

**Notice Inviting Open Tender for:
Supply, Installation, Commissioning & Training of a Wavelength Dispersive X-ray
Florescence Spectrometer (WD-XRF) facility at the Indian Institute of Science,
Bangalore**

(Tender from Domestic Vendor and Suppliers)

Bids are invited from domestic OEM / authorized distributor of domestic OEM

(Last date of Submission May 18, 2023)

Date: May 04, 2023

Dear Sir/Madam:

Please send your tender documents valid for 180 days from the actual date of opening the technical bid, for the supply of equipment described below. Your documents/quotation should clearly indicate the terms and conditions of the quotations, delivery schedule, entry tax, payment terms, warranty coverage etc. The tender should be submitted in two separate sealed envelopes – one containing the “Technical bid” and other containing the “Commercial bid”, both of which should be duly signed and must reach the undersigned on or before 17:00 hours May 18, 2023. Please provide your contact details so that we can get in touch with you and set-up appointments for opening the bids.

The primary interest of the Centre is the procurement of **Wavelength Dispersive X-ray Florescence Spectrometer facility**. Any vendor(s) who are not manufacturers of **Wavelength Dispersive X-ray Florescence Spectrometer** should NOT quote for optional items independently. However, such vendor(s) are allowed to quote the optional components along with a compatible a **Wavelength Dispersive X-ray Florescence Spectrometer** quotation. The pricing for the instrument(s) must be a stand-alone purchase and as a bundle-purchase should be clearly indicated in the financial bid.

Mailing Address:

The Chair,
Purchase Committee,
Centre for Earth Sciences,
Indian Institute of Science,
Bangalore 560012,
Karnataka, India.

Email Addresses:

office.ceas@iisc.ac.in

Cc: sajeev@iisc.ac.in

Section 2 - Eligibility Criteria:

With respect to this tender, the rules laid out by the Government of India in order No. P-45021/2/2017-PP (BE-II) issued by the Public Procurement Section, Department of Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, dated 16th

September 2020, will be followed. Per this order, only Class-I and Class-II local suppliers as defined below are eligible to participate in this open domestic tender. Non-local suppliers are ineligible to participate in this tender.

Relevant definitions as per Government of India order:

- Class-I local supplier - a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50%
- Class-II local supplier - a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%.
- Non-local supplier - a supplier or service provider, whose goods, services or works offered for procurement, has local content less than 20%.
- Local content – the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all custom duties) as a proportion of the total value, in percent.

Only Local Suppliers are eligible to participate in the bid. The bidders must go through the Government of India order stated above and follow all the rules and regulations therein. The covering letter Should clearly indicate whether the vendor is a Class I or class II local supplier failing which the vendor will automatically be disqualified.

SECTION 3 – Technical Specifications:

Features	Specification
X-ray	X-ray generator 4kW or above, max. 60kV-150mA Built-in water cooled heat exchanger Primary beam filter changer with Al25, Al125, Ni40 and Ni400 X-ray tube Rh, Be window
Sample changer	40-50 sample capability
Diaphragm changer	6 positions or more (e.g., 35, 30, 20, 10, 1, 0.5 mm in diameter)
Crystal changer positions	8 or more with the standard crystal set
Crystals	5 or more high sensitivity crystals, including curved crystals are required. (High sensitive versions of LiF, PET, Ge to cover all major elements must be included)
Analytical capability	All major elements. Crystals details must be decided before quotation submission. High resolution and high intensity mapping Spot analysis capability
Sample type	Solid , Loose Powder, Pressed Pallet, Fused Bead
Detectors	Scintillation counter Proportional counter (Gas flow)
User Interface	Computer controlled user friendly interface for the smooth routine operation
Display computer and operation software	A computer system with 24 inch or more display with latest Windows OS and all the necessary supporting software to run the XRF and all the other accessories. The software

