



Institute of Physics  
Sachivalaya Marg  
Bhubaneswar-751005

NOTICE INVITING TENDER  
Tender No. NIT/IOP/119/2025-26

Name of The Service: “**Repairing of Library 80 TR central AC plant, AHU and Cooling tower and allied system including spare parts at Library building of Institute of Physics Bhubaneswar-751005”**

**PART-A**

**Notice Inviting Tender**



Institute of Physics  
Sachivalaya marg  
Bhubaneswar-751005

**NOTICE INVITING TENDER**  
**Tender N0. NIT/IOP/119/2025-26**

Description of the Services: *“Repairing of Library 80 TR central AC plant, AHU and Cooling tower and allied system including spare parts at Library building of Institute of Physics Bhubaneswar-751005”*

**Estimated Cost** : **Rs.14,17,400/-**  
**excluding taxes .**

**Period of Contract** : 45days

**Earnest Money Deposit** : **Rs.42,522/-**

**Tender Cost** : Nil

**Important dates :**

- (a) Issue of Tender : 26.12.2025
- (b) Last date for submission of tender : 16.01.2026 up to 18.30 hours
- (c) Opening of tender : 17.01.2026 at 18.30 hours

For further details, please refer to the detailed NIT in IOP's website  
[www.iopb.res.in](http://www.iopb.res.in)

**NOTE:**

- (1) Bidders not meeting the eligibility criteria indicated in the detailed NIT need not apply.
- (2) Canvassing in any form shall disqualify the Tenderer in participating in the Tender.

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(REGISTRAR)

SD-  
REGISTRAR  
INSTITUTE OF PHYSICS  
Bhubaneswar



**Institute of Physics  
Sachivalaya Marg  
Bhubaneswar-751005**

**NOTICE INVITING TENDER  
Tender No. NIT/IOP/119/2025-26**

Sealed tenders in two-parts in the prescribed forms are hereby invited by Director, Institute of Physics, Bhubaneswar-751005, for the following work from contractors having adequate experience and capabilities to execute such magnitude of similar works and who have similar experience with different units of Department of Atomic Energy (DAE), Nuclear Power Corporation of India Ltd, Public Sector Undertakings, etc.

**Description: Repairing of Library 80 TR central AC plant, AHU and Cooling tower and allied system including spare parts at Library building of IOP, BBSR.**

- i. **Estimated Cost: Rs.14,17,400/- (Rupees Fourteen Lakh Seventeen Thousand Four Hundred only) excluding Taxes.**
- ii. **Period of Completion: 45 days.**
- iii. **Earnest Money Deposit: Rs.42,522/- (Rupees Forty Two Thousand Five Hundred Twenty Two only)**

**Note: -**

1. Total Earnest Money Deposit (EMD) Rs.42,522/- by way of DD/ banker cheque of a schedule Bank, drawn in favor of "Director Institute of Physics, Bhubaneswar, payable at Bhubaneswar" should accompany the Bid in separate envelop along with Technical Bid. Part Bids received without EMD will be treated as invalid and rejected.
2. Tender document is prepared in two parts viz Part-A (Technical Bid) and Part-B (Price Bid). Part-A consists of the tender document that includes form for tender agreement, conditions of contract, special instructions to the tenderers, technical specifications, tender drawings etc. Part-B consists of Tender Document that gives Schedule of Quantities, list of free issue materials, etc. Submission of application for purchase of tender through CPP portal on or before end date.
  - (a) ***Average annual financial turnover during last 3 years from similar type of works preferably in DAE units should be at least Rs. 14,00,000/- (Rs. Fourteen lakh). This should be duly audited by a registered Chartered Accountant.***
  - (b) Copy of IT Returns and audited balance sheet and profit and Loss statements for the previous five years.
  - (c) Should not have incurred loss in more than two years during the last three years and shall not be under court receivership or under liquidation.
  - (d) Year wise list of works carried out during last 3 years as well as list showing the cost of works in progress.
  - (e) Performance certificates in respect of completed similar works and reasons for delays, if any.

