UGC-DAE Consortium for Scientific Research
(An Autonomous Institution under University Grants Commission)
University Campus, Khandwa Road, Indore- 452001 (India)
Phone : +91 0731 2361546, 2463913, 2762267 Fax : +91 0731 2361546, Website: www.csr.res.in E-mail:iucstores@csr.res.in

Item No-1: Portable Open Flow Cryostat System for Temperature Dependent XRD
Global Tender Enquiry (GTE) No. 01/2026-27 dt 26-11-2026 due on 24-12-2026 at 16:00 hrs.

TWO PARTS TENDER ITEM

Short title: Thin film High resolution X-ray diffractometer (HRXRD)

Detailed specifications	
The offers are invited from the reputed firms for the procurement of high-resolution X-ray Diffractometer (HRXRD). The HRXRD system will be required to perform the measurements such as high-resolution x-ray diffraction, x-ray reflectometry, rocking curve, grazing incidence x-ray diffraction (in-plane and out-of-plane), phi-scans, reciprocal space mapping, texture, stress, micro-diffraction, grazing incidence small angle x-ray diffraction etc., for the characterization of thin film samples. The thin film samples include multilayers, epitaxial thin films, polycrystalline thin films etc. The vendors might choose to quote the configuration to suit above applications, with robust and minimum alignment to changeover between different configurations. The necessary accessories for the above measurements should be mentioned explicitly.	
1	*Goniometer:* a) Highly accurate, high precision two-circle goniometer with independent stepper motors and optical encoders. b) Geometry: Vertical or horizontal c) Min step size: 0.0001 or better d) Operation mode: θ-θ e) Diameter: High precision with θ- θ configurations with a radius of ≥225 mm. The variable goniometer radius without major alignment procedure will be preferred for better resolution and robust operation f) Angle positioning: Stepper/DC motors with optical encoders for optimum scanning speed and positioning precision. The different modes of scanning, range of scanning, scanning speed and the scanning step (increment) should be software controlled. g) 2θ measurement range: 0^0 or lower to 160^0 or higher h) Maximum angular speed: 20 deg /s or better i) Guarantee of data quality: Vendors must submit data quality guarantee certificate from the factory of manufacturer on the angular position to be carried out on Silicon samples [NIST standard] for angular accuracy.
2	*X-Ray source & incident beam optics:* a) High-brilliance sealed tube x-ray micro-focus source with suitable mirrors as beam conditioners. The micro-focus source and mirrors should form an integrated unit. The mirrors should convert the divergent radiation emitted by the micro-focus x-ray source into a highly brilliant, parallel beam suppressing white and K-beta radiation. b) The beam divergence should be small (1 mrad or better) in both horizontal and vertical directions, which is suitable for doing in-plane and out-of-plane measurements. c) Flux of $2x10^8$ cps or better d) Air cooled and it should be possible to use the system continuously. e) Power: 50 W or more f) Cu anode g) Beryllium window h) Beam size at the sample of 50 microns or less

