



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान पुणे
INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH PUNE
IISER/PUR/1650/23
PREBID CLARIFICATION ON GeM TENDER NUMBER - GEM/2023/B/5141077

आइटम विवरण- सरफेस टेन्सियोमीटर की खरीद
Item Description- Procurement of Surface Tensiometer

सरफेस टेन्सियोमीटर की खरीद के लिए 22/06/2024 को संस्थान की वेबसाइट www.iiserpune.ac.in और जीईएम पोर्टल पर प्रकाशित एक खुली निविदा देखें।

Refer to an open tender published on the Institute website www.iiserpune.ac.in and on the GeM Portal Dated 22/06/2024 for procurement of Surface Tensiometer.

प्री-बिड मीटिंग 29/07/2024 को शाम 3.00 बजे आयोजित की गई और बैठक का कार्यवृत्त निम्नानुसार है:
Pre-Bid meeting was held on 29/07/2024 at 3.00 PM and minutes of meeting is as under:

प्रारंभ में, समिति ने सभी सदस्यों और संभावित बोलीदाताओं के प्रतिनिधियों का स्वागत किया और सामान्य तौर पर निविदा के दायरे की जानकारी दी और उसके बाद सहायक कुलसचिव (भंडारण एवं क्रय) से बोली लगाने वालों को निविदा की मुख्य विशेषताओं के बारे में जानकारी देने का अनुरोध किया।

At the outset, the committee welcomed all the Members and the representative of the Prospective Bidders and briefed in general the scope of the tender and thereafter requested Assistant Registrar (S&P) to brief the bidders on the salient features of the tender.

उपस्थित प्रतिनिधि दिए गए उत्तरों से संतुष्ट थे और यह सूचित किया गया था कि प्री बिड कॉन्फ्रेंस के दौरान की गई चर्चा के अनुसार दिए गए सुधार- / परिवर्धन / स्पष्टीकरण को IISER पुणे की वेबसाइट पर होस्ट किया जाएगा और सभी संभावित बोलीदाताओं को बोली दस्तावेजों में निर्धारित अनुसार अपनी बोली जमा करने से पहले प्री-बिड सम्मेलन की कार्यवाही का संज्ञान लेना आवश्यक है।

The representatives present were satisfied with the replies given and it was informed that the corrections / additions / clarifications given, as discussed during the Pre-Bid Conference would be hosted on the website of IISER Pune and all the Prospective Bidders are required to take cognizance of the proceedings of the Pre-Bid Conference before submitting their bids as stipulated in the Bidding Documents.

हमारी आईआईएसईआर वेबसाइट www.iiserpune.ac.in और GeM portal पर जारी नोटिस के अन्य नियम और शर्तें अपरिवर्तित रहेंगी। इस संबंध में और कोई पत्राचार नहीं किया जाएगा।

The other terms & conditions of the notice issued on our IISER website www.iiserpune.ac.in and GeM portal will remain unchanged. No more correspondence in this regard will be entertained.

बैठक अध्यक्ष के धन्यवाद प्रस्ताव के साथ समाप्त हुई।
The meeting ended with vote of thanks to the Chair.

29/07/2024
29/07/2024

Sd/-
सहायक कुलसचिव (भंडारण एवं क्रय)
Assistant Registrar (S&P)

TECHNICAL AND COMMERCIAL QUERIES AND CLARIFICATION

PRE-BID CONFERENCE FOR ITEM DESCRIPTION- PROCUREMENT OF SURFACE TENSIO METER

S. No.	Query/Clarification Sought	Clarification / Amendment
01	<p><u>Page no.4, Buyer Specification Document</u></p> <p>Balance load capacity & features: 50g, the internal balance of the Tensiometer must be from Reputed manufacturers e.g. Sartorius or Mettler Balance resolution: 100 µg</p> <p>Balance brand Brand: ViBRA https://www.vibra.co.jp/global</p> <p>The balance standard must be provided by the manufacturer for calibration of the balance in-house to check the performance of the balance.</p>	<p><u>Page no.4, Buyer Specification Document</u></p> <p>Tender specification is amended form 50g, the internal balance of the Tensiometer must be from Reputed manufacturers e.g. Sartorius or Mettler Balance resolution: 100 µg</p> <p><i>To 50g, the internal balance of the Tensiometer must be from a reputed Manufacturer with 3 years' warranty. Balance resolution: 100 µg.</i></p> <p><i>1 Year Warranty on Main Instruments.</i></p>
02	<p><u>Page no.4, Buyer Specification Document</u></p> <p>Control & Display: In-built controller through soft keys by touch/push operation to program the measurement & store a minimum of 500 sample measurement data should be displayed on LCD</p> <p>No Built controller, All operations are from a PC and Windows software as you asked for PC. The PC-based system has lot of advantages like graphical representation of data, unlimited storage etc.</p> <p>Built-in controller through touch key pad always damaged because of spillage of chemicals on the touchpad, chemicals entered into electronic boards cause damage to electronic parts frequently.</p>	<p><u>Page no.4, Buyer Specification Document</u></p> <p>Tender Specifications prevails.</p>

