EoI No. ICMR/EoI/PM/23/Cricoid Pressure Device/2026
Dated 16th November 2026

Invitation for Expression of Interest (EoI)

For

Transfer of Technology
Of

Cricoid Pressure Device
(Medical Device)

By ICMR-Hqrs

Indian Council of Medical Research
(Department of Health Research, GoI)
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P.O. Box No. 4911, Ansari Nagar,
New Delhi - 110029, India

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Letter of Invitation

1. Invitation for Expression of Interest

Indian Council of Medical Research (ICMR), New Delhi invites Expression of Interest (EoI) from the eligible organizations, companies, manufacturers for undertaking **'Transfer of Technology'** for commercialization of **Cricoid Pressure Device** useful in **pressure monitoring while performing Sellick's Maneuver.**

The EoI document containing the details of qualification criteria, submission details, brief objective & scope of work and evaluation criteria etc. can be downloaded from the ICMR website (https://www.icmr.gov.in).

Schedule for the Proponents is as under:

EoI Document Number	ICMR/EoI/PM/23/Cricoid Pressure Device/2026
Date of Publication	Date: 16/11/2026
Last date of submission	Date: 07/12/2026

Note:
Interested applicants are invited to submit their Expression of Interest (EoI) through the Medical Innovation Patent Mitra portal (https://patentmitra.icmr.org.in/companyeoiregistration/). Applicants must first register by providing requisite company information, including details of the authorized representative. Upon successful registration, applicants are required to complete and submit the e-EoI form available on the portal.

ICMR reserves the right to cancel this EoI and/ or invite afresh with or without amendments, without liability or any obligation for such EoI and without assigning any reason. Information provided at this stage is indicative and ICMR reserves the right to amend/add any further details in the EoI, as may be desired by the Competent Authority ICMR and duly notified on its website.

2. Background

The Indian Council of Medical Research (ICMR), New Delhi, the apex body in India for the formulation, coordination and promotion of biomedical research, is one of the oldest medical research bodies in the world. The ICMR has always attempted to address the growing demands of scientific advances in biomedical research on the one hand and the need of finding practical solutions to the health problems of the country, on the other.

Postgraduate Institute of Medical Education and Research, Chandigarh (PGIMER-Chandigarh) has developed a technology entitled "**Cricoid Pressure Device**" (hereinafter) referred to as **"Technology".**

ICMR under its "Medical Innovations Patent Mitra" initiative will facilitate

Institute/University/Organization to enter into any form of **exclusive/non-exclusive agreements** with eligible manufacturing companies hereinafter referred to as the **"Company"** through a defined agreement for Licensing/Commercialization of "**Cricoid Pressure Device"**, hereinafter referred to as the **'Product',** which shall be governed by Institute/University/Organization IP Policy.

3. Objective

To license the 'Technology' for **Cricoid Pressure Device,** useful in **pressure monitoring while performing Sellick's Maneuver**, for commercialization and marketing activities.

4. Scope of Work

i. ICMR under its "Medical Innovations Patent Mitra" initiative is willing to collaborate with eligible organizations, companies, and manufacturers for undertaking Transfer of technology and commercialization of the Technology/product entitled "**Cricoid Pressure Device".**

ii. The Company would be granted rights to undertake further development, manufacture, sell, and commercialize the Technology/Product entitled **"Cricoid Pressure Device".**

iii. An Agreement (in case of joint development or licensing) following EoI is proposed to be executed on a "Exclusive/Non-Exclusive" basis with single/multiple companies to enable wider outreach of the Technology/product entitled **"Cricoid Pressure Device"** for societal benefit and public health use. All the related issues shall be governed by Institute/University/Organization's IP Policy.

iv. Postgraduate Institute of Medical Education and Research, Chandigarh (PGIMER-Chandigarh) has expertise in various techniques, methods and information relating to aforesaid technology which could be used for the production of the Technology/product entitled "**Cricoid Pressure Device".**

