
	<p style="text-align: center;">पादप कार्यिकी संभाग DIVISION OF PLANT PHYSIOLOGY भा.कृ.अ.प.—भारतीय कृषि अनुसंधान संस्थान ICAR-Indian Agricultural Research Institute नई दिल्ली—110012 (भारत) NEW DELHI - 110 012 (INDIA)</p>	
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F. No. ICAR-IARI/Physiology/21-06/AIC/XRF/24-25/SFC

Dated: 13.01.2026

**Corrigendum**  
**(GEM/2026/B/7070759)**

GeM पर 07.01.2026 को X-ray Fluorescence (XRF) स्पेक्ट्रोमीटर खरीदने के लिए जारी किए गए निविदा (GEM/2026/B/7070759) का संदर्भ लें। अद्यतन विनिर्देश GeM पोर्टल पर अपलोड कर दिए गए हैं।

सभी इच्छुक बोली लगाने वालों से अनुरोध है कि विस्तृत जानकारी के लिए GeM पर शुद्धिपत्र देखें।

Reference is invited to the tender floated on GeM for the purchase of X-ray Fluorescence (XRF) Spectrometer on 07.01.2026 (GEM/2026/B/7070759). The updated specifications have been uploaded on the GeM portal.

All interested bidders are requested to refer to the corrigendum on GeM for detailed information.

क्र.सं. S.no.	वैज्ञानिक उपकरण का नाम Name of Scientific Equipment	मात्रा Quantity
01	X-ray Fluorescence (XRF) spectrometer	01

बोली से संबंधित विस्तृत नियम व शर्तों को भारतीय कृषि अनुसंधान संस्थान की वेबसाइट [www.iari.res.in](http://www.iari.res.in) पर देखा जा सकता है एवं ऑन-लाइन के लिए इसे [www.gem.gov.in](http://www.gem.gov.in) पर देखा जा सकता है।

Please visit [www.iari.res.in](http://www.iari.res.in) for details Terms & Conditions and log on [www.gem.gov.in](http://www.gem.gov.in) for online bidding.

AAO, Plant Physiology

## Annexure

### X-Ray fluorescence(XRF) spectrometer employing energy dispersive detectors(EDXRF)

#### Technical specifications




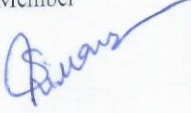

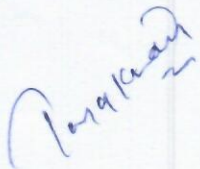
1. Mineral analysis principal Energy Dispersive X-rayfluorescence spectrometry(EDXRF)
2. Application suitability Food and agriculture for non-destructive elemental analysis of solids, liquids and powders etc.
3. Element measurement range Sodium(Na) to Uranium(U)
4. X-ray tube excitation with a resolution above125eV
5. High resolution silicon drift detector(SDD)
6. Measurement atmosphere Standard air and Helium atmosphere.
7. Atleast10 sample position automatic tray/turret/carousel.
8. Measurement limit from low ppm to high weight percentage concentration.

#### General Specifications

9. Suitable Helium gas cylinder, gas regulator and at least a 10 metres tubing should be supplied along with the instrument.
10. The Sample analysis chamber must have proper safety standard/locking system to prevent accidental opening and exposure of the operator with x-ray radiation.
11. Installed software Quantitative analysis with all capabilities; interference and drift correction along with original CD/pen drive.
12. Instrument should comply to Indian power supply: 220-240V50Hz.
13. The price should include all taxes and duties, delivery and installation.
14. Two-year comprehensive warranty from the date of installation.
15. Spares and consumables 500nos. of plastic sample cups and 10 rolls of Polypropylene films of 4 microns thickness and minimum 90m roll length.
16. Online UPS Branded 5KVA capacity with one-hour back-up.
17. Each bidder must provide detailed printed catalogues highlighting each of the required specifications in the same along with their technical bids failing which they are liable to be technically rejected.
18. The bidder must be competent to provide training (free-of-cost) after installation to handle the instrument and to troubleshoot during use with strong after-sales-service support. The price should include all taxes and duties, delivery and installation. Two copies of service/operation manual along with main equipment free of cost.
19. User interface/Embedded PC with LCD screen(or)standalone branded all-in-one PC with 12<sup>th</sup> Gen Intel i5 or better processor, 8 GB RAM, 500 GB SSD storage, windows 11 pro
20. Any energy calibration or optimization standards to be included with instrument. Instrument must be supplied with a Standard-less Calibration program.
21. Appropriate drift correct ion monitors for instrument should be supplied. Supplier should mention clearly in the offer.
22. The quoted model should be Type Approved by AERB [Atomic Energy Regulatory Board]. This should be submitted along with the bid. Supplier must assist IARI in obtaining Procurement Permission and user License from AERB.
23. A sturdy table with storage to be supplied by the firm for operation of the equipment
24. Calibration for Food Grain samples must be possible for the model of instrument quoted. The relevant valid references in this regard must be submitted while quoting the equipment.
25. There should be minimum 3 installations of the instrument in ICAR institutes in the last three Financial years including the current year. The list should be provided with user details and valid phone numbers.
26. The vendor should be able to demonstrate and test the samples in the quoted instrument during technical evaluation.

