Government ePublishing System

ePublishing System, Government of India

Tender Details

Date : 02-Nov-2026 04:55 PM

Print

Basic Details

Organisation Chain	Department of Health Research||Indian Council of Medical Research		
Tender Reference Number	S/2026-27/CSB/483/AB		
Tender ID	2026_DoHR_856014_1		
Tender Type	Open Tender	**Form of contract**	Rate Contract
Tender Category	Services	**No. of Covers**	2
Payment Mode	Offline	**Is Multi Currency Allowed For BOQ**	No
Is Multi Currency Allowed For Fee	No		

Payment Instruments

Offline

S.No	Instrument Type
1	Demand Draft

Cover Details, No. Of Covers - 2

Cover No	Cover	Document Type	Description
1	Fee/PreQual/Technical	.pdf	Technical Bid
2	Finance	.xls	Financial Bid

Tender Fee Details, [Total Fee in ₹ * - 0.00]

Tender Fee in ₹	0.00		
Fee Payable To	NA	**Fee Payable At**	NA
Tender Fee Exemption Allowed	NA		

EMD Fee Details

EMD Amount in ₹	44,000	**EMD Exemption Allowed**	Yes
EMD Fee Type	fixed	**EMD Percentage**	NA
EMD Payable To	Director, ICMR-NIRWoH, Mumbai	**EMD Payable At**	Mumbai

Work /Item(s)

Title	S/2026-27/CSB/483/AB				
Work Description	Procurement of Proteomics and data analysis, Metabolomics and data analysis, and Proteomics of extracellular vesicles				
Pre Qualification Details	Please refer Tender documents.				
Tender Value in ₹	22,80,000	**Product Category**	Miscellaneous Services	**Sub category**	Procurement of Proteomics and data analysis, Metab
Contract Type	Rate Contract	**Bid Validity(Days)**	180	**Period Of Work(Days)**	1095
Location	Mumbai	**Pincode**	400012	**Pre Bid Meeting Place**	NA
Pre Bid Meeting Address	NA	**Pre Bid Meeting Date**	NA	**Bid Opening Place**	Mumbai City

Critical Dates

Publish Date	02-Nov-2026 05:20 PM	**Bid Opening Date**	24-Nov-2026 12:00 PM
Document Download / Sale Start Date	02-Nov-2026 06:00 PM	**Document Download / Sale End Date**	23-Nov-2026 05:00 PM
Clarification Start Date	NA	**Clarification End Date**	NA
Bid Submission Start Date	02-Nov-2026 06:30 PM	**Bid Submission End Date**	23-Nov-2026 05:00 PM

Tender Documents

NIT Document

S.No	Document Name	Description	Document Size (in KB)
1	Tendernotice_1.pdf	Tender notice	207.79

Work Item Documents

S.No	Document Type	Document Name	Description	Document Size (in KB)
1	Tender Documents	SCOPE OF WORK FOR CPP TENDER.pdf	Scope of Work	405.69

Tender Inviting Authority

Name	Director, ICMR-NIRWoH
Address	J. M. Street, Parel, Mumbai-12.

Tender Creator Details

Created By	Geetanjali Sachdeva
Designation	Director
Created Date	02-Nov-2026 04:42 PM

आई.सी.एम.आर. राष्ट्रीय महिला स्वास्थ्य अनुसंधान संस्थान
(पूर्व नाम आई.सी.एम.आर. - एन.आई.आर.आर.सी.एच.), मुंबई
स्वास्थ्य अनुसंधान विभाग,
स्वास्थ्य एवं परिवार कल्याण मंत्रालय, भारत सरकार
ICMR National Institute for Research on Women's Health
(Formerly known as ICMR-NIRRCH), Mumbai
Department of Health Research,
Ministry of Health and Family Welfare, Govt. of India

NOTICE INVITING TENDER

Tender Reference No: S/2026-27/CSB/483/AB (Comp. No. 296806) Date:02.11.2026

1. Introduction and Institutional Profile

The ICMR-National Institute for Research on Women's Health (ICMR-NIRWoH) is India's apex institution dedicated to improving women's health across the life course through advanced fundamental, clinical, and translational research. The Institute integrates multi-disciplinary scientific approaches and centralized research platforms to address reproductive health challenges, infertility, and emerging medical conditions. Partnering with national and international bodies, ICMR-NIRWoH serves as a DHR-designated Health Technology Assessment hub and a WHO Collaborating Centre, translating evidence into impactful health policies and solutions.

