NIELIT CALICUT

(Autonomous Scientific Society of Ministry of Electronics & Information Technology, Govt. of India)

NIT Campus Post, CALICUT-673 601, KERALA

Email: purchase@calicut.nielit.in Web: http://nielit.gov.in/calicut
Phone: 0495-2287266

LIMITED TENDER ENQUIRY

Ref. No. : 2(1233)/2020-21/3DPAM/ADSDS

Date: 19.03.2021

To

DUE DATE: 30.03.2021

TENDER OPENING DATE: 31.03.2021 TIME: 12:00 PM

1. Quotations are invited for the supply of the items as per **Annexure-I**.

2. The quotations duly **SIGNED, SEALED AND SUPERSCRIBED ON THE ENVELOPE WITH THE REFERENCE No. AND DUE DATE**, should be addressed to the undersigned so as to reach on or before the due date stipulated above. Quotations received after the due date will not be considered.

3. Quotation will be opened at the above address on the date and time mentioned above. If this day becomes a holiday, the same will be opened on the next working day. The Tenderer or his authorized representative can be present during tender opening.

4. The quotations should be valid for acceptance for a period of **sixty days** from the due date

5. Quotations will not be accepted by Fax, Email or any such electronic data transfer form.

6. The quotations should be for goods exactly conforming to our requirements and specifications.

7. Relevant literature pertaining to the items quoted with full specifications and drawings, if any should be sent along with the quotations, wherever applicable. Samples, if called for, should be submitted free of charges and collected back at the supplier's expenses.

8. Copy of Manufacturing licence, Principal or Authorized Distributor/Dealer Certificate, and Proprietary Certificate, as applicable, should be enclosed.

9. Quotation should be for **free delivery** at our Centre and should clearly specify the **delivery period**. If delivery quoted is Ex-Godown/Consignor Station, delivery charges consisting of freight, packing & forwarding charges, insurance, etc. should be indicated separately. Goods should be supplied duly carriage paid and insured.

10. GST Registration Number of NIELIT Calicut is: **32AAATD0315M1Z6**. GST or any other taxes may be charged as per the rates applicable to Scientific/Educational institutions.

11. **Security Deposit @ 3% of the Purchase Order/Invoice value shall be retained, in case order/contract value exceeds Rs.1,00,000/- (Rupees one lakh), which will be released after the expiry of warranty period.**

12. Goods shall not be supplied without an official purchase order.

13. Payment: Payment will be made after completion of supply, installation/assembly and commissioning of the items covered by the order along with necessary spares supplied to the entire satisfaction of NIELIT CALICUT. Payment against invoices shall normally be made within 30 days of receipt and acceptance of equipment/materials at our office. **No advance payment will be made under any circumstance**.

14. Incomplete quotations and quotations which do not comply with all the above instructions are liable to be summarily rejected.

15. NIELIT CALICUT does not bind itself to accept the lowest or any such quotation and has the right to accept or reject whole or any part of tenders or a portion of the supply of goods without assigning any reasons. No correspondence in case of rejected tenders will be entertained.

16. **The Tenderer shall submit EMD/Bid Security Declaration, as given in Annexure-II.**

Yours faithfully,

Purchase In-Charge
For Executive Director

Encl: **Annexure**

ANNEXURE-I

Your Quotation No.   Date:

1	Description of item(s)	**Additive Design Skill Development System**
2	**Specifications & Quantity**	**: 1 No.** **As per Specifications attached.**
3	Price per unit in Rs. (in figures & words)	
4	Total Price in Rupees (excluding tax) (in figures & words)	
5	Delivery Period	
6	Terms of Delivery	
7	Taxes, Duties & any other statutory levies or charges	
8	Transportation, Insurance, Packing & Forwarding charges, if any	
9	Discount/off etc., if any	
10	GST Registration No.	
11	Payment Terms	
12	Validity of Tender	
13	Warranty	
~~14~~	~~EMD Amount and Payment details~~	
15	Bank Account No. with IFSC Code	
16	Any other remarks	
17	Signature of the Tenderer with Name and Date	
18	Address with Email ID & Mobile No.	
19	Central Public Procurement Portal (www.eprocure. gov.in) Registration, Email login ID	

NB: (1) The prices quoted and Taxes charged should be Academic/Educational Prices/rates, wherever
applicable.

(2) Enquiry for the above items and specifications can also be downloaded from our website
http://nielit.gov.in/calicut or *www.eprocure.gov.in*

(3) Please register at www.eprocure.gov.in and intimate login details without fail. Watch website
for regular updates.