	should have function like auto-focusing, drift correction, dynamic focus, auto- contrast/brightness etc.
Vacuum system	Must be integrated with the original system
Cooling system	Must be integrated with the original system
Software package	<p>Qualitative and quantitative package for major and trace elements analysis using inbuilt standards suitable for geological, biological/pharmaceutical and metal/material samples.</p> <p>Software supporting user interactive scandalization and data calibration especially for geological (major and trace elements), biological/pharmaceutical and metal/material samples.</p> <p>Fast mapping capability with data processing</p> <p>Export of results to Tiff, Jpeg, MS® Word, Excel and pdf.</p>
Spare parts and consumables	One set of spare parts and consumables for the XRF and all accessories must be included along with the delivered equipment
Accessories	<p>The offer should include all the required accessories/ spares/ consumables for seamless performance of the system and its peripherals ideally not from a third-party vendor or approved by the original manufacturer. A list of spares and consumables should be provided.</p> <p>Examples:</p> <ul style="list-style-type: none"> • Vibration and noise free chiller • Pumps
Documentation	Vendor should specify the model number of the XRF and accessories including optional items submit the brochure that supports all the quoted specifications
Warranty	Warranty (from the date of full installation and acceptance) for 5 years along with free software upgrades for the entire system including all the attachments
Operation & maintenance manuals	Hardcopy and Soft copy of the operation & maintenance manuals for the WD-XRF and all accessories and supporting peripheral equipment should be provided
Availability of spare parts and consumables	The vendor must guarantee that all the spare parts and consumable for the offered XRF and attachments will be available for at least next 10 years
Installation & training	<p>Unpacking to the complete installation of the supplied INSTRUMENT system should be carried out by the factory engineers. All the expenses including travel, accommodation etc. (if any) towards this should be included in the quote. It is the responsibility of the vendor to ensure that all of the required accessories and ancillary items are included in the quotation for carrying out the installation, standardization, optimization and calibration of the instrument. The supplied system should be complete in itself in all respect to take up the sample analysis at the IISc premises.</p> <p>It is the responsibly of the factory engineers to demonstrate all</p>

	specifications quoted to the users before acceptance; this may not be considered as part of training. Training for 10 persons in the operation of the WD-XRF for 7 days. The cost of an on-site training session (if any) should be part of the quotation.
Pre-installation requirement (civil& electrical EMI and gas, etc.)	Should be mentioned along with offer. Free survey of Pre-installation requirement on site and the results must be provide in advance for the necessary modifications (if required) for achieving best results
Specification	The technical specs listed above should be demonstrated on samples sent by us preferably in an installation within the country. The technical committee reserves the right to qualify/disqualify vendors based on data quality.
Optional	
Calibration standard samples	Standard samples to be provided or recommended
Sample	Liquid sample analytical setup with accessories.
Accessories	<ol style="list-style-type: none"> 1. UPS for 1 hour of back up. 2. Semi-automatic Pressed Pallet maker, 3. Fully automatic Fused Bead maker with 1 or more position and complete accessories

NOTE / Pre-Qualification criteria:

- A) Equipment offered must be a model from the current serial production range of the manufacturer. Customized or One-off Manufactured Model will not be accepted. Offer should be supported with printed catalogue / depiction on company website.
- B) The local vendor of OEM must have supplied at least 10 XRFs to IITs, IISERs and other Govt. of India organizations. Please attach a reference list of supplies in last 2 year with contact details (Name, Phone, email address) of users.
- C) The company should be original equipment manufacturers (OEMs) of the XRF. Please attach exclusive authorization certificate(s) specific for this tender with quote without which bid will be rejected.
- D) The manufacturer must be an ISO9001 company & equipment model must be with CE compliance. Please attach relevant certificates.

ADDITIONAL REQUIREMENTS:

1. List of other installations in India with contact details of scientist / individual in-charge.
2. The technical specifications listed above are a minimum indicative. The ease of operation and maintenance, the ability to integrate latest technology, and after sales service facilities are some of the key factors in the evaluation process.
3. **The details, credentials, and experience of individuals who are factory trained service engineers of the quoted model of XRF and is currently on roll in India or**

- at the nearest service hub should be submitted with the offered quotation.**
4. Quotation should include all cost including logistics required to complete the installation at IISc.
 5. The Vendor should certify and confirm availability of spares, service support and, both hardware and software upgradation for at least 10 years from the year of installation.
 6. Any equipment of component procured locally and supplied with the instrument should be quoted in Indian Rupees.
 7. List of select user laboratories of an instrument of similar configuration and scientific application must be provided with the contact details (e-mail) of the person-in-charge of the instrument, model and date of installation.
 8. IISc may opt for demonstration of any technical specifications and performance of the quoted model on the samples provided by us, at any available user site in India or at the factory / preferred demonstration site for the company, as a part of technical evaluation.

Section 4–Terms and Conditions:

1. The tender document should be in English and be submitted in **two bid system, i.e., Technical bid, and Commercial bid in two sealed envelopes with commercial or technical bid clearly indicated on the envelope.** These two sealed envelopes should be placed within a larger sealed envelope.
2. The technical bid must include all details of technical specifications of the instrument along with commercial terms and conditions masking only the price component. Bill of materials, brochures, technical datasheets, and any other document may be enclosed to help the evaluation of the technical bid. Please also include warranty terms and any other information on upgradation terms/extra accessories in the technical bid.
3. The technical bid must clearly state the specifications of the main instrument (A) along with the accompanying standard items and all other details including the warranty terms (B-I) as specified in section 3 of this document.
4. The commercial bid must include the base price of the instrument, optional additions plus all components including accessories, and taxes.
5. The commercial bid must indicate detailed component-wise and itemized price breakup and must include optional items/accessories.
6. Bidder should have well established own establishment. Enclose Company Registration Certificate, PAN, 3 years of audited balance sheets and turnover.
7. **The covering letter in the technical bid should clearly mention whether the vendor is a Class I or Class II local supplier, failing which the vendor will be automatically disqualified.**
8. In the technical bid include the complete details all components of the main instrument and the accessories as to whether they are sourced locally or foreign made/imported along with the manufacturer and sourcing details.
9. The ‘Class-I local supplier/Class-II local supplier’ is required to indicate the percentage of local-content and provide self-certification that the item offered meets the local content requirement for ‘Class-I local supplier/Class-II local supplier’ as the case may be. They shall also give details of the location(s) at which the local value addition is made.

10. The vendor should provide detailed cost breakup for the Indian and foreign content of the bid in the commercial bid proving their status as a Class I or Class II local supplier. Vendors who do not provide such justification in the commercial bid will be automatically disqualified.
11. In case if there are any imported/foreign made components, the commercial bid must indicate procurement price from the manufacturer and any import duties incurred. IISc will not be responsible for any import duties.
12. The vendor should have a good track record of having previously supplied similar equipment in India or elsewhere in the world (Please furnish complete details including names and contact addresses). Reference letters may be sought by the committee to arrive at the decision.
13. The vendor should have qualified technical service personnel for the instrument based in Bengaluru.
14. Bidder should have executed at least three order of similar instrument in India in the last 2 years. (Please provide copy of purchase orders and details).
15. The bidder should provide a list of national and international publication resulting from the data of the instrument.
16. The Bidder should not be currently blacklisted by any institution, bank in India or abroad (Please provide self-declaration).
17. No advance payment will be made, the payment will be made after delivery and installation of equipment.
18. Agency commission (not encouraged) if any should be clearly mentioned and detailed in the commercial bid.
19. The lead time for the delivery of the equipment should be less than two months from the date of receipt of purchase order and must be mentioned in the technical bid.
20. If the equipment or any parts/accessories are found to be defective, they must be replaced or rectified at the cost of the supplier within 30 days from the date of receipt of written communication from us. If there is any delay in replacement or rectification, the warranty period needs to be extended by a year and/or face a penalty equal to the valuation of the equipment.
21. The technical bid will be opened first and evaluated.
22. Bidders meeting the required criteria as stated in Sections 2 and 3, of this document as well as the terms and conditions shall only be considered for Commercial Bid opening. Further, agencies not furnishing the documentary evidence as required will not be considered.
23. Following the opening of technical bid, a presentation may be sought from the bidder.
24. During the warranty period, the bidder shall be fully responsible for the manufacturer's warranty in respect of proper design, quality, and workmanship of all the systems supplied. If there is any delay in replacement or rectification, the warranty period needs to be extended by a year and/or face a penalty equal to the valuation of the equipment.
25. During the warranty period, the bidder shall attend to all the hardware problems on site and shall replace the defective parts at no extra cost to the purchaser.
26. The bids should be valid for at least 180 days from the last date of submission of the quotation.
27. The price should be quoted in INR only. The cost should be inclusive of delivery till the IISc campus. Price offer must be on FOR-IISc Bangalore basis.
28. The decision of the purchase committee will be final.

29. IISc, Bangalore reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time to award of construct without thereby incurring any liability of the affected bidder or bidders.
30. Tender documents that do not satisfy the “Terms and Conditions” listed herein will be disqualified.
31. Order will be placed on lowest bid from technically qualified vendor.
32. All the attached annexures should be signed and enclosed with the technical and commercial bids
33. The tender documents should be sent to the following address no later than 18/May/2023 5:00 PM IST.

