ICMR - NATIONAL INSTITUTE OF CANCER PREVENTION AND RESEARCH

Plot No. I-7 SECTOR-39 NOIDA – 201301

No. NICPR/DIR/BIO-BANK/143/2021 Dated: 17.08.2021

INVITATION TO e- EXPRESSION OF INTEREST
FOR ESTABLISHMENT OF BIO-BANK AT ICMR-NICPR, NOIDA
E-EXPRESSION OF INTEREST (EOI) NOTICE

1. The ICMR- National Institute of Cancer Prevention & Research (ICMR-NICPR) intends to establish/set up Bio-bank facility with integrated automated long-term storage system as a turnkey project at I-7, Sec-39, Noida-20130 for storage of about 10 lakh samples in a buildup space of about 3500 sq. feet having ceiling height of about 12 feet.

2. The EOI Document containing the eligibility criteria, brief objective & scope of work,tentative specification **(Annexure-I)**and compliance sheet of eligibility criteria **(Annexure-II)** may be downloaded from the website htttps://main.icmr.nic.in, www.nicpr.res.in and www.eprocure.gov.in.

3. Interested and eligible/reputed bonafide and reputed firms/manufacturers/Indian agents (on behalf of their foreign principals) are requested to submit the EoI for the supply, installation, testing and commissioning of the Bio-bank facility with integrated automated long-term storage system as a turnkey project along with details of machinery, equipment including computer hardwares, CCTV, softwares, accessories/spares etc. and preparation of site with quantity, specifications and technology etc. by 06.09.2021 along with compliance sheet **(Annexure-II).**

4. The Critical Dates Sheet is as under:**Critical Dates**

Publication date of EoI	17.08.2021
Site visit	18.08.2021 - 23.08.2021
Clarification Start date. Contact person: Dr. Anuj Kumar through email kumar.anuj@gov.inwith a copy todirector.nicpr@icmr.gov.in	18.08.2021
Clarification End date	25.08.2021
Last date of submission of EoI (Online)	06.09.2021
EoI Opening date	07.09.2021
Power Point presentation by the firms	Will be communicated to eligible firms/vendors after scrutiny of EoI

Administrative Officer

For Director
ICMR-NICPR, Noida

ICMR-NATIONAL INSTITUUTE OF CANCERPREVENTION AND RESEARCH

Plot No. I-7 SECTOR-39 NOIDA – 201301

No. NICPR/DIR/BIO-BANK/143/2021 Dated: 17.08.2021

Document for Expression of Interest (EOI) for establishment/setting up of automated integrated Bio-bank facility as a turnkey project.

1. Introduction

The National Institute of Cancer Prevention and Research (NICPR) is a ICMR Research Institute under the Department of Health Research, Ministry of Health and Family Welfare, Government of India and located at I-7, Sec-39, Noida-201301, G B Nagar .U.P. NICPR is engaged in many multidisciplinary extramural as well as intramural comprehensive research projects on prevention of various types of cancer.

2. Scope of Work

NICPR intends to establish/set upa Bio-bank facility with integrated automated long-term storage system as a turnkey project of total storage capacity of about 10 lakh sample sat I-7, Sec-39, Noida-201301in a buildup space of about 3500 sq. feet with ceiling height of about 12 feet.

Total storage capacity may be established at once or may be augmented in phased manner with initial capacity generation for2 lakh samples followed by augmenting the capacity by 2 lakh samples each time, upto 10 lakhs depending on availability of technology and requirement.

Scope of work also includes:

i) Onsite Warranty period of 05 years which will be reckoned after one month from the date of supply, installation, testing, commissioning and handing over of the Bio-bank. The Warranty of 05 years shall also be applicable to the third party machinery, equipment, tools, items etc. provided in setting up of the Bio-bank.
ii) After completion of Warranty, 05 year CMC free of cost will be provided by the firm
iii) 24 hrs. Power Back up arrangement may be provided. However, in case of major power failure, uninterrupted power supply for 72 hrs is to be ensured.
iv) Ensure availability of spares, accessories, etc. including facility of servicing of the equipment in the Bio-bank for further period of 10 years after completion of CMC (i.e. after 10 years of establishment).

