



भारतीय प्रौद्योगिकी संस्थान इन्दौर
सिमरोल, खंडवा रोड, इन्दौर, भारत, पिन - 453 552

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IIT Indore

NIT No.: IITI(MM)/MEMS/1/1F/600/JM/2017-2018

March 05, 2018

Prebid Report

The meeting for Pre-bid discussion and presentation was held at IIT-Indore on 26/02/2018 from 11.00 AM onwards for **Friction Stir Welding Machine**

The report of the meeting is as below:


Sl. No.	Ref. of Tender Doc.	Query raised by	Query/Clarification/ Deviation sought	Response from IITI
1	Technical Specification @ Page No. 15	M/s. Interface Design Associated Pvt. Ltd., Mumbai	a. Tilt axis can be manual adjustment with graduated scale. Thus 3 axis control would be for X, Y and Z axis. PC-based control integrating the sensors (load sensors), CNC motion control and temperature measurement must be provided. User friendly software for data acquisition system integrating Labview and CNC control is required for the operation and data analysis. While Y axis would be used only during job setting, thie Y axis must be motorized with suitable display. Hand held pendant with MPG (like is used on CNC machines) with 3 meter cable should be provided for ease of job setup.	The details mentioned about axis tilt, movement and controls are compatible and accepted
2			b. Travel area can be reduced to 800 x 300 mm	Travel area 800X300 mm and above is accepted.
3			c. Rigid machine with HMT/BFW manual machine body retrofitted with CNC and sensors also acceptable.	Accepted, provided all the feature mentioned should exist.
4			d. Spindle speed : Speed range required for normal operation is 200 - 1000 rpm, however 2000 rpm maximum for working on Titanium and other metals. However, vendor can provide chart with different feeds at different spindle speeds.	The maximum spindle speed is 2000 rpm. Vendor should provide chart showing the relation feed rate used for particulat spindle speed for smooth operation.
5			e. Load cell to be used – all 3 axis	Accepted

6			f. Temperature sensing – using non contact pyrometer, accuracy grade- +/- 5 deg, preferred, +/- 10 degree is also acceptable. Temperature range is usually 600 deg or so, range max. 900 degrees C.	+/- 5 deg, preferred and acceptable. The maximum temperature range 1000 deg. C
7	Technical Specification @ Page No. 15	M/s. Interface Design Associated Pvt. Ltd., Mumbai	g. User friendly software should be provided to collect the position, load and temperature data and store it in XLS file format for further analysis. PC to be provided should have minimum i3/i5 CPU with 8 GB RAM and 21” color monitor for fast graphical and data acquisition capability.	CPU should be i5, other details mentioned are accepted
8			g. Jigs for holding the specimens should be provided – 2 sets of T-slot clamps to be provided for holding the specimens.	2 set of T clamps and Vice should be provided
9			h. Samples for trials and experiments : Samples should be supplied for initial training purpose, 2 sets (one set of 2 pieces) in Ti alloy, Al alloy, SS. Standard sizes for demo 50mm width x 400 mm length.	Atleast two sets of each materials should be provided in addition to demo specimen.
10			Under GST notification 47 and 45, 5% GST would be chargeable.	Please refer the GST notification available on our website.
11			System is required to be installed preferably in 3-4 months.	Preferably 3 months

Revised Schedule of Bid Submission:

Last Date & Time of Bid Submission (Online)	March 15, 2018 upto 3.00 PM
Technical Bid Opening Date & Time (Online)	March 16, 2018 at 3.00 PM

All prospective/willing bidders are requested to take note of this report as part of the Tender document. All other terms and conditions of the tender remain unchanged.


 Dy. Registrar (MM)
 एस.पी.होता/S. P. HOTA
 उप कुलसचिव/Deputy Registrar
 आई.आई.टी., इन्दौर/IIT Indore