- (f) List of tools and tackles available.
- (g) Proof of having satisfactorily completed works (based on certification of performance by client of the works)

3 (Three) similar works each of value not less than **40% of estimated value p.a.**

Or 2 (Two) similar works each of value not less than **60% of estimated value p.a.**

Or 1 (One) similar work of value not less than **80% of estimated value p.a.**

For this purpose, 'cost of work' shall mean gross value of the completed work **not** including the cost of materials supplied by the Govt./Client, The work completion must not be later than three years. Submission of the proper completion certificate is mandatory.

**Similar works means:** Repairing of 80TR AC Plant or above compressor and chiller unit, AHU and Cooling tower.

The tender documents (Part-A & B) **shall be available from the CPP portal and IOP, web site. A pre-bid meeting will be held on 08.01.2026 at 11:00 hrs at Library Building conference room.**

3. Bidders are requested to fill the rates only in the prescribed format of the price bid in CPP portal. The bidder is required to fill the price bid without taxes. Taxes is payable as per applicable rates.
4. Bidders are invariably required to fill up the total rates of each item in both words and figures.
5. Tenders with any condition including conditional rebate shall be rejected. However, tenders with unconditional rebate will be accepted.
6. The time allowed for carrying out the work will be 45 days (including monsoon period) to be reckoned from the 15<sup>th</sup> day after date of written order to commence the work.
7. Tender will be kept valid for 90 days from the date of opening the tender (Part-A).
8. In case the last date of sale and/or the date of receipt and opening of tender is declared as holiday, the respective date shall be treated as postponed to the next working day.
9. After opening of Part-A of the tender, bidders shall be evaluated for their techno-commercial capability to carry out the work based on the following:
  - (a) Financial soundness and turnover during the last 3 years.
    1. 3 (Three) similar works each of value not less than **40% of estimated value p.a.**
    2. Or 2 (Two) similar works each of value not less than **60% of estimated value p.a.**
    3. Or 1 (One) similar work of value not less than **80% of estimated value p.a.**
  - (b) Technical capabilities in regard to tendered work.
  - (c) Experience of similar works executed in the last 3 years.
  - (d) Available resources & their deployment to carry out the tendered work.
  - (e) An inspection team duly constituted by Director, IOP may visit selected site(s) of the tenderer and local office and workshop.
10. **The contractor whose tender is accepted will be required to furnish by way of performance bank guarantee for the due fulfillment of his contract, such sum as will amount to 10% of the contract value of work within 15 days of the receipt of the**

letter of intent/notification of acceptance of the tender by him and the same will be refunded after successful completion of the period of Repairing of Library 80 TR central AC plant, AHU and Cooling tower and allied system including spare parts at Library building of IOP as specified in the work order.

Performance bank guarantee will be forfeited in the event of the contract offered in full or in part not been fulfilled by the tenderer /contractor.

The successful bidder shall permit IOP, Bhubaneswar at the time of making any payment to him for the work done to deduct at the rate of 10% of the gross amount of the bill as security deposit.

The acceptance of tender will rest with Director, Institute of Physics, and Bhubaneswar, who does not bind himself to accept the lowest tender and reserves to himself the authority to reject any or all of the tenders received, without assignment of any reason. All Tenders in which any of the prescribed conditions are not fulfilled or are incomplete in any respect are liable to be rejected.

11. All rates shall be quoted on the proper **price bid** of the tender alone. The tax and unit price with specification will be final and at no clarification thereafter is allowed.
12. On acceptance of the tender, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Engineer-in-charge shall be communicated to the Engineer-in-charge.
13. The Director, Institute of Physics, Bhubaneswar, reserves the right to accept the whole or only part of the tender and the tenderer shall be bound to perform the same at the rates quoted.
14. GST or any other Tax on material in respect of this contract shall be payable by the contractor and Government will not entertain any claim whatsoever in the respect. However, any change in the existing taxes and levies or new taxes and levies if introduced by the Government after the receipt of offer as well as during the currency of the contract will be duly considered and paid extra and vice-versa, the subject to documentary proof. For this purpose the tenderer may furnish the details of taxes and levies that have been considered in the offer and rates assumed thereof. The GST and taxes will be applicable at the prevailing time of the contract.
15. The tender for works shall remain open for acceptance for a period of 90 days from the date of opening of tenders (Part-A). If any tenderer withdraws his tender within the validity period or make any modifications in the terms and conditions of the tender which are not acceptable to the Institute, then the IOP shall without prejudice to any right or remedy, be at liberty to forfeit the Earnest Money absolutely.
16. It will be obligatory on the part of the tenderer to **seal & sign** the tender document for all the component parts.
17. This Notice inviting Tender shall form the part of the contract document.
18. The Contractor shall submit a detailed list of similar works carried by them for the last 3 years including annual turnover and also works in hand (progress) in the following proforma.

