Tender Name: Annual Operation and Comprehensive Maintenance Contract of HVAC, Cold room & Clean room of

Ice Core Laboratory at NCAOR

NATIONAL CENTRE FOR ANTARCTIC & OCEAN RESEARCH

Headland Sada, Vasco-da-Gama, Goa - 403 804

NOTICE INVITING TENDER

Tender No: NCAOR/EST/EE/02/14-15

The Director, NCAOR, Goa invites sealed tender in one (single) cover system for the below mentioned work from registered contractors of Government/PSU/Reputed Organizations & should have carried out HVAC maintenance work valuing minimum of Rs.4.00 lakh in a single contract for one year during last five years.

Description of work	Tender Cost	EMD
Annual Operation and Comprehensive Maintenance Contract of HVAC, Cold room & Clean room of Ice Core Laboratory at NCAOR.	1000/-	55,000/-

The tender document & other details may be obtained from the Estate Division, NCAOR on all working days between 10.00 hrs to 16.00 hrs on or before 01.12.2014 by a written request along with the tender cost in form of DD drawn in favour of NCAOR, Vasco-da-Gama. Tender document can also be down loaded from NCAOR Website www.ncaor.gov.in and submitted along with the cost of tender document in form of DD drawn in favour of NCAOR, Vasco-da-Gama. Tender duly completed in all respect should be dropped in the tender box kept in the office of Estate Section on or before 02.12.2014, 11.00 hrs. Date of opening of tender is 02.12.2014 at 11.30 hrs. in presence of the tenderers, if any.

DIRECTOR

Tender Name: Annual Operation and Comprehensive Maintenance Contract of HVAC, Cold room & Clean room of

Ice Core Laboratory at NCAOR

NATIONAL CENTRE FOR ANTARCTIC & OCEAN RESEARCH

(An Autonomous Society under the Ministry of Earth Science)

HEADLAND SADA, VASCO-DA-GAMA, GOA – 403 804

Tender Document for Annual Operation and Comprehensive Maintenance Contract of HVAC, Cold room & Clean room of Ice Core Laboratory at NCAOR

Tender No.: NCAOR/ EST/EE/02/14-15

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Tender Name: Annual Operation and Comprehensive Maintenance Contract of HVAC, Cold room & Clean room of

Ice Core Laboratory at NCAOR

ANNEXURE - I

TENDER TERMS AND CONDITIONS

- 1. The Director, NCAOR, Goa invites sealed tenders in one cover system (Technical & price bid) for the below mentioned work from registered contractors of Government/PSU/Reputed Organizations & should have carried out HVAC maintenance work valuing minimum of Rs.4.00 lakh in a single contract for one year during last five years.
- 2. The contractor who is either terminated or black listed from any institute or who has been denied / not granted extension of the contract by NCAOR or any other institute for poor/non satisfactory performance is not eligible for this tender.
- 3. The Contract period is initially for ONE YEAR extendable on yearly basis for a further period of Two Years on the same Rates, Terms & Conditions of the agreement based on the satisfactory performance assessed by NCAOR. THE CONTRACT SHALL START W.E.F. 01.01.2015.
- 4 Tenders may be obtained from the office of Estate Section, NCAOR during office hours between 10.00 hrs. to 16.00 hrs, on a written request, on payment of Rs. 1000/- by Demand Draft drawn in favour of NCAOR, payable at Vasco-da-Gama, Goa, on or before 01.12.2014. Those who are submitting tender by downloading from the web site should invariably enclose DD for Rs.1000/- as cost of tender document, drawn in favour of NCAOR, payable at Vasco-Da-Gama, Goa.
- 5 Entire tender document (signed and stamped on all pages) should be submitted in a sealed cover, super scribed with the name of the work, date and time of opening. Tenders will be received upto 11.00 a.m. on 02.12.2014 and will be opened at 11.30 a.m. on the same day. Tenders should be dropped in the tender box kept in the Estate Section before the closing date and time indicated. In case Tenders are sent by post/courier it should be addressed to The Director, NCAOR, Goa. Tenderers are to ensure that they post the tender well in advance so as to reach before the closing time and date. NCAOR will not be responsible for any transitional delay. If the Tender Opening day happens to be a holiday then tenders will be opened on the next working day on the same time.
- 6 The Earnest Money Deposit (EMD) for Rs. 55,000/- (Rupees Fifty FiveThousand only) in the form of a Demand Draft from a schedule bank, drawn in favour of NCAOR, payable at Vasco-Da-Gama, Goa should be enclosed with the tender documents. Tender received without EMD will be rejected outright.
- 7 The successful bidder should have to deposit 10% of awarded contract value as SECURITY DEPOSIT. The security Deposit will be refunded on completion of the contract period. In the event of contractor fails to comply the terms and conditions of the awarded contract during the contract period, the Security Deposit will be forfeited. The EMD amount of Rs. 55,000/- will be converted in to Security Deposit. The balance amount of required Security Deposit should be submitted within 8 days of award of contract by DD drawn on NCAOR payable at Vasco-da-Gama.
- 8 It is mandatory to quote all items of the price bid. If all items are not quoted then tender is liable for rejection.
- 9 NCAOR does not bind to accept the lowest or any tender and reserves the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rates quoted.

Tender Name: Annual Operation and Comprehensive Maintenance Contract of HVAC, Cold room & Clean room of

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10 Tender submitted shall remain valid for 90 days from the date of opening for the purpose of acceptance and award of work. The extension of validity beyond 90 days from the date of opening shall be by mutual consent.

11 The Tenderer shall quote rates both in figures and words against each items. Correction, cutting, omission, overwriting should be avoided. However even if any correction made, it should be endorsed with signature. Use of correction fluid is not allowed & should be strictly avoided.