2. Tender Critical Details Summary

Tender Parameter	Institutional Specification / Requirement
Subject of Tender	Procurement of Proteomics and data analysis, Metabolomics and data analysis, and Proteomics of extracellular vesicles
Number of Covers / Envelopes	Two Separate Sealed Envelopes (Cover-1: Technical Bid & EMD DD; Cover-2: Financial Price Bid) enclosed within a Master Enclosing Envelope
Bid Submission Closing Date & Time	23-November-2026 up to 05:00 PM
Bid Opening Date & Time	24-November-2026 at 12:00 PM
Earnest Money Deposit (EMD)	Rs. 44,000/- (Offline via Demand Draft in favor of Director, ICMR-NIRWoH, Mumbai, pursuant to GFR Rule 170). Must be enclosed inside the Technical Bid envelope with "EMD DD" clearly written on the outer cover. Exempted for verified MSEs/Startups upon valid certificate & Bid Security Declaration submission.
Performance Bank Guarantee (PBG)	Rs. 1,14,000/- (3% to 5% of contract value pursuant to GFR Rule 171, to be submitted by the successful L1 bidder upon award prior to contract signing).

Bid Validity Days	180 Days from Bid Opening Date
Period of Work	3 Years Contract (Multi-batch milestone delivery framework)
Address for Submission	The Director, ICMR-National Institute for Research on Women's Health, J.M. Street, Parel, Mumbai - 400012

3. Notice Inviting Tender (NIT) & Offline Two-Step Bidding Guidelines

The Director, ICMR-NIRWoH invites sealed offline quotations under a Two-Cover (Two-Step) bidding system from eligible, experienced, and technically competent service providers having advanced in-house Mass Spectrometry facilities based in India for undertaking specialized proteomics and metabolomics profiling services on a demand basis.

Offline Two-Cover Enclosing Instructions:

- Envelope A (Technical Bid & EMD DD): Must contain all technical compliance documents, statutory registrations, past work orders, and the physical Earnest Money Deposit (EMD) Demand Draft in favor of Director, ICMR-NIRWoH, Mumbai. Bidders must explicitly write "EMD DD" prominently on this separate sub-envelope.

- Envelope B (Financial Bid): Must contain the structured price schedule reflecting comprehensive itemized rates inclusive of all processing, sample preparation, logistics, and data delivery costs under the contract.

- Master Enclosing Envelope: Both Envelope A and Envelope B must be sealed inside a single master envelope super-scribed with the Tender Reference Number, Subject, and Due Date (06-November-2026), and dispatched to the Institute via Speed Post/Registered Post or hand-delivered.

Procurement Guidelines & Governance (GFR 2017 & Manual for Procurement of Services):

1. This tender establishes a 3-year Contract where services will be requisitioned on a demand basis as per institutional research requirements.

2. Price Reasonableness & Transparency: In alignment with the Manual for Procurement of Consultancy & Other Services, cost estimates have been benchmarked against prevailing market rates for high-resolution Orbitrap mass spectrometry services.

3. EMD & PBG Governance: Governed strictly under GFR 2017 Rule 170 (Bid Security) and Rule 171 (Performance Security). EMD is mandatory unless exempted under MSME/Startup provisions.