Name of work	Name & Address of Establishment under Whom work is being executed	Value of work	Completion Time as per contract	Position Work in Progress	Remarks

**19.** Please note the following:

- (a) Cheques for Earnest Money Deposit will not be accepted
- (b) Solvency certificate, when asked for, should of value not less than 40% of the tender amount and should be dated not earlier than January 2025 and may be submitted along with Part-A.
- (c) Tender forms are not transferable.
- (d) Contractors will be vetted by the Security Section of IOP.

**20.** Please note that to enter IOP, photo-identity (passport, driving license, Aadhar card, I-card issued by the employer, etc.) is a must. Prior confirmation on Phone shall have to be taken by the bidder so as to arrange for an entry to IOP.

**21.** Canvassing in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be Liable to rejection.



**REGISTER**  
**INSTITUTE OF PHYSICS**  
**BHUBANESWAR**



**Institute of Physics  
Sachivalaya Marg  
Bhubaneswar-751005**

Notice Inviting Tender in brief

Sealed Item rate tenders in two parts viz. Part 'A' (Technical Bid) and Part 'B' (Price Bid) are invited, by Director, Institute of Physics, Bhubaneswar-751005, for the following work from bidders meeting criteria indicated in notice inviting tender (NIT) at IOP website [www.iopb.res.in](http://www.iopb.res.in)

Tender No. : NIT/IOP/119/2025-26, Name of the work: *Repairing of Library 80 TR central AC plant, AHU and Cooling tower and allied system including spare parts at Library building of Institute of Physics Bhubaneswar-751005*".

Estimated Cost: **Rs.14,17,400/- excluding Taxes**, Period of Completion: Forty five days; Earnest Money Deposit : **Rs.42,522/-**, Issue of tender document: **26.12.2025**, Pre-bid meeting of tender: **08.01.2026**, Last date of receiving tender document: **16.01.2026**, Date of opening of Part 'A' of tender: **17.01.2026** For tender documents etc. bidder must refer NIT in above IOP website and follow the instructions. Competent authority, Director, Institute of Physics, Bhubaneswar reserves the right to reject any or all tenders without assigning any reason thereof.



REGISTRAR

**Technical specification and general scope of work for “Repairing of Library 80 TR central AC plant, AHU and Cooling tower and allied system including spare parts at Library building of IOP**

**Scope of work:** Detailed scope of work, terms and conditions, specifications etc. are enclosed with this tender documents as per Annexure I, II, III, IV, V.

**Special note to bidder:**

The contractor shall handover the installation in full running condition to Institute, after completion of the work. In case, if any fault is noticed, the same shall be made good without any extra cost by him. Alternately suitable recovery shall be made from his final bill.

## ANNEXURE-I

### **Scope of Work:**

The following scope of work is only indicative of minimum requirement and contractor is strongly advised to use his own judgment in evaluating the quantum of work involved in round the clock operation and maintenance of central air conditioning plant of Library. The bidder is advised to understand the criticality of the application and the importance of maintaining more than 95% uptime of the systems. The contractor may physically verify the site and plant conditions with prior permission before quoting for the contract.

A. Scope of work for compressor and allied system

1. Dismantling, repairing and installation work shall be in scope of the vendor.
2. Testing the compressor's operation, checking for abnormal noises, vibrations, or performance issues.
3. Pinpointing the specific problem (e.g., refrigerant leak, compressor failure, control system malfunction) through specialized tools and techniques. Repair and Replacement.
4. Thoroughly cleaning the compressor unit, including the cooling fins, condenser coils, and other components to ensure optimal airflow and heat transfer.
5. Performing leak detection tests on all refrigerant lines and components to prevent future refrigerant loss.
2. Replacing air filters and other filters as needed to maintain system efficiency and prevent contamination.
3. Ensuring all connections and fittings are properly tightened to prevent leaks and maintain system integrity.
4. Inspecting and testing safety devices like the compressor's pressure relief valve, high and low-pressure cutouts, and safety controls to ensure proper operation
5. Conducting performance tests after repairs to verify that the compressor is functioning correctly and meeting the required capacity.