19/05/21

Additive Design Skill Development System for FS Prime – 3DPAM
List of items
(Pl ref detailed specifications attached)

Sl. No	Item Description	Description	Tasks	Complied (Yes/No)
	Additive Design Solutions for Research and Development with 3 Industry Relevant Research Problems (Annexure A)	Perpetual Floating license with 3-year TECS	1	
	Additive Design Solutions for Academic Teaching and Skill Development with 5 Capstone Projects. (Annexure B)	Term License for 3 years	15 or more	
	Additive Engineering Workshop with 5 days of Training and Content	Online/Onsite Hands On Training for NIELIT Staff	1	

Annexure A

Additive Design Solutions for Research and Development (1 License)		
Specify Name of Software and version no		Complied (Yes/No)
Software and UI Consolidation for FEA and Optimization	Mechanical Topology Optimization Product Design Model Preparation, AM Build Preparation and Simulation	
FE Based Topology Optimization		
Elements	1D, 2D and 3D continuum and structural elements, rigid body representation	
FE Analysis types	Static Transient dynamics Modal Response spectrum Harmonic Random Vibration Acoustics Explicit dynamics Hydrodynamics Multibody dynamics	
Material Models	Linear and nonlinear elastic Viscoelastic Rate-dependent and rate independent plasticity	

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	Geomechanical Gaskets Composites	
Interaction Model	Linear and nonlinear contacts Joints	
Fracture Models	SMART cohesive zone XFEM	
Advanced Solver Technologies	Nonlinear adaptivity Cyclic symmetry Submodeling Substructuring (CMS) Inverse analysis Multidimension modelling	
Constraints for Additive Manufacturing	Manufacturing Shape Controls Member Sizing Control Symmetry Controls AM Overhang Controls	
Organic Modelling after Optimization	STL CAD	
No of Cores	16 or better	
Automatic Geometry Disfeaturing Tools	Required	
Tools required	Geometry Preparation Tools Design of Experiments Composites Pre and Post Processing Material Database Materials Homogenization Topology Optimization Rigid Body Dynamics Fatigue Analysis Solve Management	

Annexure B

Additive Design Solutions for Academic Teaching (15 or more Licenses)		
Specify Name of Software and version no		Complied (Yes/No)
Software and UI Consolidation for FEA and Optimization	Mechanical Topology Optimization Product Design Model Preparation, AM Build Preparation and Simulation	
FE Based Topology Optimization		
Elements	1D, 2D and 3D continuum and	

	structural elements, rigid body representation	
FE Analysis types	Static Transient dynamics Modal Response spectrum Harmonic Random Vibration Acoustics Explicit dynamics Hydrodynamics Multibody dynamics	
Material Models	Linear and nonlinear elastic Viscoelastic Rate-dependent and rate independent plasticity Geomechanical Gaskets Composites	
Interaction Model	Linear and nonlinear contacts Joints	
Fracture Models	SMART cohesive zone XFEM	
Advanced Solver Technologies	Nonlinear adaptivity Cyclic symmetry Submodeling Substructuring (CMS) Inverse analysis Multidimension modelling	
Constraints for Additive Manufacturing	Manufacturing Shape Controls Member Sizing Control Symmetry Controls AM Overhang Controls	
Organic Modelling after Optimization	STL CAD	
No of Cores	4 or better	
Automatic Geometry disfeaturing Tools	Required	
Tools required	Geometry Preparation Tools Design of Experiments Composites Pre and Post Processing Material Database Materials Homogenization Topology Optimization Rigid Body Dynamics	

	Fatigue Analysis Solve Management	

Annexure C

Additive Design Workflow Capabilities

Sl no	Description		Complied (Yes/no)
1.	Design for AM	CAD modelling Topology optimization Lattice and light weighting	
2.	Build setup	STL file repair and geometry manipulation Part nesting and Support Generation Orientation guidance and wizards	
3.	Process Simulation	Metal AM simulations Distortion compensation Build failure prediction	
4.	Material analysis	Curated Material property database Grain morphology predictions Melt pool and Porosity prediction	
5.	Data acquisition and Management	Traceability and full control of AM data Consolidate, control and share AM data across organization	
6.	Part qualification	Design validation Structural and thermal analysis Document control and certification	
7.	List of Capstone projects for teaching	(please mention the name of projects)	

General Terms and Conditions

Installation & commissioning	Installation and commissioning at NIELIT, Calicut	
Training	Training: Five days training for our staff	
General	Bidder must quote separately for establishing a self-contained facility.	
	Quote Educational pricing for the system & software	

Sign of Authorized Signatory with Name & Seal

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ANNEXURE-II

Undertaking for EMD
(on the letterhead of Organization)

Date: ....

To

The Executive Director
NIELIT
NIT Campus P.O.
Kozhikode – 673601
Kerala

Subject: Undertaking as per GFR–2017, Rule 170(iii).

Dear Sir,

We, the undersigned, offer to supply .... in response to your Tender No. .... dated .... We are hereby submitting our Bid/Quotation for the same. As a part of eligibility requirement stipulated in the said Tender documents, we hereby submit a declaration in lieu of Earnest Money Deposit (EMD), as given below:

1. Our bid shall remain valid for 60 days from the date of submission and that we will not withdraw or modify our bid during the validity period.
2. In case, we are declared as successful bidder and an order is placed on us, we will submit the acceptance in writing within 7 days of placement of order on us.
3. In case, we are declared as successful bidder and an order is placed on us, we undertake, to submit a Security Deposit of 5% of the order value, as per terms stipulated in the Tender.
4. In case of failure on our part to comply with any of the above said requirements, we are aware that we shall be declared as ineligible for said Tender and/or debarred from any **future bidding process of NIELIT for a period of minimum two years.**
5. The undersigned is authorized to sign this undertaking.

Yours sincerely,

Authorized Signatory:
Name and Title of Signatory (with seal):
E-mail:
Mobile No: