

## भारतीय प्रौद्योगिकी संस्थान तिरुपति Indian Institute of Technology Tirupati Renigunta Road, Settipalli Post, Tirupati – 517506 Telephone: 0877- 2503572, Email: <u>purchase@iittp.ac.in</u>

## Tender No. IITT/ CSRC/MECH/2022-23/139

28<sup>th</sup> June 2022.

### NOTICE INVITING TENDER FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF FINITE ELEMENT BASED CUSTOMISED WELDING SOFTWARE

## (E-PROCUREMENT MODE ONLY)

Indian Institute of Technology Tirupati (IIT Tirupati) invites online bids (e-tender) in Two bid system from eligible Class-I & Class-II suppliers in line with Government Public Procurement order No.P-45021/2/2017-BE-II dated: 04.06.2020 for the following:

Item Description	Quantity (approx.)	Tender Fee (Inclusive of all taxes in Rs.)
Supply, installation, testing and commissioning of Finite Element based customized welding software as per the specifications of the tender documents	One bundle with minimum five licenses	500/-
Total		500/-

The Tender Document can be downloaded from Central Public Procurement (CPP) Portal http://eprocure.gov.in/eprocure/app and bid is to be submitted online only through the same portal up to the last date and time of submission of tender.

### **Critical Dates of Tender:**

1	Date and time of Online Publication/Download of Tenders	28-06-2022	17.00 hrs
2	Bid submission start date & time	28-06-2022	17.00 hrs
3	Bid submission close date & time	19-07-2022	15.00 hrs
4	Closing date & time for submission of EMD/Tender fee	19-07-2022	15.00 hrs
5	Opening of Technical bids	20-07-2022	15.00 hrs

### 1. About IIT TIRUPATI:

Indian Institute of Technology Tirupati (IIT Tirupati) is an Autonomous Institute under Ministry of Education, Govt. of India.

## 2. Technical Specifications: Schedule of requirement

S.No	o Item Description with Specifications				
1 [	Item: Finite element based customized welding software - One bundle with minimum five licenses Technical Specifications				
	S. No. Specification Description/details				
	•	Supply, installation Welding Software st period for minimum	, testing and commissioning of Finite Element based Customized trictly as per the given specifications along with warranty/license 24 months.		
	•	One bundle with mi	nimum five Licenses.		
	•	Each License (GUI Svstem.	+SOLVER) must be compatible for minimum 8 Cores computer		
	System.1Initial condition- GUI and Geometry CreationsIt should be fast and easy-to-use welding simulation tool wh covers all pre- processing activities. This should be a C based for setting up process boundary conditions wherein u can define material properties, process parameters, clamp condition etc. relevant to complete the welding proc simulation.(a) Capability to create parts from CAD model imports.(b) Ability to modify the geometry.(c) Capability to run the solver after pre-processing activiti (d) Support user defined unit system for pre- and po processing- plotting utilities like multi-page/multi-plot Welding and Heat treatment.(e) Capability to facilitate set-up of single-pass and multi-p welding simulations.				
	2	Import Geometry	Software should have the capability of CAD import such as: STL, .CAT, .DWG, .PRT. Universal (.UNV) data can be transferred and imported.		
	3	Meshing and Mesh editing	<ul> <li>(a) Capable of automatic mesh generation. Should have provision for generating the mesh for simple to complex geometry</li> <li>(b) 3D mesh generation capabilities</li> <li>(c) Capability to assign material property, loads and boundary conditions directly to geometry and / or finite element models</li> <li>(d) Provision to use unconnected mesh between the beads and the components, and to define the mesh refinement independently.</li> <li>(e) Basic/very simple CAD operations features</li> <li>(f) Solver should read and run the meshes</li> </ul>		

4	Welding	(a) Software should be dedicated weld and additive
	Software	manufacturing simulation software.
	Capabilities	(b) The software should be canable enough to perform
	- · · <b>F</b> · · · · · · · ·	thermal-metallurgical-mechanical modeling of different
		types of welding processes like are welding (MIG TIG
		SMAW SAW) tondom one welding measures (two or
		SMAW, SAW), tandem arc weiding processes (two or
		three arcs move one behind the other over a same weld
		line), Laser welding, spot welding etc. & heat treatment
		processes.
		(c) The software should be capable enough to perform
		thermal-metallurgical-mechanical modeling of various
		directed energy deposition additive manufacturing
		processes like Laser based directed energy deposition
		process, Wire arc additive manufacturing process, tandem
		wire arc additive manufacturing process (two arcs move
		one behind the other over a same deposition line), &
		subsequent heat treatment process simulations.
		(d) System should have pre-processors with a provision for
		input of the required data for simulation for welding
		process (boundary conditions like materials selection.
		parameters like welding current, voltage, electrode/filler
		wire heat source torch angle etc.) and directed energy
		denosition additive manufacturing processes
		(e) It should provide the plan for welding of a given weld joint
		- dimensions and weld head details
		(f) It should display sequential steps for welding processes
		with process parameters and weld path orientation
		(a) Canabilities for ontimization of the welding process by
		(g) capabilities for optimization of the weiding process by modifying the weiding process parameters
		(h) Canability of simulation of various weld joints like Butt
		Lop Eillet and Edge joints ate with wide spectrum of
		this transformer
		(i) Wold Simulation System should do transient type
		(i) weld Simulation System should do transient type
		(i) Simulating welding process based on selection of with or
		() Simulating weiging process based on selection of with of with out heat treatment of new requirement (Dishecting and
		nost wold heat treatment)
		(k) Canability to simulate the single ness on multiple nesses
		(K) Capability to simulate the single pass of multiple passes
		(1) Should take into consideration all themesal
		(1) Should take into consideration all thermal,
		athere if required which are relevent during welding
		and heat treatment
		and near distances.
		(iii) Time reduction unough advance computing reatures, if
		ally.
		(n) Should have the provision to incorporate the instantaneous
		weiding current and voltage waveforms as shown in below
		ingure in the double empsoidal volumetric heat source and
		gaussian distributed surface heat source equations.





