

UGC-DAE Consortium for Scientific Research
(Formerly Inter University Consortium for DAE Facilities)
 (An Autonomous institution under University Grants Commission, MHRD, Government of India)
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NOTICE INVITING TENDER

UGC-DAE Consortium for Scientific Research, Mumbai Centre invites Bids in Two Part (Part A – Technical and Part B – Financial) in sealed cover, from eligible bidders for supply of the under mentioned:

Tender No.	Description of Item	Due date for Submission of Bid
04/2018-2019 dated 10 th January, 2019	Bench Top X-Ray Diffractometer	11 th February, 2019

Details of the tender document i.e. Technical Specification and Commercial terms & conditions is mentioned at Annexure-I and Annexure-II respectively.

Annexure-I

TECHNICAL SPECIFICATION OF BENCHTOP XRD SYSTEM

S.N.	Item Description	Specifications	Qty
01	Bench-Top Powder X-Ray Diffractometer	<p>A portable desktop powder X-ray diffractometer instrument with fully integrated PC, easy to operate and independent of external media such as cooling circuits etc. for the state-of-art quality control and research facility. The XRD machine should be an all-in-one type.</p> <p>Technical Specifications:</p> <ol style="list-style-type: none"> 1. Geometry: Theta / Theta. Sample should always remain horizontal. 2. Goniometer: Vertical. 3. Type of sample: Powder. 4. Goniometer Angular range: -2° to min 150° 2 Theta 5. The XRD must be able to scan a sample from a low 2Theta angle of at least 0.6 deg. 6. Angular accuracy throughout the whole angular range: ± 0.02° 2Theta. Alignment accuracy should be guaranteed by vendor. 7. Min. step size: 0.005° 2 Theta 8. Achievable peak width: <0.05° 9. Slit: Fixed Slit. 10. X-ray wavelengths: Cu, long fine focus ceramic seal tube 11. X-ray generation: 30kV/10mA; 300W or more 12. Alignment: Auto aligned /factory aligned 13. Sample Stage : Spinning sample stage along with standard sample holder. 14. Optics : necessary primary and secondary slits along with k-beta filter. 15. Sample holder: Suitable sample holder for powder 	01

		<p>samples minimum 10 nos. Silicon low background sample holder for small sample quantity.</p> <p>16. Max. Radiation level < 1μSv/h.</p> <p>17. Detector: 1- dimensional fast linear detector based on Real time Compound silicon strip or PIXEL or Curved Position sensitive detector Technology with minimum below specification.</p> <ul style="list-style-type: none"> ➤ No. of Strips or PIXEL – 150 or more. ➤ Spatial Resolution : 80 micrometers or better ➤ Minimum Active area : 12 x 12 mm or better ➤ Minimum Capture angle : 3.0 deg. or better ➤ Minimum counts rate : 70 million CPS or better ➤ Operational mode: 0D & 1D mode should be possible. ➤ Fluorescence suppression: Suitable hardware / software / mechanism for suppressing secondary fluorescence from sample. <p>18. The offered should be air-cooled; external water chiller should be avoided for maintenance purpose.</p> <p>19. Power Supply: 230V, 50/60 Hz</p> <p>20. PC and Interfaces: Necessary computer and operating system should be offered either integrated or external with USB & LAN facility.</p> <p>21. Software: Necessary software with following minimum features.</p> <ul style="list-style-type: none"> ➤ A complete software package that includes from mounting sample to data phase analysis, qualitative, quantitative analysis, Kα2 stripping, percentage of crystallinity measurement, crystal size determination with search match facility. ➤ The software should be compatible with ICDD as well as COD database for phase analysis. ➤ Software for converting the XRD data obtained from the diffractometer to ASCII format for research publication purpose. ➤ ICDD PDF2 database with 5 years license, License should be in the name of UGC-DAE-CSR Mumbai. <p>22. Offered system should be factory alignment, plug and analyze type; table mounted & should be minimum space requirement for Installation.</p> <p>23. The system-generated quality of data should be $\leq \pm 0.02^\circ 2\theta$ on standard sample; supplier should supply the standard sample along with system to evaluate the performance during installation. The Supplier should also provide the written guarantee for above data quality.</p> <p>24. The XRD system should have all necessary safety protection as per latest International norms.</p> <p>25. Vendors must mention the service support details and no. of service engineers trained on the quoted model.</p> <p>26. A list of consumables, essential spares that will be required for routine operation of the XRD machine should be specified and quoted separately.</p> <p>27. Warranty: The vendor must quote comprehensive warranty for 24 months including all spares and X-Ray tube. All warranty replacement parts must be supplied on DDP basis to the installation site.</p>	
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ANNEXURE-II

