



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान पुणे
INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH PUNE

PREBID CLARIFICATION ON TENDER NUMBER - IISER/PUR/0380/25

आइटम विवरण- Node Based Seismic Data Acquisition System की खरीद
Item Description- Procurement of Node Based Seismic Data Acquisition System

नोड आधारित भूकंपीय डेटा अधिग्रहण प्रणाली की खरीद के लिए संस्थान की वेबसाइट www.iiserpune.ac.in और सीपीपी पोर्टल पर 21/08/2025 को प्रकाशित खुली निविदा देखें।

Refer to an open tender published on the Institute website www.iiserpune.ac.in and on the CPP Portal on 21/08/2025 for procurement of Node Based Seismic Data Acquisition System.

प्री-बिड मीटिंग 28/08/2025 को शाम 3.00 बजे आयोजित की गई और बैठक का कार्यवृत्त निम्नानुसार है:

Pre-Bid meeting was held on 28/08/2025 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 (भंडार 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 CPP 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 CPP 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.

19/09/2025

Sd/-

वरिष्ठ सहायक कुलसचिव (भंडारण एवं क्रय)
Sr. Assistant Registrar (S&P)

TECHNICAL AND COMMERCIAL QUERIES AND CLARIFICATION**PRE-BID CONFERENCE FOR ITEM DESCRIPTION- PROCUREMENT OF NODE BASED SEISMIC DATA ACQUISITION SYSTEM**

S. No.	Query/Clarification Sought	Clarification / Amendment
1.	If the reseller is quoting, can you please clarify if the reseller can quote in USD? Also, can the reseller quote the price Ex-works USA?	The prices can be quoted as per the Chapter 5 i.e PRICE SCHEDULE.
2.	Is a concessional GST rate applicable for this tender? If yes, please share the rate of GST.	No.
3.	Can the Indian representative of a foreign Bidder pay EMD and Tender fees in INR on behalf of the foreign bidder?	Yes.
4.	Compliance to Land Boundary Sharing Act, currently 100% ownership of INOVA Geophysical Inc. is of BGP, which is subsidiary of CNPC, China. INOVA has applied for registration with DPIIT last year and we are in process of clarifying doubts. We would appreciate it if IISER could take waiver of compliance with DPIIT norm.	Tender term prevails.
5.	Please confirm in case of award of the contract, will the IISER take responsibility for freight?	Institute has authorized CHA for clearance and freight.
6.	In the price bid format, there is mention of quoting in INCOTERMS CIF which means quoting on sea freight basis. These are electronic equipment and dimensions and weights are good for Air Freight and will reduce the time considerably. We would appreciate it if the INCOTERMS is changed from CIF to CIP.	INCOTERMS CIF / CIP both are acceptable.
7.	Can you please elaborate on the Bill of Material to be supplied? As per the budget, I have attached herewith BoM for your kind reference.	The technical specifications have been modified to clarify this, by specifying the number of nodes/data acquisition units.

8.	In the tender documents, the EMD requirement is specified in Indian Rupees; however, the tender has been floated under a Global Tender Enquiry. Kindly confirm the equivalent amount in USD/Euro to be furnished and submitted as EMD, as M/s Sercel is likely to submit their proposal directly.	Bidder should submit the tender fee and EMD amount in INR only.
9.	Delivery Period / Timeliness: The deliveries & installation must be completed within 60 Days after placement of purchase order/after opening of LC. The time is the essence of the contract. It is mandatory for the BIDDERS who respond to this bid to meet these expectations, as are tightly linked to IISER, PUNE's plans of completing the project within the time frame. We request to consider the delivery within 60 days from the date of opening of LC.	Delivery within 60 days from the date of opening of LC.
10.	The BIDDER shall assure the supply of spare parts after warranty is over for maintenance of the equipment supplied if and when required for a period of 10 years from the date of supply of equipment on payment on approved price list basis. We request IISER to amend the provision requiring the supply of spare parts for a duration of 10 years after the warranty period. Many of the items are sourced from third-party suppliers, and hence it is not feasible for us to commit to ensuring the availability of spare parts for such an extended period beyond the warranty. However, as per the industry standards we request to keep it to 3 years.	Tender specification prevails.
11.	While going through the tender, the quantity is mentioned as Node Based Acquisition System Seismic 1 set. Kindly clarify if this refers to a complete system with all necessary accessories. And also clarify the number of channels required.	The technical specifications have been modified to clarify this, by specifying the number of nodes/data acquisition units.