Role of Institute/University/Organization:

i. Postgraduate Institute of Medical Education and Research, Chandigarh (PGIMER-Chandigarh) will provide expert guidance & technical support for the production of the Technology/product entitled **"Cricoid Pressure Device"**, in all phases. Such technical oversight by Postgraduate Institute of Medical Education and Research, Chandigarh (PGIMER-Chandigarh) would accelerate the development of the Product and its commercialization.

ii. PGIMER-Chandigarh would provide technical support through its team of experienced scientists in study planning, product development, development of study protocol, results/data analysis, outcome assessment, safety & efficacy assessment, product improvement, etc., if deemed fit upon the mutual understanding between ICMR and collaborative company.

iii. Postgraduate Institute of Medical Education and Research, Chandigarh (PGIMER-Chandigarh) would provide support and facilitation to conduct the R&D/clinical study of new technology/ product in India through its Affiliates/ Institutes, in collaboration with the company/institutions in a professional and mutually agreed-upon manner and timelines, which will be decided later under the Agreement.

iv. Postgraduate Institute of Medical Education and Research, Chandigarh (PGIMER-Chandigarh) would provide technical support in development of technology/ product and will also facilitate the validation, if required, as per the terms & conditions of the Agreement.

v. ICMR shall have no financial implications unless otherwise specified.

Role of Company

i. The Company shall have valid provisions to provide all necessary infrastructure/ material/ manpower required for product development/ validation/ scale-up either directly or otherwise.

ii. The Company shall have provisions to undertake the scale-up as required, manufacturing and commercialization of the Technology/Product "**Cricoid Pressure Device"**, in a set milestone.

iii. The Company agrees to share the technical data with ICMR/Postgraduate Institute of Medical Education and Research, Chandigarh (PGIMER-Chandigarh) and participate in all discussions in a professional and mutually agreed-upon manner.

iv. The Company agrees to allow authorized personnel/scientist/team of ICMR/Postgraduate Institute of Medical Education and Research, Chandigarh (PGIMER-Chandigarh) to visit the designated lab/ production facility as and when required, as envisaged under this EoI and subsequent Agreement.

v. The Company shall be responsible for obtaining all the regulatory approvals required for commercialization or starting from R&D for product development to its commercialization.

5. Intellectual Property Rights

It is submitted that in case of transfer of Technology, Postgraduate Institute of Medical Education and Research, Chandigarh (PGIMER-Chandigarh) is the sole owner of the said Technology, including any underlying Intellectual Property(ies) and commercialization rights.

Intellectual Property (IP) shall mean patents, rights to inventions, copyright and related rights, moral rights, rights in designs, rights in trademarks, rights to preserve the confidentiality of information (including know-how and trade secrets) and any other intellectual property rights, in each case whether registered or unregistered and including all applications (or rights to apply for and be granted), divisional, continuations, continuations-in-part, reissues, renewals or extensions of, and rights to claim priority from, such rights and all similar or equivalent rights or forms of protection which subsist or will subsist now or in the future in any part of the world regarding subject matter disclosed in Licensed patents.

Postgraduate Institute of Medical Education and Research, Chandigarh (PGIMER-Chandigarh) legally possess the rights and authority to retain full or part of the 'Technology' by itself or to assign at its discretion full or part of the Technology including any patent(s) or intellectual property rights(s) or the invention(s). ICMR under it's "Medical Innovations Patent Mitra" Initiative will facilitate exclusive/non-exclusive License Agreements with

selected companies including transfer of the Technology through suitable Agreement(s).

In case of collaboration between Postgraduate Institute of Medical Education and Research, Chandigarh (PGIMER-Chandigarh) and the Company for the Joint development of the Technology/ Product, Background Intellectual Property ("BGIP") shall always remain the sole and exclusive property of the Party generating the BGIP. Any IP, if generated during the course of collaboration, including any improvement thereof, shall be jointly owned by Institute/University/Organization and the Company. All such provisions related to intellectual property rights shall be governed by Institute/University/Organization IP Policy.