3. Eligibility Criteria

Following will be the eligibility criteria:

SN.	BASIC REQUIREMENTS	SPECIFIC REQUIREMENTS
1.	**EXPERIENCE**	i) The firm should have at least five years of experience as on 31st March, 2021 in Supply, Installation, Commissioning & testing of Bio-bank Facility System as turnkey project

		ii) The firm should have a successful track record, and should have at least one implementation of similar work (Supply, Installation, Commissioning & testing of Bio-bank Facility System) of minimum Rupees Ten crores (Rs. 10.00 crores) in any Central Govt./State Govt. Department, Institute of national or international importance, PSU, CorporateBody during 2016-17 to 2020-21.
2.	**SALES TURNOVER**	In case of Indian manufacturer, the firm should have a yearly turnover of at least Rupees Twenty crores (Rs. 20.00 crores) over the last three years ended as on 31st March 2021. In case of authorized distributor and Indian Agent on behalf of their foreign principals), the firm should have a yearly turnover of at least Rupees Two crores (Rs. 2.00 crores) over the last three years ended as on 31st March 2021.
3.	**FINANCIAL AND OPERATIONAL STABILITY**	i) The firm (manufacturer or principal of authorized representative) should not have suffered any financial loss for more than one year during last three years, ending on 31st March 2021. ii) The net worth of the firm (manufacturer or principal of authorized representative) should not be negative as on 31st March, 2021 and also should not be eroded by more than 30% in the last three years ending on 31st March, 2021.
4.	**OFFICE IN INDIA**	The firm should have registered office in India.
5.	**BLACKLISTING**	The firm should not have been convicted by a Court of Law or indicted by a regulatory authority for any offence against it. Should not have been blacklisted by the Centre Govt./State Govt. Department, Institute of National or International importance, PSU or Corporate etc. or any investigation pending against it as on date of submission of EoI.

Each eligible firm should possess all the above stated pre-qualification criteria. Responses/bidswithout supporting documents or not meeting the minimum pre-qualification criteria will not be considered and would be rejected.

4. Other Terms and Conditions

i) EOI should be only typewritten and no correction/overwriting shall be made.

ii) Fax/E-mail/Conditional EOI will not be accepted.

iii) After submission of EoI, the same shall not be allowed at any time on any ground whatsoever, to revise or modify the EoI.

iv) The firms/vendors are required to submit copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. All the requisite supporting documents mentioned in the EOI document should and must be uploaded On-line.

v) More information useful for submitting the online bids on the CPP Portal is available/obtained at URL:http://eprocure.gov.in/eprocure/app.

vi) For Registration, firms are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: http://eprocure.gov.in/eprocure/app) by clicking on the link "Click here to Enroll". Enrollment on the CPP Portal is free of charge.

vii) Foreign firms have to refer "DSC details for foreign Firms" for Digital Signature Certificate requirements which comes under Download Tab at http://eprocure.gov.in/eprocure/app?page=Standard Bidding Documents &service=page and the remaining part is same as above and below.

viii) The EoI complete in all respects are required to be submitted by **06.09.2021.**

ix) It should be ensured that all the required information is supported by relevant documents like details of machinery, equipment including computer hardwares, CCTV, softwares, accessories/spares etc. and preparation of site with quantity, specifications and technology etc. have been submitted along with hand-outs.

x) It should be clearly mentioned based on the available technology whether NICPR may establish/set up total capacity in phased manner. If so, the details of machinery, equipment, logistics, accessories/spares etc. required at present and future may be separately mentioned for final decision to be taken by NICPR.

xi) Any queries relating to the EoI document and the terms and conditions contained therein should be addressed to the EoI inviting Authority or the relevant contact person indicated in the EoI.

xii) Any queries relating to the process of online EoI submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.

xiii) Detail of machinery, equipment and other items along with available original illustrated literature/Catalogue of specified make, model no. detailed specifications in support of above compliance statement should accompany the EoI.

xiv) The proposed equipment etc. should be the latest version and flexible for future up gradation wherever applicable.

xv) Bio-bank facility offered should form a complete system.

xvi) In the event of any date indicated in critical date sheet is a declared holiday, the next working day shall become operative for the opening of EoI.

xvii) Firm should ensure availability of spares, accessories, etc. including facility of servicing of the equipment in the Bio-bank must be available for 10 years after completion of CMC (i.e. after 10 years of establishment).