<ul> <li>Incorporate the variation in interelectrode distance. In other words, the variation in the center of the two heat sources either double ellipsoidal or gaussian distributed surface heat source as a function of the welding current and voltage waveforms. Please check the reference given below which can explain the physical model for the interelectrode distance variation as a function of instantaneous welding current and voltage data points from the waveform.</li> </ul>
Reference:
<ol> <li>D. V. Kiran, D W. Cho, W. H. Song and S. J. Na, "Arc behaviour in two wire tandem submerged arc welding", Journal of Materials Processing Technology, 214 (8), 2014, pp. 1546-1556.</li> </ol>
<ol> <li>D. W. Cho, D. V. Kiran, W. H. Song and S. J. Na, "Molten pool behaviour in the tandem submerged arc welding process", Journal of Materials Processing Technology, 214 (11), 2014, pp. 2233-2247.</li> </ol>
(w) Software should have the flexibility to implement contour method to calculate the residual stress distribution in through thickness direction of welded samples and additive manufactured samples. Please see the attached link below for the details on the contour method.
Reference:
https://www.stressmap.co.uk/contour-method/
<ul> <li>(x) Software should have the capability to simulate the block level distortion analysis in a shipbuilding structure. It needs to be demonstrated in-prior with documented results along with the technical bid document. It is one of the very important criteria for the technical evaluation.</li> </ul>

5	Result & Post processing	<ul> <li>Software should be capable of displaying the weld simulation results after solving the welding process</li> <li>(a) Various welding techniques with their parameters like current, voltage, etc. with provision for displaying the total geometry of the weldment and components</li> <li>(b) Heat treatment effects (pre and post weld heat treatments) along with the heat/ temperature distribution in weld metal, Heat Affected Zone (HAZ) and parent metals.</li> <li>(c) Distortion/ deformation levels based on the welding processes</li> <li>(d) Residual stress distribution in the weldments with heat treatments as well as without heat treatments for different regions of HAZ, Parent and weld metals.</li> <li>(e) Metallurgical phase distribution across the entire area base metal to weldment for the materials mentioned in the point 'r' in the section 4: Welding Software Capabilities.</li> <li>(f) Able to predict changes in hardness due to welding or heat treatment process.</li> <li>(g) Software should be able to export results in the universal file format which can be imported into other format (mention the formats being provided).</li> <li>(h) Results for hardness, tensile strength and yield strength (any other parameters other than it) etc.</li> <li>(i) Visualization of results (separate result files for every component/system/analysis) and also should have GIF, JPEG, TIFF files or similar file for visualization.</li> </ul>
6	Material Database/library	<ul> <li>(a) Comprehensive Material database library necessary for the thermal-metallurgical-mechanical modeling should be provided with the software which includes range of ferrous (low carbon steels, stainless steels, high alloyed steel, dual phase steels etc.) and non-ferrous material (Al alloys, Ni alloys, Cu alloys, Ti alloys etc.).</li> <li>(b) Data should be available for ASTM SA 213 grade T91,T92, T22, T23, T24, 304, 316, 347 and SA 210 Gr A1, C as well as Inconel alloys (Inconel 617, 625, 740) or equivalent international standards</li> <li>(c) Material databases being provided to be listed.</li> <li>(d) Material data library of weld software should indicate different properties (metallurgical, thermal, physical, mechanical) with provision to upgrade/ add details.</li> <li>(e) Capability to import material database from system libraries for variety of materials considered for welding; able to add or edit material in the library.</li> </ul>
7	Online Help	<ul><li>i) Complete online documentation</li><li>ii) Online access to the user service center</li></ul>
8	Support	Upon completion of training, support engineer from the <u>OEM company</u> should give stand by support whenever required. <u>It is very important to provide support within one day of</u>

		request from customer.	
9	License	Vendor shall ensure that the software license being provided is perpetual/renewable in nature.	
		In case of renewable license, the vendor should agree to provide the renewable license for five years in proportion to the price quoted in the tender.	
10	Installation	<ul> <li>i) Vendor should depute his engineer from the software OEM company for installation, and training of the software</li> <li>ii) Vendor should carry satisfactory Installation and Configuration free of charge</li> </ul>	
11	Warranty	Warranty for 24 months. During the said warranty period vendor shall provide all upgrades, patches without any additional charges and provide software support whenever necessary either by deputing service engineer or through phone / email as deemed appropriate by customer and as intimated to the vendor.	
		Warranty period start strictly after the successful installation of the software, training as per the activities mentioned in point 13, and the release of the 100% payment.	
12	Very important payment clause	<ul> <li>100% payment will be released after successful and satisfactory completion of the below mentioned points</li> <li>software installation</li> <li>satisfactory training using case studies in the thermal-metallurgical-mechanical modeling in area of welding and directed energy deposition based additive manufacturing processes.</li> <li>satisfactory demonstration of the points 3 to 5 during training with few case study simulations.</li> <li>demonstrating the implementation of subroutines in the Welding software to incorporate the activities proposed in points 3 to 5.</li> <li>demonstration of the narrow gap multi-pass welding using tandem gas metal arc welding process incorporating the activities mentioned in the points 3 to 5. The necessary information/data will be given by IIT Tirupati, if required.</li> <li>The license to be provided must have all the features existing in the research and industry licenses. Further, there should not be restriction on the number of elements and size of the model to be used.</li> <li>demonstrating the welding distortions in the deck level and block level in a shipbuilding structure.</li> </ul>	