6. Process involved in Partnership/Collaboration/Technology Transfer

Interested companies/manufacturers are invited to join hands with Postgraduate Institute of Medical Education and Research, Chandigarh (PGIMER-Chandigarh) for co-development/ further development & commercialization of Technology/ Product(s). Under this EoI, the manufacturers/companies who are responsive and fulfilling all the technical need will be shortlisted based on their R&D plan, facilities and capabilities. Qualified companies/manufacturers will only be contacted for execution of MoA/MoU/Agreement for partnership/collaboration/technology transfer, etc. **Consideration by the company/manufacturer shall be as per the IP Policy of the** Postgraduate Institute of Medical Education and Research, Chandigarh (PGIMER-Chandigarh).

7. Publication

i. In case of Co-development, the Parties shall have equal rights on the manuscripts/scientific publications (joint publication/acknowledgment /other credits as applicable) and in accordance with guidelines of International Committee of Medical Journal Editors (ICMJE.org).

ii. Support of ICMR must be duly acknowledged in all publications by the Company.

iii. ICMR/ Institute Scientists can be given due to advantage of authorships in the publications arising out of Licensing/co-development.

8. Data Rights

i. Data Rights will be exclusively with ICMR, if ICMR provide 100% funding.

ii. Data rights shall be jointly owned by Institute/Organization/University and Licensee/Co-developer, in case of joint funding.

iii. Data rights in cases where Artificial Intelligence is involved shall be dealt separately.

iv. Licensee/ Company to ensure that data is anonymized, kept confidential and strictly abide by the provisions of Information Technology Act, 2000 while dealing with such data

9. Details of documents to be furnished

Proponents are requested to go through all pre-qualification requirements, scope of work for execution & requirements with respect to technical capabilities for submission of interest, subject for verification by ICMR.

Documents to be furnished are as follows:

i. Declaration - Expression of Interest (Format – 1)

ii. Authorization Letter (Format – 2)
iii. Undertaking with regard to Blacklisting (Format-3)
iv. Undertaking with regard to Non-Conviction (Format – 4)
v. EoI document with each page duly stamped and signed by the Authorized signatory.
vi. Undertaking with regard to laboratory facility (Format – 5)
vii. Production Capacity Undertaking (Format-6)
viii. Supporting documents, as mentioned in Format-1
ix. MSME Certificate (if applicable)
x. Concept note on business plan- A brief concept note on R&D, clinical studies, planning & execution, production, marketing etc. with timeline (not more than 5 pages)
xi. Any other information which proponent may wish to provide to support the EoI.

ICMR reserves the right to call for any clarifications confined in the broad scope, wherever such a clarification become necessary for proper judgement in evaluation.

10. Rejection Criteria

The application is liable to be rejected if:

i. The proposal is not submitted as per the requirements indicated in the EoI.
ii. Not in the prescribed format.
iii. Not properly stamped and signed.
iv. Received after the expiry of due date and time.
v. All relevant supporting documents are not furnished with the Pre-Qualification Criteria (PQC).
vi. The proposal shall be substantially responsive without any material deviation, failing which the proposal shall be summarily rejected.
vii. Applications not fulfilling the terms of the document will be summarily rejected.
viii. Any other non-compliance.

11. Evaluation Methodology

Screening of EoIs shall be carried out as per Pre-Qualification criteria mentioned in the EoI document and based on verification of documents submitted.

