



**RRTTS (COASTAL ZONE)**  
**Odisha University of Agriculture and Technology**  
**Bhubaneswar, Odisha- 751003**  
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No. 1115 / RRTTS (CZ), Date. 06.10.2023

**TENDER NOTICE**

Sealed tenders are invited on behalf of OUAT from reputed manufacturers/ companies/ erectors of protected structures for erection of protected cultivation structures in the campus of RRTTS (CZ), OUAT, Bhubaneswar, Odisha for the proposed 'Technopark'. The tender documents with details of terms and conditions and important information can be obtained from the OUAT website [www.ouat.ac.in](http://www.ouat.ac.in) from 07.10.2023. The sealed tender document containing technical and financial bid along with the non-refundable tender fee and EMD as specified in the tender document should reach RRTTS(CZ) office by speed post/ courier on or before 30.10.2023(5.00PM). The technical bid and the financial bid are to be submitted separately in sealed cover. The technical bids will be opened on 31.10.2023 at 11.00AM and the financial bids of the successful technical bidders will be opened on 07.11.2023 (11.00 AM).

  
06/10/2023  
**ASSOCIATE DIRECTOR OF RESEARCH-CUM-PI**

**Tender No. Technopark 05/2023 Date 07.10.2023**

**Tender Document for**

**Supply, Installation, Commissioning of Polyhouse with Fan pad cooling system  
with Dendrobium orchid for Technopark at RRTTS (CZ), Bhubaneswar**

**Odisha University of Agriculture and Technology  
Bhubaneswar, Odisha-751003  
[www.ouat.ac.in](http://www.ouat.ac.in)**

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**Tender No. Technopark /05/2023 Dated:07.10.2023**

**NOTICE INVITING TENDER (NIT)**

**Tender for Supply, Installation, Commissioning of Polyhouse with Fan pad cooling system with Dendrobium orchid for Technopark on Turnkey basis atRRTTS (CZ), OUAT, Bhubaneswar**

Regional Research and Technology Transfer Station (CZ), Bhubaneswar is situated in the main campus of OUAT, Bhubaneswar and is engaged in needbased research on agriculture and allied sciences for the East and South Eastern Coastal Plain Zone of Odisha. Erratic weather conditions have forced us to cultivate vegetables/flowers in polyhouses/shade net houses or any other protected structures. Cultivation inside protected structures is the recent trend to mitigate the challenges of climatechange to some extent, with assured and programmed production of vegetables/flowers. Recent advances like hydroponic/aeroponic are novelty in the agricultural technological environment and havehuge opportunities in the present scenario to meet the production demand from limited area. A lot of research is to be carried out to standardize appropriate cultivation practices for different cropsunder hydroponic and aeroponic system. In this context, a research project has been designed to carry out research activities pertaining to commercial cultivation of different crops under hydroponic/aeroponic system with financial support from Govt. of Odisha. Different kinds of protected structures will be erected under this project with double bid system (Technical and Financial) to get quality structures at a competitive price.

**For and on behalf of OUAT, Bhubaneswar, Tenders (two bid systems) are invited forSupply, Installation, Commissioning of Polyhouse with Fan pad cooling system with Dendrobium orchid for Technopark on Turnkey basis atRRTTS (CZ), OUAT, Bhubaneswar.**

## 1. CRITICAL DATE SHEET

S. No.	Particulars	Important Dates	Time	Tender Processing Fee	EMD
1.	Issue of Tender documents	07.10.2023	11AM	Rs.4720/- (Rs.4000/-+ 18% GST)	1% of the quoted value
2.	Pre-bid Meeting at Meeting Room, CRS	17.10.2023	11AM		
3.	Start date for submission of bids	07.10.2023	11AM		
4.	Last date & time for submission of tender	30.10.2023	5PM		
5.	Date & time of opening of Technical Bids	31.10.2023	11AM		
6	Publishing of technically qualified Bidders	04.11.2023,	11AM		
7	Date & Time of Financial Bid opening	07.11.2023,	11AM		

## 2. SCOPE OF WORK

The bidder shall be responsible for supply, installation and commissioning of Polyhouse with Fan pad cooling system with Dendrobium orchid for Technopark on Turnkey basis at RRTTS (CZ), OUAT, Bhubaneswar. The list of protected structures with detailed specifications are given in **Annexure –III** of this tender document.

## 3. PERIOD FOR SUPPLY OF ITEMS

- i. The supply of items/erection of structures/ installation of equipment and accessories shall be required to be completed within 60 days from the issue of Purchase Order / Supply order. The schedule of supply, installations, commissioning of all equipment should be given in the technical bid.
- ii. The erected structures should be labelled properly using steel sign boards in the following format: (Name of the structure, Tender No./ Sl. No.)
- iii. Electricity and water will be provided from the existing main building of RRTTS. After the erection of structures as mentioned in the Annexure-II and III, the bidder has to execute its installation & commissioning including necessary civil work, electrical work, plumbing work at the designated site in the location(s). The cost of the same shall not be paid extra and it should be included in price of the respective structures.

