

**EXPRESSION OF INTEREST**

NCDPD invites EOI from the reputed agencies for setting up of testing facilities for Bamboo at Bamboo & Cane Development Institute (BCDI), Agartala, Tripura.

**Interested agencies having experience of setting up of testing facilities / laboratories for Bamboo may submit their EOI. The detailed ToR for the same can be obtained from the website: [www.ncdpd.in](http://www.ncdpd.in). The last date for submission of EOI is 7 days from this publication.**

**NATIONAL CENTRE FOR DESIGN & PRODUCT DEVELOPMENT**

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## BACKGROUND

1. National Centre for Design & Product Development (NCDPD) herein refer as ('Authority') has been set up under society's Act by Development Commissioner (Handicrafts) Ministry of Textiles, Govt. of India with an objective to fill up the gap in the areas of Design and Product Development by Ministry of Textiles, Govt. of India. The other objectives of the centre is to build and create design oriented excellence in the handicraft sector and other synergy sectors such as Jute, Silk, Carpet, Handlooms and other employment generation sectors to withstand global competitiveness.

Besides providing design & product development services, the activities of NCDPD have also been diversified into different areas such as Skill/ Capacity Development, creating Infrastructure support at clusters such as setting up of Common Facility Services, Resource Center, Design Center, Design Bank etc

2. The Authority is entrusted with setting up of Testing Facilities / Testing Laboratory for Bamboo product at Bamboo & Cane Development Institute (BCDI), Agartala, Tripura; therefore it intends to select an agency to undertake the project at BCDI, Agartala, Tripura. The Selected Agency / company, who is either a company / society etc. Consortium are not allowed.

## BROAD SCOPE OF WORK / INDICATIVE LIST OF THE MACHINES TO BE PROCURED AND INSTALLED

SL. NO.	TESTING	EQUIPMENT / SPECS / ATTACHMENTS	ITEMS	NEED FOR THE TEST
1	Test for strength, durability, compression, load, impact.	Computerized UTM# (50 KN)	Computerized Universal Wood Testing Machine	To test for impact, load, bending, breaking, deformation, fracture how much transport and packaging wear and tear it can withstand.
	Compression test for impact and resistance to fracture	Compression Parallel-to-Grain attachment	Compression Parallel-to-Grain	This is based on the structure of the Bamboo. The results will vary for different types of Bamboo and the parts from the timber logs.
	Compression test for uniformity of structure, deformation proneness	Compression Perpendicular-to-Grain attachment	Compression Perpendicular-to-Grain	To test for bending, breaking, deformation, fracture how much transport and packaging wear and tear it can withstand. The results will vary for different types of Bamboo and parts from the timber logs.

Tensile Strength test	Tension Perpendicular-to-Grain attachment	Tension Perpendicular-to-Grain	Tensile strength, joint strength, lift impact, edge strength concentration, discontinuity/ non-uniformity of joints
Stress concentration test	Tension Parallel-to-Grain attachment	Tension Parallel-to-Grain	Stress concentration, rupture
Shear strength test	Shear Strength Attachment	Shear Strength Attachment	Distribution of load, uniformity of lateral loads
Janka hardness test	Hardness attachment	Hardness attachment	Resistance to indentation, withstand denting and wear. It is also a good indicator of how hard a species is to saw or nail
Cleavage test	Cleavage attachment	Cleavage attachment	Fracture Toughness and Bamboo Fibre Failure
Static Strength, bending, flexural and transverse test	Static Bending/Flexure/Transverse Attachment	Static Bending/Flexure/Transverse Attachment	Bamboo failure, flexural test, static bending
Adhesive strength testing	Internal Bond Grips attachment	Internal Bond Grips	Nail grip, screw grip, tension at the grips, adhesion strength of coatings/ finishes/ paints/ varying bond strengths, laminates, lacquers, varnishes, specialty resins
Bond Strength testing	Nail/Screw withdrawal Test Attachment	Nail/Screw withdrawal Test Attachment	Bond performance, heat and impact resistance
		Installation costs (incl. network requirements)	
		Computer and related software, licenses	
		Power and power backup setup	
		Pre-installation(space, cabling, water, etc)	
		Tax, Shipping and packing, travel	
		Machine configuration(incl.s oftware) as per standards	
		Commissioning as per standards requirement	
		Onsite setup	
		Training and initial support	