12. Pre-Qualification Criteria (PQC)

The following will be the minimum Pre-Qualification Criteria (PQC). Responses not meeting the minimum PQC will be summarily rejected and will not be evaluated further:

Sl. No.	**Pre-Qualification Criteria (General)**	**Supporting copy of documents required** (All documents must be self-attested by the authorized person of the

		proponent)
General Criteria		
1	The proponent shall be a legal entity, registered as Institution/Company/ LLP/ Society/ partnership firm/ proprietorship firm under respective acts in India and shall have more than 51% of Company stakes by promoters from India.	Registration of firm/ organization/Company Incorporation Certificate from Registrar of Companies (ROC) /Partnership deed etc. whichever is applicable
2	The proponent must be registered in India with taxation and other administrative authorities.	GST Registration or GST exemption certificate/ PAN Card
3	The proponent should have proven prior experience of manufacturing and/or R&D with manufacturing during the last three years, either in-house or through agreed collaboration and must have marketed same/similar products in the past with a good track record.	Research paper/Pamphlet / brochure of the product/DCGI License for existing product. Supporting documents for collaboration, if any.
4	The proponent has to be profitable and should not have incurred overall loss in past three (3) years. (applicable on commercial firms/organizations only)	Certificate from the Chartered Accountant of the Organization/ Audited Balance sheets for last three financial years or Income Tax return.
5	The proponent should have good track record and currently not black-listed/ barred by any Central / State Government / Public Sector Undertaking, Govt. of India, (applicable on commercial firms/organizations only).	Undertaking on the Letter Head of the Proponent duly signed & Stamped by Authorized Signatory (As per format – 3).
6	The proponent should have a manufacturing unit in India.	Registration copies/ factory license/ DSIR certificate, if have any.
7	The proponent and its promoters should not have been convicted for any offence in India by any competent court or judicial body during the past 3 years.	Undertaking on Proponent's Letter Head, duly signed and stamped by the Authorized Signatory (As per format – 4)
8	GMP/ quality certification (ISO or approved Indian certification) of manufacturing facility and GLP/ necessary certifications for R & D	Copies of Certificates
Specific Criteria (Based on the nature of the Proposal)		
9.	The proponent should have functional laboratory to carryout R&D for the	Undertaking on Proponent's Letter Head, duly signed and stamped by the

	product development	Authorized Signatory (As per format – 5)
10.	Capacity to produce at least……(quantity) per week	Undertaking (As per format – 6)

NOTE- For MSMEs and Start-ups, Start-Up-India, Make-in-India and other relevant guidelines of Government of India shall be applicable

13. Disclaimer

i. ICMR shall not be responsible for any late receipt of applications for any reasons whatsoever.

ii. ICMR reserves the right to cancel the call for EoI without assigning any reasons thereof.

iii. ICMR may relax or waive any of the conditions stipulated in this document as deemed necessary in the best interest of the ICMR without assigning any reasons thereof.

iv. To include any other item in the Scope of work at any time after consultation with proponents or otherwise.

v. For International Clients, please note that EoI and other necessary correspondences shall be submitted in English only.

14. Arbitration

That any dispute and/ or any part of the dispute which couldn't be resolved through mutual consultation, the same shall be referred to the sole arbitrator as per the Arbitration & Conciliation Act, 1996 and any amendment thereafter. The Venue and Seat of the arbitration proceedings shall be New Delhi and the courts at New Delhi will have exclusive jurisdiction.

15. Contacts

In case of any clarification required, please contact:

For scientific issues-
Prof Preethy J Mathew
Email: tjpreethy@gmail.com
Mobile No.: 9417800203

For Technical issues-
Medical Innovations Patent Mitra Team,
Email: patentmitra.hq@icmr.gov.in

Format-1

Expression of Interest

(To be submitted on Company's Letter Head)

To,

The Director General,
Indian Council of Medical Research,
Ansari Nagar, New Delhi.

Subject: Submission of Expression of Interest (EoI) for Transfer of Technology for the Technology entitled **"Cricoid Pressure Device"** and manufacturing, commercialization of Diagnostic assay/ Kit useful in **pressure monitoring while performing Sellick's Maneuver.**

Ref: ICMR/EoI/PM/23/Cricoid Pressure Device/2026, dated _____

Sir,

The undersigned having read and examined in detail all the EoI documents pertaining to your transfer of technology and do hereby express the interest to undertake the research & development/manufacture/ sale /commercialization of the product as mentioned in the EoI document. The details of the Company and contact person are given below:

Name of the Proponent	
Address	
Name, designation & address of the person (to whom all communications shall be made)	
Telephone No. (with STD code)	
Mobile No. of the contact person	
Email ID of the contact person	

The following documents are enclosed:

Sl. No.	Documents required	Type of document attached	Page No.
1	Company Incorporation Certificate from ROC/Partnership deed etc.		