13	Training and support	<ul> <li>Training on pre-processor, post-processor and solver until the customer's satisfaction.</li> <li>Training to focus on use of software practical applications and tutorials</li> <li>Training to focus on successful and satisfactory demonstration and training on all the activities explained in the points 3 to 5 and point 12.</li> <li>The number of working days on the training depends on the satisfactory training and execution of the customer requirement as mentioned in the points 3 to 5 and point 12.</li> <li>Training should be given by the well-trained engineer from the software OEM company. Trainer only from the vendor is strictly not allowed in case of software channel partner.</li> <li>The trainer from the software OEM and vendor should come for a meeting to clarify doubts after one, three and five months from the date of installation.</li> </ul>
		• Software OEM and the vendor should provide the support within one day from receiving the support request.

All offered products technical Specifications and Brochures are to be submitted along with the Technical Bid.

## **3. TENDER FEE & BID SECURITY DECLARATION DETAILS:**

- **3.1 Tender Fee of Rs.500/- (Rupees five hundred only)** should be submitted through ECS (Bank transfer / NEFT / RTGS) in favour of <u>Indian Institute of Technology Tirupati</u>.
- **3.2** Bank A/c Details for crediting Tender Fee:

Name	:	Indian institute of Technology Tirupati Main Account
Bank	:	State Bank of India
Account No	:	35523338208
IFSC Code	:	SBIN0006677

## **3.3 Tender Fee and Bid Security Exemption:**

I) Micro and Small Enterprises (MSEs):

Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) for goods produced and services rendered, are exempted from Tender fee and Bid Security. However, they have to enclose valid self-attested registration certificate(s) along with the tender to this effect.

Accordingly, MSEs shall be required to submit valid **Udyam Registration Certificate** for availing benefit under MSE Procurement Policy. The benefit as above to MSEs shall be available only for Goods produced and services rendered by MSEs. However, traders are excluded from the purview of MSE Procurement Policy.

### II) Startup(s):

Startup(s) as recognized by **Department for Promotion of Industry and Internal Trade (DPIIT)**, Govt. of India, are exempted from Tender fee and Bid Security. However, they have to enclose *valid self-attested registration certificate(s)* along with the tender to this effect.

Eligible MSE and startup bidders who seeks exemption from Tender fee/Bid Security as per clause no. (c) above, if they withdraw or modify their bids during the period of validity, or if they are awarded the contract and they fail to sign the contract, or to submit a performance security before the deadline defined in the request for bids document, they will be suspended for the period of three years or as decided by the competent authority from being eligible to submit bids for contracts with the entity that invited the bids.

- 3.4 The Bidders will have to upload scanned copy of Payment details towards tender fee and the same will be accepted only on verification and confirmation by the Institute. Any delay in credit will not be entertained by the Institute. (As per the format attached in Annexure I)
- 3.5 Other than eligible MSE and Startup bidders, Bid Security Declaration:

Bidders should have to submit the Bid Security Declaration (As per the format attached in annexure-II) in duly filled and signed condition.

### 4. ELIGIBILITY CRITERIA

4.1 Other Important Documents (OIDs)

Firm Incorporation Certificate, PAN details, GST details are to be provided.

### 4.2. Statutory Documents:

- I) The Bidder should give self-declaration certificate for acceptance of all terms & conditions of tender documents. A duly completed certificate to this effect is to be submitted as per the Annexure-I.
- II) The firm should not be in the active debarred list by any Central / State Government / Public Undertaking / Institute and no criminal case registered / pending against the firm or its owner / partners anywhere in India. A duly completed certificate to this effect is to be submitted as per Annexure-III.

### **III)** Experience and Past Performance:

The bidder/OEM should have supplied similar system during past three financial years **i.e. during 2017-18 to 2019-20** in India to Central / State Govt/ PSU/ CPSEs/ Educational R&D Institutions. Vendor should provide satisfactory installation certificates with product details as proof with customer contacts email and phone number as per the **Annexure-IV**.

- IV) The Annual Turnover should be at least Rs. 2 Lakhs and be profitable during each of the previous three financial years i.e. during 2017-18 to 2019-20 or 2018-19 to 2020-21. Audited financial Statements or Financial Statements showing turnover duly signed by a Chartered Accountant are to be submitted as per the Annexure-V.
- V) In case the bidder is a <u>Class-I / Class-II</u> in line with the Public Procurement (Preference to Make in India) Order 2017 No. P-45021/2/2017-PP (BE-II) dated 04 Jun 2020 as amended from time to time. A Self-Declaration Certificate regarding "Class-I/Class-II Supplier" for the tendered items as per the Annexure-VI is to be submitted.