03	<p><u>Page no.4, Buyer Specification Document</u></p> <p>Measuring chamber: Illuminated sample platform with windshield</p> <p>No illumination No illumination needed in our Kyowa' DY 300 Model as using a fully transparent Chamber and the measurement of Surface Tension/ Interfacial Tension is fully Automatically, the reason doesn't require any manual involvement during the measurement.</p>	<p><u>Page no.4, Buyer Specification Document</u></p> <p>Tender specification is amended form Illuminated sample platform with windshield</p> <p><i>To Sample should be visible externally with provision of windshield</i></p>
04	<p><u>Page no.4, Buyer Specification Document</u></p> <p>Platform movement: ≥ 80 mm Stroke: 48mm</p>	<p><u>Page no.4, Buyer Specification Document</u></p> <p>Tender specification is amended form ≥ 80 mm <u>to ≥ 40 mm</u></p>
05	<p><u>Page no.4, Buyer Specification Document</u></p> <p>Battery and Power Supply: In-built rechargeable battery 230V +/- 10%, 50Hz ± 1</p> <p>No Inbuilt rechargeable battery Only 230V</p>	<p><u>Page no.4, Buyer Specification Document</u></p> <p>Tender Specification stands deleted.</p>
06	<p><u>Page no.4, Buyer Specification Document</u></p> <p>Temperature control system Working Temperature Range for measurement: (-) 10 0C to (+) 100 0C 0-90 0C sample temperature, with suitable thermostable jacket (SS) with integrated stirrer, temp sensor Equivalent But no stirrer (it only needed to when measuring the automatic CMC)</p>	<p><u>Page no.4, Buyer Specification Document</u></p> <p>Tender Specifications prevails.</p>
07	MII Clause-Not Applicable	As per the PP Policy Order No.P-45021/2/2017-PP (BE-II). Ministry of Commerce and Industry, Govt. of India dated 4th June 2020 the tender is invited from Class-1 and Class-2 Local Suppliers and Non-Local Supplier is not eligible for this tender
08	Buyer Specification Document	Technical Specifications appended as Annexure-III

Specification of Surface Tensiometer

1) Force Tensiometer for automatic measurements- Qty - 01

Type	Provision to measure surface tension as well as interfacial tension	Points
Measuring method & range	Pt-Ir Ring method & Wilhelmy Plate method Measuring range: 1-900 mN/m	15
Resolution	0.01 mN/m for Ring method 0.1Mn/m for plate method	
Liquid Density Range & Resolution	1 to 1500 kg/m ³ 1 Kg/m ³	5
Balance load capacity & features	50g, the internal balance of the Tensiometer must be from a reputed manufacturer with 3-years warranty and Balance resolution: 100 µg	10
Control & Display	In-built controller through soft keys by touch/push operation to program the measurement & store a minimum of 500 sample measurement data should be displayed on LCD	15
Measuring chamber	The sample should be visible externally with the provision of a windshield	5
Sample platform movement:	Electrically driven using servo motor with provision for manual measurements	5
Interfaces	Serial RS232/ USB	
Levelling of instrument	In-built level bubble with adjustable feet	
Platform movement	≥ 40 mm	10
Platform movement height/speed	2.5 to 15 mm/min.	5
Temperature control system	(-) 10 °C to (+) 100 °C	15
Working Temperature Range for measurement	0-90 °C sample temperature, with suitable thermostable jacket (SS) with integrated stirrer, temp sensor	
Accessories Required	Pt Plate in protective Box, Pt Ring in protective box Sample Vessel, fireproof, set of 6 pieces, outer diameter Ø <100 mm, Liquid density measuring set Thermostat table Jacket (SS) controlled by liquid thermostat, with integrated electro-magnetic stirrer	15

	External temperature sensor for measurement of sample temperature incl. devices for fixing to sample stage Refrigerated circulating bath working range: -10 to 100 °C Branded computer along with necessary software should be provided as per the instrument requirements 1 Year standard warranty on the instrument.	
	Total	100

Minimum qualification 85

2) Force Tensiometer for Manual measurements - Qty - 01

Measuring method	Du Nouy Ring method	30
Working	PT ring connected to a torsion wire to measure surface and interfacial tension	
Operating range	1 to 90 mN/m, direct scale reading 1 mN/m	30
Resolution	0.5 to 1 mN/m	10
Pt-ring Dimension	Ring Radius 8-10 mm Wire diameter 0.3-0.5 mm Wetted length Standard ring >100 mm	10
Sample stage Travel distance	≥ 80mm	10
Levelling of instrument	In-built level bubble with adjustable feet 1-year standard warranty on the instrument.	10
	Total	100

Minimum qualification 85

Note: One OEM should supply both the instruments, taking into account repair of instrument and support in future, failing which bid shall not be evaluated further and stands rejected.