Software for designing and precise machining control

1.0	Motion Control	
1.1	Galvanometric scanner control	Yes
1.2	Positioning stages control	Required
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 • Logging, Data Export • Sample surface height mapping • 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 • Development of custom features and hardware support (up to 16 hours) • Development of custom features, hardware support and user interface
7.0	Training and support	• Personal online training session • Online assistance • Installation, configuration and testing on your machine at your site • Follow-up online training
8.0	System	• 64 bit system • Multicore processing
9.0	Application requirements	
	• Capable of precise positioning • Complex design features • Quick feedback monitoring system • Can accommodate free form contours • Need to be of higher integration with femtosecond laser machining	

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 (Quote items separately)
3. A list of customers in India and abroad with details must accompany the quotations. Quotations for a prototype machine will not be accepted.
4. Suppliers to provide training for programming, operation and maintenance at IIT Madras at free of cost.
5. 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 must be equipped with all the necessary safety interlocks. Provisions for safety wear are essential.
6. All technical literature/catalogues and drawings of various systems should accompany the quotation. All the documents should be in English.
7. Installation 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.
8. **The last date for receipt of the quotation is as per tender terms & conditions**