On checking if there are differences noticed between the rates quoted by the tenderer in words and figures or in the amount worked out by him, the following procedure will be followed:

- (a) If there is a difference between the amount of rate in figure and in words of an item, and the total amount is worked out, then the rate which corresponds to the amount worked by the bidder shall be taken as correct. (b) If the bidder has not worked out the amount of an item, or the same does not correspond with the rates written either in figures or in words, then the rate quoted by him in words shall be taken as correct. (c) If the rate quoted by the bidder in figures and in words tallies, but the amount is not worked out correctly, the rate quoted by the bidder shall be taken as correct and not the amount.
- 12 Before submission of tender, the bidder should inspect the site to acquaint himself about the condition in regard to accessibility of site, nature and extent of ground, working condition of site and locality including stacking of materials, installations of tools and plants (T&P) etc., conditions affecting accommodations and movement of labour etc. required for the satisfactory execution of work contract. No claim whatsoever on such account shall be entertained by NCAOR under any circumstances. Site Visit form (Annexure –VIII) should be filled, signed & enclosed with the tender.
- 13 Except writing rates and amount, the tenderer should not write any conditions or make any changes, additions, alterations and modifications in the Price Schedule of tender. Tenders with conditional prices will not be considered.
- 14 Rates should be inclusive of statutory benefit ESI, PF, etc. as applicable from time to time.
- 15 To assist the process of examination, evaluation and comparison NCAOR may ask the bidder individually for clarification if so required.
- 16 In the event of any tenderer withdrawing/modifying his tender during the validity of tender, EMD of such bidders will be forfeited.
- 17 Successful bidder should commence the work as within 15 days from the date of issuance of Work Order, failure of which the Earnest money will be forfeited.
- 18 Director, NCAOR reserves the right to accept or reject any or all quotations/tenders in full or part, or the right to, not to accept lowest offer, without assigning any reasons thereof, whatsoever. In case of any dispute, Director, NCAOR decision in the matter shall be final and legally binding on the tenderer / contractor.

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Tender Name: Annual Operation and Comprehensive Maintenance Contract of HVAC, Cold room & Clean room of

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ANNEXURE - II

SCOPE OF WORK

Comprehensive Annual Maintenance of HVAC, Walk -in –freezer room with refrigeration equipment, Clean room, Air Shower and related installations at NCAOR

- 1. Continuous Operation and Comprehensive Maintenance of ice core lab (Walk-in-Freezer rooms maintained at -20°C x 2, -15°C & -5°C) & associated clean room, HVAC, etc.
- 2. The Walk-in-Freezer room will be housing highly critical ice samples from Antarctica and will have to be operated continuously on a 24x7 basis.
- 3. The HVAC and clean room systems need to be operated on all days for at least 12 hrs per day, or as per the requirement of the research work at the labs on recommendation from P.D.Labs.
- 4. The comprehensive AMC will be carried out systematically. The Class 100 Clean Room Temp. should be maintained at 24°C (+/- 1°C) and accordingly the activity chart as per schedule enclosed should be maintained by the contractor through his/her agency for the entire satisfaction of NCAOR. The AMC activity charts should be produced on demand as well to be submitted along with the monthly bill.
- 5. Maintenance register and all log books consisting of, (Room temperature of all the rooms/Cold room & HVAC Log book voltage/ampere of machine etc.), and submit weekly report.
- 6. Air filter for all the machines to be cleaned regularly at certain intervals for the better cooling system and to avoid low pressure tripping relay.
- 7. Any fault in the system, should be repaired immediately and to be reported to Electrical Engineer or Estate In-Charge / P.D.Labs NCAOR immediately.
- 8. Only qualified and authorized operator/technicians may be allowed to operate and maintain the system.
- 9. Repair the system immediately and replace the unserviceable electrical/mechanical parts with new one as per the requirement. The contractor/agency should maintain stock of all essential parts, components, spares & consumables for safe maintenance.
- 10. If there is any fault in the electrical cable lines/wiring of the control pannels or any other electrical/mechanical problems, the party shall attend and replace the same immediately.
- 11. The electrical faults at sub-distribution panel for HVAC plant and cold rooms should be attended and rectified by the contractor immediately. The failed panel parts should be replaced by the contractor.
- 12. The comprehensive AMC contract is 24 hours a day, 7 days a week and year round.
- 13. All stand by equipments to be operated as per mutually agreed programme.
- 14. Proper housekeeping of all areas which are under the contract. Maintenance of the corridors and clean room.
- 15. The clean room HEPA filters should be maintained in such a way that the class 100 room complies to its certification.

Tender Name: Annual Operation and Comprehensive Maintenance Contract of HVAC, Cold room & Clean room of

Ice Core Laboratory at NCAOR

ANNEXURE - III

TERMS & CONDITIONS FOR OPERATION & MAINTENANCE

- 1) The cold room or walk-in-freezer room in NCAOR is made to preserve precious samples from Antarctic & Arctic region for the purpose of research. Therefore, its smooth & non-stop functioning on 24 x 7 throughout the year is an important aspect of this contract.
- 2) The contract is comprehensive including all labour and all major- minor electrical & mechanical parts, consumables, wear & tear items, coils, relays, gas filling, lubricants etc. but it is excluding new Compressors & Hepa Filters. However, in case if any compressor fails, the contractor will have to immediately arrange a temporary standby compressor of the same capacity at his own cost till the original one gets repaired by him or purchase of new Compressor by NCAOR if the original one is beyond repairs, as certified by the NCAOR Engineer.
- 3) The contract is initially for a period of one year, which is extendable up to next 2 years on yearly basis depending upon the performance of the contractor, on the same rates and terms and conditions.
- 4) All welfare measures of the contractor's personnel will have to be borne by the contractor only.
- 5) The NCAOR will not provide any accommodation and transportation facilities to contractor's persons.
- Any lapse of the duty from the part of operation & maintenance as well as any damage of official equipment will be taken very seriously and the loss will be made good by the contractor. **AND** in the event of any loss, damage, theft or encroachment of the NCAOR property, due to negligence of the work / duty etc. the agency shall indemnify the NCAOR and reimburse the actual loss so caused.
- 7) The contractor shall be responsible for compliance with the provision of the Contract Labour Act including Contract Labour Registration and Abolition Act, 1970, the Indian Contract Act: The Industrial Disputes Act 1947: The payment of wages Act: The minimum wages Act etc.
- 8) The contractor shall be deemed to have satisfied himself before entering into the contract as to the correctness and sufficiency of his offer for the work and of the rates and prices quoted in the schedule of works. These rates and prices shall cover all his obligations under the contract and all matters and things necessary for proper completion and maintenance of work.
- 9) The contractor at his own cost should arrange the sitting arrangement for the staff engaged by him. The space, water, electricity shall be made available by NCAOR at free of cost.
- 10) The Contractor has to keep all the equipment neat and clean at site to avoid any accident or fire hazards.
- 11) All operation and maintenance work should be documented as per ISO standards. All data loggers and instruments like temperature sensors, airflow meters, etc should be calibrated at every 6 months and data log should be maintained.
- 12) The contractor should have round the clock contact telephone numbers of its responsible persons. In case of any emergency, contractor and authorized engineer/supervisor should make themselves available at site on a short notice and make all efforts to make the situation normal at the earliest, by taking all possible precautionary measures.
- 13) To facilitate the proper and smooth functioning of the comprehensive AMC, the contractor should have a local office in Goa, with competetent technical/service personnel. All repair should be made at the NCAOR premises as much as possible. In case any parts has to be taken outside NCAOR for repair, then the same should be taken by a written request and issue of necessary gate pass. The contractor shall replace/return the parts within two working days.
- 14) The trained persons should be placed round the clock at site who could take initial steps under emergency situation.