B. Scope of work for cooling tower and allied system

1. Dismantling, repairing and installation work shall be in scope of the vendor.
2. After repair check for leaks, nozzle damage, and proper water distribution patterns. Balance airflow and water flow to ensure optimal performance.
3. Check the ladder for corrosion or damage. And do the repair and painting of pipe lines newly installed and old pipe lines.
4. Check for leakage in air inlet louvers and water tank.
5. Thoroughly clean the cooling tower, including the basin, fill media, drift eliminators, and other components, to remove debris

C. Scope of work for AHU

1. Dismantling, repairing and installation work shall be in scope of the vendor.
2. Inspect and repair of leaks in refrigerant and water lines.

### **Additional Terms:-**

1. After repair of compressors, AHU and cooling tower the AC plant will be run for 7 days on 24x7 basis.
2. Contractor will bring all the tools and tackles needed for repair work.
3. Contractors should follow all safety norms and provide necessary safety equipment at their own cost. In case of any accident during the maintenance of the equipment leading to injuries / damages to human beings equipment and / or loss of life, the contractor shall be fully responsible for setting all claims.

4. A visual inspection of the entire system, including the compressor unit, AHU, cooling tower, and associated piping, to identify any visible damage, leaks, or unusual conditions
5. The vendor is responsible for watch & ward and the upkeep of the installations in perfect working condition.
6. Damage caused to Installation: In case of any damage caused to the installation due to negligence, carelessness or inefficiency of staff of the firm the contractor shall be responsible to make good at his own cost. Decision of the Engineer-in-charge shall be final & binding on the contractor.
7. Vendor would be bound to execute such additional items, which can be termed as logical, essential and necessary (even though not listed in schedule of work) for the effective execution of the work in totality, rates for such items of work shall be rationally analysed / derived and would be binding on the contractor.
8. Quantity mentioned in BOQ is tentative and payment will be made on actual measurement basis.
9. Contractor will be responsible to clear out debris/scrap/wastage and dispose suitably as per the land of law before leaving site of work without any additional cost.
10. Warranty/defect liability period for the repairing work is Six month from the date of completion.
11. Arbitration Clause:- That in case of any dispute between party of first part and the party of other part arising out of or in relation to the agreement, the dispute shall be referred to arbitration of a sole arbitrator to be appointed by DIRECTOR, IOP, Bhubaneswar. The award of the said arbitrator shall be binding on both parties. The place of the arbitration shall be at Bhubaneswar. Cost of the arbitration will be born by both the parties.

ANNEXURE - II  
**DETAILS OF EQUIPMENTS COVERED UNDER THE SCOPE OF WORK**

**1. Repair and Overhauling of 80TR compressor system-1**

Sl. No.	Description of work	Qty
01	Repair and overhauling of 80 TR compressor system of central AC plant of Library Supply of compressor spares required for the work i.e Piston pin, Gasket set, nut, piston ring, oil pump, discharge spring, guide lock, washer set, paper filter, oil filter, thrust washer, discharged valve guide, shaft seal, center bearing set, main bearing set and all other spares as required	1 job
02	Supply of Compressor oil (Frizel-68 grade)	80 Ltr
03	Nitrogen pressure testing of compressor system and repair of leakage if any	1 job
04	Supply and charging of R22 refrigerant gas	90 Kg
05	Labour and Service charge	1 job

**2. Repair and Overhauling of 80TR compressor system-2**

Sl. No.	Description of work	Qty
01	Repair and overhauling of 80 TR compressor system of central AC plant of Library Supply of compressor spares required for the work i.e Piston , Gasket set, connecting rod, nut, piston ring, oil pump, valve plate ,piston pin, piston lock, discharge spring, guide lock, washer set, paper filter, oil filter, cylinder liner, thrust washer, discharge valve guide, shaft seal, center bearing set, crank shaft ,main bearing set and all other spares as required	1 job
02	Supply of Compressor oil (Frizel-68 grade)	80 Ltr
03	Nitrogen pressure testing of compressor system and repair of leakage if any	1 job