As per the OM of Department of Promotion for Industry and Internal Trade No. P-45021/102/2019-BE-II-Part(1) dated: 04.03.2021. The bidders can't claim themselves as Class-I local suppliers/Class-II local suppliers by claiming the services such as transportation, insurance, installation, commissioning, training and after sales service support like AMC/CMC etc. as local value addition.

- a. 'Local Content' means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all custom duties) as a proportion of the total value, in percent.
- b. 'Class-I local supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50% as defined under this order.
- c. 'Class-II local supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has minimum local content of 20% but less than 50%, as defined under this order.
- d. 'Non-local supplier'means a supplier or service provider, whose goods, services or works offered for procurement, has local content less than 20%, as defined under this order.
- e. Complaint redressal mechanism: In case any complaint received by the procuring agency or the concerned Ministry/Department against the claim of a bidder regarding local content/domestic value addition in an electronic product, the same shall be referred to STQC.
- f. The bidder shall be required to furnish the necessary documentation in support of the domestic value addition claimed in an electronic product to

STQC. If no information is furnished by the bidder, such laboratories may take further necessary action, to establish the bonafides of the claim.

- g. A complaint fee of Rs. 2 lakh or 1% of the value of the domestically manufactured products being procured (subject to a maximum of Rs.5 lakh), whichever is higher, to be paid by Demand Draft to be deposited with STQC. In case, the complaint is found to be incorrect, the complaint fee shall be forfeited. In case, the complaint is upheld and found to be substantially correct, deposited fee of the complainant would be refunded without any interest.
- False declarations will be in breach of the Code of Integrity under Rule 175 (1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.
- VI) The bidder should be OEM or OEM authorized Dealers / Channel partners / Distributors of reputed brand having authorization for sales and after sales support. Valid OEM authorization letter is required to participate in this tender.

### VII) **Prior Registration and / or Screening of bidders:**

Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder registered with the competent authority. The concerned bidder(s) are required to attach the relevant valid Registration Certificate along with the bid for consideration.

"Bidder" (including the term 'tenderer', consultant or service provider in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.

"Bidder from a country which shares a land border with India" for the purpose of this Order means :-

- An entity incorporated, established or registered in such a country; or
- A subsidiary of an entity incorporated, established or registered in such a country or
- An entity substantially controlled through entities incorporated, established or registered in such a country; or
- An entity whose beneficial owner is situated in such a country; or
- An Indian (or other) agent of such an entity; or
- A natural person who is a citizen of such a country; or
- A consortium of joint venture where any member of the consortium or joint venture falls under any of the above.

The detailed terms & conditions issued from time to time in this regard by Government of India will be applicable.

## VIII) Authorized Representatives:

Bids of bidders quoting as authorised representative of a principal manufacturer would also be considered to be qualified, provided:

- (i) Their principal manufacturer meets all the criteria above without exemption, and
- ii) The principal manufacturer furnishes a legally enforceable tender-specific authorisation assuring full guarantee and warranty obligations as per the general and special conditions of contract;

and

iii) The bidder himself should have been associated, as authorised representative of the Principal Manufacturer for same set of services as in present bid (supply, installation, satisfactorily commissioning, after sales service as the case may be) for same or similar item for past three years ending on bid opening date.

## 4.3 TECHNICAL CRITERIA

Bidders should comply the specification of the tendered item in all respect. The detailed format is attached at Annexure-VII. The bidder is to complete the same in all respect and submit accordingly

## **5. FINANCIAL BID DETAILS**

- 5.1 Financial bid i.e. BOQ given with tender (in Excel format) to be downloaded first and uploaded after filling all relevant information strictly as per the format failing which the offer is liable for rejection. Kindly quote your offer on FOR IIT Tirupati (inclusive of all taxes and charges). Vendor should quote prices in BOQ only, offers indicating rates anywhere else shall be liable for rejection.
- 5.2 Concessional Custom Duty / Concessional GST is applicable to IIT Tirupati as a Research Institution. Necessary Certificate to this effect shall be provided by IIT Tirupati to the supplier.

S. No.	Particulars	Date	Time
a.	Date of Online Publication of Tender	28-06-2022	17.00 hrs
b.	Bid Submission Start Date	28-06-2022	17.00 hrs
c.	Bid Submission Close Date	19-07-2022	15.00 hrs
d.	Closing Date & Time for Submission of EMD & Tender Fee	19-07-2022	15.00 hrs
e.	Opening of Technical Bids	20-07-2022	15.00 hrs

## 6. TIME SCHEDULE:

### 7. AVAILABILITY OF TENDER

The tender document can be downloaded from <u>http://eprocure.gov.in/eprocure/app</u> and be submitted only through the same website.

### 8. BID VALIDITY PERIOD

The bid will remain valid for 90 days from the date of opening as prescribed by IIT Tirupati. A bid valid for a shorter period shall be rejected, being non-responsive.

### 9. BID SUBMISSION

### 9.1 Instruction to Bidder

- Bidders are required to enrol on the e-Procurement module of the Central Public Procurement Portal (URL: https://eprocure.gov.in/eprocure/app) by clicking on the link "Online Bidder Enrolment" on the CPP Portal. The registration is completely free of charge.
- II) Possession of a valid Class II/III DSC in the form of smart card / e-token is a prerequisite for registration and participating in the bid submission activities. DSCs can be obtained from the authorised certifying agencies recognized by CCA India (e.g. Sify/TCS/nCode/eMudhra etc).
- III) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- IV) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse.
- V) The Bidders are required to log in to the site through the secured log-in by entering their respective user ID / password and the password of the DSC.
- VI) The CPP portal also has user manuals with detailed guidelines on enrolment and participation in the online bidding process. The user manuals can be downloaded for reference.