#### **4. PRE-QUALIFYING ELIGIBILITY CRITERIA**

The tenderers must fulfill the following eligibility criteria: -

- i. The bidder should be either an established Manufacturer or empaneled erector of protected structures like Green house/ poly house / shade net house. The participating tenderers must be duly empaneled with Directorate of Horticulture, Odisha. The manufacturers / companies/ erectors of protected structures from outside Odisha can also participate in this process and shall subsequently register with the appropriate authority of the Govt. of Odisha before award of works.
- ii. The bidder's firm must be registered with the appropriate authority and must have been engaged in manufacturing and/ correction of protected structures like green house/ poly house / shade net house during the last three (3) years. The bidder has to enclose valid Registration Certificate or any other documentary proof.
- iii. The average annual financial turnover during the last 3 financial years ending on 31<sup>st</sup> March of the previous financial year (2022-23) should be at least Rs.50.0 lakh. Copies of audited balance sheet of 2020-21, 2021-22 and 2022-23 to be attached as documentary proof.
- iv. The bidder is also required to enclose at least 01 successful satisfactory erection/ work order and Completion Certificate/Performance Certificate for work in protected structures of Rs.40.0 Lakh or more during last 03 years ending 2022-23, from Government/Semi govt. agencies/ PSU.
- v. The bidder should have PAN, GST Registration, Udhog Aadhar/Udyam registration, as applicable in their case and should submit a copy of each of these documents along with acknowledgement copies of the IT Returns for the last 3 financial years.

#### **5. BIDDING PROCEDURE**

5.1. A **pre-bid Meeting** will be held at 11AM on 17.10.2023 in the office of the Associate Director of Research, RRTTS(CZ), Bhubaneswar wherein the queries of interested stakeholders will be clarified. The PI/Co-PI/Associated Scientists of the project will present the layout and details of the protected structures and other items to be set up. The provision/ availability of electricity and water connection, waste dumping site will be clarified to the bidders.

5.2. **Site Visit:** After the pre-bid meeting, interested bidders may visit the project site of RRTTS (CZ), Bhubaneswar.

5.3 Bids shall be submitted by speed post/ courier only.

5.4 Bidding Application must be accompanied by the following: -

## **A. Technical Bid**

The following documents, duly signed and stamped, are to be furnished by the Bidder along with Technical Bid as per the tender document:

- i. Proof of permanent address of the firm/Agency/Bidder.
- ii. Tender Document Cost of Rs.4720/- (Tender Fee (Non-refundable) in favour of Comptroller, OUAT payable at Bhubaneswar.
- iii. Earnest Money Deposit (EMD), 1% of the quoted value (refundable without any interest) in the form of Demand Drafts, drawn separately in favour of ADR, RRTTS, Coastal Zone, OUAT, Bhubaneswar payable at Bhubaneswar. The EMD of the non-qualified bidders shall be returned without any interest.
- iv. **“Bid Security Declaration”, if required needs to be submitted as per the format attached at Annexure- VI**, accepting that if they withdraw or modify their bids during the validity etc., their bid shall be rejected and they will be suspended for next one year.
- v. The tenderers who are currently registered and, also, will continue to remain registered during the tender validity period as Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) or with National Small Industries Corporation, New Delhi shall be eligible for exemption from EMD. In case the tenderer falls in this category, it should furnish copy of its valid registration details (with MSME or NSIC, as the case may be)
  - A) The MSE’s Bidder to note and ensure that nature of services and goods/items manufactured mentioned in MSE’s certificate matches with the nature of the services and goods/items to be supplied as per Tender. Such bidders will upload proper Udyog Adhar Certificate from both side with specified validity and relevant service category.
  - B) Traders/resellers/distributors/authorized agents will not be considered for availing benefits under PP policy 2012 for MSEs as per MSE guidelines issued by Ministry of MSME.
- vi. A complete list of clients, who were supplied in past including clients from Govt. /Semi Govt. /Autonomous Bodies/PSUs Institutions/ Private entity/ MSME/ served during last three years with Name, Telephone No, etc. along with copies of supply order, may be enclosed.
- vii. Copies of supply order, completion certificate, as per eligibility criteria.
- viii. Details of Bank Account of Bidder i.e. Account No., IFSC Code, MICR No., Bank Name and address, PAN/TAN/TIN/GST, Registration number, if any.
- ix. Copies of Income Tax Return of last 3 financial years (2020-21 and 2021-22, 2022-23).
- x. Copies of audited balance sheet for the 3 financial years (2020-21 and 2021-22, 2022-23).
- xi. Copy of last 6 months bank statement

- xii. An authorization letter from the firm in favor of the person signing the tender documents.
- xiii. An attested copy of the certificate of registration/incorporation pertaining to the legal status of the Bidder/Firm/Agency, and Annexure I, II, III, IV and V
- xiv. An undertaking to the effect that the Agency/Firm has not been black listed in India and Abroad (Annexure-V).
- xv. The bidder will be required to give an undertaking on Non-Judicial Stamp Paper (Rs 100/-) that he will supply/erect the structures/goods in accordance with specifications of the supply/ work order. At any stage, if it is found that the substandard/deviation from the specifications/ design/ quality has been made by him, he is liable for penalty and legal action.
- xvi. Tender document with Annexure – I to Annexure V duly signed and stamped on each page as acceptance of the terms and condition laid down by the OUAT.
- xvii. **Caution:** All the bidders are specifically informed that while submitting tender, must ensure that signed documents as indicated in the tender documents are mandatory, otherwise tender will be similarly rejected and no second opportunity will be given to submit shortfall documents.