04	Supply and charging of R22 refrigerant gas	90 Kg
05	Labour and Service charge	1 job

**3. Repair of Cooling Tower and it's pipe line**

Sl. No.	Description of work	Qty
Supply, Fabrication, Installation and painting of below items.		
01	6 " MS pipe	20 ft
02	6" Butterfly valve (Cast Iron)	2 nos.
03	6" Flange (M.S)	4 nos.
04	50 mm x 50 mm x 5mm support angles (M.S)	40 ft
05	Drain pipe 2" (M.S)	30 ft
06	Repair of air inlet louvers and fibre welding of water tank	1 job
07	Water spray nozzles (pvc)	50 nos.
08	Gate Valve 2 "(Brass)	2 nos.

**4. Repair of AHU, Condenser motor , Chiller Motor and Electrical Panel**

Sl. No.	Description of work	Qty
01	a. Dismantling of AHU runner shaft, Lathe work, metalizing, polishing of bearing seat and alignment of the shaft and reinstallation and all other spares as required and Repairing/welding of 2 nos. AHU coil	1 job
	b. Replacement of bearing with housing no.- P207	2 Nos.
2	Rewinding of 20 HP condenser motor with reinstallation and testing.	2 Nos.
3	Repairing of 12.5 HP Pump (Chiller and Condenser) <ul style="list-style-type: none"> <li>a. 6306 Bearing</li> <li>b. Gland Bush(Brass)</li> <li>c. Lock Nut for above bearing</li> <li>d. Lock washer for above bearing.</li> <li>e. Gland Rope (Nylon)</li> </ul>	2 Jobs

	f. Nut Bolt etc and all other spares as required	
4	Repairing of Condenser pump starter panel with Supply of following materials.	Qty
	a. SFU 63 Amp., L&T or equivalent	1 No.
	b. Single Phase preventer	1 No.
	c. Timer for star delta conversion	1 No.
5	Supply and installation of following spares for Chiller Pump starter	Qty
	a. 3 Pole 40 Amp. Contractor	3 Nos.
	b. NO/NC contactor	3 Nos.
	c. SFU 63 Amp., L&T or equivalent	1 No.
	d. Timer for star delta conversion	1 No.
	e. 63 AMP Fuse	6 Nos

### ANNEXURE-III

**1. Re-metalizing & machining of the AHU blower shaft:**

Scope of work briefly covers dismantling of AHU shaft and pillow block bearings transportation of shaft from IOP to works & back, re-metalizing of bearing seats by low temperature/ staggered welding to have a minimum fusion depth of 1.5mm while ensuring the shaft run-out less than 0.02mm, machining and grinding to a surface finish of Rz1.2 micron, assembly of blower/ pillow block bearings/ pulley, alignment of belt drives & commissioning of the same at site.

**2. AHU coil, leak repair/ rectification/ testing:**

There are four numbers of AHU at 40TR and 80TR AC of different capacity installed at IOP site. Scope of work briefly covers transportation of coil from IOP to works and back, leak testing of coil under pneumatic test pressure of 10Kg/ cm<sup>2</sup> in dip tank, rectification of leakages by brazing. Final leak testing/ rectification till no further leak is found. Pressure withstanding test has to be done for minimum of 45 minutes.

**ANNEXURE-IV**  
**SIMILAR WORKS COMPLETED AND IN PROGRESS DURING THE LAST 3YEARS ADD**  
**ADITIONAL SHEETS IF NECESSARY**

SL. No.	Description Of Work	Period of Contract	Value Of the Contract	Name, Designation and contact phone and mail Id of the authority for whom the Work was done With work Completion certificate

ANNEXURE-V  
ACCEPTANCE CERTIFICATE

I .....(designation) .....of (Name of the Company)

Hereby accept the above-mentioned Terms & Conditions mentioned in NIT, Technical Bid, along with Annexure I to VII for the above Contract of Institute of Physics, Bhubaneswar.