xviii) ***Warranty/Guarantee***: The Bio-bank facility must be quoted with a minimum onsite Warranty period of 05 years after one month from the date of supply, installation, testing, commissioning and handing over to NICPR.

xix) The firm will provide/conduct end-user training to familiarize the end-users features available in the Bio-bank Facility system. It should be supported with the detailed end-user manuals, help documents, FAQs etc.

xx) The firmwill also provide handholding and training support for operational requirements. The operations part required to be documented appropriately with steps, configurations, illustrative practical use cases etc.

xxi) The second stage bidding will not be restricted only to the shortlisted bidders of EOI stage.

xxii) Proposal should contain the electricity load requirement for setting up full capacity (10 Lakh samples) and capacity of 2 lakh samples. Besides, requirement of DG load for 24 hrs. backup supply in both the cases.

xxiii) The firm should submit a hard copy of the documents uploaded on CPP portal to NICPR before the opening of the EoI opening date on any working day between 10.00 AM to 4.00 PM to the Store Section, NICPR.

Annexure-I

Tentative Technical Specifications

1.	**Integrated Automated long-term biobank storage system**
a)	Automated integrated storage at **-80°C to -86°C** for one million samples; in cryotubes of two separate volumes [200000 (2 lakh) number of samples in 1.8 ml to 2 ml tubes and 800000 (8 lakh) number of samples in 0.5 ml ± 0.1 ml tubes]
b)	Provision for scaling-up of storage capacity if required
c)	1D and 2D barcode recognition for tube and tube racks should be provided. Higher barcode recognition preferable.
d)	Universal tube picker/or gripper changing module for given sizes
e)	Automated liquid nitrogen (LN2) backup facility along with safe storage provisions to maintain temperature for at least 48 hrs in case of power failure.
f)	System should be serviceable without a rise in temperature of samples with maximum acceptable temperature variability of ±5°C during picking and sorting
g)	Active frost prevention mechanism
h)	Alarm system for temperature change beyond 5°C, (including sound beep to alert people in the vicinity, SMS and/or call to authorized person/s)
i)	Remote monitoring and management system like looking at performance parameters of Biobank in real time, event logs etc.
j)	CCTV visualization in outer areas of main Biobanking system with a data storage of 15 days
k)	CCTV visualization in the sample interface area with a data storage of 15 days
l)	Time-stamped background log of the system access and software use
m)	Back up with appropriate capacity Power Generating Set (as acceptable by NGT) as per requirement with automatic switch over to take the full load of biobank and its components
2.	**Sample management software**
a)	Server and cloud-based sample management software with perpetual license of 10 years and provision for upgrade in later years
b)	Integrated with automated retrieval system
c)	Software with security levels and full audits trails
d)	Should allow to save all relevant data associated with each sample
e)	Software should provide multilevel access
f)	Software free upgrades including the requisite compatible hardware should be provided during the period of warranty and CMC
g)	Multiple users (at least 5) with differential access

h)	Compatible with 2D bar-coded vials, cryoboxes, etc. and should be supplied with bar code readers (minimum 10) to confirm the correctness of retrieved sample
i)	Should provide 1D and 2D barcode scanners
j)	Compatible with transfer of data from already scanned codes
k)	International standards such as HIPPA, ISO 9001:2015 and 21 CFR part 11 or equivalent compliant.
l)	Onsite training in data management as and when required during warranty period
m)	Three high-efficiency computers with printers/scanners from market leaders with backup of biobank software (5 users) and provision of data transfer from other collection centers including but not limited to scanned consent forms, history forms, Material Transfer Agreements, etc.
	I. Computers with minimum specifications or higher - Intel i7 processor (10^{th} generation), 2 TB hard disk, 64 GB RAM, and latest genuine operating system
	II. Security level: RAID 1 server or higher (Disk mirroring) attached to the main computer
	III. Connected to Local LAN
	IV. Wired Keyboards & Mouse(s) Included
	V. Operating System: Compatible OS and anti-virus (128-Bit)
	VI. Compatible UPS to be provided, back-up time 30 minutes
	VII. Easy to interface with other web-based software
	VIII. Inventory management system
	IX. Ability to customize modifications in annotation and software as per user requirement
3.	**Consumables**
a)	System compatible Racks, vials, cryoboxes, pre-barcoded tubes and any other consumables should be quoted with catalogue no. and supporting brochure. 10% of the supply to be provided upfront as part of turn-key project
b)	Consumable material should be specified and consumable material should not be made of recycled plastic.
c)	Storage tubes should be sterile, DNase, RNase, nucleic acid and pyrogen free. Supporting certificate of proof should be provided.
d)	Consumable should have unique barcodes
e)	Tubes should have outer threading
f)	Tube should have 1D barcode at the side and 2D barcode at bottom.
g)	Tubes should have alpha-numeric code at the side
h)	Tube storage racks should be of 96 well format

