

**INDIAN PLYWOOD INDUSTRIES RESEARCH AND TRAINING INSTITUTE
Post Bag No.2273, Tumkur Road, Bangalore – 560 022.**

Tender No: SS/56/2011-12/Mizoram Project

29.10.2011

**TENDER DOCUMENT FOR FABRICATION, SUPPLY, INSTALLATION AND
COMMISSIONING OF HOT AIR OVEN AT AIZAWL,MIZORAM**

**Tender Part I-Technical competence bid (PRICE AND QUANTITY NOT TO BE QUOTED)
Tender Part II- Quantity and Price bid**

COST OF TENDER DOCUMENT Rs.250/-

RECEIPT NO.....

DATED:.....

Tender issued to M/s.

.....

.....

Administrative Officer/Section Officer

Last date for submission of Tender: 18-11-2011 at 11.00 a.m.

I N D E X

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Date.29.10.2011

Notice Inviting Tenders

- I. Sealed tenders are invited in two parts viz., **Part I** –Technical competence bid and **Part II**-Quantity and Price bid in two separate sealed covers duly superscribed with tender number, name of the item and Tender Part No(viz., Part I/Part II) from well known Manufacturers of **Hot Air Oven as per technical specification, vide Annexure I.**

Tender **Part I** –Technical competence bid, consisting of only Technical Competence to undertake the work should furnish details on Work experience, past performance, infrastructure facilities, list of customers etc., The eligibility of the tenderer will be based on the following criteria.

Criteria I

- (a) Should have engaged in the manufacture and supply of **Hot Air Oven** Give details of the organization and work experience. Furnish list of customers as per format in Annexure II
- (b) Technical capabilities of the manufacturers with respect to in-house facilities such as Machinery, Tools, Precision Instruments, Design Dept, Plant/Workshop space availability, Man power and other required infrastructure facilities
- (c) Income Tax and sales tax clearance certificates

Submission of tender Part I without any of the above such documents is liable for rejection. A check list to avoid rejection of the tender (use format in Annexure III) should be compulsorily submitted along with **Part I -Technical competence bid.**

Tender **Part II** – Quantity and Price bid consisting of Schedule of quantities with price should accompany with the following documents. Design details, complete and detailed technical specifications etc., should be provided.

The offer Part II should be submitted in the following format only as given in Criteria II (Otherwise the offer will be liable for rejection)

Criteria II

- | | | |
|----------|---|---|
| A | (1) Ex-Works price OF HOT AIR OVEN | : |
| | b. Mandatory Spares, if any | : |
| | (2) Packing, forwarding and unloading charges | : |
| | (3) Insurance up to destination | : |
| | (4) Transportation charges up to Destination: Advanced Research Centre for Bamboo and Rattans, Mizoram | : |
| | (5) Excise Duty % | : |
| | (6) Taxes % | : |
| | (7) Other charges like installation and commissioning | : |
| B | (1) Recommended Spares, if any | : |
| | (2) Guarantee/Warranty Period | : |
| | (3) After Sales Service | : |
| | (4) Delivery Period | : |
| | (5) Validity of the Offer | : |
| | (6) Payment Terms | : |

The tenders for the work will be received by the Administrative Officer in his office up to **11.00 a.m. on 18-11-2011**. The sealed tenders **Part I** -Technical competence bid will be opened by the Joint Director at 2.00 p.m. on the same day if possible, otherwise on the next working day in the presence of the tenderers. The tender documents can be had in person/by post from this office on any working day against written request enclosing therewith attested copy of Company Registration Certificate on payment of Rs.250/- by Cash / Demand draft drawn in favour of Director, IPIRTI, Bangalore-560 022 which is non-refundable. The Tender document will be sent by Speed Post/Registered Post to those who have requested by Post at their risk.

