





# राष्ट्रीय विज्ञान शिक्षा एवं अनुसंधान संस्थान, भुवनेश्वर

(परमाणु उर्जा विभाग, भारत सरकार का एक स्वयं शासित संस्थान)

**NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHUBANESWAR**

(AN AUTONOMOUS INSTITUTE UNDER DEPT. OF ATOMIC ENERGY, GOVT. OF INDIA)

Name of Work: -“Supply, installation and commissioning of Ductable split air conditioner in dark room of green house in NISER campus, Jatni.”

NIT No. & Date: - NISER/IWD-MECH/AC/Green House/2018-19/018

Dtd: 26.09.2018

Estimated cost of tender: Rs. 3,26,469.00

Earnest Money : Rs. 6530.00

Completion time: - 30 (Thirty) days

Last date of submission of E- tender : 15.10.2018 up to 11.30 AM

Opening of (Technical & Financial) Bid : 15.10.2018 at 3.00 P.M

This tender document contains 10 (Including front page) pages.



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**TENDER DOCUMENTS**

**File No. NISER/IWD-MECH/AC/green House/2018-19/018**

**Date: 26.09.2018**

Name of work: -“Supply, installation and commissioning of Ductable split air conditioner in dark room of green house in NISER campus, Jatni.”

**I N D E X**

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## NOTICE INVITING TENDER

**NIT No. NISER/IWD-MECH/AC/Green House/2018-19/018**

**Date: 26.09.2018**

Director, NISER invites E- tender in single bid (Comprising Technical Bid and Financial Bid) for the following work:-

Name of the work: “Supply, installation and commissioning of Ductable split air conditioner in dark room of green house in NISER campus, Jatni.”

Estimated Cost	:	Rs. 3, 26,469.00/-
Earnest Money	:	Rs. 6, 530.00/-
Period of Completion	:	<b>30</b> (Thirty Days).
Last date of submission of E- tender	:	<b>15.10.2018 to 11.30 AM</b>
<b>Opening of bid (Both Technical &amp; Financial)</b>	:	<b>15.10.2018 at 3.00 P.M</b>

Tender can be downloaded and bided from website address: [www.tenderwizard.com/NISER](http://www.tenderwizard.com/NISER).

Tender documents for viewing only is also available in NISER web-site address: [www.niser.ac.in](http://www.niser.ac.in).

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## **Standard e-Tender Terms & Conditions**

1. The details of tender notification can be downloaded from [www.tenderwizard.com/NISER](http://www.tenderwizard.com/NISER) under "Tender Free View" link.
2. Vendors should obtain the USER ID and PASSWORD from [www.tenderwizard.com/NISER](http://www.tenderwizard.com/NISER) by clicking on "REGISTER ME" link in the homepage.
3. The Vendor registration fee has to be paid to ITI Ltd for Rs. 1180/- including GST. Using the e-payment link provided at the time of registration, and the mode of payments are Credit Card, Debit Card and Internet Banking. Vendor Registration is Valid for 1 year.
4. For further details on e-Tender participation, please contact ITI Help desk on
  - Telephone: 080-49352000/9686115318
  - Email: [harishkumar.kb@etenderwizard.com](mailto:harishkumar.kb@etenderwizard.com), [ambasa@etenderwizard.com](mailto:ambasa@etenderwizard.com).
5. Tenders should be submitted only through e-Tender portal and obtain the Tender Acknowledgement copy as a proof of successful submission.



राष्ट्रीय विज्ञान शिक्षा एवं अनुसंधान संस्थान, भुवनेश्वर  
(परमाणु उर्जा विभाग, भारत सरकार का एक स्वयं शासित संस्थान)  
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**Tender Notice**

Director of NISER hereby invites E- tender in a single bid (Comprising Technical Bid and Financial Bid) for the following work from experienced and capable agencies registered in CPWD/ MES/ Railways/ State PWDs/ MSME and/or those who have worked for DAE or its Organizations or Govt. /Semi Government organizations/ reputed private organizations and have successfully carried out a minimum of **one/two/three similar works** (supply, installation and commissioning of Ductable AC) of 80%/60%/40% respectively of the estimated cost or above, as indicated in the prescribed format of the E-Tender portal in last seven years. The eligible contractors may submit their bid along with supporting documents of fulfilling the above conditions otherwise the bid bear the risk of not being considered.

Name of Work	Estimated Cost ₹	Earnest Money ₹	Duration of work
<b>Name of the work:</b> -“Supply, installation and commissioning of Ductable split air conditioner in dark room of green house in NISER campus, Jatni.” NISER/IWD-MECH/AC/Green House/2018-19/018 Dt. 26.09.2018	3, 26,469.00	6,530.00	30 (Thirty Days).