	i) 2-bounce monochromator consisting germanium (022) crystals aligned for the Cu x-ray source suitable for doing HRXRD measurements. The output beam of 2-bounce monochromator should be free from Cu-$K_{\beta,}$ Cu-$K\alpha_2$ radiation and should have a divergence of about 30 arc-sec or better with 2-bounce crystal. j) It should be possible to use the 2-bounce crystal as and when required i.e., the addition and removal of 2-bounce crystal should be user friendly. Please mention the procedure clearly how this is done. It is preferred to have auto alignment through software. k) Motorized rotary absorber for beam attenuation during the measurements. This assembly should be software controllable through the measurement software.
3	*Sample Stages & Sample Holder:* a) Sample stage: Eulerian Cradle with motorized Chi (χ) and Phi (ϕ) rotations. The cradle should have X, Y and Z translations. The cradle should allow to align the samples (height scan, rocking curve, in-plane rotation etc.,) for doing the above-mentioned measurements. Chi (χ) circle: -10 to 90 deg or better, Phi circle: 360 deg, X-translation: -40 to 40 mm, Y-translation: -40 to 40 mm, Z-translation: 3.5 mm or better. Should be possible to hold the samples of height 40 mm with suitable adopters. The minimum possible increment size of 10 microns or better for X,Y; 1 micron or better for Z translation, 10 mdeg or better for Chi and Phi rotations. b) Rotatable vacuum chuck with suitable pump for holding the samples of few mm to about 3-inch dia or better during the measurements. Knife edge collimator compatible with vacuum chuck suitable for doing x-ray reflectivity measurements. c) Sample holder: Zero background sample holder (2 nos.) e.g. Si/quartz single crystal or equivalent for performing XRD measurements on small amount sample. d) Temperature dependent (100 – 723 K or better) attachment compatible with above mentioned Eulerian cradle. Consisting of a hemispherical X-ray transparent beryllium dome to achieve a large field of view. Should be Compatible with a 2-D detector for doing the above-mentioned measurements. Cooling: with liquid nitrogen going through the sample holder and heating with a strip heater in direct contact with the sample holder, suitable calibrated thermocouple attached to the sample holder. Operation in vacuum (10^{-5} mbar or better) to avoid to the oxidation of metallic thin film samples during heating. Provision to hold / clamp the thin film on suitable holder. Temperature control should be fully integrated in the measurement software. Suitable sample holder. Necessary water cooling, if required to avoid the heating to the Eulerian cradle. Please quote all the necessary accessories like vacuum pumps, sample holders, water cooling etc., for the operation of high temperature stage.
4.	*Detector* Latest generation 2-dimensiotnal hybrid photon counting fast detector with large active area (about 77 x 38 mm^2 or better), single chip, should be able to handle high count rates (3 x 10^8 photons/s/mm^2 or better) should be able to cover high dynamic range (more than about 10^9 photons/s/mm^2), number of pixels (1k x 500 or better) with pixel size of 75 x 75 μm^2 or better,

	media free operation (no gas, no water cooling). Should be compatible with the quoted micro-focus source for the above-mentioned measurements. Switchover from 2D to 1D and 0D should be possible. 0D (point detector) mode for sample alignment (height adjustment, rocking curve, phi scan etc.,) should be possible through software. Physical movement of the detector should be avoided for this switchover. Mention specifically how this can be done. It should be possible to do Reciprocal Space Mapping (RSM) measurements of epitaxial thin films with such 2D detector very easily and much more quickly. Please provide the details of such measurements with all the details. Mode: Detector must be able to operate in fixed as well scanning mode Slits: Should be provided to cut the background at low angles, also it should be possible to cut fluorescence from sample by suitable adjustment in detector settings. Automation: The data for the detector should be acquired by the company provided software which controls all the other components of the XRD system.
5.	*Software:* PC based software packages to control all instrument parameters and should provide best algorithms for solving analytical tasks, should enable both qualitative and semi-quantitative analysis. Peak search, integrated intensity, $K_{\alpha 1}$ and $k_{\alpha 2}$ separation. a) Search match: Search match software to be offered b) ICDD Data base: PDF-5 with 3 years license c) ICSD database: To be provided d) Suitable software to handle and analyze the reciprocal space mapping data. The conversion from angular units to reciprocal units should be possible. The lattice parameters extraction, line of relaxation, quantitative analysis of epitaxial strains etc., should be possible with suitable software. e) Suitable software to handle and convert the 2D detector into ASCII format for other analysis purpose. f) Pole Figure measure and ODF analysis: Data collection and data evaluation software for texture analysis including orientation distribution function (ODF) to be offered in the basic system. g) Should be possible for running the measurements in a loop fashion for recording the reciprocal space mapping measurements. User friendly software for making the input files required for such loops with in-built data of standard substrates etc. h) Computer & Printer: Suitable computer which can handle large data of RSM etc., with color LaserJet printer must be offered.
6	*Safety:* The XRD system must be fully radiation protected as per the international radiation safety norms.
7	*Calibration:* All standard samples required for system periodic calibration & standardization.
8	*Installation & training at customer site:* Personal training of the system at UGC-DAE CSR, Indore should be carried out by your trained person for one week. The system should be successfully tested for all features before pre-dispatch of the system and the same samples should be re-tested and verified after installation of the instrument at UGC-DAE CSR, Indore.