## **B. Financial Bid**

- i. The rates should be only in INR up to F.O.R (Freight on Road) destination basis up to (Location of CIC) including imported equipment.
- ii. The bidders should quote price of individual items, including all mandatory accessories required for successful operation.
- iii. In case of turnkey project, bidders are required to quote price of individual equipment, mandatory & optional accessories, pre-requisite items like civil work, electrical,PH and any other item/work for successful operation of the complete turnkey setup. If anything is required for successful operation of the turnkey project and the same has not been quoted by the bidder, it shall be borne by the bidder without any additional cost to OUAT.
- iv. Taxes, packing, forwarding, insurance price should be indicated clearly.
- v. The tender not submitted in the prescribed formats or incomplete in detail is liable for rejection. OUAT is not responsible for non-receipt of tender within the specified date and time due to any reasons.

## **6. EVALUATION PROCEDURE**

Tender will be evaluated in following manner:

- i. With regard to the matching of technical specifications of individual equipment., a deviation up to  $\pm 10\%$  can be considered by the Technical Evaluation Committee (TEC) on the recommendation of the user without compromising with the quality and its major functioning. In this regards, TEC decision shall be final.



- ii. The participating firm/agencies/bidders may be called for presentation before Technical Evaluation Committee on the date and time, as prescribed by the committee. The eligible agencies may be called through email only.
- iii. The financial bids of the technically qualified bidders will only be opened.
- iv. The financial bids of the technically non-qualified bidders will be returned as such.

## **7. THE AWARD OF WORK/SUPPLIES**

The bid of agency quoting lowest for the overall turnkey execution as per the scope of work in their financial bid i.e. L-1 bidder will be accepted as the successful bidder. Supply order will be placed to the successful tenderer/ bidder by the authorized signatory of the institution. Contract, will be signed with the successful bidder after issue of Letter of Award and receipt of Letter of Acceptance from the successful bidder.

## **8. GENERAL TERM & CONDITIONS**

- i. In case, after Pre-bid meeting (wherever applicable) any modification(s)/addition(s)/deletion(s) or any alternation in the requirement(s)/ specification(s) etc. is required, the same will be published on the Institute website (www.ouat.nic.in). Therefore, all the bidders are advised to visit our website before filling/submitted their tenders. No separate advertisement/information will be published in this regard in the Newspapers or any other location or any other mode of communication will be adopted.
- ii. The offered rates will be valid initially for a period of one year. During one year if any requirement arises, the ADR, RRTTS(CZ) can procure the items on same rate & terms & conditions from the L1 agencies.
- iii. EMD/Performance Security of successful bidder may be forfeited, if the bidder withdraws or amends or derogates from the tender in any respect. The successful bidder will submit the Performance Security @ 3% (O.M. 8952/F-FIN-COD-MISC-0007-2019 of Govt. of Odisha, dt 18-03-2021) of supply order in the form of Demand Draft within 15 days of the receipt of Work Order. The validity of Performance Security should be 90 days more than the warranty period and it will be retained during the entire period of Warrantee as Security Deposit and will be returned after the satisfactory completion of the Warrantee period without interest within three months after expiry of warrantee period.
- iv. In case the item(s) are fabricated/ finished in the campus, the Contractor/Agency shall ensure the protection of their items at site from theft, fire, cyclone, floodwater, moisture etc. or any kind of damage at their cost.

- v. The ADR, RRTTS (CZ) will not compromise with the quality & standard of the material. At any stage, if it is found that supplier has supplied inferior quality or different material or used inferior quality or different SS/MS material as specified in the supply order containing specification(s). Payment shall be made for such items after reasonable deduction(s)/rejection of the lot and forfeiting of Performance Security, as deemed fit, in the circumstances & decided by Institute.
- vi. The supplier will provide at least one year on-site guarantee on cladding material and three years on structure, and under guarantee period all the damages shall be repaired/replaced by the supplier at their cost and risk. If equipment has any manufacturing defects, the same will be preferably replaced from another one or repaired up to client satisfactions. No sub-standard material will be accepted.
- vii. ADR (CZ), Technical Evaluation Committee members can visit the work place of successful bidder, inspect the progress of work and instruct regarding quality aspect.
- viii. The rates quoted by the bidder shall be complete for supply and placing of the finished items as per the specification(s) and shall be inclusive of all applicable tax, duties loading, unloading, packing, transportation from works to site, installation etc. and nothing extra/additional shall be payable on these rates.
- ix. In any case, if tenders are not opened due to any reason, the Tender documents, processing Fee and EMD shall be returned to all bidders.
- x. Conditional Tender will not be accepted.
- xi. Tender without, tender Fees, EMD/Bid Security Declaration will be summarily rejected.
- xii. The Institute can ask any clarifications & documents at any stage of the procurement depending upon the circumstances to ascertain quality of material used in manufacturing of items.
- xiii. All the documents attached with the technical bid should be properly tagged, numbered, signed and stamped by the competent authority.
- xiv. EMD shall be forfeited in the following cases:
  - a. If the Bidder withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
  - b. If the bidder having been notified of the acceptance of his tender by the Buyer during the period of its validity, fails to supply, install and commission the equipment.
  - c. If the Bidder fails to furnish the Performance Security
  - d. If the Bidder fails to sign the agreement.
  - e. Fails to respond to queries by the ADR, RRTTS (CZ)/TEC.