- | | | | |
|------|---|---|---|
| I. | Name of work | : | FABRICATION, SUPPLY, INSTALLATION AND COMMISSIONING OF HOT AIR OVEN AT ADVANCED RESEARCH CENTRE FOR BAMBOO AND RATTANS, AIZAWL, MIZORAM |
| II. | Approximate Amount | | |
| | Estimated | : | Rs 3,50,000/- |
| III. | E.M.D. Amount | : | Rs.7,000/-,To be submitted along with Part I. |
| IV. | Cost of Tender Document
(Non-refundable) | : | Rs.250/- |
| V. | Issue of Tender Documents | : | 18-11-2011 upto 11.00 a.m. |
| VI. | Date of submission of sealed tender | : | 18-11-2011 up to 11.00 a.m. |

- VII.** Date of opening of Tender : Part I – Technical competence bid at 2.00 p.m. on 18-11-2011
Part II – Quantity and Price bid, to be intimated separately to Qualified Tenderers in Part I - Technical competence bid
- VIII.** Date of completion of work : Maximum **90 days** from the date of executing the articles of agreement.
- IX.** The tenderer should deposit along with the tender a sum of Rs.7,000/- only by means of crossed DD in favour of Director, IPIRTI, Bangalore – 560 022 as Earnest Money Deposit (EMD). The amount will be refunded to unsuccessful tenderers within one month from the date of opening of the tender part II without interest therefor. The Director, IPIRTI reserves the right to accept and or reject any/all tenders without assigning reasons therefor and/or to award the work either in part or in full.
- X.** The successful tenderer shall pay the additional amount towards security deposit at the rate of 3% of the amount tendered by him after adjusting the EMD and execute an agreement within 7 days from the date of work award letter failing which EMD will be forfeited.

Director
IPIRTI, Bangalore

LETTER OF ACCEPTANCE
(To be submitted along with Part II)

The Director,
IPIRTI, P.B.No.2273,
Tumkur Road,
Bangalore - 560 022.

Dear Sir,

I/We, hereby tender for the execution of the work specified in the under mentioned memorandum within the time specified in such memorandum at the rates specified therein and in accordance in all respects with the specification and instructions in writing which have been read by me/us, read and explained to me/us and with such materials as are provided for by and in all other respects in accordance with such conditions so far as possible.

MEMORANDUM

- | | | | |
|----|--------------------------------------|---|---|
| 1. | General description of work | : | FABRICATION, SUPPLY, INSTALLATION AND COMMISSIONING OF HOT AIR OVEN AT ADVANCED RESEARCH CENTRE FOR BAMBOO & RATTANS, AIZAWL, MIZORAM |
| 2. | Estimated cost | : | Rs.3,50,000/- |
| 3. | EMD | : | Rs. 7,000/- |
| 4. | Security Deposit | : | 3% of the Tendered amount including EMD |
| 5. | Tenders to be submitted on or before | : | 11.00 a.m. on 18-11-2011 |
| 6. | Time allowed for completion of work | : | Maximum 90 days from the date of work award letter. |
| 7. | Specifications | : | The work shall be carried out as explained in tender document. |

Should this tender be accepted, I/we hereby agree to abide by and fulfill all the terms and provisions of the conditions contained in the articles of Agreement, Notice Inviting tenders and Conditions of Contract, etc., which have been read by me/us, and explained to me/us so far as applicable or in default thereof to forfeit and pay to the

Institute or their successors in office the sums of money mentioned in the conditions of contract, articles of Agreement and Notice Inviting Tender.

Dated thisday of
2011.

.....
Tenderer's signature with seal

Address:

Witness to Tenderer's signature

Address:

The above tender is hereby accepted by me on behalf of the Indian Plywood Industries Research and Training Institute, Bangalore.

Dated this day of
.....

.....
Signature of the Officer by whom accepted

GENERAL INFORMATION TO TENDERERS

1. The supplier shall make all provisions for safety of his men and materials including insurance for fire and accidents. An indemnity bond in the form appended shall be submitted indicating clearly that the Employers are free from such responsibility and encumbrances.
2. No sub-letting and sub-contracting in any form is allowed.
3. Quality of work and quantities shall be notified to the Employer whose technical personnel or of consultant will certify the work. Any defect or shortcoming in the work shall be made good by the supplier to the full satisfaction of the Employer.
4. Working hours of the Institute are normally from 9.00 a.m. to 5.30 p.m. Monday to Friday. If the supplier wishes to deploy his workmen beyond working hours and on holidays, prior permission of the Employer shall be taken.
5. The time allotted for supply the equipment is 90 days from the date of work award letter.