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15) A complaint book shall be kept up to date at site (separate for each component of work) by the contractor and the same shall be made available for checking and verification.

- 16) The contractor shall visit and inspect and also depute competent person to supervise above detailed maintenance day to day work by employing,
 - a) ONE no. of Qualified Diploma Holder (3 years course) Engineer as Supervisor having minimum 3 years experience in HVAC maintenance, for 8 hours duty during office hours (on all days except on Sundays)
 - b) THREE nos. of Qualified ITI Technicians with 3 years of experience in HVAC/AHU maintenance (each one on shift basis for 8 hrs duty for 24 hrs.)
 - c) THREE nos. of Qualified ITI Technicians having minimum 1 years experience in HVAC/AHU/Electrical maintenance (each one on shift basis for 8 hrs duty for 24 hrs).
- 17) NCAOR will not be responsible for death/injury/accident/damage/risk to the said engaged staff by the Agency which may arise out of and in the course of their duties in the NCAOR nor shall NCAOR be liable to pay any damage or compensation to such person or persons or their next of kin and the agency shall be wholly responsible of make good and effect such damage or compensation. In this regard contractor will be wholly responsible, if any injury/death of his person on duty.
- 18) The staff appointed by the contractor shall be under the direct and exclusive control and the supervision of the contractor. However, such staff should comply with the direction and instructions issued by the Estate In-Charge /P.D.Lab or an officer appointed by the Director, NCAOR. The staff also deployed shall be specifically for the work of NCAOR and shall not be allowed to take any other work, contract or sub-contract during this period/contract.
- 19) The Contractor shall have all necessary equipments at its own expenses necessary for operation & maintenance and also safeguarding the NCAOR premises. At any point of time, it shall not be the responsibility of the NCAOR to bear these expenses.
- The NCAOR shall have the exclusive right to terminate the services of any person appointed by the contractor if found unsatisfactory and ask the contractor to provide other substitute qualified person. The decision of NCAOR in this regard shall be final and binding on the Contractor at any point of time. The duty roaster for a month with the names of the Contractor staff shall be provided by the Contractor to the NCAOR one-week in advance.
- 21) Contractor should provide Photo Identity Cards to all their employees. The contractor at the time of appointing the different personnel and at the time of changing the personnel shall provide to NCAOR, personnel bio-data in respect of each of such personnel duly signed by the Proprietor of the Contractor in a format duly approved by NCAOR.
- 22) The Contractor shall provide proper all safety gadgets like shock/heat resistant Hand Gloves, Safety shoes, Raincoats, Torches etc. to the each staff. engaged by him during Operation and Maintenance services at site.
- 23) The contractor's staff should attend their duties in pre-approved uniform code. The contractor should provide them sufficient pair of uniforms & safety shoes at his own cost. The material of uniform is generally natural cotton.
- If at any course of time, any personnel of the contractor found absent from the duty, the payment of the respective personnel will be deducted on pro-rata basis of the quoted rate. In the unforeseen case of non performance or performance below par, the contractor/agency would be heavily fined as decided by NCAOR authorities. Any such decisions would be binding on the agency/contractor The Agency shall carry out the said work of providing Maintenance service and Operation measures and maintaining checking of the NCAOR said work round the clock including weekly off days and holidays, diligently and to the satisfaction of the NCAOR.

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ANNEXURE - IV

Standard Terms and Conditions of the Contract

1. INTERPRETATION:

- a. In construing these conditions the Specifications, the Schedule of Quantities, additional Conditions and Agreement, the following words shall have the meanings herein assigned to them except where the subject or context otherwise requires.
- b. This contract shall comprise of the Articles of Agreement, General Conditions of Contract, Additional Conditions, Scope of Work, the Schedule of Quantities, Specifications, drawings, letter of acceptance of tender and other documents mentioned in the contents sheet attached hereto and including those to which only reference is made herein.

WORK OR WORKS: shall mean all work or works defined in schedule of quantities. Specifications and such other work or works as the contractor may be entrusted with for carrying out under this contract.

EMPLOYER: shall mean the Director, NCAOR (National Centre for Antarctic & Ocean Research) or any Officer authorized by the Director for the purpose.

ENGINEER: shall mean the Engineer designated by the Employer to superintend and perform other duties as indicated in the contract.

CONTRACTOR: shall mean an individual or Firm or Company , whether incorporated or not, undertaking the work and shall include the legal personal representative or such individual or the persons composing such Firm or Company or the successors of such Firm or Company and the permitted assignees of such individual or Firm or Firms or Company. The Contractor is also called Party or Agency.

SITE: shall mean the site of the contract works including any buildings and erections thereon and any other land adjoining thereto (inclusive) as aforesaid allotted by the Employer or the Engineer for the contractor's use.

CONTRACTOR TO PROVIDE EVERYTHING NECESSARY

a. The contractor shall provide at his own cost all materials, (except such materials, if any as may in accordance with the contract, be supplied by the Employer). Plants , tools , appliances, implements, ladders, scaffolding, temporary works etc. requisite for the proper execution of the work whether original, altered or substituted and whether included in the specifications or other documents forming part of the contract or which may be necessary for the purpose of satisfying or complying to the requirements of Engineer, as to any manner as to which under these conditions he is entitled to be satisfied together with carriage therefore to and from the work. The contractor shall also supply without charge the requisite number of persons with means and materials necessary for the purpose of setting out works and counting, weighing and assisting in the measurement or examination at any time and from time to time of the work or materials. Failing his so doing, the same may be provided by the Engineer at the expense of the contractor and the expenses may be deducted from any money due to the contractor under the contract and /or from his Security Deposit.

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b. The Contractor should personally supervise each work till completion or may appoint a qualified Supervisor, pre-approved by the Engineer till the completion of work. No separate supervision charges will be paid.