- xv. If a tender, either the Indian agent on behalf of the Principal/ OEM (Original Equipment Manufacturer) or Principal/ OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.
- xvi. If an agent submits bid on behalf of Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product. While submitting the bids CVC guidelines may take due care.
- xvii. Two agents simultaneously shall not submit bid on behalf of same principal/OEM for same items/ products. Otherwise the EMD may be forfeited.

## **9. PAYMENT**

The payment will be made as mentioned below

- i. 50% within weeks' time on completion of the protected structures. The claim will be considered on submission of challan and on verification by the committee constituted by ADR, RRTTS(CZ).
- ii. 25% on completion of planting of desired plants in beds/benches/planting structures with irrigation facilities. The claim will be considered on submission of challan & on verification by the committee constituted by ADR, RRTTS (CZ).
- iii. 20% on successful establishment of plants inside the protected structures (Approximately, 3 months after planting) and handing over of structures along with plants & on verification by the committee constituted by ADR, RRTTS (CZ), Bhubaneswar.
- iv. 3% amount will be retained as performance security until the completion of warranty period. will be returned after the satisfactory completion of the warrantee period without interest within three months after expiry of warrantee period.
- v. TDS @2% (CGST/SGST/IGST as the case may be) shall be deducted and deposited into the supplier's account as per Govt. rule.

## **10. PRICES**

- i. The Price to be quoted F.O.R. (Freight on Road) RRTTS (CZ) only and it's should be inclusive of taxes, freight, Packing, Transit, Installation, Insurance, Inspection Charges etc.
- ii. Demurrage charges if any will be borne by the supplier only.
- iii. Prices charged by the supplier for materials and services performed under the contract shall not be higher than the price quoted by the supplier in his bid.
- iv. In case of reduction of taxes and other statutory duties during the scheduled delivery period, purchaser shall take into account these deductions in the taxes/duties for the supplies made from the date of enactment of revised duties/taxes.

- vi. In case of increase in duties/taxes during the scheduled delivery period, the purchaser shall revise the prices as per new duties/taxes for the supplies, to be made during the remaining delivery period as per terms and conditions of the purchase order.
- vii. Any increase in taxes and others statutory duties/levies after the expiry of scheduled delivery date or award of contract/work order shall be to the supplier account. However, benefit of any decrease in these taxes/duties shall be passed on to the purchaser by the supplier.
- viii. Odisha University of Agriculture and Technology is a non-profit, non-commercial premier institute engaged in teaching, research at undergraduate, postgraduate and PhD level and as such, do not have any commercial license. GST identification number of our university is 21AAAJ00250C1Z1
- ix. The authority (OUAT) reserves the right to accept or reject any/all tenders without assigning any reason(s).
- x. Tenders not on the prescribed Performa (attached), without requisite details, EMD and Processing Fee and received after the closing date/time of tenders and tenders with any rider will summarily be rejected. Canvassing in any form will be viewed seriously and if any tendered is found to be resorting to such practices the tender of such firm will be rejected.

## **11. WITHHOLDING OF PAYMENT**

This clause authorizes buyer to withhold payment till end when selected agency fails in its contractual obligation. The standard text of this clause is as under: “In the event of the Selected Agency’s failure to submit the Bonds, Guarantees and Documents, supply the deliverables etc. as specified in the Contract, the Buyer may at his discretion, withhold any payment until the completion of the Contract”.

## **12. RIGHT OF ACCEPTANCE OF OFFER**

- i. The Buyer reserves the right to accept partly or reject any offer without assigning any reason thereof. The Buyer does not pledge itself to accept the lowest or any other tender and reserves to itself the right of acceptance of the whole or any part of the tender or portion of the quantity offered and the seller shall supply the same at the rate quoted.
- ii. In respect of enquiries, which call for procurement of more than one item, the Buyer reserves the right to consider and accept the offer for any of the items in the enquiry reserving the right to utilize the offer for balance items at a later stage within the validity of offer.

### **13. NEGOTIATIONS**

Normally there will be no post tender opening negotiations and it would be only on exceptional circumstances, if considered necessary. This shall be held only with the Agency which is evaluated as L-1 bidder after evaluation of Financial bids, as indicated above. Under no circumstance, the financial negotiation shall result into an increase in the price originally quoted by the Agency.

### **14. COMPETENT AUTHORITY'S RIGHT TO VARY ITEMS/ACTIVITIES AT THE TIME OF AWARD**

The Competent Authority shall have the right to make any alterations, omissions, additions or subtractions in items/services at the time of award of contract. The Competent Authority will give such intimation to the successful Bidder, and additional cost/deduction in the Bid prices, based on the price schedule submitted by him, will be worked out with the Bidder. In case, the Bidder does not agree for such alterations, the Competent Authority will be free to award the contract to the next eligible Bidder.

### **15. APPLICABLE LAW AND JURISDICTION**

This contract, including all matters connected with this contract, shall be governed by the India laws, both substantive and procedural, for the time being in force and shall be subject to the exclusive jurisdiction of High Court of Odisha, if required.

