



### PREBID REPORT

The offline meeting for Pre-bid discussion and presentation was held at IIT Indore on July 08, 2022 @ 15:00 Hrs at Classroom no. L-04, Lecture Hall Complex, Ground Floor for **Procurement of Universal Testing Machine** through CPP Portal.

The report of the meeting is as follow:

Sr. No.	Query raised by firms	Reference of the clause No. of the tender document	Query/Clarification/Deviati on Sought	Clarification response from IIT Indore
1.	M/s. Amil Limited, Indore	Technical Specification <b>Heading – Basic Unit,</b>  <b>Point No. 3:-</b> The stiffness of the Frame should be high (> 275 kN/mm) enough to test various classes materials (Polymers to Ceramics )	<b>Request to Amend</b> - Frame Stiffness > 230 kN /mm  <b>Clarification</b> - The frame stiffness varies with the distance between Crosshead and base platen. Hence the specification mentioned is incomplete. Our offered specification will meet the testing requirements from Polymer to Ceramics. Any possible Error in axial deflection measurement due to higher stiff material then frame stiffness are addressed using Extensometer or LVDT.	This high stiffness is essential to avoid any compliance corrections particularly when testing materials with low elastic limits and with high strength (e.g ceramics etc.,)
2.	M/s. Amil Limited, Indore	Technical Specification <b>Heading – Load Cell</b> ,  <b>Point No. 1 :-</b> Within $\pm 0.5$ % of the displayed test force for 1/100 to 1/1000 of the load cell capacity	<b>Request to amend</b> - Within $\pm 1.0$ % of the displayed test force below 1/100 to 1/1000 of the load cell capacity  <b>Clarification</b> - Generally, the load Cells are not used below 1/100 of the load cell capacity due to poor resolution. Requested amendment meets all national and international standards.	This high accuracy is needed to capture some of the deformation events in novel materials.

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3.	M/s. Amil Limited, Indore	<p>Technical Specification</p> <p><b>Heading – Load Cell</b></p> <p><b>Point No. 2 :-</b> Within <math>\pm 0.3</math> % error of the indicated test force in the range 1/100 and 1/1 of the load cell capacity.</p>	<p><b>Request to amend -</b> The accuracy of load cell will be <math>\pm 0.5</math> % error of the indicated test force in the range 1/100 and 1/1 of the load cell capacity.</p> <p><b>Clarification -</b> Requested amendment meets all national and international standards.</p>	<p>This high accuracy is needed to capture some of the deformation events in novel materials.</p> <p>Being a premier institute, many of us are working novel materials where the deformation response of non-standard dimension samples needs to be investigated.</p>
4.	M/s. Amil Limited, Indore	<p>Technical Specification</p> <p><b>Heading – Software ,</b></p> <p><b>Point No. 13 :-</b> 4 types of various axis graph in one window while testing.</p>	<p><b>Request to amend -</b> One graph can be configured for any axis.</p> <p><b>Clarification -</b> Multiple graphs on one screen occupies major part of the test screen.</p>	<p>This is needed to capture real-time events of various responses.</p>
5.	M/s. Amil Limited, Indore	<p>Technical Specification</p> <p><b>Heading – Safety Features ,</b></p> <p><b>Point No. 1 :-</b> Two Emergency Stop buttons at the front surface.</p>	<p><b>Request to amend –</b> One Emergency stop button at the front surface.</p> <p><b>Clarification -</b> Generally Systems are supplied with one emergency stop and can be extended to multiple Emergency stop, however it creates confusion to user.</p>	<p>This is to ensure more safety features and avoid any inadvertent damage.</p>
6.	M/s. Amil Limited, Indore	<p>Technical Specification</p> <p><b>Heading – Safety Features ,</b></p>	<p><b>Request to amend -</b> Upper &amp; Lower Limit (Mechanical)</p> <p><b>Clarification -</b> Mechanical Limits are better compared to Photoelectric due to dust etc.</p>	<p>This is to ensure more safety features and avoid any</p>

		<b>Point No. 2 :- Upper &amp; Lower Limit (Photoelectric)</b>		inadvertent damage.
7.	M/s. Amil Limited, Indore	Technical Specification <b>Heading – Safety Features ,</b>  <b>Point No. 14 :- Jig Collision prevention function</b>	<b>Request to amend</b> – Jig collision prevention should be available from Hardware or software Limits.  <b>Clarification</b> - Jig collision can be prevented by setting Hardware or software Limits. No need any dedicated feature in software.	This is to ensure more safety features and avoid any inadvertent damage.
8.	M/s. Globetex Industries. Sahibabad , U.P.	Technical Specification	What is the required inner chamber size/dimensions?	W x D x H – 300 mm x 300 mm x 600 mm  Temperature range -70 to 300 °C  Cooling – Liquid N2 system  Temperature distribution - ± 1.5°C within ±200 mm of H
9.	M/s. Globetex Industries, Sahibabad , U.P.	Technical Specification	Temperature range of the chamber	Temperature range -70 to 300 °C
10	M/s. Globetex Industries, Sahibabad , U.P.	Technical Specification	Liquid helium temperature suggests a temperature below (-273 deg C/0.9K), do you mean the same?	No. It is liquid Nitrogen cooled chamber

  
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11	M/s. Globetex Industries, Sahibabad . U.P.	Technical Specification	Kindly specify the application, if yes.	Specified in point 8
12	M/s. Shimadzu Analytical (India) Pvt. Ltd. Mumbai	Technical Specification Extensometer for room temperature - Clip on type extensometer gauge length 50mm or 25 mm and max elongation up to 50%	<b>Please confirm the gauge length required for clip on type extensometer 50 mm or 25 mm</b>	25 mm Gauge length clip on type extensometer
13	M/s. Shimadzu Analytical (India) Pvt. Ltd. Mumbai	Technical Specification- Environmental Chamber- Provide the price of an environmental chamber with necessary grips that can test samples under liquid helium environment	<b>Can we quote the environmental chamber with LN2 (Liquid nitrogen) cylinder for temperature range-70Deg C to +300 Deg C?</b>	Specifications are mentioned in point 8

**Note:-**

- 1) All prospective/willing bidders are requested to provide the list of such equipment supplied to IITs, IISc, and other national labs such as DMRL and NAL. Satisfactory feedback from them is an essential criterion in the evaluation process.
- 2) All prospective/willing bidders are requested to take note of this report as part of the Tender document. All other parts of the tender including the terms and conditions of the tender will remain Unchanged.

  
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