- c. NCAOR shall provide requisite quantity of water, electricity for carrying out the work free of cost, subject to availability in the NCAOR campus.
- d. The Employer on no account shall be responsible for the expenses incurred by the contractor for anything hired, which the contractor needs to complete the ordered work.
- 2. **LABOUR LAW**: The contractor shall submit a valid license under the Contract Labour (R&A) Act 1970 and the Contract Labour (Regulation & Abolition) Central Rules 1971 before the commencement of work and continue to have valid license during the currency of the contract. The contractor to follow,
 - a) Contract Labour (Regulation and Abolition) Act 1970
 - b) Payment of Wages Act 1956
 - c) Employment of Children's Act 1923
 - d) Minimum Wages Act
 - e) Employee Provident Fund Act 1952 and scheme made under said Act.
 - f) Obtain required licenses/clearances etc. from Assistant Labour Commissioner, Municipality and other local agencies/bodies at his own cost, wherever necessary. And any other existing laws in this regards.
- 3. SAFETY: Contractor shall be fully responsible for any injury (whether fatal or otherwise) to his representatives/service personnel, for any loss or damage to property or for any other loss, damage, costs and expenses whatsoever caused during visits to the site for the purpose of maintenance and to be liable to indemnify the NCAOR against any claim that may arise for any damage or loss to NCAOR property or injury caused to NCAOR.

4. RENEWAL/TERMINATION OF THE CONTRACT

- a. The Contract period is Twelve Months extendable on yearly basis for a further period of Two Years with the same rate & same terms & conditions of the agreement based on the satisfactory performance assessed by NCAOR.
- b. The work performance of the contractors & individuals service providers will be assessed periodically and if the same is found unsatisfactory the contractor should immediately replace the service provider / work force.
- c. If the Contractor is found to be not performing satisfactorily during the course of the Contract period, or refuses to do the work or any part of the work or becomes bankrupt or knowingly submits a false statement then NCAOR will terminate the contract without any liability at any stage & the security deposit will be forfeited.

5. **DUTIES & TAXES:**

Rates quoted by the contractor shall include all duties, octroi, toll tax, levies, royalties and all other taxes in respect of this contract. VAT or other tax/charges if any is to be stated specifically in the prescribed columns of the price bid. In absence of any such stipulation, it will be presumed that rates quoted are inclusive of VAT or any other applicable taxes/charges & Employer shall not entertain any claim whatsoever in this respect.

Service Tax in % is to be indicated separately. Service Tax Extra as applicable from time to time shall be paid/reimbursed extra by the NCAOR to the contractor against submission of proof. The contractor should pay the full applicable service tax and submit documentary proof for reimbursement.

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6. MODE OF PAYMENT

Bills for payment will be processed on monthly basis. Payment will be released within one month from the receipt of bill in duplicate, after completion of satisfactory work duly certified by PD-Labs & Estate In-Charge. Tax Deducted at Source and any other taxes as applicable will be deducted from the bills.

7. TESTING OF MATERIALS

The contractor shall provide assistance, instruments, materials, labour and any other arrangement normally required for testing, checking of materials and workmanship as stipulated in nt the testing authorities. The contractor shall pay for the cost of test samples, its packing, transportation including testing fees. Failing his so doing the same shall be provided by the Engineer at the expense of the contractor and the expenses may be deducted from any money due to the contractor under the contract and/or from the Security Deposit or proceeds thereof or of a sufficient portion thereof.

8. CONTRACTOR'S ENGINEERS/FOREMAN & WORKMEN

- a. The contractor shall give all necessary personal superintendence during the execution of the work and as long thereafter as the Engineer may consider necessary until the expiration of the Defects Liability Period. The contractor shall employ competent Site-Engineer/Foreman as per CPWD norms and as approved by the Engineer whose qualification must conform to the requirement specified by the Engineer who shall be constantly in attendance of the work while the men are at work. Any directions, explanations, instructions or notices given by the Engineer to such Site-Engineer or Foreman or any other authorized agent shall be held to be given to the contractor.
- b. The contractor shall on the request of the Engineer immediately dismiss from the works any person employed thereon who may in the opinion of the Engineer be unsuitable or incompetent or who may in the opinion of the Employer misconduct himself.

9. ACCESS

- a. The Engineer and the Employer or its representative shall at all reasonable time have free access to the works and /or workshops, factories or other places the materials are being prepared or constructed for the contract and also to any place where the materials are lying or from which they are being obtained and the contractor shall give every facility to them for inspection. Except the representatives of statutory authorities and those mentioned above no 1other person shall be allowed on the works at any time without the permission of the Engineer.
- b. If any work is to be done at a place other than the site of works, contractor shall obtain written permission of the Engineer.

10. VALUATION & PRICE FOR VARIATION

a. The Engineer with the approval of the Employer shall have power to make any alterations/omissions/additions and /or substitutions from the original specifications, drawings, designs and written instructions and such alterations, omissions, additions, substitutions shall not invalidate the contract and any altered, additional, or substituted work which the contractor may be directed to do, in the manner specified above as part of the work shall be carried out by the contractor on the same conditions in all respects on which he agreed to do the main work. The rates for such altered additional or substituted work under this clause shall be worked out in accordance with the following provisions in their respective order.

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b. If the rates for the altered, additional, or substituted work are specified in the contract for the work the contractor is bound to carry out the altered additional, or substituted work at the same rates as are specified in the contract for the work.

- c. If the rates for the altered, additional or substituted work are not specifically provided in the contract for the work the rates will be derived from the rates for a similar class of work as are specified in the contract for the work.
- d. Under no circumstances the contractor shall suspend the work on the plea of non-settlement of rates of items falling under the clause.

11. FAULTY MATERIALS, WORKMANSHIP & DEFECTS AFTER COMPLETION

- a. The Engineer shall have powers to require the removal from the site of all materials and work, which in his opinion are not in accordance with specifications, quality and in case of default, the Engineer shall be at liberty to employ other persons to remove the same without being answerable or accountable for any loss or damage that may happen or arise to such materials to be substituted thereof and in case of default the Engineer may cause the same to be supplied and all costs for such removal and/or substitution are to be borne by the contractor.
- b. In lieu of rectifying the work not done in accordance with the contract, the Employer may, allow such work to remain, and in that case make allowance for the difference in value, together with such further reduction as in his opinion may be reasonable.
- c. Provided always that nothing in this clause shall relieve the contractor from his liability to execute the works in all respects in accordance with the terms and conditions of this contract, or from his liability to make good all defects.