### **16. INSURANCE AND MEDICAL**

- i. It shall be the responsibility of the agency to insure their staff and equipment against any exigency that may occur while carrying out the project activities. Agency will also take insurance cover for third party liability, which might occur due to damages caused to their manpower, equipment etc. The ADR, RRTTS (CZ), OUAT, Bhubaneswar shall not be responsible for any such damages.
- ii. Medical facilities (as per law) for professional including insurance of the professional related to the project will be provided by the Agency.

### **17. INDEMNIFICATION**

- i. The Seller shall indemnify and hold the Buyer harmless against all third party claims of infringement of patent, trade mark of industrial design rights arising from use of the stores supplied or any part thereof.
- ii. Agency shall at times indemnify and keep the The ADR, RRTTS (CZ), OUAT, Bhubaneswar indemnified against all claims/ damages etc. for any infringement of any Intellectual Property Rights (IPR) while providing its services under this contract.

- iii. Agency shall at all times indemnify and keep The ADR, RRTTS (CZ), OUAT, Bhubaneswar indemnified against any claims in respect of any damages or compensation payable in consequences of any accident or injury sustained or suffered by its (Agency) employees or caused by any action, omission or operation conducted by or on behalf of Agencies.
- iv. Agency shall at all times indemnify and keep The ADR, RRTTS (CZ), OUAT, Bhubaneswar indemnified against any and all claims by employees, workman, suppliers, agent(s) employed engaged or otherwise working for Agency, in respect of their wages, salaries, remuneration, compensation or the hike.
- v. All claims regarding indemnity shall survive the termination or expiry of the contract.

#### **18. FORCE MAJEURE**

- i. Should any force majeure circumstances arise, each of the contracting party shall be excused for the non-fulfillment or for the delayed fulfillment of any of its contractual obligations, if the affected party within 14 days of its occurrence informs in a written form the other party.
- ii. Force majeure shall mean fires, floods, natural disasters or other acts such as war, turmoil, strikes, sabotage, explosions, and quarantine restriction beyond the control of either party.

#### **19. PENALTY FOR USE OF UNDUE INFLUENCE**

- i. The Seller undertakes that he has not given, offered or promised to give, directly or indirectly any gift, consideration, reward, commission, fees brokerage or inducement to any person in service of the Buyer or otherwise in procuring the Contracts or forbearing to do or for having done or for borne to do any act in relation to the obtaining or execution of the Contract or any other Contract with the Government for showing or forbearing to show favour or disfavor to any person in relation to the Contract or any other Contract with the Government.
- ii. Any breach of the aforesaid undertaking by the seller or any one employed by him or acting on his behalf (whether with or without the knowledge of the seller) or the commission of any offers by the seller or anyone employed by him or acting on his behalf, as defined in Chapter IX of the Indian Penal Code, 1860 or the Prevention of Corruption Act, 1988 or any other Act enacted for the prevention of corruption shall entitle the Buyer to cancel the contract and all or any other contracts with the seller and recover from the seller the amount of any loss arising from such cancellation. A decision of the buyer or his nominee to the effect that a breach of the undertaking had been committed shall be final and binding on the Seller.

- iii. Giving or offering of any gift, bribe or inducement or any attempt at any such act on behalf of the seller towards any officer/employee of the buyer or to any other person in a position to influence any officer/employee of the Buyer for showing any favour in relation to this or any other contract, shall render the Seller to such liability/ penalty as the Buyer may deem proper, including but not limited to termination of the contract, imposition of penal damages, forfeiture of the Bank Guarantee and refund of the amounts paid by the Buyer.

## **20. RIGHT TO VARIATION CLAUSE**

To take care of any change in the requirement during the period between issue of Tender and conclusion of contract, Buyer reserves the right to increase or decrease the quantity of the required deliverables without any change in the terms & conditions and prices quoted by the Seller. While concluding the contract, the quantity can be accordingly increased or decreased at the same terms of conditions.

## **21. MODIFICATION AND WITHDRAWAL OF BIDS**

The bidders may modify or withdraw his bid after submission provided that the written notice of modification or withdrawal is received by the Buyer prior to the deadline prescribed for submission of bids. A withdrawal notice may be sent by Email but is to be followed by a signed conformation copy by post not later than the deadline for submission of bids. No bid shall be modified after the deadline for submission of bids. No bid may be withdrawn in the interval between the deadline for submission of bids and expiry of the period of specified bid validity. Withdrawal and modification of bid during this period will result in forfeiture of Bidder's Bid Security.

## **22. LIQUIDATED DAMAGES (LD)**

In the event of the seller's failure to submit the Bonds/Guarantees/ Documents or/and supply/perform the items/services as per Delivery schedule specified in the contract, the Buyer may, at his discretion, withhold any payment until the completion of the contract. The buyer may also deduct LD to the sum of 0.5% of the contract price of the delayed/undelivered stores/ services mentioned above for every week of delay or part of a week, subject to the maximum value of the Liquidated Damages being not higher than 10% of the value of delayed stores/services.

### **23. CANCELLATION OF THE CONTRACT**

The ADR, RRTTS (CZ), Bhubaneswar shall have the right to terminate the Contract, arising out of finalization of this tender, in part or in full in any of the following cases:

- i. The delivery of the material or start of works is delayed for causes not attributable to Force Majeure for more than 10 days after the scheduled date of delivery.
- ii. When both parties mutually agree to terminate the contract. At any stage without assigning any reason thereon.

