**TECHNICAL BID PROFORMA**

**Item Name: Software for designing and precise machining control equipment**

## 1.0    Bidder Eligibility Criteria:

| I | Bidder Eligibility Criteria-I (Public Procurement – Preference to Make in India) | Class I / Class II | Local Content value | Reference, Page No. |
|---|---|---|---|---|
| I | Only 'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P-45021/2/2017-PP (BE II) dated 16th September 2020 and other subsequent orders issued therein. | | | |
| **2.0** | **Bidder Eligibility Criteria-II** | **Compliance (Yes/No)** | **Reference Page No.** | **Remarks, If any** |
| 1 | 1.    The bidder/OEM should have supplied at least 5 similar items to IITs, NITs, IISERs, CSIR Labs or other Govt.  R&D organizations in the last 10 years, PO copies or installation certificates along with contact details of end user need to be submitted as the proof of supply.  IIT Madras reserves its right to verify the claims submitted by the bidder and the feedback from the previous customers will be part of technical evaluation. | | | |

## 3.0 Technical Compliance:

| S.NO | Specification | Parameter | Complied/Not Complied | Reference Page No |
|---|---|---|---|---|
| **1.0** | **Motion Control** | | | |
| 1.1 | Galvanometric scanner control | Yes | | |
| 1.2 | Positioning stages control | Needed | | |
| 1.3 | Axes control | 3, 4 and 5 | | |
| 1.4 | Unlimited number of axes | Yes | | |
| 1.5 | Galvo+Stages Stitching | Yes | | |
| 1.6 | Virtual Joystick | Optional | | |
| **2.0** | **File Import** | DXF, DWG, STL, STP, IGES, TXT, CSV, NC Drill | | |
| **3.0** | **Tools/Commands** | | | |
| 3.1 | | ● Drawing tools ● Hatching (lines, cross-hatching) ● Advanced hatching (stripes, chess pattern) ● Measuring ● Logical Commands (Loop, If) ● Variables ● Math functions | | |

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|---|---|---|---|---|
| | | ● Loging, Data Export<br>● Sample surface height mapping<br>● Support generation for 3D models | | |
| 4.0 | Device control | IO. Serial port control | | |
| 5.0 | Security features | User access levels, Process Parameter locking | | |
| 6.0 | Custom features | ● APIs to add new hardware and features<br>● Development of custom features and hardware support (up to 16 hours)<br>● Development of custom features, hardware support and user interface | | |
| 7.0 | Training and support | ● Personal online training session<br>● Online assistance<br>● Installation, configuration and testing on your machine at your site<br>● Follow-up online training | | |
| 8.0 | System | ● 64 bit system<br>● Multicore processing | | |
| 9.0 | Application requirements | | | |
| | ● Capable of precise positioning<br>● Complex design features<br>● Quick feedback monitoring system<br>● Can accommodate free form contours<br>● Need to be of higher integration with femtosecond laser machininig | | | |

| S.NO | Other Requirements | | |
|---|---|---|---|
| 1 | Quotations with the complete solution for the above requirement will only be accepted. | | |
| 2 | I.I.T. Madras has the right to accept the whole or any part of the tender or portion of the quantity offered or reject it in full without assigning any reason | | |
| 3 | The offer/bids should be sent only for a machine that is available in the market and supplied to a number of customers. Quotations for a prototype machine will not be accepted. | | |
| 4 | Test certificates for all the stages confirming the specifications from OEM are required with shipping/freight documents. | | |
| 5 | Suppliers to provide training for programming, operation and maintenance at IIT Madras at free of cost. | | |
| 6 | All necessary safety regulations such as CE compliance, low voltage directive, EMC regulations compliance details, Alarms and emergency switch off in case of any malfunctioning must be provided. The system | | |

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| | must be equipped with all the necessary safety interlocks. Provisions for safety wear are essential. | | |
| 7 | The complete system and its associated hardware should have a standard warranty of 1 year or more from the date of installation, commissioning and acceptance of the system at IIT madras. Suppler modification (s)/software upgrades shall be intimated and the same will be made available free of cost during the warranty period. | | |
| 8 | All technical literature/catalogues and drawings of various systems should accompany the quotation. All the documents should be in English. | | |
| 9 | Installation and commissioning should be provided by the supplier or its Indian agent. The Indian agent should have well proven service capability on similar systems with factory trained service engineers available in India. Details of their engineers expertise should be enclosed along with the offer and will be a key factor in the decision making. | | |
| 10 | The system should have compatibility with Indian environment conditions (for better power/energy stability) | | |

(Note: It is mandatory for the bidders to provide the compliance statement in tabular column format along with catalogue page number (comply/not comply) for the above points with document proof as required. Failing which bidders will be technically disqualified)

**SIGNATURE OF BIDDER ALONG WITH**
**SEAL OF THE COMPANY WITH D**