12. **INSPECTION OF WORKS:**

- a. All work under or in course of execution or executed in pursuance of the contract shall at all times should be opened to the inspection and supervision of the Engineer and the contractor shall at all times during the usual working hours, and at all other times at which reasonable notice of the intention of the Engineer to visit the works shall have been given to the contractor, either himself be present to receive order and instruction or have a responsible agent duly accredited in writing present for that purpose.
- b. The contractor shall give not less than seven days notice in writing to the Engineer before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimensions thereof be taken before the same is so covered up or placed beyond the reach of measurement and shall not cover up and place beyond the reach of measurement, any work without the consent in writing of the Engineer and the Engineer shall within the aforesaid period of seven days inspect the work , and if any work shall be covered up or placed beyond the reach of measurement without such which the same was executed.

13. INDEMNIFYING AGAINST DAMAGES TO PERSONS, PROPERTY & STATUTES

The contractor shall take all precautions to avoid all accidents by exhibiting necessary caution boards day and night, speed limit boards, red flags, red lights and providing barriers. He shall be responsible for all damages and accidents caused due to negligence on his part. No hindrance shall be caused to traffic during the execution of work.

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a. The contractor shall be responsible for all injury to persons, animals or things and for all damage whether such injury or damage arises from carelessness or accident in any way connected therewith. This clause shall be held to include interalia any damage due to causes as aforesaid to work, building(whether immediately adjacent or otherwise) and to roads, streets, foothpaths, bridges or ways as well as all damage caused to the buildings and works forming the subject of this contract by inclemency of weather. The contractor indemnifies the Employer and holds him harmless in respect of all expenses arising from such injury or damages as aforesaid and also in respect of any award of compensation or damage consequent.

- b. The contractor shall reinstate all damage of every sort mentioned in this clause so as to deliver the whole of the contracted works complete and perfect in every respect and so as to make good and otherwise satisfy all claims for damage as foresaid to the property of third Parties.
- c. The contractor also indemnifies the Employer against all claim which may be made upon the Employer for acts during the currency of this contract by any employee or representative of an employee of the contractor or any sub-contractors, employed by him for any injury to or loss of life of such employees or for compensation payable under any law for the time being in force to any workmen or to the representative of any deceased or incapacitated workmen.
- d. The Employer shall be at liberty and is hereby empowered to deduct the amount of any damages compensation costs charges and /or expenses arising or occurring from or in respect of any such claim and/or damages as aforesaid from any sum or sums due or to become due to the contractor or security deposit.
- e. The contractor shall indemnify the Employer against any action claim or proceedings relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claims made under or action brought against the Employer in respect of any such matters as aforesaid the contractor shall be immediately notified thereof and the contractor shall be at liberty at his own expense to settle any dispute or to conduct any litigation that may arise there from provided that the contractor shall not be liable to indemnify the Employer if the infringement of the: patent or design of any alleged patent or design right is the direct result of an order passed by the said Employer or his authorized representative.

14. IN CASE OF DEATH OF CONTRACTOR

Without prejudice to any of the rights or remedies under this contract, if the contractor dies the Employer shall have the option of terminating the contract without compensation to the contractor.

15. SUB. CONTRACTORS

The Employer reserves the right to use the premises and any portion of the site for the execution of any work not included in the contract. The contractor is to afford all reasonable facilities to all sub-contractors, specialists, merchants, tradesmen and others who may at any time be appointed by the Employer for executing any work or supplying any goods relating to the constructions, servicing, equipping or furnishing of the work under this contract.

Tender Name: Annual Operation and Comprehensive Maintenance Contract of HVAC, Cold room & Clean room of

Ice Core Laboratory at NCAOR

16. COMPLIANCE TO LABOUR LAWS

The contractor shall submit a valid license under the contract labour (R&A) act 1970 and the contract labour (Regulation & Abolition) Central Rules 1971 before the commencement of work and continue to have valid license during the currency of the contract.

The contractor shall comply with all the provisions of the Minimum Wages Act, 1948. Contract Labour (Regulation and Abolition) Act, 1970 and rules and orders framed there under and other labour laws affecting contract labour and the rules and orders framed there under that may be in force or brought into force from time to time. NCAOR will not take any responsibilities towards any injury or compensation etc.

The contractor shall engage his own labour as per requirement of the tender and shall abide/comply by all the labour rules or any other laws/acts, which may be applicable, enforced from time to time.

Contract labour (Regulation and Abolition) Act 1970

- a. Payment of wages Act 1956
- b. Employment of children's Act 1923
- c. Minimum wages Act
- d. Employee provident Fund Act 1952 and scheme made under said Act
- e. Obtain required licenses/clearances etc. from Asst. Labour Commissioner, municipality and other local agencies/bodies at his own cost, wherever necessary.

SAFETY: Contractor shall be fully responsible for the safety of equipment and safety of personnel involved with contract.

17. PENALTY CLAUSE

(a) For non deployment of Personnel 5 % of the total monthly contract amount would be levied as penalty if full strength of agreed personnel are not present for continuous 03 days in one month. (b) For non performance 5 % of the total monthly contract amount would be levied as penalty. (c) The penalty to be imposed is @5% but not limited to it. All repairs should be made at the NCAOR premises as much as possible. In case any part has to be taken outside NCAOR for repair, then the same should be taken by a written request against issuance of necessary gate pass. The contractor shall replace/return the parts within two working days. Any delay in conducting maintenance/repair/replacement of critical component which leads to malfunctioning/stoppage of any of the functionaries would be dealt seriously & treated as break-down of the entire system and the entire loss incurred due to this will be recovered from the contractor and decision of NCAOR authorities will be final in such matters.

18. RENEWAL/TERMINATION OF THE CONTRACT

- 1. The contract period is Twelve months extendable on yearly basis for a further period of Two years with the same rate & same terms & conditions of the agreement based on the satisfactory performance assessed by NCAOR.
- 2. The work performance of the contractors & individuals service providers will be assessed periodically and if the same is found unsatisfactory the contractor should immediately replace the service provider/work force.
- 3. If the Contractor is found to be not performing satisfactorily during the course of the contract period, or refuses to do any part of the work or becomes bankrupt then NCAOR shall terminate the contract at any stage with a short notice.

Tender Name: Annual Operation and Comprehensive Maintenance Contract of HVAC, Cold room & Clean room of

Ice Core Laboratory at NCAOR

4. At any point of time during the contract period if any malafide intention of the contractor is observed or if any fake, misleading information is submitted by the contractor then the contract will be terminated immediately & security deposit will be forfeited.