### 9.2 TENDER CLARIFICATION

- I) In case the bidders require any clarification regarding the tender documents, they are requested to contact our office Ph. no: 0877-2503572, Email ID: purchase@iittp.ac.in on or before due date.
- II) Technical and Specifications related Clarifications contact our office No :

9652403553 Email ID: dvkiran@iittp.ac.in on or before due date.

III) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.

## 9.3 ONLINE BID SUBMISSION PROCEDURE

**Cover-1:** The file should be saved in a PDF version numbered sequentially and should comprise of the following items:

## Packet-1:

Duly Completed Scanned PDF copy of, PAN, GST, Firm Registration certificate and Annexure-I to VIII with relevant supporting documents Only the relevant documents as per the tender clauses are to be uploaded along with duly completed checklist as per the annexure-IX. Uploading of other than the required documents may liable for rejection of the bid.

## Cover-2:

A standard BOQ format has been provided in excel format. Bidders are required to download the BOQ excel file and fill their financial offer on the same BOQ format. After filling the same, submit it online in excel format, without changing the financial template format.

### Note:

If the bid is incomplete and / or non-responsive it will be rejected during technical evaluation. The bidder may not be approached for clarifications during the technical evaluation. So, the bidders are requested to ensure that they provide all necessary details in the submitted bids.

### **10. BID OPENING**

- 10.1 Technical Bids will be opened on **20-07-2022** @ **15.00 Hrs.**
- 10.2 Financial Bids of the eligible bidders will be opened on a later date. The date and time for opening of Financial Bids will be announced later.
- 10.3 Bids should be summarily rejected, if tender is submitted other than through online or original tender fee/Bid security declaration are not submitted within stipulated date / time.

### **11. BID EVALUATION**

Based on results of the Technical evaluation IIT Tirupati evaluates the Commercial Bid of those Bidders who gets qualify in the Technical evaluation. <u>The Commercial Bid with the lowest price will be the highest evaluated bid.</u>

### 11.1 **Purchase Preference**

### I) Micro and Small Enterprises (MSEs):

Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) for goods produced and services rendered, may be provided following purchase preference:

Item wise Price Quoted by MSE Quantity		How the tender shall be finalized	
Cannot be split	L1	Full Order on MSE	
Cannot be split	Not L1 but within L1 +	Full Order on MSE subject to matching L1	
_	15%	Price	

### II) **Preference to Make in India**

- a) In procurement goods or works which are covered under by para 3(b) of the extant Public Procurement (Preference to Make in India) Order 2017 dated 04 June 2020 and which are **divisible** in nature, the "Class-I Local Supplier" shall get purchase preference over "Class-II Local Supplier" as well as "Non-Local Supplier" as per following procedure:
  - i) Among all qualified bids, the lowest bid will be termed as L1. If L1 is "Class-I Local Supplier", the contract for full quantity will be awarded to L1.
  - ii) If L1 bid is not a "Class-I Local Supplier", 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the "Class-I Local Supplier" will be invited to match L1 price for the remaining 50% quantity subject to the Class-I Local Supplier's quoted price falling within the margin of L1 + 20%, and contract for that quantity shall be awarded to such "Class-I Local Supplier" subject to matching the L1 price. In case such lowest eligible "Class-I Local Supplier" fails to match L1 price or accepts less than the offered quantity, the next higher "Class-I Local Supplier" within the margin of L1 + 20% shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In case some quantity is still left uncovered on Class-I local suppliers, then such quantity may be ordered on the L1 bidder.
- b) In procurement goods or works which are covered under by para 3(b) of the extant Public Procurement (Preference to Make in India) Order 2017 dated 04 June 2020 and which are **not divisible** in nature, and in procurement of services where the bid is evaluated on price alone, the "Class-I Local Supplier" shall get purchase preference over "Class-II Local Supplier" as well as "Non-Local Supplier" as per following procedure:

# i) Among all qualified bids, the lowest bid will be termed as L1.

If L1 is "Class-I Local Supplier", the contract will be awarded to L1.

- ii) If L1 is not a "Class-I Local Supplier", the lowest bidder among the Class-I Local Supplier, will be invited to match the L1 price subject to Class-I Local Supplier's quoted price falling within the margin of L1 + 20%, the contract shall be awarded to such Class-I Supplier subject to matching the L1 price.
- iii)In case such lowest eligible Class-I Local Supplier fails to match the L1 price, the "Class-I Local Supplier" with the next higher bid within the margin of L1 + 20% shall be invited to match the L1 price and so on and contract shall be awarded accordingly. In case none of the of Class-I Local Supplier within the margin of L1 + 20%, the contract may be awarded to the L1 bidder.

iv) Class-II Local Supplier will not get purchase preference.

## **12. PAYMENT TERMS**

<u>No advance payment will be made in any case.</u> Bills in Duplicate should be sent and the payment shall be released generally within 30 days, only after it is ensured that the items / quality of the items supplied are to the entire satisfaction of IIT Tirupati and completed the entire work within the stipulated delivery schedule. If any item is found defective, or not of the desired quality etc., the same should be replaced by the firm(s) immediately for which no extra payment shall be made.