GENERAL TERMS AND CONDITIONS

1. **Eligibility Criteria:**
2. The Bidder should have an average turnover of INR 1.00 (One) Crore during the period of last 03 (Three) financial years. Last 03 (Three) Financial Years Audited Annual Accounts (Profit & Loss Account and Balance Sheet) to be submitted along with the Techno-commercial (Part-A) bid.
3. Bidder should have registered office and/or authorised Service Centre and/or local agent in India.
4. Bidder must have GST Registration Number, Trade License in India. Necessary proof of documents shall be submitted along with the Techno-Commercial Bid-(Part-A).
5. Tender document shall be available at www.csr.res.in. The Cost of the Tender Document : **Rs. 200/- (Two Hundred Only)** (Non-refundable), to be paid by means of **Demand Draft payable at Mumbai** in favour of **UGC-DAE CSR – Non-Plan along with the bid.**
6. Bid Validity: Bid should be valid till 31st,March,2019.The validity may be extended for a period of Six Months with mutual consent of Buyer and Seller.
7. Tender Fees may also be paid by NEFT or RTGS in favour as understated.In that case the bidder need to submit the relevant documentary
Bank Account No.10536133211 IFSC:SBIN0001268
Branch Code: 001268 MICR:400002006
Name of Bank:State Bank of India Branch:BARC Trombay
Branch Address: Central Admn Bldg Trombay Distt Brihan Mumbai Maharashtra 400085
8. Rate(s) quoted shall be all inclusive i.e. inclusive of materials,loading,unloading,packing,unpacking,delivery,transportation,supply, installation, testing, commissioning, labour, toll, parking, incidental & any other charges and should be in Indian Rupees. However, all the pricing components to be shown separately in the Financial Bid(Part-B).Charges of GST shall be shown separately. Quoted Rate shall be fixed and price escalation shall not be accepted under any circumstances.
9. The delivery period must be mentioned in the Offer. Any charges that may arise due to extension of delivery schedule, etc. shall have to be borne by the Seller. The delivery shall be made through multimodal transport facilities vide Air-Road.
10. Offer should be accompanied with product catalogue, brochure and relevant pamphlets etc.
- 11.The quantities mentioned in the tender document are tentative in nature and may vary at the time of placement of formal Purchase Order. Institutional discount, wherever applicable, should be mentioned separately.
- 12.Payment shall be made only after receiving complete articles in good and satisfactory condition along with invoice in Duplicate. Necessary Bank particulars of the seller to be provided.
- 13.The payment shall be released only if the item supplied and received according to specification unless any change is otherwise agreed in writing. No advance payment in part or full shall be made.

14. Centre-Director, UGC-DAE CSR shall not be liable for any postal delay.
15. Offer without meeting the technical and commercial criteria & requirements may bear the risk of not being considered. In that case the Price bid of the respective bidder shall not be opened.
16. The Centre-Director reserves the right at their sole, to accept any Offer for whole or part quantities or to reject any or all Offers without assigning any reason thereof. No claims for compensation or otherwise whatsoever shall be entertained.
17. The seller at their risk and cost shall arrange transit insurance up to Mumbai.
18. Any disputes arising between both parties in connection with this transaction shall be referred within Jurisdiction of the Competent Court in the City of Mumbai.
19. The decision of the Centre-Director shall be final in all the cases.
20. All technical and commercial terms, conditions, declarations, documents should be enclosed in Techno-Commercial Bid in a separate sealed envelope and superscribed as PART -A.
21. Only Rate shall be quoted in Financial Bid in separate sealed envelope superscribed as PART- B.
22. Both the envelope i.e. PART-A and PART-B shall be Sealed within a cover envelope and Superscribed as 'Offer against NIT No. and Due Date.' The Offer should be send by Speed/Register Post **(No private/local couriers are permitted inside BARC, Mumbai)** to the Centre-Director, UGC-DAE CSR, Mumbai Centre, CFB, 246-C, 2nd Floor, BARC, Trombay, Mumbai – 400085 latest by 11th February, 2019.

For any query related regarding the Tender, Kindly Contact at. : 022-25505327 or email at udcsr.mum@csr.res.in

Centre Director