The Chair,
Purchase Committee,
Centre for Earth Sciences,
Indian Institute of Science,
Bangalore 560012,
Karnataka, India.

Annexure-1:

Details of the Bidder

The bidder must provide the following mandatory information & attach supporting documents wherever mentioned:

Details of the Bidder

Sl. No	Items	Details
1.	Name of the Bidder	
2.	Nature of Bidder (Attach attested copy of Certificate of Incorporation/ Partnership Deed)	
3.	Registration No/ Trade License, (attach attested copy)	
4.	Registered Office Address	
5.	Address for communication	
6.	Contact person- Name and Designation	
7.	Telephone No	
8.	Email ID	
9.	Website	
10.	PAN No. (attach copy)	
11.	GST No. (attach copy)	

Signature of the Bidder

Name
Designation, Seal

Date:

Annexure-2:
Declaration regarding experience

To,
The Chair,
Purchase Committee,
Centre for Earth Sciences,
Indian Institute of Science,
Bangalore 560012,
Karnataka, India.

Ref: Tender No: XXXXXXXXXX
Dated: XXXXX

Supply, Installation, Commissioning & Training of a **Wavelength Dispersive X-ray
Florescence Spectrometer facility** at the Indian Institute of Science, Bangalore

Sir,

I've carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company / firm has ---- years of experience in supplying and installing the equipment mentioned in the Tender.

(Signature of the Bidder)
Printed Name
Designation, Seal Date:

Annexure-3:

Declaration regarding track record

To,
The Chair,
Purchase Committee,
Centre for Earth Sciences,
Indian Institute of Science,
Bangalore 560012,
Karnataka, India.

Ref: Tender No: XXXXXXXX
Dated: XXXXX

Supply, Installation, Commissioning & Training of a **Wavelength Dispersive X-ray
Fluorescence Spectrometer facility** at the Indian Institute of Science, Bangalore

Sir,
I've carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company/ firm is not currently debarred /blacklisted by any Government / Semi Government organizations / institutions in India or abroad. I further certify that I'm competent officer in my company / firm to make this declaration.

Or

I declare the following

Sl.No	Country in which the company is Debarred /blacklisted / case is Pending	Blacklisted / debarred by Government / Semi Government/Organizations /Institutions	Reason	Since when and for how long
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(NOTE: In case the company / firm was blacklisted previously, please provide the details regarding period for which the company / firm was blacklisted and the reason/s for the same).

Yours faithfully
(Signature of the Bidder)

Name
Designation, Seal

Date:

Annexure – 4:

Declaration for acceptance of terms and conditions

To,
The Chair,
Purchase Committee,
Centre for Earth Sciences,
Indian Institute of Science,
Bangalore 560012,
Karnataka, India.

Ref: Tender No: XXXXXX

Dated: XXXX

Supply, Installation, Commissioning & Training of a **Wavelength Dispersive X-ray
Fluorescence Spectrometer facility** at the Indian Institute of Science, Bangalore

Sir,

I've carefully gone through the Terms & Conditions as mentioned in the above referred tender document. I declare that all the provisions of this tender document are acceptable to my company. I further certify that I'm an authorized signatory of my company and am, therefore, competent to make this declaration.

Yours faithfully,

(Signature of the Bidder)

Name

Designation, Seal

Date:

Annexure – 5:

Details of items quoted:

- a. Company Name
- b. Product Name
- c. Part / Catalogue number
- d. Product description / main features
- e. Detailed technical specifications
- f. Remarks

Instructions to bidders:

1. Bidder should provide technical specifications of the quoted product/s in detail.
2. Bidder should attach product brochures along with technical bid.
3. Bidders should clearly indicate compliance or non-compliance of the technical specifications provided in the tender document.

Section 6 – Commercial Bid

The commercial bid should be furnished with all requirements of the tender with supporting documents as mentioned under:

S.No	Description	Cat. Number	Quantity	Unit Price	Sub total
1.	Essential items noted in the technical specification				
1.a	... (details of essential items)				
1.b	...				
2.	Optional items noted in the technical specification				
2.a	... (details of essential items)				
2.b	...				
3.	Accessories for operation and installation				
4.	All Consumables, spares and software to be supplied locally				
5.	Warranty (3 years)				
6.	AMC 2 years beyond warranty				
7.	Cost of Insurance and Airfreight				

Any additional items

S.No	Description	Cat. Number	Quantity	Unit Price	Sub total