@@@

UNDERTAKING TO BE GIVEN BY THE TENDERER

(To be submitted along with Part II)

We, thehaving registered
office at

.....do hereby declare and affirm the following:

1. We are aware of all statutory and legal requirements of Central and State Governments as well as local regulations applicable to the work. Consequences due to violation of these Acts, Rules and Regulations shall be borne by us and the Employer/Consultant are indemnified from any charge directly or indirectly arising therefrom.

2. That this undertaking forms part of the Agreement and contract documents.

WITNESS:

Signature of the Tenderer with seal

ARTICLE OF AGREEMENT

ARTICLE OF AGREEMENT made at Bangalore this day

.....between the INDIAN PLYWOOD INDUSTRIES RESEARCH AND TRAINING INSTITUTE registered under the Karnataka Societies Registration Act 1960, having registered office at Tumkur Road, Bangalore (hereinafter referred to as the EMPLOYER which expression shall include its successors and assignees) of the ONE part and.....(hereinafter called the CONTRACTOR) of the OTHER part.

WHEREAS the Employer is desirous of getting done the work for **FABRICATION, SUPPLY, INSTALLATION AND COMMISSIONING OF HOT AIR OVEN AT ADVANCED RESEARCH CENTRE FOR BAMBOO AND RATTANS, AIZAWL, MIZORAM vide Annexure I.**

AND WHEREAS the Contractor has agreed to execute the aforesaid work on terms and conditions mentioned herein and subject to the conditions of contract, schedule of quantities, specifications, etc. (all of which are collectively hereinafter referred to as the said conditions).

Now it is hereby agreed and declared by and between the parties hereto as follows:

1) In consideration of the payment to be made to them as hereinafter provided the contractor shall, subject to schedules such as the conditions of contract, specifications, schedule of quantities, etc. execute and complete the work within maximum of **90 days** from the date of work award letter.

2) The employer shall pay to the contractor such sums as shall become payable hereunder at the time and in the manner specified in the conditions of contract.

3) Time is the essence of this Agreement and the Contractor shall pay or allow the Institute to deduct @ 0.5% per week of the contracted amount as a Liquidated damages. If sufficient justification is not made regarding the delay The employer may deduct such damages from any monies due to the contractor under this Agreement or any other Agreement that may subsequently entered into between the parties. The order is liable to be cancelled if the accumulated penalty exceeds 5% of contracted amount. EMD & Security Deposits will also be forfeited.

4) The schedules above mentioned shall form an integral part of this Agreement and the decision of the employer in reference to all matters of dispute as to material and workmanship shall be final and binding on both the parties.

5) The employer reserves to themselves the rights of altering the drawings of the works and of adding to or omitting any item of work from or of having portions of the same carried out departmentally or otherwise and such alterations or variations shall not vitiate this Agreement.

6) The security deposit of the Contractor shall be forfeited if he fails to comply with any of the conditions of the contract.

7) This Agreement comprises the works above and all subsidiary works connected therewith, even though such works may not be shown on the schedules appended herewith.

8) Notwithstanding anything contained in the tender submitted by the Contractor, all the clauses of this Agreement shall be binding on both the parties.

9) If any dispute shall arise between the parties touching these presents or any of the matter covered by the schedule herewith appended or the construction of operation thereof or the rights, duties or liabilities of either party hereunder, such dispute shall be referred to two arbitrators, one to be appointed by each party or in the event of their not agreeing then to the award of an Umpire to be appointed by them in writing before entering on the reference and the decision of the arbitrator or the Umpire as the case may be and shall be final and binding on both the parties. Such arbitration shall be governed in all respects by the provisions of the Indian Arbitration Act 1940, as amended from time to time and the Rules thereunder.

IN WITNESS WHEREOF the Parties hereto have set their respective hands the day and the year hereinabove written.