Signature  
Company  
Seal

Name of the authorized person with  
telephone number & E-mail address who will  
deal this contract on behalf of the bidder:

Name & Address of the firm/Bidder  
With contact phone number & E-mail address:

Address with phone number & E-mail  
address of the local office/ workshop in  
Bhubaneswar:

Signature  
Company Seal



## GENERAL TERMS AND CONDITION OF THE WORK CONTRACT

1. Contract Period: The contract period is only for 45days to complete the work.
2. Term of Payment: The payment shall be made on submission of bills in triplicate after due certification by IOP, Engineer In-Charge. Taxces as applicable shall be deducted from the bill at source and deposited as per rule.
3. Extra Items: During the execution of the work the contractor may require certain additional / extra items in order to complete the job/ works beyond the BOQ for no rates are available. The payment for such extra / deviated items shall be paid as per the rate approved on basis of analysis. The cost component for rate analysis shall be (1) cost of material, (2) Cost of Direct Labour, (3) Contractor overhead and profit 10%. Before execution of Work the rate analysis may be forwarded to the Director, IOP duly certified by the IOP, EIC. For approval of the Director IOP.
4. Correspondence: All the correspondence in respect of tender/ contractual obligation shall be made to "Registrar, Institute of Physics, Sachivalaya Marg, Bhubaneswar -751005."
5. Performance Security: The Performance Bank Gurantee will be released after completion of work and site clearance by the contractor. No, interest will be paid on such PBG. Security Deposit and EMD will be refunded after successful completion of six month defect liability period. No interest will be paid on such security deposits. The contractor may opt to furnish the security deposit equivalent to 10% of the contract value in shape of bank guarantee valid up to the end of three (3) months from the date of expiry of the contractual period. The EMD of rest of bidder will be refunded after award of the contract.
6. Labour Law: The contractor will abide by the rules and regulations related to the labour laws, accident, workmen compensation act, workman insurance, ESI, PF, etc. This will be the sole responsibility of the contractor. Institute of Physics, Bhubaneswar-751005 will not be a party at any stage in any of the dispute relating to the above. In case any liability arises due to non conformation by contractor, under no circumstance IOP will be liable for the same.
7. Rules Governing the Contractor's employees working in the IOP Premises: The contractors employees working inside the IOP campus will abide by the rules &regulations of the Institute. Any damage to the IOP Property due to mishandling, carelessness on the contractor's or his work man's part will be recoverable from the contractor's bill.
8. Liquidated damages: In case the work is delayed beyond the specified completion period for reasons attributable to the contractor, deductions on account of Liquidated damages @0.5% of the contract value per week will be deducted subject to a maximum of 5% of the total incomplete work. In such case in complete work shall be worked out by deducting value of the work actually executed form the total work order value. However in case the work is delayed beyond the scheduled completion / contract period, IOP reserves the right to get the work done by any other contractor at risk and cost of the contractor and amount to that effect will be deducted from his bills/dues.
9. Work Supervision at IOP Site: Contractor should depute a qualified supervisor dedicated for this site, who will co-ordinate work execution activities and interact with the IOP representatives responsible for supervision of work.
10. Tools and other required materials: The contractor will provide necessary materials, tools equipment's, measuring instruments and working consumables etc. needed for the execution of the

work. Safe custody of all such materials will be contractors sole responsibility. No extra charges will be paid for the same.

11. Watch and Ward of IOP Equipment's: Watch and Ward of all materials till the system is taken over by IOP shall be sole responsibility of the contractor and pilferage etc. shall be entirely to his account.

12. Norms for the Work at IOP site: The work shall be carried out as per the norms set by the manufacturer of the respective equipment, specification and specific instructions as may be issued by the IOP engineer responsible for work from time to time. During execution of the work, the contractor should follow all the standard norms of safety measures/ precautions to avoid accidents / damages to man machines and buildings. On non-adherence of this clauses, suitable fines as decided by the IOP shall be imposed.

13. Entry and Exit of material from IOP Campus: Materials belonging to the contractor whether consumable or non-consumable should be brought inside the IOP campus with proper entry at the main Gate. Any material to be taken out with IOP campus a proper gate pass need to issue by the Institute.

14. Water and Electricity for O&M work at IOP: IOP will provide free water and electricity during O & M work at IOP, at one point. The contractor has to make his own arrangements for installation of power and water from that point as per his requirements.

15. Termination of the contract: The Director ,IOP reserves the right to terminate the contract on account of poor workmanship, failure to mobilize site, non-compliance of set norms/ specification for the works, delay in progress of work, violation of any contract provisions by the contractor. In such cases the contractor is liable to pay liquidated damage. And the security deposit along with EMD held with IOP will be forfeited.