### **24. CLARIFICATION ON BID DOCUMENTS**

Bidder requiring any clarification to this Tender Document shall attend the Pre-bid meeting on the date notified by Buyer. Also the bidders may send their queries to the Buyer via email not later than 2 days prior to the Pre-bid meeting on the following email Address:

E-mail: [rrts.bhubaneswar@ouat.ac.in](mailto:rrts.bhubaneswar@ouat.ac.in)

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**Annexure- I****Tender Form (Technical Bid)**

(To be submitted by the tenderer on their letter head. All Columns must be filled in. Relevant documents in relation to these must be enclosed with the technical bid. The bid will be examined based on the document submitted.)

<b>S. No.</b>	<b>Particulars</b>	<b>Details (to be filled by the tenderer)</b>	<b>Enclosure Page no.</b>
1.	Name of Firm with address, mobile/phone no. & e- mail.		
2.	Tender fee details (Amount DD no., Bank Name, Amount date)		
3.	EMD details (Amount, DD no., Date, Bank's Name a/c no. a/c holder name, Branch IFSC code)- (as per the mode of submission)		
4.	Bid security declaration, if required		
5.	Type of Firm (Proprietor/ Partnership/ Pvt. Ltd./ Public Ltd.		
6.	Registration Number (Copy to be enclosed)		
7.	Year of Incorporation of the agency (copy to be enclosed) along with the latest registered address of corporate office.		
8.	Length of relevant experience in years		
9.	GST Registration(Copy to be enclosed)		
10.	PAN No. (Copy to be enclosed)		
11.	Please enclose list indicating ie. Name of organization, details of work, Quantity Amount, Contact/ Phone No., Email address. Please also enclose either PO or performance certificate For each details.		
12.	Annual Turnover of the company in Lakhs of Indian Rupees during last three years. (Copy to be enclosed or certificate issued by CA) a) Financial Year2020-21 b) Financial Year 2021-22 c) Financial Year 2022-23		

13.	A complete list of clients including clients from Govt./Semi Govt./Autonomous Bodies/PSUs Institutions served during last five years with Name, Telephone No, etc along with copies of supply order.		
14.	The bidders should attach successful satisfactory completion certificates issued by the clients (during last 5 years) as documentary evidence in support to above eligibility criteria. The certificate should contain date of start, date of completion; value on completion etc.		
15.	Business Details		
16.	NISC Documents		
17.	ISO details		
18.	Copies of Income Tax Return of last 3 Financial Years		
19.	An authorization letter of the firm in favor of the person signing the tender documents.		
20.	Tender document with Annexure –I to Annexure V duly signed and stamped on each page as acceptance of the terms and condition aid down by OUAT		

The above documents must be enclosed with proper pagination.

Signature.....  
Name .....  
Address .....  
Mobile: .....

Date:-

Seal of firm.

**FINANCIAL BID**

<b>Sl. No.</b>	<b>Description of Item</b>	<b>Qty</b>	<b>Unit</b>	<b>Unit Rate</b>	<b>GST</b>	<b>Total Amount</b>
1.						

**Date:**

**Signature of Bidder with Stamp**

## Technical specifications for Polyhouse with Fan pad cooling system with Dendrobium orchid

Sl. no	Item	Specifications			
01	Size	300 sqm			
02	Shape	Aero Dynamic along all four sides with curvature shaped hockey pipes of 48.0 mm OD G.I. pipes with a view to reduce the impact of wind and consequent damage of poly House structure, -Gutter Orientation – North South and may change according to wind direction . PAD should be in wind direction and must have covered elevated balcony for shade.			
03	Structure	Hot Dip Galvanized Tubular Structure of BIS standards. Galvanization of the structural members should not be less than 300 GSM (grams per square meter).			
	Withstand to wind velocity	Structure should withstand to minimum wind velocity of 150 km/hr			
	Size of the structural members	Members Name	Outside Diameter (mm)	Thickness(mm)	Wt. per meter length (kg)
		Columns	76	2	3.75
		Top purlins	48(Ridge)	2	2.30
		Gutter purlins	42/43 (centre)	2	2.10
		Top Arches of the truss	42	2	2.10
		Bottom chord of the truss Horizontal (G I pipe)	60	2	2.85
		Top chords and trusses members	48/43	2	2.30/2.10
		Internal Bracing of the truss- pipe structural members to be fitted in plated nuts, bolts and washers without welding	33	2	1.60
		Coridors/ Balconies	60	2	2.85
		Curtain Runner	42	2	2.10
		Flap control pipe	21	2	1
		Curtain shaft	27	2	1.30
		Cross Bracing	33	2	1.60
		Note : Welded pipes should not be used for structure erection except bottom pipe of 8m length.			
	Columns	76 OD 2.0mm thick			
	Purlin	48 mm OD /2.0 mm thick at ridge and 42/43 mm OD /2 mm thick for centre			
	Trusses	Bottom horizontal 60 mm OD/2 mm G.I. pipe , top chords and truss members 48 mm OD /and 43 mm OD2.0 mm thick Bracing 32 mm OD/ 1.8 mm thick G.I. pipe structural members to be fitted in plated nuts, bolts and washers without welding			
	Clamps and Nut Bolts	Well compatible GI Clamps <120 GSM , 2 mm thickness.			

4	Grid size	8 m X 4 m (ideal size ) size can be less depending upon space availability but not more 8m X 4m grid size.
5	Balcony and corridor	2 meter wide vertical/curved pipe -60 mm OD/2 mm thick G.I. pipe with 32 mm OD/1.8mm thick horizontal GI pipe supporting pipe . Area covered by corridors should not be included while calculating the area under poly house
6	Foundation	Pit size should be min 450 mm dia, depth 750 to 900mm or suitably altered depending upon ground strata / level so as to ensure safety and stability of the structure even under extreme wind conditions. Columns are fitted over ground “inserts” and bolted to insert pipe of 60 mm OD/2mm thick GI pipe length of insert 1200to 1300 mm &filling the pit with 1:2:4 concrete hand mixed with appropriate grade cement. Before doing the line out for the foundation, ensure that slope of green house ground along the gable should be 0% to 1% and along gutter min. 1%and max 3% . Slope along the gable and gutter should be uniform.
7	Gutter	Should be made of Galvanized sheet of 2mm thickness in trapezoidal shape having 500 mm wide perimeter (preferably of single length without joint ).Coil having 120 GSN Galvanization. It should be leak proof. Min. slope required for the gutter – 1% . Assure uniform slope to avoid water stagnation and achieve maximum life of gutter. Gutter orientation –North – South and may change according to wind direction.
	(a)Gutter height	4 m to 4.5 m
	(b) Gutter slope	1 to 1.5% to be provided in civil structural work
	Ridge height / centre height	Minimum 5 to 6.5 meter
8	Fasteners	Cold Galvanized well compatible M6 to M 10 bolts & nuts, 50 to 150 mm long with plain washers as per requirement and with the best quality plating to have good anti-corrosiveness.
9	Poly film	Technical specifications of polythene should be as per Indian standard (IS15827: 2009 ) To select the proper film for poly- house is very important and which has direct relation with quality of the crop as well quantity of the produce. Polythene should be properly UV stabilizedand should last for at least three years. Thickness of polythene should be minimum 200 micron (0.2mm). Options in green house film Compulsory properties: *UV stabilization *Diffusion /clear (light transmission) Optional properties: *UV Blocking /Antivirus * Sulphur Resistant *Thermic *Anti drip *Anti mist * Anti dust
10	Thermal net	30 to 50%, alluminate/thermal net as per requirement -minimum 100 GSM - power operated crank mechanism should be provided for expanding and retracting the shade net.
11	Poly fixing	C type profile made from Alloy Aluminum should have – high strength with light weight – (approx220-250 gm/rmtrs),smooth edges , curve bottom proper for 1.25” to 3” pipe , proper channel for spring and suitable for double spring locking 0.9mm thick . self drilling screw should be fixed on profile every 40 cm along the full length of the profile
12	Spring insert	A plastic coated GI wire spring of 2.2mm diameter, having good elasticity.
13	Entrance	Double door entry, door should be made of from FRP Sheets or polycarbonate sheets. Opening and closing is either hinged or sliding .mini. width of door should be 1.2M and min height 2M.the door area should have 50 mm PCC flooring over 75 mm thick sub

		base. Foot wash basin (2ft X 3ft X 0.5ft)
14	Civil work	Wall on fan side will be 35mm thick and 80 cm high and wall on pad side will be 23 cm thick & 100 cm high from ground level in cm 1:6 with required foundation . All the walls will be plastered in cm 1:4 on top and sides .80cm to 1m wide and 10 cm thick footpaths made of cement concrete ratio of 1:2:4 should be provided as per the requirements.
15	Electrical fittings	Conduit and wiring as required for connecting light, fan, motor and pumping to main electrical supplies. Copper wire to with stand the lode of the electrical appliances of Indian standards.
16	Irrigation system	Drip irrigation system
17	Climate Control system	
A	Fan- pad system	-numbers of fan depends upon size of fan- fad house and be capable of exhausting air volume in one minutes. -Exhaust fans-50 ‘‘ however it depends upon sized of fan –pad house with louvers, 1.5 HP-3 Phase ISI standard electric motor. -cellulose cooling pads of 1.8 meter height with 100mm/150 mm thickness covering the area properly, PVC water distribution system, screen/disc filter , valve and pumps etc. -control panel with automatic operation, temp and humidity sensors. -the necessary digital controller with sensory device & accessories of standard quality as per requirement should be provided to operate the fan &pad system for controlling temperature & humidity inside the greenhouse .
B	Fogging system	Consisting of four way anti leak fogger 28 lph flow rate (working pressure should be mentioned at with we will be able to get required particle size fogger spacing along the lateral and lateral spacing) and particle size 80-100 micron, 16 mm, lateral class-3 PVC pipe 6kg/cm <sup>2</sup> , valves filter, pump, Panel with volt meter, MCB, relay, temp and humidity sensor etc. Complete application rate 3 mm/ hr.