आई.सी.एम.आर. राष्ट्रीय महिला स्वास्थ्य अनुसंधान संस्थान
(पूर्व नाम आई.सी.एम.आर. - एन.आई.आर.आर.सी.एच.), मुंबई
स्वास्थ्य अनुसंधान विभाग,
स्वास्थ्य एवं परिवार कल्याण मंत्रालय, भारत सरकार
ICMR National Institute for Research on Women's Health
(Formerly known as ICMR-NIRRCH), Mumbai
Department of Health Research,
Ministry of Health and Family Welfare, Govt. of India

Detailed Scope of Work & Technical Specifications

Specifications for Plasma Proteomics and Data Analysis

Total number of samples = 40 (plasma sample will be provided)

1. The service provider must have advanced in-house Mass Spec facility based in India as per the Tender requirements.
2. Sample shipping costs shall be borne by the service provider. Samples must be transported on dry ice, with a maximum transit time of 1–2 days.
3. Sample preparation shall be performed by the service provider using its established in-house workflow, including validated protein depletion for removal of highly abundant plasma proteins, including albumin and immunoglobulins, trypsin digestion, peptide desalting, and KingFisher-based magnetic nano-bead enrichment and cleanup. The complete sample preparation workflow shall be performed by the service provider prior to LC-MS/MS analysis.
4. Hardware: Label Free DIA analysis of samples including protease digestion and proteome analysis on nano-UHPLC chromatography and profiling using high-resolution Thermo Orbitrap Exploris-480 Mass Spectrometer.
5. MS Data resolution: Minimum MS1 high resolution of 120000 and MS2 resolution of 30000.
6. Machine sensitivity shall be assessed using an appropriate plasma control sample, demonstrating identification of approximately 2,000 proteins. The sensitivity data shall be reported along with the results, and the control sample shall be analysed prior to the acquisition of each batch.
7. Data analysis:
    a. Raw data must be searched with minimum MS1 tolerance of 10 ppm and MS2 tolerance from 0.02 Da.

b. The False discovery rate for identifying the proteins should not exceed 1%.

c. Differential Protein Expression Analysis using t-test or ANOVA, ontology, bioinformatics analysis and high-resolution publication quality figures must be provided in the report.

d. Uniquely identified proteins sheet for each sample condition.

e. Gene Ontology enrichment annotations: Biological processes, Molecular functions, Cellular components.

f. Data visualization on statistically significant proteins including Heatmap, Correlation plot, Volcano plot, PCA etc.

g. Presentation on data analysis

8. Complete data analysis support along with raw files submission to database repository.

9. Compiled material and methods for publication support as per international standards according to satisfaction of the PI

10. Samples will be sent over the course of 3 years, and the service provider will be required to provide the data for all samples, including intra-group and inter-group analyses, at the end of the 3rd year.

RESULT DELIVERY TIME: Within 3-4 weeks after QC qualified sample submission.

11. The complete scope of work should be done by the service provider within India.

12. The service provider /Service provider should have demonstrated scientific capability for undertaking proteomics project, by providing work/purchase orders from recognized Government research organizations in the past 2 years and its successful completion as evidenced by relevant publications is desirable.

13. The details of progress of experiment should be intimated to the customer/scientist and further processing in case of any issues shall be based on the instructions of the customer only.

Specifications for Metabolomics and Data Analysis

Total number of samples = 40 (plasma samples will be provided)

1. The service provider must have an in-house MS facility based in India as per the tender requirements.

2. Sample shipping costs shall be borne by the service provider. Samples must be transported on dry ice, with a maximum transit time of 1–2 days.

3. Sample Preparation: Plasma samples shall be processed by the service provider using

well-established and validated protocols for untargeted metabolomics analysis.

4. **Hardware:** Metabolomics analysis of organically extracted plasma samples using DDA analysis in both positive and negative ionization modes, using Thermo UHPLC-based microflow separation coupled with Orbitrap Exploris 480 mass spectrometer (Thermo Fisher Scientific) in triplicates.

5. **MS Data Resolution:** Minimum MS1 resolution of 1,20,000 and MS2 resolution of 30,000.

6. QC samples shall be distributed evenly throughout the analytical batches to monitor instrument performance and analytical consistency. Blank samples shall be acquired after each sample injection to monitor and minimize carryover, contamination, and other potential analytical issues.