## 13. WARRANTY OF QUALITY AND QUANTITY

- 13.1 The awardee shall give Minimum **2** years warranty on successful completion of supply, and acceptance of supplied items.
- 13.2 The awardee shall give warranty that all items are as per specification(s), conforming to the specified design and there are no defects in the process of manufacturing, packaging, transportation and delivery.
- 13.3 Upon receipt of notice from IIT Tirupati for defective material, the firm shall **within** 15 days of receipt of the notice, replace the defective material, free of cost at the destination. The firm shall take over the defective material at the time of their replacement. No claim whatsoever shall lie on IIT Tirupati for the replaced goods thereafter. If the firm fails to replace the defective goods within a reasonable period, IIT Tirupati may proceed to take such remedial actions as may be necessary, at the company's risk and expense.

## 14. LIQUIDATED DAMAGES

In case of delay in Supply by the stipulated date, IIT Tirupati reserves the right of imposing penalty @0.5% per week on the value of the undelivered items subject to maximum 10% of the cost of undelivered items.

## **15. DELIVERY SCHEDULE**

15.1 The successful bidder should execute the order successfully i.e. Supply, Installation of ordered item within 4 weeks at IIT Tirupati transit campus, Venkatagiri Road, Yerpedu Post, Tirupati District from the date of issue of the purchase order. In case of any damage/Broken/Expired items found, the item(s) should be replaced within 15 days at IIT Tirupati. The bidder has to make own arrangement for unloading and positioning of items at the desired location of IIT Tirupati.

## **16. PERFORMANCE SECURITY DETAILS**

- 16.1 The successful tenderer will have to deposit the performance security valid for 27 Months in the form of DD / TDR / FDR / Bank Guarantee @03% of the total order value at the earliest from the date of issue of the award letter. No interest will be paid by IIT Tirupati on the deposit.
- 16.2 Performance Security will be refunded to the supplier, after it duly performs and completes the contract/warranty period in all respects.
- 16.3 Performance Security will be forfeited if the firm fails to perform/abide by any of the terms or conditions of the contract.
- 16.4 In case, the firm fails to execute the order successfully, within specified delivery period, the same goods/items will be procured from open market and the difference of cost, if any, will be recovered from Performance Security or from pending bill(s) of the defaulting firm or from both in case the recoverable amount exceeds the amount of Performance Security.

## **17. TERMS AND CONDITIONS**

## **17.1** Termination for Insolvency

- I) The IIT Tirupati may at any time terminate the Contract by giving a written notice to the awarding firm, without compensation to the firm, if the firm becomes bankrupt or otherwise insolvent as declared by the competent Court, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to the department.
- **II)** IIT Tirupati and/or the firm are entitled to withdraw/cancel the rate contract by serving one-month notice on each other. However, once a purchase order

is placed on the supplier for supply of a definite quantity in terms of the rate contract during the validity of the rate contract, that purchase order becomes a valid and binding contract.

III) The courts of Tirupati alone will have the jurisdiction to try any matter, dispute or reference between the parties arising out of this purchase. It is specifically agreed that no court outside and other than Tirupati Court shall have jurisdiction in the matter

### 17.2 Force Majeure

- Should any force majeure circumstances arise, each of the contracting parties be excused for the non-fulfilment or for the delayed fulfilment of any of its contractual obligations, if the affected party within 15 days of its occurrence informs in a written form the other party.
- II) Force Majeure shall mean fire, flood, natural disaster or other acts such as war, turmoil, sabotage, explosions, epidemics, quarantine restriction, strikes, and lockouts i.e. beyond the control of either party.

## 17.3 Arbitration

I) All disputes of any kind arising out in connection with the executing the order shall be referred by either party (IIT TIRUPATI or the bidder) after issuance of 30 days' notice in writing to the other party clearly mentioning the nature of dispute to a single arbitrator acceptable to both the parties. The venue for arbitration shall be IIT TIRUPATI India. The jurisdiction of the courts shall be Tirupati, Andhra Pradesh, India.

## 17.4 Other Conditions

- The bidder has to upload the relevant & readable files only as indicated in the tender documents. In case of any irrelevant or non-readable files, the bid may be rejected.
- IIT Tirupati will not be liable for any obligation or supplies made unless the Official Purchase Order has been placed by the Purchase Department.
- III) IIT Tirupati reserves the right to accept or reject any or all the tenders in part or in full or may cancel the tender, without assigning any reason thereof.
- IV) IIT Tirupati reserves the right to relax / amend / withdraw any of the terms and conditions contained in the Tender Document without assigning any reason thereof. Any inquiry after submission of the quotation will not be entertained.
- V) IIT Tirupati reserves the right to modify/change/delete/add any further terms and conditions prior to issue of purchase order.
- VI) In case the bidders/successful bidder(s) are found in breach of any condition(s) at any stage of the tender, Performance Security shall be forfeited.
- VII)False declaration/documents will be in breach of the Code of Integrity under Rule 175(1) (h) of the General Financial Rules for which a bidder or its

successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

VIII) Repeat Order: IIT Tirupati reserves the right to place repeat order up to 100% of the quantities within a period of 12 months from the date of successful completion of purchase order at the same rates and terms subject to the condition that there is no downward trend in prices.