#### Planting of Orchid in Fan-Pad Polyhouse

Scope of work	The scope of the work includes preparation of bed, supply and planting of seedlings and its maintenance of the plants for 3 months from the date of planting as per the instruction of Officer-in-Charge . The cost of all man and materials required for establishing and maintenance of the crop are under the scope of this work if not specifically stated otherwise.
Planting density	Dendrobium Orchids to be planted on elevated beds of 1 mtr width and suitable length at an interbed distance or path of 1m width. The beds are made up using concrete pillars, net supported over 6 lines of mono filament wires. The plants are to be placed in 4 rows at a distance of 20 cm from plant to plant on the bed maintaining a planting density of 20 nos. of plants per sqm of bed area and 10 nos. of plant per sqm of gross area of land.
Preparation of Raised Bed	RCC poles prepared with cement concrete of 1:2:4 (1 cement : 2 Sand : 4 stone aggregates) reinforced with 4 nos. of 6 - 8 mm rod. Three types of poles to be used. Big poles to be placed at 6 m distance or less with length of 150 cm and minimum 15 cm x 15 cm and with holes for support of plant, and 4 nos. per bed for support in slanting position. Small poles of 1 m length and minimum 10 cm x 10 cm thick to be placed at 1.5 m distance at the rate of 10 nos. in 6 m span to form the frame of elevated bed. GI Pipes (48 mm dia, 2 mm thick, 1 m long) to be placed at each end of bed, i.e. 2 nos. per bed, for support. Monofilament wire (2.5 mm thick, 6 lines) tied along the entire length of base to form the base of the bed.

	A mono filament net of 1.5 m width is to be covered on entire length of the bed. Extra two rows of 2.5 mm thick mono filament wire to be provided at each side of bed to provide support to the plant when they grow up and prevent lodging. UV Stabilized Plant support Trellising rope to be placed above each row of plant in bed.
Selection and placing of Coconut Husk	Supply of good quality coconut husks, treating them with 0.2% suitable fungicide, placing them over the bed uniformly for planting of orchid seedlings.
Planting	Supply and planting of good quality tissue culture orchid plants (Var. Sonia 17, White Fairy), minimum 15 cm high with a minimum of 4 leaves per plant are to be planted in 4 rows at a spacing of 20 cm from plant to plant over the coconut husk.
Support to plants	Plants to be kept in upright position root touching the coconut husk. The top portion to be tied to the plant support trellising rope to keep the plants in firm position.
Fertigation	Supply and application of water soluble fertilizer NPK (16:8:24 ) @ 2 Kg per acre twice in a week.
Intercultural operations	Weeding, removal of old leaves and other intercultural operations essential for orchid cultivation are to be taken up as and when necessary.
Pest Control	Supply and application of appropriate pesticide/ fungicide in time to keeping the plants pest and disease free.

**TENDER CONDITIONS ACCEPTANCE LETTER  
(To be given on Company Letter Head)**

Date:

To, .....

Sub: Acceptance of Terms & Conditions of

Tender. Tender Reference No: .....

Name of Tender / Work: Tender for supply and installation of Polyhouse with Fan pad cooling system with Dendrobium orchid for Technopark at RRTTS (CZ), Bhubaneswar.

Dear Sir,

1. I/We have downloaded/obtained the tender document(s) for the above mentioned Tender/Work from the web site(s) namely:

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as per your advertisement, given in the above mentioned website(s).

2. I / We hereby certify that I / we have read entire terms and conditions of the tender documents from Page No. 01 to ..... (including all documents like annexure(s), schedule(s), etc.) which form part of the contract agreement and I / we shall abide hereby the terms / conditions / clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/ organizations too have also been taken into consideration, while submitting this acceptance letter.
4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.
5. In case any provisions of this tender are found violated, your department/ organization shall be at liberty to reject this tender/bid including the forfeiture of the full said Earnest Money Deposit absolutely and we shall not have any claim/right against deptt in satisfaction of this condition.

Yours Faithfully,

(Signature of the Bidder, with  
Official Seal)



## UNDERTAKING

Annexure-V

To,  
The ADR, RRTTS (CZ)  
OUAT, Bhubaneswar

Sir,

1. I/we the undersigned, certify that I/we have gone through the terms and conditions mentioned in the tender documents and undertake to comply with them.
2. It is further certified that our firm has not been blacklisted by any agency in India or abroad.
3. We will supply the goods in accordance to the specifications of the work order. At any stage, if it is found that the substandard /deviation from the specifications/ design/quality has been made by us, we shall be liable for penalty and legal action.

Dated:

SIGNATURE OF THE TENDERER

WITHSEAL

NAME OF THE TENDERER

WITH ADDRESS

**NOTE:** Certificate as per above must be submitted only on non-judicial stamp paper of Rs. 100/- (Rs One Hundred Only)

**Bid-Securing Declaration Form**

*Date:*

*Bid No.:*

To

**(insert complete name and address of the bidder)** I/ We. The undersigned, declare that:  
*I/We understand that, according to your conditions,*

*I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We*

(a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or

(b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

(c) I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of

- (i) the receipt of your notification of the name of the successful Bidder; or
- (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: **(insert signature of person whose name and capacity are shown)** in the capacity of **(insert legal capacity of person signing the Bid Securing Declaration)**. Name: (insert complete name of person signing the Bid Securing Declaration)

Duly authorized to sign the bid for an on behalf of: **(insert complete name of Bidder) Dated on \_\_\_\_\_ day of \_\_\_\_\_ (insert date of signing) Corporate Seal (where appropriate)**

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint venture)