16. Agreement: You are requested to execute an agreement with Institute of Physics, Bhubaneswar on a non-judicial stamp paper of Orissa, State of appropriate value within 10days of issue of work order.

17. Arbitration Clause:- That in case of any dispute between party of first part and the party of other part arising out of or in relation to the agreement, the dispute shall be referred to arbitration of a sole arbitrator to be appointed by DIRECTOR, IOP, Bhubaneswar. The award of the said arbitrator shall be binding on both parties. The place of the arbitration shall be at Bhubaneswar. Cost of the arbitration will be borne by both the parties.

#### Additional Terms and Conditions:

1. The Contractor shall not sublet, transfer or assign the Contract or any part thereof or bills or any other benefits, accruing therefrom or under the contract without the prior written consent of the Purchaser. Any breach of this condition shall entitle the Purchaser to cancel the Contract or any part thereof and to purchase from other sources at the risk and cost of the Contractor and shall recover from the Contractor damages arising from such cancellations.
2. The price quoted in the financial bid (Part-B) must be exclusive of tax. The tax component will be calculated as per actual.
3. The experience / work completion certificate is must to consider as experience.
4. The Table given in the clause no-19 of the NIT must be filled properly. If not filled properly then the institute reserve the right to cancel the tender.

5. If a firm quotes NIL charges/consideration, the bid shall be treated as unresponsive and will not be considered.
  6. The bidder must have experience of repairing 80TR or higher capacity compressor.
  7. **The bidder must visit site (Institute of Physics, Bhubaneswar) and asses the work before quoting in presence of Engineer in-charge, AC and this is mandatory.**
  8. The material list mentioned in the NIT need to be replaced with new items.
  9. The compressor smooth function will be observed for minimum seven days before processing the bill.
  10. After repairing the compressor chilled water output temperature shall be 7 degree Celsius with load.
  11. After repairing and replacing the items mentioned in NIT, if any other items required to be repaired or replaced may be carried out as an extra item with prior approval of competent Authority to complete the job.
  12. Minimum six month warranty to be given on the above Work.
  13. The payment will be made after successful operation of the above work for seven days.
  14. The bidder must supply L&T, Schneider, and SIMENS contactor.
  15. The bidder must supply Bearings of SKF/ MBC.
  16. Wires and cables used must be Finolex, Poly Cab or similar standard.
  17. Bills will be paid as per actual consumption of materials.
  18. Price is to be filled in both numbers & words in the column as specified above.
  19. All the pages of price bid have to be filled, signed with seal by the bidder and to be submitted in the part (B) envelope of the bid.
  20. All the pages of price bid is to be filled up without any cutting/ overwriting/ inking/ erasing/ white fluid etc.
  21. Institute of Physics reserves the right to reject the tender paper of the bidder who has not quoted for all the options mentioned here

**SIGNATURE OF THE BIDDER WITH COMPANY SEAL**

NAME DATE

## PART-B

### **BOQ for Repair of Library 80 TR central AC plant, AHU and Cooling Tower.**

Schedule-II

#### **FINANCIAL BID**

THIS IS THE ONLY DOCUMENTN TO BE SUBMITTED  
IN PRICE BID ENVELOP OF THE TENDER

##### **1. Repair and Overhauling of 80TR compressor system-1**

Sl. No.	Description of work	Qty	Unit Rate in Rs. Excluding tax	Amount in Rs. Excluding tax
a.	Repair and overhauling of 80 TR compressor system of central AC plant of Library Supply of compressor spares required for the work i.e Piston pin, Gasket set, nut, piston ring, oil pump, discharge spring, guide lock, washer set, paper filter, oil filter, thrust washer, discharged valve guide, shaft seal, center bearing set, main bearing set and all other spares as required	1 job		
b.	Supply of Compressor oil (Frizel-68 grade)	80 Ltr		
c.	Nitrogen pressure testing of compressor system and repair of leakage if any	1 job		
d.	Supply and charging of R22 refrigerant gas	90 Kg		
e.	Labour and Service charge	1 job		
Total (A) =				