Signed by, for and on behalf of the Institute in the presence of

1)

2)

Signed by, for and on behalf of the said contractor(s) by their partners in the presence of

1)

2)

Terms and Conditions of contract

1. The tenderer is required to examine carefully - the form of tender showing Technical Specification, nature of work and the Articles of Agreement before pricing the quantities.
2. The quantities set out in the tender form are only approximate. However Design details, Technical Specifications etc, are to be submitted along with the tender.
3. The tenderer whose tender is accepted will be required to sign an agreement for the due fulfillment of the contract. A copy of agreement is attached. If the successful tenderer default in signing the articles of agreement on a stamp paper of Rs.250/- within seven days of issue of the letter awarding the contract, the deposited Earnest Money Deposit will be forfeited and his tender will be treated as cancelled.
4. Alterations in the tender document by the tenderer will render the tender to be rejected. No subsequent correspondence regarding price will be entertained, once the tender is opened.
5. Time is the essence of contract and Fabrication, supply, installation, commissioning is time bound under the project. The work should be completed on turn key basis within a maximum period of **90 days** from the date of work award letter. Tender with early delivery schedule will be given preference. Penalty clause will be enforced for non-completion of work within the stipulated period.
6. Retention amount at 3% shall be deducted from the tendered amount.
7. No 'C' or 'D' form will be issued by us. However the concessional rate of Central Sales Tax admissible to Research Institutions on purchase of Scientific Instruments/equipments, etc., from certain States like Maharashtra, Delhi, West Bengal, Tamilnadu, etc., is applicable to this Institute. Sales tax and/or other taxes if any, should be specified separately.
8. The offer should be for Ex-Works price of **FABRICATION, SUPPLY, INSTALLATION AND COMMISSIONING OF HOT AIR OVEN AT ADVANCED RESEARCH CENTRE FOR BAMBOO AND RATTANS, AIZAWL, MIZORAM.**
9. A high standard of workmanship is required. Final payment will be made only after the completion of work to the entire satisfaction of the authority.

10. As this Institute is an autonomous body of the Ministry of Environment & Forests, Govt. of India, discount applicable should be shown separately.
11. Your rates should be **valid** at least for a minimum period of **six months**.
12. You may contact representative's authorized by the Director IPIRTI for any Technical clarifications.
13. The Manufacturers have to procure materials from their own source provided they are in accordance with specification. Tests certificates are required to be produced for the materials used whenever required.
14. Income-tax will be deducted at source as per rules. Retention amount at 3% will be deducted from the bill.
15. Security deposit along with Retention amount will be released after the expiry of defects liability period of one year from the date of installation and commissioning of the Hot Air Industrial Oven.
16. Security Deposit of the successful tenderer will be forfeited if he fails to comply with any of the conditions of the contract.
17. Your bill in triplicate should be submitted along with completion certificate for making payment.
18. Successful tenderer shall submit Articles of Agreement on Non-judicial Stamp paper of Rs.250/- before commencement of work and should deposit 3% of the Tendered amount towards security deposit for executing the work adjustable with EMD. Director, IPIRTI reserves right to accept any or reject all quotations without assigning any reasons thereon.
19. The quoted price in Tender Part II - Quantity and Price bid should not be specified in anywhere in Tender document Part I - Technical competence bid, if mentioned, tender is liable to be treated unqualified.
20. The tenderers are requested to submit the price quoted and technical specification of the work in Part II – Quantity and Price bid, superscribing, the cover with Tender No, Name of the item and Tender Part No(viz., Part I/Part II)
21. Any conditional tenders will not be accepted.
22. The tenderer should have sufficient working capital for carrying out the work.
23. Technical Specification and Nature of Work to be carried out is as per Annexure-I of the tender document which is approximate and liable for alteration, omission, deduction and addition at the discretion of the Director, IPIRTI .