The Bidders are requested to give detailed tender in E-Tender portal in the prescribed forms in single Bid (Comprising Technical Bid and Financial Bid)

**Tender process & award of contract.**

The technical bid will be evaluated to shortlist the eligible bidders. The financial bid of only the short listed bidders shall be considered for further processing. The bidders, whose technical offer is found acceptable and meeting the eligibility requirements as specified in this tender will be eligible for the financial bid evaluation.

The earnest money deposit and the cost of tender (Non Refundable) as indicated against the work should be send **by post or by hand** to “SO(D)-ELECTRICAL,INSTITUTE WORKS DEPARTMENT, NISER, Jatni campus, PO-Bhimpur- Padanpur, Via-Jatni, District- Khurda, PIN-752050” so that it reaches on or before the opening of the technical bid for e-tender system, in the form of **Account Payee Bank Draft** payable on any branch of Nationalized/Schedule Bank at Bhubaneswar/ Jatni in favour of **Director, NISER payable at Bhubaneswar/Jatni** in a sealed envelope. All tenders submitted without requisite amount of earnest money shall be rejected and their technical and financial bid shall not be opened. No interest is payable on EMD. Director of NISER, reserves the right to accept/reject any/all tenders without assigning any reason whatsoever. Part or incomplete tenders will be summarily rejected. No further correspondences whatsoever shall be entertained in this regard. Canvassing in any manner shall result in rejection of the tender.

Any dispute arising out of this shall subject to Bhubaneswar jurisdiction only.

**REGISTRAR  
NISER**

## General Terms and Conditions:

1. Director of NISER hereby invites e-Tender in a single bid system (Comprising Technical Bid and Financial Bid) for the following work from experienced and capable agencies registered in CPWD/ MES/ Railways/ State PWDs/ MSME and/or those who have worked for DAE or its Organizations or Govt. /Semi Government organizations/ reputed private organizations and have successfully carried out a minimum of one/two/three similar works (supply, installation and commissioning of Ductable AC) of 80%/60%/40% respectively of the estimated cost or above, as indicated in the prescribed format of the e-Tender portal in the last seven years. The eligible contractors may submit their bid along with supporting documents of fulfilling the above conditions otherwise the bid bear the risk of not being considered.

In support of fulfilling all the essential conditions mentioned in the previous Para the contractor shall submit the details through e-Tender in the prescribed format the past details, mentioning the name of work, estimated cost, date of commencement as per agreement & actual date of completion as per agreement along with schedule of quantities executed and any penalty levied due to delay in executing the work from an officer not below the rank of Executive Engineer.

2. The estimated cost of the work is **₹3, 26,469.00/- (Rupees Three Lakhs Twenty Six Thousand Four hundred and Sixty Nine only.)** (As per MRA as well as DSR 2018).
3. Period for completion of the work will be **30 (Thirty Days)** and the date of commencement shall be reckoned from the tenth day of issue of award letter.
4. The earnest money deposit and the cost of tender (Non Refundable) as indicated against the work should be send by **post or by hand** to **“SO(D)-ELECTRICAL, INSTITUTE WORKS DEPARTMENT, NISER, Jatni Campus, PO-Bhimpur-Padanpur, Via-Jatni, District- Khurda, PIN- 752050”** so that it reaches on or before the opening of the technical bid for e-tender system in the form of Account Payee **Bank Draft** payable on any branch of Nationalized/Schedule Bank at Bhubaneswar/ Jatni in favour of **“Director, NISER payable at Bhubaneswar/Jatni”** in a sealed envelope. All tenders submitted without requisite amount of earnest money shall be rejected and their technical and financial bid shall not be opened. No interest is payable on EMD. The EMD will be returned to the bidders(s)/Agents whose offer is not accepted by NISER within one month from the date of the placing of the final order(s) on the selected bidder(s). In case of the bidder(s) whose offer is accepted the EMD will be returned on submission of Performance Bank Guarantee (if applicable). However, if the return of EMD is delayed for any reason, no interest /penalty shall be payable to the bidders.
5. The details of tender notification can be downloaded from [www.tenderwizard.com/NISER](http://www.tenderwizard.com/NISER) under **“Tender Free View”** link. Vendors should obtain the USER ID and PASSWORD from [www.tenderwizard.com/NISER](http://www.tenderwizard.com/NISER) by clicking on **“REGISTER ME”** link in the homepage. The Vendor registration fees has to be paid to ITI Ltd for Rs. 1180/-. Using the e-payment link provided at the time of registration, and the mode of payments are Credit Card, Debit Card and Internet Banking. Vendor Registration is Valid for 1year.Tenders should be submitted only through e-Tender portal and obtained the Tender Acknowledgement copy as a proof of successful submission.
6. The Bidders are requested to give detailed tender in E-Tender portal in the prescribed forms in single Bid (Comprising Technical Bid and Financial Bid).
7. **Last date of submission of E- tender** : **15.10.2018 to 11.30 AM.**  
**Opening of (Both Technical & Financial) Bid** : **15.10.2018 at 3.00 P.M**

**8. Tender process & award of contract.**

The technical bid will be evaluated to shortlist the eligible bidders. The financial bid of only the short listed bidders shall be considered for further processing. Bidders whose technical offer is found acceptable and meeting the eligibility requirements as specified in this tender will be eligible for the financial bid evaluation.