##### **2. Repair and Overhauling of 80TR compressor system-2**

Sl. No.	Description of work	Qty	Unit Rate in Rs. Excluding tax	Amount in Rs. Excluding tax
a.	Repair and overhauling of 80 TR compressor system of central AC plant of Library Supply of compressor spares required for the work i.e Piston , Gasket set, connecting rod, nut, piston ring, oil pump, valve plate ,piston pin, piston lock, discharge spring, guide lock, washer set, paper filter, oil filter, cylinder liner,	1 job		

	thrust washer, discharge valve guide, shaft seal, center bearing set, crank shaft ,main bearing set and all other spares as required			
b.	Supply of Compressor oil (Frizel-68 grade)	80 Ltr		
c.	Nitrogen pressure testing of compressor system and repair of leakage if any	1 job		
d.	Supply and charging of R22 refrigerant gas	90 Kg		
e.	Labour and Service charge	1 job		
Total (B) =				

### **3. Repair of Cooling Tower and it's pipe line**

Sl. No.	Description of work	Qty	Unit Rate in Rs. Excluding tax	Amount in Rs. Excluding tax
<b>Supply ,Fabrication, Installation and painting of below items</b>				
a.	6 " MS pipe	20 ft		
b.	6" Butterfly valve (Cast Iron)	2 nos.		
c.	6" Flange (M.S)	4 nos.		
d.	50 mm x 50 mm x 5mm support angles (M.S)	40 ft		
e.	Drain pipe 2" (M.S)	30 ft		
f.	Repair of air inlet louvers and fibre welding of water tank	1 job		
g.	Water spray nozzles (pvc)	50 nos.		
h.	Gate Valve 2 " (Brass)	2 nos.		
Total (C) =				

### **4. Repair of AHU, Condenser motor , Chiller Motor and Electrical Panel**

Sl. No.	Description of work	Qty	Unit Rate in Rs. Excluding tax	Amount in Rs. Excluding tax
I.	a. Dismantling of AHU runner shaft, Lathe work, metalizing, polishing of bearing seat and alignment of the shaft and reinstallation and all other spares as required and Repairing/welding of 2 nos. AHU coil	1 job		
	b. Replacement of bearing with housing no.-P207	2 Nos.		

II.	Rewinding of 20 HP condenser motor with reinstallation and testing.	2 Nos.		
III.	Repairing of 12.5 HP Pump (Chiller and Condenser) <ul style="list-style-type: none"> <li>a. 6306 Bearing</li> <li>b. Gland Bush (Brass)</li> <li>c. Lock Nut for above bearings.</li> <li>d. Lock washer for above bearings.</li> <li>e. Gland Rope (Nylon)</li> <li>f. Nut Bolt etc and all other spares as required</li> </ul>	2 Jobs		
IV.	Repairing of Condenser pump starter panel with Supply of following materials.			
	a. SFU 63 Amp., L&T or equivalent	1 No.		
	b. Single Phase preventer	1 No.		
	c. Timer for star delta conversion	1 No.		
V.	Supply and installation of following spares for Chiller Pump starter	.		
	a. 3 Pole 40 Amp. Contractor	3 Nos.		
	b. NO/NC contactor	3 Nos.		
	c. SFU 63 Amp., L&T or equivalent	1 No.		
	d. Timer for star delta conversion	1 No.		
	e. 63 AMP Fuse	6 Nos		
	<b>Total (D) =</b>			
	<b>Grand Total (A+B+C+D) =</b>			
	<b>Add GST% =</b>			
	<i>Total value in Figure</i>			
	<i>Total value in Words.</i>			

1. Price is to be filled in both numbers & words in the column as specified above. **The unit price must be excluding taxes.** In no case further bifurcation of the same is allowed between unit price and **tax** at any point of time after the final bid is submitted.
2. All the pages of price bid have to be filled, signed with seal by the bidder and to be submitted in the part (B) envelope of the bid.
3. All the pages of price bid is to be filled up without any cutting/ overwriting/ inking/ erasing/ white fluid etc.

4. Taxes levied by different agency will be borne by IOP. Hence, **no tax component should be included in the bidder's quoted price.**
  5. Institute of Physics reserves the right to reject the tender paper of the bidder who has not quoted for all the options mentioned here.

**SIGNATURE OF THE BIDDER WITH COMPANY SEAL**

**NAME** **DATE**