2	Moisture Content testing	Portable Digital Moisture Meter	Portable Digital Moisture Meter	Moisture content analysis, brittleness, proneness to bacterial/ fungal infestation, shelf life of Bamboo
			Tax, Shipping and packing, travel	
			Machine configuration(incl. software) as per standards	
			Commissioning as per standards requirement	
			Onsite setup	
			Training and initial support	
3	Strength/ durability	Drop Tester	Drop Tester	How to fall resistance to the overall product has. Useful for shipments that have to exported (packaging, handling, transport leads to impacts and drops)
			Installation costs along with network requirements	
			Power and power backup setup	
			Pre-installation (space, cabling, consumables, utilities, etc)	
			Tax, Shipping and packing, travel	
			Machine configuration(incl. software) as per standards	
			Commissioning as per standards requirement	
			Onsite setup	
			Training and initial support	
4	Anti-bacterial and anti-mycological testing	Chambers including BOD chamber, laminar, spectrophotometer, weighing machines, incubators, sterilization instruments and chemicals	Chambers incl. BOD chamber, laminar, spectrophotometer , weighing machines, incubators, testing/ sterilization instruments and chemicals	Effectiveness of coatings/ paints/ chemicals used for treatment etc in bacterial/ fungal infestation resistance

5	REACH / Lead Content / coating / curing chemicals analysis- can provide the shelf-life of the Bamboo and coating	Chemical Lab for lead testing	Testing instruments, chemicals, weighing machines	Lead content in coatings/ chemicals used for treatment/ paints/ laquers or any other in the final product. The content should be within acceptable limits as specified by the regulations in the export markets (as per standards)
			Feasibility studies, consultancy, sourcing, vendor selection	
			Identification of standards pertaining to export markets (e.g US, EU). Test setup, equipment configuration, etc	
			Testing req., specs dev., standards req, scope for global markets.	
			Pre-prep, mgmt, disposal, recycling, setup, consultancy, training	

- Above list of machines / equipment is tentative. You can suggest the other equipment / machines.
- The total duration for completion of assignment will be 4 months.

### **ELIGIBILITY CRITERIA OF THE APPLICANT**

- The applicant should be a registered company / entity of repute with sound experience in performing the above mentioned services.
- The applicant must have at least 5 years of experience of doing similar works. Documentary proof must be enclosed.
- The applicant must have well experience of conducting feasibility study / preparation of Detailed Project Report (DPR).
- The applicant must have prior experience in the field of policy or development with focus on agriculture and allied areas will be preferred. Documentary evidence to be supplied.
- Applicants must have demonstrable experience in consulting and policy advisory to the government.
- Applicants must have prior experience in dealing with internationally recognised personnel certification systems (ISO 17024).
- Applicants with domain knowledge, expertise and experience in accreditation systems is desirable.

- Applicants with demonstrable competence in the domain of educational accreditation will be preferred. Competence must be demonstrated through documentary evidence attesting work of the applicant in the domain.
- The applicant must have satisfactory completion of at-least 5 such project in past. List of reputed past clients should be enclosed.
- The applicant must have minimum Cumulative Turnover of Rs.10 crores in last 3 Financial years (2016-17, 2017-18 & 2018-19). Kindly enclose CA certificate / Balance sheet).
- Details of technical manpower & key personnel must be enclosed. Kindly enclosed the detailed resumes of the personnel to be used in the project.
- The applicant must comply with all government and regulatory norms viz. Pan no., GST no., ITR etc. Copies shall be furnished with technical bid.