2	GST Registration or GST exemption certificate/ PAN Card.		
3	DCGI/CDSCO license for the existing products available in the market		
4	Certificate from the Chartered Accountant of the Organization/ Audited Balance sheets for las three financial years, Income Tax return.		
5	Proof of a registered office and a manufacturing Unit in India.		
6	GMP / GLC and ISO Certification. Registration copies of both		
7	Authorization Letter	As per format – 2	
8	Undertaking on the Letter Head of the Proponent duly signed & Stamped by Authorized Signatory	As per format – 3	
9	Undertaking on Proponent's Letter Head, duly signed and stamped by the Authorized Signatory	As per format – 4	
10	MSME Certificate (if have any)		
11	Business Plan	A brief concept note on planning & execution, production, marketing etc. (not more than 5 pages)	

I/we hereby declare that my/our EoI is made in good faith and the information contained is true and correct to the best of my/our knowledge and belief.

Thanking you,

Yours faithfully,

(Signature of the Authorized signatory)
Name:
Designation:
Seal:
Place:

Format-2

Authorization Letter

(To be submitted on Company's Letter Head)

To,

The Director General,
Indian Council of Medical Research,
Ansari Nagar, New Delhi.

Subject: Letter for Authorized Signatory

Ref: ICMR/EoI/PM/23/Cricoid Pressure Device/2026, dated _____

Sir,

This has reference to your above-mentioned Expression of Interest (EoI) for Transfer of Technology entitled **"Cricoid Pressure Device"** and commercialization of Drug/ Vaccine candidate/Device/ Diagnostic assay/ Kit *(only tick whichever is applicable)* useful in **pressure monitoring while performing Sellick's Maneuver.**

Mr./Ms./Mrs./Dr…….is hereby authorized to submit the EoI documents and participate in the processing on behalf of M/s……. (Company Name) ……., who's signature is below.

(Specimen Signature of Representative)

Date:
Place:

Yours faithfully,

(Signature of the Authorized signatory)
Name:……..
Designation:……..
Seal:……..

Format-3

Undertaking with regard to blacklisting

(To be submitted on Company's Letter Head)

To,

The Director General,
Indian Council of Medical Research,
Ansari Nagar, New Delhi.

Subject: Undertaking regarding Blacklisting / Non-Debarment.
Ref: ICMR/EoI/PM/23/Cricoid Pressure Device/2026, dated _____

Sir,

It is hereby confirmed and declared that M/s…… (Company Name) currently has not been blacklisted / debarred by any Government Department / Public Sector Undertaking / or any other company for which works/assignments/services have been executed / undertaken.

Yours faithfully,

(Signature of the Authorized signatory)
Name:
Designation:
Seal:
Place:

Format-4

Undertaking with regard to Non-Conviction

(To be submitted on Company's Letter Head)

To,

The Director General,
Indian Council of Medical Research,
Ansari Nagar, New Delhi.

Subject: Undertaking regarding Non-Conviction.
Ref: ICMR/EoI/PM/23/Cricoid Pressure Device/2026, dated _____

Sir,

It is hereby confirmed and declared that M/s….....(Company Name) and owner of the firm / board of directors, have not been convicted for any offence in India by any competent court or judicial body during the past 3 years.

Yours faithfully,

(Signature of the Authorized signatory)
Name:
Designation:
Seal:
Place:

Format-5

Undertaking with regard to laboratory facility

(To be submitted on Company's Letter Head)

To,

The Director General,
Indian Council of Medical Research,
Ansari Nagar, New Delhi.