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9	*Manual:* Operational and maintenance manual written in English should be provided in hard and soft copies.
10	*Warranty:* One year after full installation & proper working at UGC-DAE CSR, Indore. Extended warranty/AMC for another 03 years should be quoted.
11	The list of customers must be provided and the details of a recent installation of the similar system should be supplied along with all relevant details for the benchmarking purpose.
12	The system should be compatible to standard Indian input power and to normal laboratory conditions.
13	Necessary spares and consumable should be provided. The offered spare parts should be provided / available for at least next 10 years after installation of the system.
14	Acceptance conditions: a) Confirmation of quoted x-ray flux and other parameters. b) Assurance of safety interlock performance c) Demonstration of data quality with the standard samples supplied by the vendor especially the monochromator performance. d) Demonstration of XRR, GIXRD (in-plane and out-of-plane), phi-scans, RSM etc., measurements, data conversion from angular to reciprocal lattice units for RSM measurements. e) Demonstration of standard thin film sample data with temperature variation.
15	Bidder criteria: a) The bidder must be a globally recognized manufacturer of diffractometer equipment with a minimum of 10 years of experience in the field. b) Detailed list of at least ten (10) such installed diffractometers, globally including India, with contacts details of indenter etc.
14	Optional: 1. 1-dimenstional (1D) detector : Si strip detector, 75 µm spatial resolution or better, 192 individual readout channels, active area of 14.4 mm x 16mm or better, maximum 2θ simultaneously covered 3.7o or better, maximum global count rate of $1x10^8$ or better, switchable to 0D through software suitable for sample alignment). It should be possible to all the above-mentioned measurements with this detector. 2. Scintillator detector with necessary accessories. It should be possible to all the above-mentioned measurements with this detector. 3. Computer controlled laser based high resolution video camera attachment for sample viewing and imaging to achieve simple and precise (< 5µm) contact-free positioning of the sample in the x-ray beam. 4. Quote Heating attachment (RT to 1000°C or better) compatible with the Eulerain cradle and suitable for doing the above-mentioned measurements. 5. Quote for the suitable sample holders for measuring the diffraction data of the samples (both pellets and thin film samples) under electric field.
The vendor must quote the total cost of the instrument indicating the price of each individual item. The cost of the optional/extra items should not be added to the total cost of the instrument and must be quoted separately along with the tender.	

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TWO PARTS TENDER ITEM

NOTICE INVITING GLOBAL TENDER No. 01/2026-27 dt 26-11-2026 due on 24-12-2026 at 16:00 hrs.

Director, UGC-DAE Consortium for Scientific Research, Indore invites separately sealed bids from eligible bidders for supply of the following:

Sl. No.	**Description of Item** **Two Parts Tender Item**
1.*	Thin Film High Resolution X-Ray Diffractometer
2.*	Portable Open Flow Cryostat System for Temperature Dependent XRD
a.	The details of the tenders are available on our website www.csr.res.in. The cost of Tender Document is Rs. 500/- for each item shall be payable by Demand Draft in favour of "UGC-DAE CSR" payable at Indore in separate envelope along with the tender. The tenderer must submit the tender cost along with the tender. The tenders, if received without tender cost, will not be considered.
b.	The Tender Document can be downloaded from our website **www.csr.res.in**.
c.	Overseas suppliers can participate in the tender directly, provided they do not have Branch Office in India.
d.	The item can be shifted to any laboratory of the consortium in the country.
e.	Amendments if any, will only be published on our website: www.csr.res.in
	Administrative Officer-I (Purchase & Stores Section)