7. **Data Analysis:**

a. Raw data shall be processed and analyzed using Compound Discoverer software with appropriate data-processing parameters.

b. Raw data must be processed using appropriate search engines/databases with a minimum MS1 mass tolerance of 5 ppm and MS2/fragment ion mass tolerance of 10 ppm.

c. Suitable Quality Control (QC) and blank samples shall be incorporated into the analysis to assess data quality, consistency, background signals, and potential contamination.

d. Differential metabolite analysis using t-test or ANOVA, pathway/ontology and bioinformatics analysis, along with high-resolution, publication-quality figures, must be provided in the report.

f. Metabolite/pathway enrichment analysis and functional annotation must be provided.

g. Data visualization of statistically significant metabolites/features, including heatmap, correlation plot, volcano plot, PCA, etc.

h. A presentation on the data analysis must be provided.

8. Complete data analysis support, along with submission of raw files to an appropriate database repository, should be provided.

9. Compiled materials and methods for publication support, as per international standards and according to the satisfaction of the PI, should be provided.

RESULT DELIVERY TIME: Within 3-4 weeks after QC qualified sample submission.

10. The complete scope of work should be carried out by the service provider within India.

11. The service provider /Service provider should have demonstrated scientific capability for undertaking proteomics project, by providing work/purchase orders from recognized

Government research organizations in the past 2 years and its successful completion as evidenced by relevant publications is desirable.

12. Samples will be sent over the course of 3 years, and the service provider will be required to provide data for all samples, including intra-group and inter-group analyses, at the end of the 3rd year.

13. The details of progress of experiment should be intimated to the customer/scientist and further processing in case of any issues shall be based on the instructions of the customer only.

Specifications for BEV proteomics and data analysis.

Total number of samples = 10 (purified bacterial extracellular vesicle (BEV) (samples will be provided).

1. The service provider must have an established in-house mass spectrometry and proteomics facility based in India, with capability for sample preparation, LC–MS/MS analysis, quality control and bioinformatics.

2. Purified BEV samples will be provided by the indentor. The service provider shall specify sample input requirements, minimum protein quantity, acceptable sample buffer, storage conditions and shipping requirements before sample submission. Shipping arrangements and costs shall be clearly stated in the quotation, and samples must be transported under appropriate conditions to preserve sample integrity.

3. Protein extraction and solubilization shall be performed by the service provider using a validated workflow suitable for BEV samples. The workflow may include an appropriate detergent/chaotropic extraction buffer, protease inhibitors, sonication or an equivalent method for complete protein solubilization, and clarification by centrifugation. The extraction method and any deviations shall be documented. Protein estimation shall be performed using a validated method compatible with the selected workflow.

4. In-solution protein digestion shall be performed using a validated bottom-up proteomics workflow, such as S-Trap-based preparation or an equivalent method. The workflow shall include protein reduction, alkylation, enzymatic digestion using trypsin and/or Lys-C, peptide recovery and desalting/cleanup. The provider shall specify the minimum protein input required and the digestion conditions in the quotation or method report.

5. Peptides shall be analyzed by high-resolution liquid chromatography–tandem mass spectrometry (LC–MS/MS) using a nano-UHPLC or equivalent high-performance liquid chromatography system coupled to a high-resolution mass spectrometer, such as a Thermo Q Exactive HF/Exploris series or an equivalent instrument. The bidder shall specify the instrument model, acquisition mode and chromatographic method. Data-dependent acquisition (DDA) or data-independent acquisition (DIA) may be proposed, with the chosen approach clearly stated.

6. The LC–MS/MS method shall provide suitable peptide separation and mass-

spectrometric coverage for comprehensive BEV protein profiling. The service provider shall state the expected LC gradient/run time, analytical column specifications, mass resolution and acquisition parameters. Equivalent high-resolution platforms may be considered if their suitability is documented.

7. System suitability and quality control shall be performed for the analytical batch. The service provider shall prepare and analyze a pooled QC sample generated from aliquots of the study samples, where sample quantity permits, and shall provide the raw data files and results for all pooled QC injections. Appropriate reference protein digest and/or system-suitability standards, such as iRT peptides where applicable, shall also be used. QC injections shall be performed at appropriate points in the batch, including before and after the sample set where applicable. The QC injection plan and acceptance criteria shall be documented in the report.