24. Director at his desertion can pay upto 50% of the total amount on receipt of the materials at the point of delivery.
25. Tender document may be down loaded from **the website www.ipirti.gov.in** **The cost of tender document may be remitted at the time of submission of your tender. Omission/addition/deletion in the tender document are found will be treated as unqualified tender.**
26. Tender Documents Part I – Technical competence bid and Part II – Quantity and Price bid should be submitted in separate covers only. Tender Part II - Quantity and Price bid will be opened only if the tenderer qualifies the conditions in Part I - Technical competence bid. The date of opening of the same will be intimated separately and will be opened in front of the qualified tenderers present.
27. The work shall not be considered as completed until the employer has certified in writing that they have been completed in all respects and the defects liability period shall commence from the date of such certificate and satisfactory report by the representatives authorized by the Director IPIRTI.
28. Liquidated damages for Non-completion of work within stipulated period will be charged @ 0.5% per week for the delayed period, till the penalty accumulates upto 5 % of the contracted amount and thereafter the contract is liable for cancellation.
29. The decision of the Director, IPIRTI, Bangalore, shall be final conclusive and binding on the supplier/tenderer.
30. All disputes shall be subject to the jurisdiction of the Courts in the City of Bangalore, Karnataka, State, India.

PAYMENT AND PENALTY
(To be submitted along with Part II)

1. Name of work : **FABRICATION, SUPPLY, INSTALLATION AND COMMISSIONING OF HOT AIR OVEN AT ADVANCED RESEARCH CENTRE FOR BAMBOO AND RATTANS, AIZAWL, MIZORAM vide Annexure I.**
2. Date of completion of work : The work should be completed on turnkey basis within a maximum of **90** days from the date of work award letter.
3. Defects Liability Period : One year from the date of commissioning
4. Security Deposit to be deposited before commencement of work : 3% of the tendered amount including EMD
6. Liquidated damages for non-completion of work in time : 0.5% per week will be charged for the delayed period up to 5% of the contracted amount and there after it is liable for cancellation.
7. Retention amount. : Retention amount at 3% of the Bill amount.
8. Release of Security deposit and Retention amount : Security deposit along with retention amount will be released after the expiry of defects liability period of one year from the date of completion of work against pre-receipted bill.

Signature of Tenderer with seal

Place:

Date:

ANNEXURE I**TECHNICAL SPECIFICATION AND NATURE OF WORK****Fabrication, Supply, Installation & Commissioning of Hot Air Oven at Advanced Research Centre for Bamboo and Rattans, Aizawl, Mizoram.****Technical Specification:**

1.	Test Space Dimensions	<ul style="list-style-type: none"> ▪ 1500L (1500L x 1000W x 1000H) mm
2.	Temperature Range	<ul style="list-style-type: none"> ▪ Ambient temp to 150°C within 30 Min.
3.	Temperature Fluctuation	<ul style="list-style-type: none"> ▪ 0.1°C to 1°C
4.	Temperature Gradient	<ul style="list-style-type: none"> ▪ 0.5°C to 1.5°C
5.	Housing	<ul style="list-style-type: none"> ▪ Mono block construction that comprises all systems necessary for operation. ▪ Outer material to be primed and phosphated. ▪ Color Grey Epoxy based Electrostatic powder coating for a good aesthetic look. ▪ The exterior surface should have high wear resistance. ▪ Cold rolled mild steel for all panels and chassis.
6.	Test Space	<ul style="list-style-type: none"> ▪ Pre-polished stainless steel with high gloss brush finish. ▪ 18swg stainless steel with reinforced bottom floor should be provided to withstand a distributed load of 500Kg/m². ▪ All seams to be TIG welded ensuring a vapor tight enclosure. ▪ Available with a clear workspace. ▪ Double continuous seal rings of High temperature resistant gasket to be mounted on a thermal breaker strip to ensure complete sealing and zero conduction from the test space to the exterior.
7.	Insulation	<ul style="list-style-type: none"> ▪ The Insulation material should be of low 'k' factor, high density and non-hygroscopic nature. ▪ The insulation should be multi layered ▪ Asbestos free mineral fiber insulation
8.	Door	<ul style="list-style-type: none"> ▪ The door to be provided with robust hinges on Right Hand side with a clamp-on latch. ▪ The inner surface of the door should be provided with pre-polished stainless steel. ▪ High temperature resistant gasket should be provided to ensure complete sealing. ▪ A micro switch is to be provided for an interlock between the conditioning fan and the door opening.