It is certified that the specification mentioned above for X-ray fluorescence (XRF) spectrometer employing energy dispersive detectors (EDXRF)is generic in nature and have been made by searching on the internet made by three principal manufacturers for similar equipments. The generic specification is expected to elicit adequate response if tender for the same is floated/quotation invited for the procurement of the same. The specifications are generic in nature.

Indenter	Divisional Technical Specification Committee	
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Dr. Lekshmy Sathee, Sr. Sci	Dr. Ruchi Bansal, Sr. Sci. & Chairman	Dr. Soham Ray, Sr. Sci. & Member	Dr. Shivani Nagar, Scientist (SS) & Member	Ms. Suchitra Pushkar, ACTO & Member	Ms. Tanya Khatter, AAO & Mem Sec.
					

**Bid Corrigendum**

GEM/2026/B/7070759-C1

Following terms and conditions supersede all existing "Buyer added Bid Specific Terms and conditions" given in the bid document or any previous corrigendum. Prospective bidders are advised to bid as per following Terms and Conditions:

**Buyer Added Bid Specific Additional Terms and Conditions**

1. **OPTION CLAUSE:** The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity up to 25% of the contracted quantity during the currency of the contract at the contracted rates. The delivery period of quantity shall commence from the last date of original delivery order and in cases where option clause is exercised during the extended delivery period the additional time shall commence from the last date of extended delivery period. The additional delivery time shall be  $(\text{Increased quantity} \div \text{Original quantity}) \times \text{Original delivery period (in days)}$ , subject to minimum of 30 days. If the original delivery period is less than 30 days, the additional time equals the original delivery period. The Purchaser may extend this calculated delivery duration up to the original delivery period while exercising the option clause. Bidders must comply with these terms.
2. Actual delivery (and Installation & Commissioning (if covered in scope of supply)) is to be done at following address  
Division of Plant Physiology  
Near NRL Building  
ICAR-IARI  
Pusa Campus  
New Delhi - 110012
3. Bidders can also submit the EMD with Account Payee Demand Draft in favour of  
Director ICAR- IARI  
payable at  
New Delhi  
Bidder has to upload scanned copy / proof of the DD along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date / Bid Opening date.
4. Successful Bidder can submit the Performance Security in the form of Account Payee Demand Draft also (besides PBG which is allowed as per GeM GTC). DD should be made in favour of  
Director ICAR-IARI  
payable at  
New Delhi  
. After award of contract, Successful Bidder can upload scanned copy of the DD in place of PBG and has to ensure delivery of hard copy to the original DD to the Buyer within 15 days of award of contract.
5. **Bidder Turn Over Criteria:** The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
6. **OEM Turn Over Criteria:** The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for

the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria. In case of bunch bids, the OEM of CATEGORY RELATED TO primary product having highest bid value should meet this criterion.

7. **Proof for Past Experience and Project Experience clause:** For fulfilling the experience criteria any one of the following documents may be considered as valid proof for meeting the experience criteria: a. Contract copy along with Invoice(s) with self-certification by the bidder that service/supplies against the invoices have been executed. b. Execution certificate by client with contract value. c. Any other document in support of contract execution like Third Party Inspection release note, etc. **Proof for Past Experience and Project Experience clause:** For fulfilling the experience criteria any one of the following documents may be considered as valid proof for meeting the experience criteria: a. Contract copy along with Invoice(s) with self-certification by the bidder that service/supplies against the invoices have been executed. b. Execution certificate by client with contract value. c. Any other document in support of contract execution like Third Party Inspection release note, etc.
8. Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.
9. Buyer uploaded ATC document [Click here to view the file.](#)

## Disclaimer

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for attached categories, trials are allowed as per approved procurement policy of the buyer nodal Ministries)
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.
15. Buyer added ATC Clauses which are in contravention of clauses defined by buyer in system generated bid template as indicated above in the Bid Details section, EMD Detail, ePBG Detail and MII and MSE Purchase Preference sections of the bid, unless otherwise allowed by GeM GTC.
16. In a category based bid, adding additional items, through buyer added additional scope of work/ additional terms and conditions/or any other document. If buyer needs more items along with the main item, the same must be added through bunching category based items or by bunching custom catalogs or bunching a BoQ with the main category based item, the same must not be done through ATC or Scope of Work.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

\*This document shall overwrite all previous versions of Bid Specific Additional Terms and Conditions.

This Bid is also governed by the General Terms and Conditions.