8. Data processing and protein identification shall be performed using validated proteomics software, such as MaxQuant or an equivalent platform. The database used for searching shall be appropriate to the source organism(s) of the BEVs and shall be documented. Search parameters, enzyme specificity, mass tolerances, fixed and variable modifications, and protein-inference criteria shall be stated in the report. Protein and peptide identification false discovery rates shall be controlled at 1% or less, where supported by the analysis workflow.

Data analysis and reporting requirements:

a. Protein identification and quantification results for each of the 10 samples, including protein identifiers, protein descriptions, peptide evidence and quantitative values, as supported by the acquisition method.

b. All raw mass spectrometry data files for each sample and all pooled quality-control (QC) sample runs shall be provided to the indentor in the original vendor format, together with processed output files, protein/peptide identification tables and relevant search-result files.

c. Quality-control report summarizing instrument performance, sample-wise identification metrics, peptide/protein identification counts and any sample or batch limitations.

d. Functional annotation and Gene Ontology analysis, including biological process, molecular function and cellular component, where supported by the organism database and identified proteins.

e. Protein abundance visualization and comparative analysis, where the experimental design and available biological replicates support statistical testing. Figures may include heatmaps, principal component analysis (PCA), correlation plots and volcano plots, as appropriate.

f. Differential protein abundance analysis using an appropriate statistical method, such as a t-test or ANOVA, with multiple-testing correction where applicable. The provider shall not perform inferential statistical comparisons between groups without a suitable replicate structure and a clearly defined experimental design.

g. Identification of proteins of potential biological interest, including vesicle-associated, membrane-associated, virulence-associated and immunologically relevant proteins, where annotations and evidence support such classification.

h. High-resolution, publication-quality figures and a compiled methods section suitable for manuscript preparation, subject to review and approval by the Principal Investigator.

10. The service provider shall confirm sample receipt and quality requirements before commencing analysis. Any insufficient sample quantity, sample loss, failed quality-control result, need for repeat injection or deviation from the agreed workflow must be communicated to the indentor before further processing or additional charges are incurred.

RESULT DELIVERY TIME:

11. The service provider shall specify the expected turnaround time in the quotation. Final raw data, processed data, quality-control reports and the complete analysis report shall be delivered within the mutually agreed timeline after sample acceptance.

12. The complete scope of work, including sample preparation, mass spectrometry acquisition and data analysis, shall be carried out within India.

13. The service provider should demonstrate relevant experience in LC–MS/MS-based proteomics and bioinformatics and provide details of comparable completed projects, work orders from recognized research organizations and/or relevant publications.

14. The service provider shall provide updates on the progress of sample preparation, instrument acquisition and data analysis. Further processing, repeat analysis or any deviation from the agreed scope shall be undertaken only after approval from the indentor/Principal Investigator.

15. Any additional services, including targeted proteomics, phosphoproteomics, intact-protein analysis, metabolomics, transcriptomics or external database deposition, shall be quoted separately if required. Data deposition shall be undertaken only after agreement on the repository, metadata and submission responsibilities.

Sample Quantity Clause

The quantities of samples mentioned (e.g., 40 samples for Proteomics and 40 samples for Metabolomics) are indicative estimates and may be increased up as per institutional research requirements during the 3-year period of the Contract. The successful service provider shall be bound to supply/process additional samples, if requisitioned, at the **same unit rates** and under the same terms and conditions as quoted in the financial bid. Quoted rates shall remain firm, fixed, and non-escalable throughout the entire 3-year duration of the contract.

Technical Bid Checklist & Mandatory Compliance Forms

Bidders must print this checklist on their official letterhead, sign, stamp, and enclose it inside Envelope A (Technical Bid) along with the EMD Demand Draft and supporting documents. Non-submission of any mandatory document will result in summary technical disqualification.