- 19. **GUARANTEE:** On the expiry of the contract, all the units/systems covered under AMC should be handed over to NCAOR in good working condition to the satisfaction of NCAOR Authorities. If any fault found at the time of expiry date, the Security Deposit will be forfeited and other recovery will be made from the contractors side, as per actual damages/losses etc.
- 20. **POST TENDER CORRESPONDENCE / ENQUIRIES:** Any correspondence or enquiry subsequent to opening of the bids is not desirable, if the same is indulged into, it will be considered for disqualifying the tender. The Tenderer will be required to abstain from pursuing / canvassing the matter, directly or indirectly with any Officers of NCAOR, as otherwise the same would also amount to disqualification of the tender. However, bidder can ask their queries in writing regarding bidding conditions, bidding process prior to the bid opening and/ or rejection of its bid, reason for rejecting a tender after opening of bids.
- 21. **SETTLEMENT OF DISPUTES** The decision of the Director, NCAOR shall be final and binding for any dispute whatsoever.
- 22. **RIGHT TO CANCEL TENDER / WORK ORDER (FORCE MAJEURE):** In case of strike, accident or any other unforeseen conditions causing stoppage of work, NCAOR reserves the right to cancel and / or modify the tender / work order without any liability for any compensation and / or claim or any description.
- 23. **JURISDICTION:** All questions, disputes or differences arising under out of or in connection with the Tender / Contract if concluded shall be subject to the exclusive jurisdiction of the court under whose jurisdiction the place from which the tender / Acceptance of tender is issued, is situated i.e.Goa.

-----XXXXXXXXX

I/ We have read all the above Terms and Conditions carefully and agreed to it.

Name & Signature of the Tenderer with seal:

Tender Name: Annual Operation and Comprehensive Maintenance Contract of HVAC, Cold room & Clean room of

Ice Core Laboratory at NCAOR

ANNEXURE – V

SCHEDULE OF WORK & PRICE BID

A	Particulars (Labour)	No. of person nel (a)	Amount per person/ per month (b)	Monthly Amount (Rs (c) (a x b = c)	Amount (Rs) (d) $(c \times 12 \text{ months} = d)$
01	Monthly rate for Qualified Diploma Holder (3 years course) Engineer as Supervisor having minimum 3 years experience in HVAC/AHU maintenance	01			
Amo	unt per person per month (b) in Words -				
02	Monthly rate for Qualified ITI Technicians with 3 years of experience in HVAC/AHU maintenance	03			
Amoi	ınt per person per month (b) in Words -				
03	Monthly rate for Qualified ITI Technicians having minimum 1 years experience in HVAC/AHU maintenance	03			
Amoi	unt per person per month (b) in Words -		<u>l</u>		
			Taxes if any:	%	
			Other	Charges if any	· :
				Total	:
Sr. B	Particular	s (Materia	al)		YEARLY Amount (Rs)
01	Total Yearly charges for Comprehensi & activity Charts by repair / replacement parts etc. as assessed by the bidder, acc tools, safety equipment, cost of unifietc.	nt of Compe essories, e	onents, consumables, quipment for main	, all spare tenance,	
Year	ly Amount in words -				
			Taxes if any:	%	
		ges if any:			
				Total:	
		G	rand Total (Sr.	$\mathbf{A} + \mathbf{B}$	
			<u> </u>		

^{*} payment will be made monthly on pro-rata basis

Count Total (Co. A., B) in figure (Da.)
Grand Total (Sr. A + B) in figure: (Rs.)
Grand Total (Sr. A+B) in words:
Service Tax Extra :%
Pl. note:
 It is mandatory to quote all items of the Price bid. If the rate quoted for each personnel is less than the existing minimum rates of wages including Variable Dearness Allowance then the bid is liable for rejection. The rate quoted shall be inclusive of wages of his manpower, PF, ESI, Bonus, Labour Welfare fund Contribution, etc. payable by contractor to his employees/Govt. authorities under various labour laws, leave salary, Insurance, overtime, & service charges of contractor, Overheads, Profit etc. Discount offered if any, should be included in the quoted rates & should not be shown separately. Service Tax Extra as above or as applicable from time to time shall be paid/reimbursed extra by the NCAOR to the contractor against submission of proof. The contractor should pay the full applicable service tax and submit documentary proof for reimbursement. Price Evaluation Criteria – The Lowest evaluated Bidder (L1) would be arrived from the Grand Total (Sr. A+B) above.
Ion behalf of
hereby certify that I accept all the terms & conditions laid down in the above tender & the information provided by me is correct & true.
Name & Signature of the tenderer :
with Date & Seal :

Tender Name: Annual Operation and Comprehensive Maintenance Contract of HVAC, Cold room & Clean room of Ice Core Laboratory at NCAOR

Tender No : NCAOR/EST/EE/02/14-15

Tender Name: Annual Operation and Comprehensive Maintenance Contract of HVAC, Cold room & Clean room of

Ice Core Laboratory at NCAOR

ANNEXURE - VI

PARTICULARS OF THE TENDERER

(Tenderer shall fill this form an	nd enclose it with original copy of the tender with his sign)
Name of the Contractor	:
Firm of Contractor	:
Telephone No. (Office)	:
Telephone No. (Residence)	:
e-mail ID / website	:
Permanent office Address	:
	:
Goa office Address	:
	:
Residential Address	:
Mobile No	:
PAN No. of the Firm	:
REC	GISTRATION PARTICULARS
a) Registration with	:
b) Registration No.	:
c) Financial limit upto which re	egistered:
d) Trade for which registered	:
(Note: Copy of Registratio	n should be attached.)
	Name: & Signature of the Tenderer with Seal

Tender Name: Annual Operation and Comprehensive Maintenance Contract of HVAC, Cold room & Clean room of

Ice Core Laboratory at NCAOR

ANNEXURE – VII

WORK COMPLETION PROFORMA

Give the details of HVAC/Clean room/Cold room contracts which was/is completed satisfactorily/in progress in the last five years, which are related to this tendered work. Enclose self certified copies of Work Orders /Work Completion Certificates.