9. Director of NISER does not bind himself to accept the lowest or any tender and reserves the right to accept the tender either in whole or in part. Director of NISER, reserves the right to accept/reject any/all tenders without assigning any reason whatsoever. The decision of the Director shall be final in this regard.
10. Canvassing in any manner or form will lead to rejection of the Bid.
11. The tenderer shall not be permitted to bid for works in any unit of DAE where any of his/her relatives are employed. He shall also intimate the names of any such persons who are working with him in any capacity or subsequently employed by him and whose relatives are working in DAE or its units.
12. **Contact for Technical information:** (Only E-mail enquiries will be entertained)

**Mr. Ajit Kumar Mohanty**  
SA\_B (Mechanical),  
Institute Works Department, NISER.  
E-mail – ajitmohanty2015@niser.ac.in

**NOTE:**

A person shall be deemed to be a relative of another if, (a) they are members of a Hindu undivided family; or (b) they are husband and wife; or (c) the one is related to the other in the following manner : Father, Mother (including step mother), Son (including step son), Son's wife, Daughter (including step daughter), Father's father, Son's son, Son's wife, Son's daughter, Son's daughter's husband, Daughter's husband, Daughter's son, Daughter's son's wife, Daughter's daughter, Daughter's husband, Brother (including step brother), Brother's wife, Sister (including step sister), Sister's husband.

13. The Bid shall remain valid for a minimum period of 90 days from the date of opening of the tender for the purpose of acceptance and award of work. Validity beyond 90 days from the date of opening shall be by mutual consent.
14. The tenderer should see and obtain the drawings. In case of any queries, necessary clarifications may please be sought from the office of the Scientific Officer-D (Electrical). No claim whatsoever will be entertained in this regard for any alleged ignorance, thereof.
15. Before tendering, the tenderer shall inspect the site to fully acquaint himself about the condition in regard to accessibility to site, nature and extent of ground, working condition of site and locality including stacking of materials, conditions affecting accommodations and movement of labour, etc., which are required for satisfactory execution of the work. No ignorance of the same, whatsoever shall be entertained under any circumstances.
16. EMD is liable to be forfeited if the contractor fails to commence the work as per award letter.



17. Some of the provisions of the contract are given below.
- a). **DEFECT LIABILITY PERIOD - Twelve months** from the date of completion as certified by the authorized engineer.
  - b). **MINIMUM VALUE OF WORK FOR THE INTERMEDIATE CERTIFICATE** Intermediate certificate for a lesser amount can be admitted for payment at the discretion of the Institute.
  - c). **SECURITY DEPOSIT - A sum @ 5%** of the gross amount of the bill shall be deducted from each running bill of the contractor, till the sum along with the sum already deposited as earnest money, will amount to security deposit of 5% of the tendered value of the work. In addition, the contractor shall be required to deposit an amount equal to 5% of the tendered value of the contract as **Performance Security** within the period prescribed for commencement of work in the letter of award issued to him.
  - d) **COMPENSATION –** In the event of any delay in completion of the work beyond the scheduled period, the contractor shall pay an amount equal to one per cent of the total cost of work or such smaller amount as decided by Director of NISER (whose decision shall be final) as compensation to the institute, for every week that the work remains un-commenced or unfinished. Compensation to be paid shall not exceed ten per cent of the estimated cost of the total work as per award letter.
18. Stores to be issued: - No material shall be issued by the Institute. The responsibility for arranging all materials from approved manufacturer as per award letter lies with the contractor.
19. The rate quoted by the tenderer shall be **inclusive of Taxes** as per the Govt. rule. There will be deduction of TAX from every RA bill and also from the final bill of the contractor at the rate prescribed by govt. of India from time to time.
20. The successful bidder will be required to submit the names, qualifications and experiences of the supervising staff to be deployed for execution of the work. In case of any changes occurring during the course of execution of the said work, the same shall also be intimated by the bidder to the institute.
21. The tenderer should also submit the detail list of tools and plants/ machineries/ equipment, etc. that he proposes to place at the site of work.
22. The Contractor shall have to make his own arrangements for storage of materials required for execution of the work and NISER in any manner shall be held responsible for the storage and safe custody of the said materials at work site.
23. Electricity will be supplied to the site of work at one point only if required and Contractor can do onward distribution with metering arrangement as per the requirement. Electricity charges; if any will be recovered from the Contractor's bill based on meter readings towards its consumption.
24. Before commencement of the work, the contractor has to submit the list of tools and plants brought to the site of work. No items other than the list submitted will be allowed to be taken out from the work site.
25. All the mandatory testing charges will be borne by the contractor.