To take care of any change in the requirement during the currency of the contract, a plus/minus option clause for 25 per cent is incorporated in the tender document, reserving purchaser's right to increase or decrease the quantity of the required goods up to that limit without any change in the terms and conditions and prices quoted by the tenderers.

- IX) Conditional tenders will not be considered in any case.
- X) In case of doubt in material, the expenditure on testing of equipment will be borne by the tenderer.
- XI) Institute reserve the right to increase/decrease the order quantity at any period of times during the validity of the contract.
- XII) IIT Tirupati may issue amendment/corrigendum to tender documents before due date of submission of bid. Any amendment/corrigendum to the tender document if any, issued by IIT Tirupati will be posted on CPP Portal. For the bidders, submitting bids on downloaded tender document, it is 'bidders' responsibility to check for any amendment/corrigendum on the website of IIT Tirupati or check for the same CPP Portal before submitting their duly completed bids.

### UNDERTAKING

To **The Registrar,** Indian Institute of Technology Tirupati-Renigunta Road, Settipalli post, Tirupati 517506.

Tender No. IITT/ CSRC/MECH/2022-23/139 dated: 28-06-2022.

**Name of the Tender/Supply:** Notice Inviting Tender for Supply, installation, testing and Commissioning of Finite Element based customized welding software Sir,

I /we hereby submit our bid for Supply, installation, testing and Commissioning of Finite Element based customized welding software

I/ We enclosed here with the following in favor of Indian Institute of Technology Tirupati towards Tender Fee.

Particular	Amount	Payment Reference Details	Payment Date
Tender Fee (Including Tax)	500/-		

- 1. I / We hereby reconfirm and declare that I / We have carefully read, understood & complying the above referred tender document including instructions, terms & conditions, scope of work, schedule of quantities and all the contents stated therein. I / We also confirm that the rates quoted by me / us are inclusive of all taxes, duties etc., applicable as on date.
- 2. I /we have gone through all terms and conditions of the tender document before submitting the same.



### ANNEXURE – II

### **On Company Letter Head**

### **Bid Security Declaration**

To **The Registrar,** Indian Institute of Technology Tirupati-Renigunta Road, Settipalli post, Tirupati 517506.

Tender No. . IITT/ CSRC/MECH/2022-23/139 dated: 28-06-2022.

**Name of the Tender/Supply :** Notice Inviting Tender for Supply, installation, testing and Commissioning of Finite Element based customized welding software.

Sir,

We, the undersigned declare that

- 1. We understood that, according to the tender conditions, bids must be supported by a Bid Security Declaration.
- 2. We accept that we will automatically be suspended from being eligible for bidding in any contract with the Institute for the period of **3 years** starting from the bid closing date, if we are in breach of our obligation(s) under the bid conditions, because we;
  - (a) have withdrawn our bid during the period of bid validity specified in the letter of bid; or
  - (b) having been notified of the acceptance of our bid by the institute during the period of bid validity, (i) fail or refuse to execute the contract, if required, or (ii) fail or refuse to furnish the performance security, in accordance with the tender conditions.



## **CERTIFICATE** (To be provided on letter head of the firm)

I hereby certify that the above firm is not in the active debarred list by any Central/State Government/Public Undertaking/Institute nor is any criminal case registered / pending against the firm or its owner / partners anywhere in India.

I also certify that the above information is true and correct in every respect and in any case at a later date it is found that any details provided above are incorrect, any contract given to the above firm may be summarily terminated and the firm may be blacklisted.



## a) Experience: (As per tender Clause No.4.2 (III)

Year	Name of the Item with Specification (Technical specification brochure to be attached)	Purchase Order No. & Date (Copy of the Orders to be attached)	Date of successfully completion of SITC of ordered Item (copy of Installation report from client to be attached)	Contact Details of Client
2017-18				
2018-19				
2019-20				
2020-21				

## b) Past Performance: (As per tender Clause No.4.2 (III)

Year	Purchase Order No. & Date (Copy of the Orders to be attached)	Quantity	Date of successfully completion of SITC of ordered Item (copy of report from client to be attached)	Whether supplied item(s) is in successful operation for at least one year (Certificate from client to be attached)	Contact Details of Client [email and phone no]
2017-18					
2018-19					
2019-20					
2020-21					

Date :

Place :



Authorized Signatory

Name: Designation:

Contact No .:

## ANNEXURE – V

## **Annual Turnover and Profit Details:**

Evaluation Criteria			Remark	Specific page no. where the proof of documents are enclosed	
Bidder's Annual	Financial Year	Turnover in Rs.	Annual Profit in Rs.	-	
Turnover and Profit for last	2020-21			Supporting Documents are to be attached along with the Annexure-V [i.e. Audited financial Statements or Financial Statements showing turnover duly signed by a Chartered Accountant are to be submitted]	
three financial years	2019-20				
	2018-19				
	2017-18				

Date<sup>.</sup>

Date:	
	Seal
Place:	

Authorized Signatory:

Name:

Designation:

Contact No.:

### Format for Self-Declaration under preference to make in India order

In line with Government Public Procurement Order No. P-45021/2/2017-BE-II date. 15.06.2017 & P-45021/2/2017-PP (BE-II) dated: 04 June 2020. We hereby certify that we M/s. \_\_\_\_\_\_\_ (supplier name) are CLASS-I/Class-II supplier (Please specify clearly) supplier meeting the requirement of local content more than 20% as defined in above orders for the material against Enquiry No. Tender No. . IITT/ CSRC/MECH/2022-23/139 dated: 28-06-2022.

