



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/528/JM/2017-2018

February 16, 2018

Prebid Report

The meeting for Pre-bid discussion and presentation has been scheduled at IIT-Indore on 09/02/2018 from 11.00 AM onwards for Notice Inviting Tender for Fatigue Testing Machine

The report of the meeting is as below:

| Sl. No. | Reference of the Clause/ Page No. of the Tender Document | Query raised by | Query/Clarification/ Deviation sought | Response from IITI |
|---------|---|---|--|---|
| 1 | Loading Frame Testing Space 125 to 1525mm | M/s. Instron-A Division of ITW India Pvt. Limited | Is testing space between the grips or Between Top Crosshead to lower Base? We offer top Crosshead to lower base as 700mm Min to 1975mm Max | The maximum working space (Gap between grips) 1250 mm or more is accepted. |
| 2 | Axial Actuator Frame stiffness 0.0012 mm/KN = 1.2mm/MN | | The stiffness of Fame is normally express at 1m Distance, which is not specified and it should be KN/mm. If it at 1m separation between Actuator and Fixed base, which is too high for 100kN system. We can offer 585kN/mm at 1m Separation, if we do reciprocal it is 0.0017mm/KN | The frame stiffness of 585kN/mm at 1m separation or more is accepted. However as it is safety concern the vendor need to submit the proof that they supplied same specification machine before to any IIT in India / or equivalent institute abroad. The system should be latest version. |
| 3 | Stroke +/- 50mm | | +/- 75 mm | Stroke +/- 50mm or higher is accepted |
| 4 | Torsion Actuator Static +/- 1.5 kNm Angle +/- 50 deg Servo Valve 57LPMX1 PC | | Dynamic & static +/- 1.0 kNm Angle +/- 45 deg Axial Servo Valve 40 LPM Torsional Servo Valve 20 LPM | Torsion actuator dynamic static +/- 1.0 kNm or more is accepted, however as it is safety concern the vendor need to submit the proof that they supplied same specification machine before to any IIT in India / or equivalent institute abroad. (Load cell accuracy should be within +/- 0.5%) The vendor need to submit the detailed amplitude characteristics (If asked they should be in ready position to demonstrate). |

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|----|---|---|--|---|
| 5 | Hydraulic Power Supply Rated Pressure 21 MPa | M/s. Instron- A Division of ITW India Pvt. Limited | Rated Pressure nominal flow 207Bar and Max 230Bar | Hydraulic Power Supply Rated Pressure 210 Bar or more is accepted |
| 6 | Pumping rate 42 L/min | | 48 L/min | Pumping rate 42 L/min Or higher is accepted |
| 7 | Oil : Mobile DTE25 | | Oil Shell Tellus | Oil : vendor should supply suitable oil for the hydraulic system they are supplying |
| 8 | Vendor should supply necessary water cooling tower & plumbing arrangement | | We can supply cooling tower and Pump, plumbing and civil work has to carry out by IIT Indore | Vendor should supply cooling tower, Pump and required piping however the civil work would be carry out by IIT Indore |
| 9 | Detector Axial Force Static +/- 150Kn Torque Static +/- 1.5kNm Piston angle +/- 50 deg | | +/- 120kN +/- 1.0 kNm +/- 45 deg | Detector Axial Force Static +/- 120Kn Torque Static +/- 1.0kNm Piston angle +/- 45 deg or more is accepted, however as it is safety concern the vendor need to submit the proof that they supplied same specification machine before to any IIT in India / or equivalent institute abroad. The vendor also need to submit the detailed amplitude characteristics |
| 10 | Controller Ramp Rate 10 ⁻⁹ to 100 Full sacle/sec | | Is it controller spec or actual system requirement? | It is controlled specification |
| 11 | Hold Time 0 to 10 ⁹ Sec | | Is it controller spec or actual system requirement? | It is controlled specification |
| 12 | Communication: USB | | Ethernet | USB/ Ethernet or both is accepted |
| 13 | Display Panel – touch panel | | Computer Screen – LED 22inch but not touched base, windows 10 O.S | Computer Screen – LED 22inch is accepted |
| 14 | Grips Manual Grip | | Is it only Mechanical axial grip? | Both mechanical and hydraulic grip are accepted. |
| 15 | Extensometer Round 6 to 16mm | | Is 6 to 16mm is G.L.? | Gauge length 10 mm |
| 16 | Travel +/- 1mm | | Travel +/- 1mm | Travel +/- 1mm |

Revised Schedule of Bid Submission:

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|---|-----------------------------|
| Last Date & Time of Bid Submission (Online) | March 05, 2018 upto 3.00 PM |
| Technical Bid Opening Date & Time (Online) | March 06, 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