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यूजीसी-डीएई वैज्ञानिक अनुसंधान संकुल
(विश्वविद्यालय अनुदान आयोग के अधीन एक स्वायत्त संस्थान)
विश्वविद्यालय परिसर, खंडवा रोड, इंदौर-452001 (भारत)
फ़ोन: +91 0731 2361546, 2463913, 2762277 फ़ैक्स: +91 0731 2361546,
वेबसाइट: www.csr.res.in
ईमेल: iucstores@csr.res.in

जी.टी.ई. संख्या 01/2026-27 दिनांक 26-11-2026, 24-12-2026 को 16:00 बजे तक।

निदेशक, यूजीसी-डीएई वैज्ञानिक अनुसंधान संकुल, इंदौर निम्नलिखित की आपूर्ति के लिए पात्र बोलीदाताओं से अलग-अलग मुहरबंद बोलियाँ आमंत्रित करते हैं:

क्रम संख्या.	**वस्तु का विवरण**
1.*	Thin Film High Resolution X-Ray Diffractometer
2.*	Portable Open Flow Cryostat System for Temperature Dependent XRD
क.	विस्तृत निविदा दस्तावेज़ हमारी वेबसाइट www.csr.res.in से डाउनलोड किया जा सकता है। निविदा दस्तावेज़ 26-11-2026 to 24-12-2026 तक उपलब्ध रहेगा। निविदा दस्तावेज की लागत: प्रत्येक वस्तु के लिए 500/- रुपये (वापसी योग्य नहीं), "यूजीसी-डीएई सीएसआर" के पक्ष में इंदौर में देय डिमांड ड्राफ्ट द्वारा देय।
ख.	विदेशी आपूर्तिकर्ता सीधे निविदा में भाग ले सकते हैं, बशर्ते उनका भारत में कोई शाखा कार्यालय न हो तो निविदा दस्तावेजों की लागत माफ की जा सकती है।
ग.	उपकरण को देश में संस्थान की किसी भी प्रयोगशाला में स्थानांतरित किया जा सकता है।
घ.	यदि कोई संशोधन होगा, तो उसे केवल हमारी वेबसाइट www.csr.res.in पर प्रकाशित किया जाएगा।
(*) Items must be quoted in two separate sealed parts (Part A-Technical and Part B-Financial).	
	प्रशासनिक अधिकारी-I (क्रय एवं भंडार अनुभाग)