Details of location at which local value addition will be made as follows: (Complete address to be mentioned)

Percentage of Local Content:

(As per the OM of Department of Promotion for Industry and Internal Trade No. P-45021/102/2019-BE-II-Part(1) dated: 04.03.2021. The bidders can't claim themselves as Class-I local suppliers/Class-II local suppliers by claiming the services such as transportation, insurance, installation, commissioning, training and after sales service support like AMC/CMC etc. as local value addition)

We also understand, false declarations will be in breach of the Code of Integrity under rule 175 (1) (i) (h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

Seal and signature of Supplier

Date

:

Place :

### ANNEXURE – VII

## **Technical Compliance statement**

Description	Compl	Remar	Offere	% of	Coun
	ied	ks, if	d	Local	try of
	(Yes/	any	Make	Content	Origi
	No)	-	&	as per	n
			Model	Tender	
				Clause	
				No.4.2(	
				V) `	
Finite Element based customized welding software - one					
bundle with minimum five licenses.					
Technical Specifications					
As per the clause no. 2 of the tender document					

### ANNEXURE -- VIII

Name of the bidder				
Date of Incorporation / Registration details				
PAN Number				
GST Registration Number				
Bidder's Bidding Capacity for the tendered items (As a Manufacturer/ Trader/ dealer / channel partner / system integrator, etc.)				
	Account Number			
	IFS Code			
Bank Details	Bank Name			
	Branch Name			
Registered Office Address				
Authorized Signatory Details	Name			
(Company/Firm Authorization	Designation			
by the competent authority, to	Email			
be attached)	Phone			
	Name			
Details of Contact other than	Designation			
Authorized Signatory	Email			
	Phone			

## **COMPANY DETAILS**

Date:

Place:

## Signature and Seal of the Tenderer:

Name in Block Letter:

**Designation:** 

Contact no.

**28 of 30** P a g e

## ANNEXURE-IX

Tender Clause	Name of the Document	Document Particulars	Submitted (Yes/No)	Page No. of the attached
No.				Document
3.1	Tender Fee			
3.4	Bid security Declaration (Annexure-II)			
3.3	Valid Tender Fee / EMD Exemption Certificate			
4.1.	PAN Card			
	Incorporation/Registration certificate of company			
4.0 (T)	GST Registration copy			
4.2.(I)	I ender acceptance letter (Annexure I)			
4.2.(II)	Non-Blacklisting undertaking (Annexure III)			
4.2.(111)	The bidder/OEM should have supplied similar system			
	during past three financial years i.e. during 2017-18 to			
	2019-20 in India to Central / State Govt/ PSU/ CPSEs/			
	Educational R&D Institutions. Vendor should provide			
	satisfactory installation certificates with product			
	details as proof with customer contacts email and			
	phone number as per the Annexure-IV.			
4.2.(IV)	The Annual Turnover should be at least Rs. 2 Lakhs			
	and be profitable during each of the previous three			
	financial years i.e. during 2017-18 to 2019-20 or			
	2018-19 to 2020-21. Audited financial Statements or			
	Financial Statements showing turnover duly signed by			
	a Chartered Accountant are to be submitted as per the			
	Annexure-V.			
42(V)	The bidder should be a Class-I/Class-II supplier in line			
1.2.(*)	with the Public Procurement (Preference to Make in			
	India) Order 2017 No. P $45021/2/2017$ PD (BE II)			
	deted 04 Jun 2020 A Solf Declaration Cartificate			
	uated 04 Juli 2020. A Sen-Declaration Certificate			
	regarding Class-1 & Class-11 Supplier for the			
	tendered items as per the Annexure-VI is to be			
	submitted.			
4.2.(VI)	The bidder should be OEM or OEM authorized			
	Dealers / Channel partners / Distributors of reputed			
	brand having authorization for sales and after sales			
	support. Valid OEM authorization letter is required to			
	participate in this tender.			
4.2.(VII)	Any bidder from a country which shares a land border			
	with India will be eligible to bid in this tender only if			
	the bidder registered with the competent authority.			
	The concerned bidder(s) are required to attach the			
	relevant valid Registration Certificate along with the			
4.2	UIU IOI CONSIDERATION.			
4.3	rechnical Compliance Statement : Annexure-VII.			

## CHECKLIST FOR BIDDERS TO BE SUBMITTED IN DULY FILLED AND SIGNED

11.1 (I)	Purchase Preference: (if applicable)	
	Micro and Small Enterprises (MSEs):	
11.2 (II)	Purchase Preference: Make in India	
12	Payment Term: Within 30 days after SITC.	
13.	Onsite Warranty: Minimum 02 Years onsite	
	warranty	
2	Spares and service support: Minimum 5 years from	
	the date of supply	
15	Delivery: FOR IIT Tirupati within 4 weeks	
8	Bid validity: 90 days from the date of opening of the	
	tender	
	Company details : Annexure-VIII	

<u>Note</u>:

1) Submission of tender without the above mentioned documents will lead to rejection/disqualification of the tender.

2) It is mandatary for the bidder to assign page numbers to the tender documents and the same has to be mentioned in the above checklist.

Signature of the bidder with stamp