Document Description / Requirement	Compliance Ref / Standard	Status (Attached Yes/No)
Earnest Money Deposit (EMD) DD	Rs. 44,000/- via Demand Draft (in favor of Director, ICMR-NIRWoH, Mumbai) enclosed in separate envelope with "EMD DD" clearly written on it; OR valid Udyam/Startup exemption certificate + Bid Security Declaration	
Experience Proof	Copies of satisfactory work/purchase orders from recognized Government research organizations or academic institutes in the past 2 years	
In-House Facility Proof	Documentary evidence of possessing an advanced in-house Mass Spectrometry facility (Orbitrap Exploris 480 or equivalent) based in India	
Statutory Registrations	Copy of PAN Card and GST Registration Certificate	
No-Blacklisting Undertaking	Self-declaration on company letterhead (Annexure-A)	
Bid Security Declaration	Mandatory for MSEs/Startups claiming EMD exemption in lieu of cash EMD (Annexure-B)	
Entity Legal Documents	Partnership Deed / Certificate of Incorporation / Proprietorship Undertaking & Shop/Establishment License	

Date & Place:

Authorized Signatory Name & Designation:

Signature with Official Seal: _____

Financial Bid Schedule & Commercial Terms

Bidders must print this price schedule on their official letterhead, sign, stamp, and enclose it inside Envelope B (Financial Bid) strictly in accordance with the format given below:

Item No.	Description of Services	Estimated Qty	Unit Rate (INR)	GST (%)	Total Amount (INR) inclusive of GST
1	Plasma Proteomics and Data Analysis	40 Samples			
2	Metabolomics and Data Analysis	40 Samples			
3	BEV proteomics and data analysis	10 Samples			
Total	Grand Total Comprehensive Cost for Evaluation (L1 Basis)				₹ [Insert Total]

Financial Commercial Conditions:

1. Contract Basis: Prices quoted shall remain valid and firm for orders placed on demand over the 3-year contract duration.
2. All quoted prices shall be inclusive of all sample preparation reagents, consumables, mass spectrometry acquisition, bioinformatics analysis, and secure data repository transfer.
3. Lowest evaluated bidder (L1) determination: Evaluation shall be performed based on the grand total comprehensive cost across all scheduled items.
4. Price Firmness: Quoted rates shall remain firm and fixed throughout the 3-year duration of the contract without escalation.

Date & Place:

Authorized Signatory Name & Designation:

Signature with Official Seal: _____

Proforma Declarations & Annexures

Annexure-A: Self-Declaration - No Blacklisting

(To be submitted on the official letterhead of the Service Provider)

In response to the Tender Document for the Procurement of Proteomics and Metabolomics Services (Tender Ref: S/2026-27/CSB/483/AB), I/We hereby declare that our firm [Name and Address of Bidder] maintains an unblemished record and has not been declared ineligible for corrupt or fraudulent practices, nor is presently blacklisted or debarred by any State/Central Government, Public Sector Undertaking (PSU), or Autonomous Body on the date of bid submission.

We further declare that if this declaration is found to be incorrect at any stage, our security deposit / EMD may be forfeited in full, our bid cancelled, and the firm debarred from participating in future tenders at ICMR-NIRRCH and allied institutes, in compliance with GFR provisions.

Date & Place:

Authorized Signatory Name & Designation:

Signature with Official Seal: _____

Annexure-B: Bid Security Declaration (In lieu of EMD for MSEs / Startups)

(To be submitted on the official letterhead of the Service Provider)

Whereas, I/We [Name of Agency] have submitted bids for the Procurement of Proteomics and Metabolomics Services (Tender Ref: S/2026-27/CSB/483/AB), I/We hereby submit the following declaration in lieu of submitting Earnest Money Deposit (EMD), pursuant to GFR Rule 170 exemption provisions:

(1) If after the opening of the bid, I/We withdraw or modify my/our bid during the period of validity specified in the bid documents; OR

(2) If, after the award of work, I/We fail to sign the contract or submit the Performance Bank Guarantee (PBG) before the deadline defined in the bid documents,

I/We shall be suspended for a period of one year and shall not be eligible to bid for ICMR tenders from the date of issue of the suspension order.

Date & Place:

Authorized Signatory Name & Designation:

Signature with Official Seal: _____