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TWO PARTS TENDER ITEM

Terms and Conditions

1.	Tender in sealed cover duly superscribed "Tender No. …. dt…. due on …..for …….. item …….. "Complete with all details, otherwise tender may not be opened/considered. If you are interested to quote more than one items, you shall submit the quotations in sealed cover separately. (*) items as mentioned in the Tender No GLOBAL TENDER ENQUIRY No. 01/2026-27 dt 26-11-2026 due on 24-12-2026 at 16:00 hrs must be quoted in two parts (Part A-Technical and Part B-Financial). The two parts show separate sealed covers.
2.	Price should be quoted CIP Mumbai & Insurance up to Indore separately (As per INCOTERMS 2020). In case of local firms they should quote for delivery in premises of this office.
3.	Director, UGC-DAE CSR, Indore, reserves the rights of accepting in full or part /not accepting the tenders without assigning any reasons.
4.	The acceptance of tender, will rest with the Director, UGC-DAE CSR, Indore, who does not bind himself to accept the lowest tender and reserves to himself the authority to reject any or all of the tenders received without assignment of any reason.
5.	Delivery and Installation period must be mentioned. (if Installation required)
6.	Liquidated Damages: The penalty for late delivery will be imposed @ 2% per month or a part there of, subject to a maximum of 10% of the total value of the order.
7.	The tender shall remain open for acceptance for a period of 90 days from the date of receipt.
8.	The decision of the Director, UGC-DAE CSR, Indore, shall be final in all the cases.
9.	Director, UGC-DAE CSR, Indore, shall not be liable for postal delays. The incomplete tenders or the tenders received after due date will not be considered.
10.	Quote your offer along with literatures/catalogues, if any.
11.	We are exempted from the custom duty. The custom duty exemption certificate is issued by Department of Scientific & Industrial Research (DSIR), Govt. of India, New Delhi. Customs duty exemption is in terms of Government Notifications No. 51/96-Customs dated 23.07.1996; No. 24/2007-Customs dated 01.03.2007; No. 43/2017-Customs dated 30.06.2017; No. *42/2022- Customs dated 13.07.2022; No. 07/2024- Customs dated 29.01.2024; No. 38/2024 – Customs dated 23.07.2024.*
12.	**GST must be quoted separately, if applicable.**
13.	No claim for any tax or duty, not stipulated in the tender will be admitted at any stage.
14.	The tenderer should furnish the users list where similar equipment has been supplied recently.
15.	Special care should be taken to write the rates in figures as well as in words. No overwriting be done on the rates and units.
16.	**Arbitration: "in connection with the present contract shall be finally settled under the Rules of conciliation and arbitration of the International Chamber of Commerce" should be replaced by "between both parties in connection with the CONTRACT which cannot be settled amicably shall be exclusively & finally settled by Arbitration under the rules of conciliation and arbitration of the "International Chamber of Commerce, Mumbai" by one or more Arbitrators appointed in accordance with the said Rules.Jurisdiction: Indore only.**
17.	No deviation from the stipulated terms and conditions will be allowed. Tenders should be unconditional.
18.	The warranty of the equipment should be for 12 months from the date of commissioning / installation.
19.	It will be obligatory on the part of the tenderer to sign on your offer.
20.	Subject to Indore Jurisdiction.
21.	***The bidder should fully comply with the OM no. F. No. 6/18/2019-PPD dated 23-07-2020 inserting rule 144 (xi) in GFR 2017 by the Ministry of Finance, Department of Expenditure, Public Procurement Division. (fill Annexure-I)***
22.	N**o advance payment will be made**.
23.	Payment by irrevocable letter of credit or wire transfer: 90% payment against delivery / shipping documents and 10% after successful installation, commissioning of the equipment and receipt of the performance Bank Guarantee (10% of contract Value) for warranty period.