26. Cost escalation in any manner whatsoever, will not be accepted for the said work, where in the stipulated period of completion of work is 30 (Thirty) days or less.
27. The work will be executed as per CPWD guidelines and DAE works procedure under the supervision of Engineer-In-charge of NISER.

**SCHEDULE OF QUANTITY**

Sl. No.	Description of items	Unit	Qty
1	Supply of air-cooled ducted air conditioner unit with <b>Scroll Compressor</b> and R-410A / R-407C refrigerant. Make: Carrier/Voltas/Blue Star /Hitachi Tonnage: 4.0 TR to 4.3 TR	Nos.	2
2	Installation, testing & commissioning of ductable split AC unit	Nos.	2
3	Supply, installation of discharge /suction refrigerant <b>hard copper pipe</b> of required size with necessary thermal insulation and supports.	Rmt	20
4	Supply & installation charges of <b>R-410A / R-407C</b> refrigerant for ductable AC unit	kg	8
5	Wiring for circuit/ submain wiring alongwith earth wire with the <b>6 core 2.5 sq. mm FRLS PVC insulated copper</b> conductor for SITC control cable. Preferred make: Polycab/Universal/KEI	Rmt	18
6	MS bracket for packaged unit ODU	Nos.	2
7	Canvas (Vinyl/polyester) Connection	Nos.	2
8	Supply, installation, balancing and commissioning of factory fabricated GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required. Factory fabricated <b>0.63 mm GSS sheet metal</b> rectangular ducting as per IS 655-2006	Sq.mtr	15
9	Supplying and fixing of <b>19 mm thickness</b> duly laminated aluminum foil of mat finish closed cell Nitrile rubber (Class "0") insulation on existing duct after applying suitable adhesive for Nitrile rubber. The joints shall be sealed with 50 mm wide and 3 mm thick self adhesive nitrile rubber tape insulation complete as per specifications and as required. Preferred make: Armacell/Kflex	Sq.mtr	15
10	Supplying, fixing testing commissioning of supply air diffusers of powder coated aluminium with aluminium volume control dampers with anti smudge ring & removable core. Preferred Make: Dynacraft/Airmaster	Sq.mtr	1.5
11	UPVC drain pipe with support and fittings of 25 mm dia	Rmt	5
12	Timer for 24 hour alternative operation of air conditioner	Nos.	1

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## **Technical Specifications**

1. Work should be carried out as per CPWD guidelines and DAE works procedure.
2. Name of the brand – Blue star/ Carrier/ Voltas/ Hitachi  
Nominal Cooling capacity – 4 TR to 4.3 TR  
Compressor – Scroll Type  
Refrigerant – Eco-friendly or R410A/ R407A  
Type – Ductable
3. The scope of the work comprises the supply, installation, testing & commissioning of Air-conditioning system with necessary controls etc. as set forth in the accompanying schedule of items.
4. The work would be deemed to be complete only after the entire installation is completed, tested & Commissioned and handed over to NISER in working condition.

## **SCOPE OF WORK**

1. Party has to inspect the site thoroughly before execution of work and site physibility, duct work layout, drain pipe and outdoor unit location and accordingly copper pipe lauout should be predefined before starting of work with guidance of engineer-in-charge (Mechanical).
2. The contractor shall engage suitably skilled/licensed workmen of various categories for execution of work & **supervised by supervisors/Engineer of appropriate qualification** & experience to ensure proper execution of work. They will carry out instructions of Engineer-in-charge & other senior officers of the Institute during progress of work.

## **MEASUREMENT AND RA/ FINAL BILL**

1. The contractor shall submit his running and final bills with detail measurement for the purpose of payment & bills shall be processed by the various offices for payment, as per existing procedure.
2. The contractor shall extend all possible co-operations for checking the measurement. Decision of the engineer in charge (mechanical) of NISER shall prevail. In case of any dispute, the final decision lies with the Director of NISER, which shall be binding on both the parties.

## **OTHERS**

If, the contractor has to remove/dismantle any old, damaged materials & fixtures etc. for the purpose of execution of the said work, the same shall be deposited with NISER Stock Yard along with the list of materials under intimate to the concerned Engineer in- Charge. No extra payment will be made by the institute for this purpose.