Sl.	Name of work	Location of	Value	Date of	Name of
No.	Name of work	Site	of	Completion	Organizational
INO.		Site		Completion	Evacutive under
			work	of work	Executive under
					whom work is done

Name:

& Signature of the Tenderer with Seal

Tender Name: Annual Operation and Comprehensive Maintenance Contract of HVAC, Cold room & Clean room of Ice Core Laboratory at NCAOR

ANNEXURE - VIII

DECLARATION

I]	I/we hereby declare that
	myself & my/our firmwas
	never terminated / Black Listed from any organization & also, we have never
	been denied/rejected extension of contract due to poor, non satisfactory
	performance.
II]	I / We have visited NCAOR site on (date)
	entire HVAC, Cold Room, Clean Room set up/installations etc. thoroughly to
	my/our satisfaction & ready to undertake the Comprehensive AMC as per the
	Tender terms & conditions.
Name & Signa	ature of the Tenderer:
Date & Seal :	

Tender Name: Annual Operation and Comprehensive Maintenance Contract of HVAC, Cold room & Clean room of

Ice Core Laboratory at NCAOR

ANNEXURE - IX

NATIONAL CENTRE FOR ANTARCTIC & OCEAN RESEARCH HEADLAND SADA, VASCO-DA-GAMA, GOA - 403 804

EMD & Tender Cost details

1/	we have enclosed,
1.	A crossed DD No dated for Rs. 55,000/-
	(Rs. Fifty Five Thousand only) drawn in favour of NCAOR payable at Vasco-da-Gama
	towards EMD.
2.	Since Tender Form is downloaded from NCAOR website,
	A crossed DD No dated for Rs. 1000/-
	(Rs. One Thousand Only) drawn in favour of NCAOR payable at Vasco-da-Gama
	towards Tender Cost.
	Name & Signature of the Tenderer with seal :
	D. C.
	Date

Tender Name: Annual Operation and Comprehensive Maintenance Contract of HVAC, Cold room & Clean room of

Ice Core Laboratory at NCAOR

ANNEXURE - X

<u>List of Equipments at NCAOR –Goa</u>

- 1. Cooling Tower (Paharpur) Model 3831
- 2. Cooling Tower (Paharpur) Model 3842
- 3. Voltas Chiller Unit 1 With Motor capacity 60HP Make-ABB, Compressor unit of Voltas. Model WCDRO500MNSRPZ
- 4. Voltas Chiller 2 With Motor capacity 60HP Make-ABB ,Compressor unit of Voltas.Model WCDRO500MNSRPZ
- 5. Voltas Chiller Unit for Clean Room with Copeland Scroll compressor Model WCDSO36MN600006
- 6. AHU 4 Saveair 1200 cfm
- 7. AHU 6 Saveair 2000 cfm
- 8. AHU 3 Saveair 2750 cfm
- 9. AHU 5 Saveair 7000 cfm
- 10. AHU 2 Saveair 12000 cfm
- 11. AHU 1 Saveair 16000 cfm
- 12. Pump Motor- 3 HP Make-Kirloskar Monoblock, Model No. KDS -335 (4 nos.)
- 13. Pump Motor-5 HP Make-Kirloskar Monoblock, Model No. KDS -527 (2 nos.)
- 14. Pump Motor 7 HP Make-Kirloskar Monoblock, Model No. KDS -844 (2 nos.)
- 15. Pump Motor 2 HP Make-Kirloskar Monoblock, Model No. KDS -225 (2 nos.)
- 16. Humidifier -Sant Industrial Controls 6KW
- 17. Hot Water Generator- Type Vertical Capacity 21 KW
- 18. GM Balancing Valve TAG-A-02000842(20 mm)
- 19. GM Balancing Valve TAG-A-0200972 (20 mm)
- 20. GM Balancing Valve TAG-A-0201961 (20 mm)
- 21. GM Balancing Valve TAG-A-0401373(32 mm)
- 22. GM Balancing Valve TAG-A-0603243 (50mm)
- 23. CI Balancing Valve size NB- 100 mm -2 Nos.
- 24. CI Balancing Valve size NB-125 mm 2 Nos.
- 25. GM Balancing Valve size NB -50 mm TAGA 602593
- 26. GM Balancing Valve size NB- 65 mm TAG -0701393
- 27. GM Balancing Valve Tag No.A0200642- 20mm
- 28. Dual plate check valve
- 29. Dual plate check valve
- 30. Dual plate check valve
- 31. Butterfly valve
- 32. Cold Room Condensing units(Indoor & outdoor- 8 sets) -5°C, -15°C & -20°C (2 nos)

Indoor Units: PASURUAH 67154 (PT. GUNTNER INDONESIA)

CR-1: Fan type-Z.A. FANFB045-VSK.4C.6L (107123) (2 nos.)

CR-2: Fan type-EBMFAN S4E350-AA06-34 (2 nos.)

CR-3: Fan type-EBMFAN S4E315-AA05-14 (2 nos.)

CR-4 :Fan type-Z.A. FANFB045-VSK.4C.6L (107123) (2 nos.)

Outdoor Units: Compressor type-Semi-Hermetic (Make-Bitzer)

CR-1: Capacity 4.31 KW (2 nos.)

CR-2: Capacity 3.15 KW (2 nos.)

CR-3: Capacity 2.14 KW (2 nos.)

CR-4: Capacity 4.13 KW (2 nos.)

Tender Name: Annual Operation and Comprehensive Maintenance Contract of HVAC, Cold room & Clean room of Ice Core Laboratory at NCAOR

<u> Annexure – XI</u>

ACTIVITY CHART FOR ANNUAL MAINTENANCE OF HVAC AT NCAOR

	T =		Т_	T _									T							T	1	1	T				
SI. No.	Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
1	Weekly																										
а	Air Handling Unit:																										
	Check filter condition																										
	Clean , wash, renew/replace if required																										
	Check Fan Belt tention , adjust if required																										
	Check the condition of spray nozzles and float valve in air washer																										
	Check condition of drains for free flow																										
	Check condition of resistance in electric pan humidifier																										
	Check conditions of access door hinges and lubricate if necessary																										
b	Lights																										
	Check fittings . Replace fused starters/Chokes bulbs as required and terminals																										
	Condensing unit																										
С	For 30 TR Capacity																										
	Check amperage/Voltage																										
	Check LP and HP Cut cut settings																										
	For 50 TR Capacity																										
	Check amperage/Voltage																										
	Check LP and HP Cut out settings																										

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Tender Name: Annual Operation and Comprehensive Maintenance Contract of HVAC, Cold room & Clean room of Ice Core Laboratory at NCAOR