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24.	***The last date for submission of the tender documents is 24-12-2026 up to 14:00 hrs. Tender will be opened on 24-12-2026 at 16.30 hrs. Tenderer (s) / authorized representative(s) may attend on the opening of the tender bids.***
25.	***All the further corrigendum are display only on our website www,csr.res,in.***
*26.	**Benefits to MSME:** **As prescribed by MSME policy of the Government of India shall be provided to MSME vendors registered as manufacturer for the goods procured or for the service providers for services to this Department. The procuring Entity reserves its option to give price preference to Micro and small industries in comparison to the large-scale industries as per policies of the Government from time to time.**
27.	**Make in India:** ***(fill Annexure-II)*** As defined under the Public Procurement (Preference to Make in India), order 2017, Revised order dated: 16/09/2020 or as being revised from time to time, in procurement of goods or services in respect of which the Nodal Ministry/Department has communicated, that there is sufficient local capacity and local competition, only "Class-I local supplier', as defined under the said order, shall be eligible to bid irrespective of purchase value. Only "Class-I local supplier" and "Class-II local supplier', as defined under the above said order, shall be eligible to bid in procurements under taken by this Directorate, except where the mode of procurement is by issue of Global Tender Enquiry. The bidding supplier sh all indicate the percentage of local content for the item being offered in their bid. Where the procurement is by issue of Global Tender enquiry, Non local suppliers, shall also be eligible to bid along with "Class-I local suppliers and Class-II local suppliers". Suppliers/bidders offering imported products will fall under the category of Non-local suppliers. Subject to the provisions of the above said order, and to any specific instructions issued by the Nodal Ministry or in pursuance of the said order, purchase preference shall be given to "Class-I local Suppliers" in procurements under taken by this Directorate, in the manner specified there in the order. The bidders along with their bid/tender shall be required to provide a self-declaration certificate of the local content (where the procurement value is Rs.10 crore or less) for the item offered and their status as Class-I/Class-II/Non-Local supplier and their eligibility to participate in the tender as per Annexure-XI failing which bid will be rejected. In cases of procurement for a value in excess of Rs.10 crores, the "Class-I local supplier/Class-II local supplier' shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of Contractors other than companies) giving the percentage of local content. Self-declaration certificate should quantify the percentage of local content of the offered product only. It should also indicate the location. However, claiming the services such as transportation, insurance, installation & commissioning, training and after sale service support like AMC/CMC etc., shall not be considered as local content as per OM N.P-45021/102/2019-BE-II-Part(1)(E-50310) dated:4/03/2021 issued by Ministry of Commerce and Industry, DPIIT. False declarations/violation of this order terms shall be deemed to be breach of code of integrity resulting in debarment of the firm for a period up to 2 years. Under such circumstances, the supplier shall not be considered for any preferences as proposed in the order. Wherever the bids are received without accompanying the above said requisite certificate such offers shall be treated as incomplete and not considered. Bidders/contractor are divided into three categories based on Local Content (The total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent): Class-I local supplier is with local content equal to or more than as prescribed by the Nodal Ministry/ NIT, if prescribed, for the item being procured or 50% whichever is higher. Class-II Local supplier is with local content more than as prescribed by the Nodal Ministry/NIT, if prescribed, for the item being procured or 20% whichever is higher, but less than that applicable for class-I local supplier. Non-local supplier is with local content less than that applicable to class-II local supplier, as stated above. ***Note: Where the estimated value of the procurement is less than Rs.50 Lakhs (or as being amended by the competent authority from time to time) is exempted from the provisions of the above Make in India policy as stated therein the order.***

TWO PARTS TENDER ITEM

BENEFICIAL OWNERSHIP DECLARATION

Name of the Entity / Seller / Service Provider: …….

1. I hereby declare that I have read and understood the Compliance of Restrictions under Rule 144 (xi) of GFR 2017 which places restrictions on procurement from a bidder of a country which shares a land border with India. I hereby declare that the above-named Entity / Seller / Service Provider is not required to have any registration with the competent authority as per provisions of Restrictions under Rule 144 (xi) of GFR 2017.

2. It is certified that the above-named Entity / Seller / Service Provider is not:

a. An entity incorporated, established, or registered in a country sharing land border with India; or

b. A subsidiary of an entity incorporated, established, or registered in a country sharing land border with India; or

c. An entity substantially controlled through entities incorporated, established, or registered in a country sharing land border with India; or

d. An entity whose beneficial owner* is situated in a country sharing land border with India; or

e. An Indian (or other) agent or reseller of such an entity; or

f. A natural person who is a citizen of a country sharing land border with India; or

g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above

3. I fully understand that any false declaration and non-compliance of the above would be a ground for immediate termination of any and all contracts and further legal action in accordance with the laws.

4. I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that the Entity / Seller / Service Provider is not from such a country and does not have any specified Transfer of Technology (TOT) from such a country or, if from such a country or if having specified ToT from such a country has been registered with the Competent Authority. I hereby certify that this Entity / Seller / Service Provider fulfils all requirements in this regard and is eligible to be considered for procurement.

Signature…….
(Name :……)
Signed in the capacity as ……

*The beneficial owner for the above purpose of will be as under:

(i) In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a

controlling ownership interest or who exercises control through other means. Explanation— a. "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent. of shares or capital or profits of the company; b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;

(ii) In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;

(iii) In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;

(iv) Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official; (v) In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

Signature…….

(Name :……)

Signed in the capacity as ……