will provide multiple-level password protection to prevent unauthorized operation effectively. The operation time of components should be available through the menu. A led indication in case of the 'Warning' or 'Alarm' event. The screen will display the current temperature, unit output status (Cooling, fan, free cooling), unit mode (Single, lead, standby), unit operation status (Running, standby, locked), alarm information, and current date & time. More detailed operating status and alarm information will be available from the Main Menu screen.

2.7 Monitoring

The control board should provide an RS485 port, and the standard protocol will be MODBUS. This should be standard feature of the product

List of Documents to be provided as PDF file in Cover-I Technical Bid.

1. Copy of Bid Security by way of Demand Draft, Bank Guarantee or certificate showing its exception, if claiming.
2. Full Address/contact details.
3. Copy of GST Registration
4. Income Tax return of last three years ending March, 2019.
5. PAN Card
6. In case of Original Equipment Manufacturers (OEM) shall upload a self-declaration on their letter head , confirming that they are regularly manufacturing, supplying, and installing testing & commissioning of the similar equipment for the last 2 years.

OR

In case of Indian Agent - attested copy of the Agency Agreement between the OEM and Indian Agent showing the details of Agency Commission otherwise tender will be rejected.

OR

In case bidder is an authorized Dealer/Agent/Distributor of an Indian Manufacturer - attested copy of Manufacturer's Authorization Certificate and also Manufacturers confirmation of extending the required warranty for the product

7. Details of technical support and servicing facility available in the region and nationally.
8. Make, Model No., Specification, Catalogue, Warranty etc. of the items quoted in the letter head with its supporting documents.
9. Point wise compliance statement with the offer .
10. Users list
11. Tender documents duly signed by the bidder.

Cover-II - FINANCIAL BID - in .pdf format to be filled as per the instructions given in Financial Bid.

All the documents and BOQ(Financial Bid) has to be signed by the Bidder.



Assistant Administrative Officer (P)
for Director, CMFRI

TENDER ACCEPTANCE LETTER
(To be given on company letter head)

Date:

To,
The Director,
CMFRI,
Kochi-18.

Sub: Acceptance of terms and conditions of tender -regarding.

Ref: Tender No.

Name of the tender:

Sir,

1. I/we have downloaded the tender documents for the above mentioned Tender from the website(s) name:
.....
.....
as per your advertisement.
2. I/we have certify that I/we have read the entire terms and conditions of the tender documents from page No. to.....(including all documents like Annexure(s), schedules(s), etc.) which form part of the contract agreement and I/we shall abide hereby the terms/conditions, clauses contained therein.
3. I/we hereby unconditionally accept the tender conditions of above mentioned tenderdocument(s)/corrigendum(s) in its totality.
4. I/we do hereby declare that our firm has not been blacklisted/debarred by any Government Department/Public Sector Undertaking.
5. I/we certify that all information furnished by our firm is true and correct and in the event the information is found to be incorrect/untrue or found violated, then your Department/organization shall without giving any notice or reason thereof or summarily rejected the bid or terminate the contract.
6. I/we engage to supply the material(s) to your office and comply the following:
7. Tender schedule and Technical Specification indicated
8. This offer is valid for 90 days from the date of opening of the tender
9. That the rates quoted are not higher than the rates quoted for same item to any Government/Undertaking.
10. That the bid submitted by us is properly sealed and prepared so as to prevent any subsequent alteration and replacement.

Signature & Seal Place & date		Name of the Authorized Signatory:	
Address		Telephone No Fax No Mobile No. E-mail ID	

Annexure IV

Financial Bid

Tender Schedule : All Rates in Figures and in words in Rupees.

Sl.No.	Description & specification	Quantity	Unit	Delivery Terms	Rate per Unit	Taxes & Duties	Packing & Forwarding	Total Rate per unit	Total Value