Subject: Undertaking regarding laboratory infrastructure.
Ref: ICMR/EoI/PM/23/Cricoid Pressure Device/2026, dated _____

Sir,

It is hereby confirmed and declared that M/s…..... (Company Name) do have

i. Adequate laboratory infrastructure (equipped laboratory facility). Please tick BSL-2/BSL-3/ABSL-3/GMP/GLP/ Other* (if other please specify) and

ii. Adequate no. of experienced staff/skilled manpower to undertake manufacture/ research/ commercialization of the Technology entitled "**Cricoid Pressure Device".**

Yours faithfully,

(Signature of the Authorized signatory)
Name:
Designation:
Seal:
Place:

*The Laboratory/ facility requirement will depend on the technology/ product

Format-6

Undertaking with regard to production capacity

(To be submitted on Company's Letter Head)

To,

The Director General,
Indian Council of Medical Research,
Ansari Nagar, New Delhi.

Subject: Undertaking with regard to production capacity.
Ref: ICMR/EoI/PM/23/Cricoid Pressure Device/2026, dated _____

Sir,

It is hereby confirmed and declared that M/s…… does have the capacity in all mean (including infrastructure, fund, material, staff etc.) for manufacturing of …… (Name of Technology/ Product), minimum …….(mention the quantity per week/per month).

Yours faithfully,

(Signature of the Authorized signatory)
Name:
Designation:
Seal:
Place:

SCHEDULE-A
TECHNOLOGY DETAILS

i. About Technology/Product/Process:

The Cricoid Pressure Device is a novel prototype medical device developed to quantify and display the force applied during cricoid pressure (Sellick's maneuver) in unconscious patients undergoing endotracheal intubation. The device uses a sensor placed over the cricoid cartilage to measure the applied cricoid force and provides a real-time digital readout in Newtons. By enabling objective measurement of force during the maneuver, the device helps clinicians apply the recommended cricoid force accurately and consistently, thereby supporting safer airway management in emergency and surgical settings. The technology has been demonstrated at a small scale/clinical trial phase and is intended for use in hospitals and healthcare facilities performing emergency procedures under general anaesthesia.

ii. Need and utility of the Technology from Public health perspective:

The Cricoid Pressure Device addresses an important public health need by enabling accurate, real-time measurement of cricoid force during Sellick's maneuver in unconscious patients undergoing endotracheal intubation. By helping clinicians apply the recommended force consistently, the device can improve patient safety and reduce the risk of regurgitation, pulmonary aspiration, difficult intubation, and neck-related complications. The technology supports standardization of a critical airway protection procedure, enhances training and clinical practice, and may contribute to reduced healthcare costs associated with procedure-related complications in anaesthesia and emergency care settings.

iii. Technology Readiness level (TRL): TRL-4 (Validated In-house)

iv. Validation Status and outcome:

The Cricoid Pressure Sensor Device has undergone prototype validation and clinical evaluation through a prospective randomized controlled trial involving 64 adult patients undergoing elective surgery under general anaesthesia. During development, the force sensor was tested and calibrated on manikins, with device readings validated against weighing-scale measurements. Clinical evaluation demonstrated that real-time force feedback from the device significantly improved the effectiveness of Sellick's maneuver, achieving 94% oesophageal occlusion compared to 6% in the control group. The device also enabled more consistent application of the recommended cricoid force range and resulted in significantly greater oesophageal compression, supporting its utility in enhancing patient safety and standardizing cricoid pressure application in clinical settings

v. IP Filing Status/Publications

Patent: IN571518

Grant Date: 3 October 2025.

Publications:

1. Mishra, A., Ashok, V., Puri, G. D., Kumar, N., & Mathew, P. J. (2025). A novel cricoid pressure sensor device enhances the efficacy of oesophageal occlusion during Sellick's manoeuvre: A randomised controlled trial. European journal of anaesthesiology, 42(3), 265–274. https://doi.org/10.1097/EJA.0000000000002097

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