i)	The price of the remaining 90% of the consumables may be fixed for 5 years after the installation of the biobank.
4.	**Site preparation**
a)	Ambient temperature maintenance of **20°C to 22°C** in the whole area including where the unit is kept
b)	The main biobank storage unit should be sound proof (<55 db)
c)	Room preparation with anti-skid floor tiling, wall tiling (10 feet), fungal resistant wall painting, termite treatment, pesticide control etc.
d)	Drainage system as acceptable for scientific use
e)	Automatic Fire safety provisions and fire alarm sensors as per government approved standards
f)	Compressor for dry air compatible with environment and international safety standards (ISO 7183:2007) (certificates to be provided)
5.	**Services and support**
a)	24x7 hours onsite support and management for running the biobank and troubleshooting by technically qualified persons
b)	The list of items included and excluded in the warranty should be provided.
c)	The third-party items provided by the vendor should be covered in the warranty and CMC.
d)	The number of occasions the laboratory equipment/instruments may be down should not be more than 12 times per year or 36 days per whole year (365 days), whichever is less. In case the down time exceeds the limits mentioned, the instrument should be replaced. Further, the downtime on any one occasion should not be more than three days (excluding holidays). If above condition is not fulfilled, it will be open to the institute to recover the liquidated damages from the firm at the rate of 0.5% per week of the total cost of biobank tender.
e)	For all critical components spare parts/standby should be made available on site within 24 hours
f)	Five years comprehensive warranty for all components of biobank and CMC from 6-10^{th} year should be provided.
6.	**All components should have certificates of compliance in conformity with international standards and regulations or equivalent Indian standards.**

Annexure-II

Compliance Sheet of eligibility criteria

SN	BASIC REQUIRE-MENTS	SPECIFIC REQUIREMENTS	SUPPORTING DOCS REQUIRED	Whether supporting documents enclosed (say yes or no)	Pl. refer page No.
1.	**EXPERIENCE**	i) The firm should have at least five years of experience as on 31st March, 2021 in Supply, Installation, Commissioning & testing of Bio-bank Facility System as turnkey project ii) The firm should have a successful track record, and should have at least one implementation of similar work (Supply, Installation, Commissioning & testing of Bio-bank Facility System) of minimum Rupees Ten crores (Rs. 10.00 crores) in any Centre Govt./State Govt. Department, Institute of National or International importance, PSU or Corporate during 2016-17 to 2020-21.	The firm must provide self-attested year wise experience details. Copy of work award, date of actual completion of work and actual cost etc. may be provided.		
2.	**SALES TURNOVER**	In case of Indian manufacturer, the firm should have a yearly turnover of at least Rupees Twenty crores (Rs. 20.00 crores) over the last three years ended as on 31st March 2021. In case of authorized distributer and Indian Agent on behalf of their foreign principals), the firm should have a yearly turnover of at least Rupees Two crores (Rs. 2.00 crores) over the last three years ended as on 31st March 2021.	Certified financial statements of last three years must be provided.		
3.	**FINANCIAL AND OPERATIONAL**	i) The firm (manufacturer or principal of authorized representative) should	Certified financial statements of last three years		

	STABILITY	not have suffered any financial loss for more than one year during last three years, ending on 31st March 2021. ii) The net worth of the firm (manufacturer or principal of authorized representative) should not be negative as on 31st March, 2021 and also should not be eroded by more than 30% in the last three years ending on 31st March, 2021.	must be provided.		
4.	**OFFICE IN INDIA**	The firm should have registered office in India.	A copy of any valid document/evidence in this regard		
5.	**0**	The firm should not have been convicted by a Court of Law or indicted by a regulatory authority for any offence against it. Should not have been blacklisted by the Centre Govt./State Govt. Department, Institute of National or International importance, PSU or Corporate etc. or any investigation pending against it as on date of submission of EoI.	Self-declaration		