SI. No.	Description	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
1	Weekly																										
а	Air Handling Unit:																										
	Check filter condition																										
	Clean , wash, renew/replace if required																										
	Check Fan Belt tention , adjust if required																										
	Check the condition of spray nozzles and float valve in air washer																										
	Check condition of drains for free flow																										
	Check condition of resistance in electric pan humidifier																										
	Check conditions of access door hinges and lubricate if necessary																										
b	Lights																										
	Check fittings . Replace fused starters/Chokes bulbs as required and terminals																										
																										<u> </u>	
С	Condensing unit		-																							 	
	For 30 TR Capacity																									<u> </u>	
	Check amperage/Voltage																									l	
	Check LP and HP Cut cut settings																										
	For 50 TR Capacity																										
	Check amperage/Voltage																										
	Check LP and HP Cut out settings																										

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Tender Name: Annual Operation and Comprehensive Maintenance Contract of HVAC, Cold room & Clean room of Ice Core Laboratory at NCAOR

Sl. No.	Description	Ist Qua	rter		II nd C	uarter		III rd C	Quarter		IV Qua	rter	
		1	2	3	4	5	6	7	8	9	10	11	12
2	Monthly												
а	Valves												
	Check for functioning												
	GM Balancing Valves												
	CI Balancing Valves												
	Dual plate Valve												
	Check plate valve												
	Butterfly Valve												
b	Cooling Tower												
	Cleaning of sumps and cooling tower												
	Checking/ greasing of the cooling tower fan motor bearing												
С	Electrical Control Panels												
	The electrical control panels shall be checked , serviced												
	and maintained for trouble free operation .												
	Check incoming panel and terminals/contactors												
	Individual control panel for AHU- star /Delta Contactors												
	Micro processor Control panel-Check												
	programming/display												
	Electrical panels for Humidifer and termination												
d	Filters												
<u>~</u>	Filters shall be cleaned with compressed air. In case HDPE								1				
	filter water washing only to be done.												

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Tender Name: Annual Operation and Comprehensive Maintenance Contract of HVAC, Cold room & Clean room of Ice Core Laboratory at NCAOR

SI.	Description	Ist Quarter			II nd Quarter			III rd Quarter			IV Quarter		
No.		1	2	3	4	5	6	7	8	9	10	11	12
е	Chiller Units												
	Check operating suction and discharge pressure.												
	Check oil level in the compressor and add oil if required to bring it to the centre of sight glass.												
	Check the proper functioning of TXV by measuring the superheat												
	Check the line voltage and current of compressor. It should be within the design limit permitted. If the current drawn is more than 120% of the specified value, determine the cause and immediately take corrective actions.												
	Check proper functioning of all safety controls-like LP cutout , HP cutout, single phase preventor, water flow switch, anti-freeze thermostat etc.												
	Check the operational of sentronic also by removing the sensor. The LED will turn red immediately and trip the compressor in two minutes. On manually pressing the reset button on the sentronic, the control circuit is reset and after the on-delay timing is completed (either through the motor protection module or additional on delay timer) the compressor should restart												
	Record all the system operating parameters and the range and differential setting of all operating and safety controls for future reference.												
	Monitor the system operation on operating thermostat for few on-off cycles and ensure that everything is normal, before leaving the site.												

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Tender Name: Annual Operation and Comprehensive Maintenance Contract of HVAC, Cold room & Clean room of Ice Core Laboratory at NCAOR

Sl. No.	Description	Ist Quarter			II nd C	Quarter		III rd C	Quarter		IV Qua	IV Quarter			
		1	2	3	4	5	6	7	8	9	10	11	12		
f	Cold Room														
	Check doors for proper functioning														
	Check heaters on door frame/Switches														
g	Bitzer														
	Check evaporating temperature														
	Check suction gas temperature														
	Check condensing temperature														
	Check difference between condensing temperature and air admission temperature into the condenser														
	Discharge gas temperature														
	Check Oil temperature														
	Check switching frequency														
	Check power consumption of the compressor														
	CheCk power consumption of the condenser fan(s)														
h	HOT water Generator														
	Check the electrical Panel for any loose connection etc.														
	Change water, if required or top up.														
i	Humidier														
	Check the electrical Panel for any loose connection etc. change /add water as required														
j	AIR Shower														
	Check Door interlock														
	Check door functioning														
	Check Electricals control panel for loose connections if any														
	Clean Pre fitler														
	Check velocity of air flow														

Tender Name: Annual Operation and Comprehensive Maintenance Contract of HVAC, Cold room & Clean room of Ice Core Laboratory at NCAOR

SI.	Description	Ist Quarter			II nd (Quarter		III rd Quarter			IV Quarter		
No.		1	2	3	4	5	6	7	8	9	10	11	12
3	Quarterly												
а	Water Pumps												
	Routine Check up of pumps, glands etc												
	Lubrication of pumps, motors												
	Check electrical switches, gear ,cables etc.												
b	Air Handling Unit												
	Check fan motor runing current												
	Check function controls												
	Check fan and motor bearings												
	Check electric heater battery elements												
	Check circulating pump and motor in air washer												
	Check the condition of inlet strainers												
	Check the conditions of chilled/ hot water , add chemicals if required.												
	Add water and flush condensate drain pan , trap and drain line												
С	Condensing Unit												
	For 30 TR capacity												
	Check for leakage in refrigerent piping												
	Check cable termination												
	For 50 TR Capacity												
	Check for leakage in refrigerent piping												
	Check cable termination												
4	Yearly												
а	Air Handling Unit												
	Check operation of dampers												
	Check the filter frames for proper sealing												
	Replace synthetic media in panel filters												1
	Check the access doors for easy operation and proper locking												

Tender Name: Annual Operation and Comprehensive Maintenance Contract of HVAC, Cold room & Clean

room of Ice Core Laboratory at NCAOR

ANNEXURE-XII

INSTRUCTIONS TO THE TENDERERS

Tenderers are advised to submit tender strictly as per conditions stipulated in the tender document. Please enclose the following with the tender & submit all in a **Single Sealed Cover**.

Cover (Sealed):

- 1. Covering letter from the Tenderer on his letterhead.
- 2. Tender fee in the form of DD, if down loaded from NCAOR web site.
- 3. EMD in the form of DD
- 4. Price Bid (with signature & stamp on all pages), Annexure V
- 5. Duly signed & stamped Annexure VI, VII, VIII, IX.

All above document to be submitted in one sealed envelope (Single BID SYSTEM) superscribing name of the Tender, Tender Number and address to Director, National Centre for Antarctic & Ocean Research, Headland Sada, Vasco-Da-Gama, Goa & dropped in the tender box kept in the office of Estate Section on or before the date & time mentioned in the tender.

--sd--

Estate In-Charge

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