12.	<p>Sensor compatibility (Internal Analog Sensor). Please note that the specifications mention Internal Analog Sensors. We would like to highlight that this technology is more than 25 years old compared to Digital Sensor Nodes. The analog-based nodes (geophones) are generally prone to aging, data jitters and static issues. This often results in unreliable outputs, operational inefficiencies, higher costs, and project delays. Also, the biggest advantage of using MEMS technology (digital sensors) is that there is no restriction on frequency to be captured as you can record any frequency from 0-400 Hz, thus eliminating the need of using a particular geophones. Sercel's Digital Sensor Nodes are far superior in terms of data reliability and quality. We have attached the data sheet for the same for comparison. In view of this, we kindly request IISER to consider incorporating Digital Sensor Nodes in the tender specification, which would ensure the project's objectives are achieved without compromising on data quality.</p>	<p>MEMS-based sensors correspond to accelerometers and we do not wish to procure accelerometers at this stage.</p>
13.	<p>i) Tender Estimated Price ii) EMD</p>	<p>i) Tender Estimated Price is amended from Rs. 35,00,000/- to <u>Rs. 43,00,000/-</u> ii) EMD amount is amended from Rs.70,000/- to <u>Rs. 86,000/-</u></p>
14.	<p>Chapter 4 - Schedule of Requirements, Specifications & Allied Technical Details</p>	<p>Chapter 4- Schedule of Requirements, Specifications & Allied Technical Details Is Revised and Appended as Annexure III.</p>

Chapter 4 - Schedule of Requirements, Specifications & Allied Technical Details

TECHNICAL SPECIFICATION FOR NODE BASED SEISMIC DATA ACQUISITION SYSTEM

The system should include all fundamental components, as well as any required ancillary hardware and software elements that are fully compatible with the offered ground electronics and data harvesting device for comprehensive multiline field operation.

A. DATA ACQUISITION UNITS (NODES) - 36 Nos.

Sr. No.	Parameter	Description	Marks assigned
1.	Channels capacity	1 Sensor per Data Acquisition Station Unit	4
2.	Sensor compatibility	Internal Analog Sensor	4
3.	Frequency response	5 Hz (or less) to 150Hz	4
4.	Sample Interval	4 milliseconds or less	4
5.	Digitization	24 bit or higher	4
6.	Preamp Gain Constant Remote	at least two out of 0/12/24/30/36 dB selectable with 12 dB as essential	4
7.	Equivalent Input Noise	0.70 μ VRMS (or less) at 12 dB preamp gain	4
8.	Recording mode	Continuous	4
9.	Operation mode	Autonomous	4
10.	Clock Synchronization	GPS	4
11.	Timing Accuracy	$\leq 10 \mu$ s	4
12.	Anti-Alias Filter	Minimum Phase Response: - Minimum 375 Hz at 1 milli sec sample rate - Minimum 187.5 Hz at 2 milli sec sample rate - Minimum 94 Hz at 4 milli sec sample rate - Rejection above Nyquist frequency: 130 dB	4
13.	Dynamic Range	Not less than 120 dB at 0 dB preamp gain	4
14.	Harmonic Distortion	< -100 dB	4
15.	Common mode rejection	90 dB or greater (or 0.001%)	4
16.	Gain Accuracy	1% or less	4
17.	Power Supply	Internal battery	4
18.	Battery durability	minimum 30 days of continuous recording on a single charge	9
19.	Operating Temperature Range	-40°C to +70°C	4
20.	Humidity Range	0 to 90%	3

21.	Time Stamping	GPS disciplined clock synchronization	4
22.	Internal Memory (CRU) per station unit	16 GB or higher	4
23.	Indicator	LED Status Indicator	4
24.	IP rating	IP 68 or higher	4
TOTAL MARKS			100
QUALIFICATION MARK			92

INTERNAL GEOPHONE SPECIFICATIONS

Sr. No.	Parameter	Description	Marks assigned
1.	Geophone Type	Low Distortion ($\leq 0.2\%$)	5
2.	Geophones	Internal Single Sensor	5
3.	Natural frequency	5 Hz, Tolerance + 7.5%	10
4.	Tilt	00 to 100	5
5.	Coil Resistance	$1850\ \Omega \pm 5\%$	5
6.	Open Circuit Damping	$0.60 \pm 7.5\%$	5
7.	Sensitivity	$80\text{ V/m/s} \pm 5.0\%$	5
8.	Polarity	Standard SEG	5
9.	Operating Temperature	-40°C to $+80^{\circ}\text{C}$	5
TOTAL MARKS			50
QUALIFICATION MARK			45

TRANSCRIBING EQUIPMENT :

Channel capacity - Software License for transcribing maximum 300 channels at 2ms Sample Interval (SI).

Sample rate - 1, 2 and 4 milliseconds.

Recording Format - SEG D and/or SEG Y.

Ground Station Unit (node) self-diagnostic test: The following system tests including data quality control shall be available at ground station (node) level during complete layout of the spread through supplied standard QC tool at ground station level:

- Battery voltage status
- Noise and distortion
- Hardware diagnostic tests etc.
- GPS status.