9.	Test Space Conditioning	<ul style="list-style-type: none"> ▪ The air circulation within the chamber should be as close to laminar ensuring uniform airflow all across the workspace. ▪ Standard frame TEFC motor should be used with a detachable extended shaft. ▪ Only the co-axial fan blades to be exposed in the conditioning plenum ensuring the drive motor will be placed outside. ▪ The conditioning plenum to be covered with a removable sheet providing easy access for maintenance.
10.	Heating System	<ul style="list-style-type: none"> ▪ Stainless steel sheathed air heaters to be used to achieve the desired positive set temperature. ▪ The heaters to be placed in the conditioning plenum such that there is no direct radiation from the heaters onto the test specimen. ▪ Heater outputs are to be controlled through a SSR for superior stability and control in temperature.
11.	Instrumentation & control	<ul style="list-style-type: none"> ▪ To be provided with a micro-controller based temperature indicator cum controller. ▪ Special PID control algorithm loaded with auto tuning features. ▪ Sensing to be done through a Platinum resistance RTD PT-100. ▪ Display of set value & actual value of temperature °C
12.	Provision	<ul style="list-style-type: none"> ▪ One Number of MS Trolley with 6 Nos. of S.S. Tray and additional 6 Nos. of SS Tray
13.	Safety & Protection Devices	<ul style="list-style-type: none"> ▪ Complete or circuit relevant protection based on fault with audio-visual alarm. ▪ Independent temperature protection for test specimen (T max) ▪ Software temperature limiter for max. test chamber temperature. ▪ The control and monitoring system to be protected against input electrical surge and spike. ▪ Common Earth point to be provided.
14.	Power Supply	<ul style="list-style-type: none"> ▪ 415V AC, ±10%, 3Phase, 50Hz, 4 Wire + Earth.
15.	Spares	<ul style="list-style-type: none"> ▪ Sensor, Solid State Relay, Air Heater, etc. one set

Signature of HoD, PDES

**FORMAT FOR FURNISHING THE DETAILS OF PREVIOUS EXPERIENCE OF THE
TENDERER**

(To be submitted along with Part I)

Details of Previous experience in **Manufacture and supply Hot Air Oven**

Sl. No.	Description of the Equipment	Name, Address, Telephone, E-mail and Fax of the Organization to whom supplied	Details of order & Value	REMARKS
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INDIAN PLYWOOD INDUSTRIES RESEARCH AND TRAINING INSTITUTE**Post Bag No.2273, Tumkur Road, Bangalore - 560 022****CHECK LIST TO AVOID REJECTION OF THE TENDER**

(To be submitted along with Part I)

- 1) Have you submitted your Tender Document, Part I-Technical competence Bid and Part II-Quantity and Price Bid in two separate Sealed Covers “ **DULY SUPERSCRIBED WITH TENDER NUMBER, NAME OF THE ITEM AND TENDER PART I-Technical competence bid OR PART II-Quantity and Price bid?**”

YES/NO

- 2) Have you submitted your offer under Part I-Technical competence bid as per format given in a Annexure II ?

YES/NO

- 3) Have you submitted the EMD amount as specified in the tender specification along with Part- I ?

YES/NO

- 4) Have you answered all the points mentioned in Criteria I (a) to (c) under Part I – Technical competence bid and Criteria II (A), (B) & (C) under Part II – Quantity and Price bid as described in Notice Inviting Tenders and enclosing copies of the documentary evidence wherever required?

YES/NO

- 5) Have you furnished Design details, Technical Specifications etc. along with Part II-Quantity and Price bid ?

YES/NO

- 6) Have you duly filled in and submitted 1.Letter of acceptance 2.Under taking to be given by the tenderer 3.Payment and Penalty in Part II?

YES/NO

Date:**Signature of the tenderer with seal**

If the answer is negative for any of the above Items, your offer is liable for rejection, which may please be noted.

NB

One Copy of the above checklist duly answered may please be returned along with the offer in Part I-Technical bid.