## **D:SUBMISSION OF EOI**

### **1) TECHNICAL**

EOI should be submitted in two sealed envelope, **TECHNICAL BID** (Envelope –I) shall contain following documents:

- i) Details of the EOI
  - a) Concept Note
  - b) Profile of the Agency / Company including registration certificate and other documents
  - c) Details of Technical Manpower / Key personnel and Staff available.
  - d) Track record – details of involvement in similar events (Provide list of projects in last 3 years)
  - e) Specific experience relating to the event of such nature (Documentary evidence of all needs to be provided)
- ii) All applicants should submit a self-undertaking that they have never been blacklisted by any Government of India Ministry / Department / Authority / Organization / Agency.
- iii) Statement signed by a statutory auditor / Chartered Accountant, indicating turnover of the company.
- iv) EMD for Rs.50,000/- (Rupees Fifty Thousands only), in the form of Demand Draft drawing favor of **National Centre for Design & Product Development (NCDPD)**. EMD will be returned to the unsuccessful applicants at the earliest.

### **2) FINANCIALS** (Envelope – II) shall contain the financial offer for the project.

- The applicants should quote in figures as well as in the words the rates and amount offered by them in the financials. The rates quoted in the financials shall be inclusive of all taxes, levies etc. Nothing extra shall be payable in addition to the accepted rate.

EOI placed in sealed covers (in two envelopes duly marked as TECHNICAL (Envelope-I) and Financials (Envelope-II) with the name of the project written on each envelope should be placed in the outer envelope and marked on top as “EOI for Feasibility Study for Bamboo University”.

## E) EVALUATION / SELECTION PROCESS

- The evaluation would be on both Technical and Financial Bids
- The technical bids shall be scrutinized by the committee constituted for the purpose. The Committee will assess the ability of the agencies to carry out the requisite work and quality of profile and experience of the agency in the field. The bid would be evaluated as per the Eligibility Criteria in Para-C & technically as specified in Para-D.
- The applicants who will be shortlisted as per above evaluation, if necessary shall be called for presentation.
- The Criteria for Technical Evaluation is as below:-

SL. NO.	CRITERIA	SCORING
1	Organizational strength of the company and its experience in executing such projects nationally and internationally	70 Marks
2	Overall Concept for further execution of the project	30 Marks

- Minimum marks required to qualify technically is 70. Financial quotation of only those who qualified technically would be opened.

### Financial Evaluation

- The Financial Quote of the technically qualified bidders only shall be opened.
- The applicant with the lowest financial Quote (L1) will be awarded 100 score.
- Financial Scores for other than L1 Quote will be evaluated using the following formula: Financial Score of an Applicant =  $\{(Financial\ Quote\ of\ L1 / Financial\ Quote\ of\ the\ Bidder) \times 100\}$  (Adjusted to two decimal places)
- Only fixed price financial bids indicating total price for all the work/services specified in this document will be considered.
- Details of the taxes and duties levied on the basic cost to be indicated clearly in the financial quote.

The final evaluation would be done on the basis of Composite score. The applicant who has secured the highest Composite Score shall be declared the preferred applicant.

## F: Payment Terms

1. No advance shall be given for the said project.
2. 25% payment shall be made on making presentation before the committee on completion of 50% work.
3. 25% payment to be made on submission of full and final report / completion of study.
4. 50% payment to be made on approval of DPR by Ministry and amount received from the Ministry.

## G: RIGHTS

NCDPD reserves the right to accept or reject any offer based on technical / financial evaluation without assigning any reason.

**H: LAST DATE FOR SUBMISSION OF EOI**

The last date for submission of EOI is 8<sup>th</sup> November, 2019 (upto 3.00 p.m). The EOI received after due date shall not be accepted. The EOI should be addressed to Executive Director, National Centre for Design & Product Development, Hall No.1 (3<sup>rd</sup> Fl.), Rajiv Gandhi Handicrafts Bhawan, Baba Kharak Singh Marg, Connaught Place, New Delhi-110001, Email: [ncdpd@ncdpd.in](mailto:ncdpd@ncdpd.in) Website: [www.ncdpd.in](http://www.ncdpd.in)

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