



Bid Number/बोली क्रमांक (बिड संख्या): GEM/2024/B/510

Dated/दिनांक : 29-06-

Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	20-07-2024 17:00:00
Bid Opening Date/Time/बिड खुलने की तारीख/समय	20-07-2024 17:30:00
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	180 (Days)
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Agriculture And Farmers Welfare
Department Name/विभाग का नाम	Department Of Agricultural Research And Education (dare)
Organisation Name/संगठन का नाम	Indian Council Of Agricultural Research (icar)
Office Name/कार्यालय का नाम	Icar-nrc On Pig, Rani, Guwahati-781131, Assam
Item Category/मद केटेगरी	Custom Bid for Services - Analysis of changes in protein metabolites and microbial load in pork from two different indigenous pig breeds during ageing
Contract Period/अनुबंध अवधि	3 Month(s)
MSE Exemption for Years Of Experience/अनुभव के वर्षों से एमएसई छूट/ and Turnover/टर्नओवर के लिए एमएसई को छूट प्राप्त है	Yes
Startup Exemption for Years Of Experience/अनुभव के वर्षों से स्टार्टअप छूट/ and Turnover/ टर्नओवर के लिए स्टार्टअप को छूट प्राप्त है	Yes
Document required from seller/विक्रेता से मांगे गए दस्तावेज़	Experience Criteria,Bidder Turnover,Certificate (Requested in ATC) *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by buyer
Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया	No
Type of Bid/बिड का प्रकार	Two Packet Bid
Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय	2 Days
Evaluation Method/मूल्यांकन पद्धति	Total value wise evaluation

EMD Detail/ईएमडी विवरण

Required/आवश्यकता	No
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ePBG Detail/ईपीबीजी विवरण

Required/आवश्यकता	No
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Splitting/विभाजन

Bid splitting not applied/बोली विभाजन लागू नहीं किया गया.

MII Compliance/एमआईआई अनुपालन

MII Compliance/एमआईआई अनुपालन	Yes
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MSE Purchase Preference/एमएसई खरीद वरीयता

MSE Purchase Preference/एमएसई खरीद वरीयता	Yes
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1. If the bidder is a Micro or Small Enterprise as per latest definitions under MSME rules, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
2. If the bidder is a Startup, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to their meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
3. Purchase preference will be given to MSEs having valid Udyam Registration and whose credentials are validated through Udyam Registration portal as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail themselves of the Purchase preference, the bidder must be manufacturer / OEM of the offered product on GeM. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises and hence resellers offering products manufactured by some other OEM are not eligible for any purchase preference. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service and Buyer will decide eligibility for purchase preference based on documentary evidence submitted, while evaluating the bid. If L-1 is not an MSE and MSE Seller (s) has / have quoted price within L-1+ 15% (Selected by Buyer) margin of purchase preference /price band defined in relevant policy, such MSE Seller shall be given opportunity to match L-1 price and contract will be awarded for % (selected by Buyer) percentage of total quantity. The buyers are advised to refer the OM No. F.1/4/2021-PPD dated 18.05.2023 [OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017. Benefits of MSE will be allowed only if seller is validated on-line in GeM portal as well as validated and approved by Buyer after evaluation of documents submitted.
4. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which will be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received.

Bid / RA process.

Additional Qualification/Data Required/अतिरिक्त योग्यता /आवश्यक डेटा

Scope of Work:[1719644956.pdf](#)

Payment Terms:[1719644964.pdf](#)

GEM Availability Report (GAR):[1719644973.pdf](#)

Undertaking of Competent Authority is mandatory to create Custom Bid for Services. Please download standard format document and upload:[1719644980.pdf](#)

**Custom Bid For Services - Analysis Of Changes In Protein Metabolites And Microbial Load i
Pork From Two Different Indigenous Pig Breeds During Ageing (1)**

Technical Specifications/तकनीकी विशिष्टियाँ

Specification	Values
Core	
Description /Nomenclature of Service Proposed for procurement using custom bid functionality	Analysis of changes in protein metabolites and microbial load i pork from two different indigenous pig breeds during ageing
Regulatory/ Statutory Compliance of Service	YES
Compliance of Service to SOW, STC, SLA etc	YES
Addon(s)/एडऑन	

Additional Specification Documents/अतिरिक्त विशिष्टि दस्तावेज़

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी

S.No./क्र.सं	Consignee Reporting/Officer/परेषिती/रिपोर्टिंग अधिकारी	Address/पता	The quantity of procurement "1" indicates Project based or Lumpsum based hiring.	Additional Requirement/अतिरिक्त आवश्यकता
1	Rajendran Thomas	781131,ICAR- NATIONAL RESEARCH CENTRE ON PIG, RANI, GUWAHATI	1	N/A

Buyer Added Bid Specific Terms and Conditions/क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें

1. Generic

OPTION CLAUSE: The buyer can increase or decrease the contract quantity or contract duration up to 25 perc at the time of issue of the contract. However, once the contract is issued, contract quantity or contract durati

can only be increased up to 25 percent. Bidders are bound to accept the revised quantity or duration

2. Buyer Added Bid Specific ATC

Buyer Added text based ATC clauses

Gem Bid Document for Analysis of changes in protein, metabolites and microbial load in pork from two different indigenous pig breeds during ageing

The specifications are mentioned hereunder:

Nature of work	: Service
Number of planned samples for studies	: 12 samples

Part 1: Changes related to microbial load in pork (metagenomic analysis)

1. The firm should carry out the extraction and amplification of nucleic acid from the samples provided in the laboratory.
2. Complete taxonomy for bacterial, fungal, archaea and protozoa including viruses. Gene abundance annotation, assembly and KEGG & COG pathway analysis.
3. Analysis of abundance and prevalence of operational taxonomic units; α and β diversity analysis including principal coordinate analysis; principal component analysis plots; preparation of heat maps; phylogenetic tree construction, Korona chart, Pie chart, Bar plot and comparative analysis among the samples.
4. Shall generate at least 10GB data with 2 libraries for 300-500bp and 1kb to 1.5kb insert size.
5. Online data and reports should be presented to the client after the completion of the project.

Part 2: Changes related to metabolites in pork during ageing (metabolomic analysis)

1. Raw data generation, ideally on Nanoscale liquid chromatography coupled to tandem mass spectrometry (nano LCMS/MS)/GC MS/QTOF/ORBITRAP with minimum 5000 metabolite identification.
2. Extraction of metabolites should be done using standard protocols and should be carried out using a combination of solvents to extract maximum metabolites.
3. Amino acid, fatty acid, carbohydrate, secondary and primary metabolites identification have to be performed separately.
4. Negative and Positive ion capture and analysis has to be performed separately.
5. Method development and validation is must to do before samples processing.
6. For the detection of specific metabolites, multiple reaction monitoring approach should be adopted and samples should be compared with a calibration curve.
7. Expression studies and quantification need to be done for significant metabolites. The bidder/firm has to provide all the standards required for analysis.
8. Data normalization should be done before calculating differential abundance of metabolites across samples. Mass spectrometry data analysis should be carried out to identify metabolites by searching against custom and global databases for making meaningful interpretation.
9. Data analysis should be carried out using appropriate software's to get meaningful information of the identified metabolites. Customized databases should also be included. More than 3 different data bases should be included in analysis.
10. Comparative analysis of the results with all pictorial representation needs to be done.
11. Integration studies with Metagenomics and Proteomics data need to be done during comparative analysis.
12. Heatmap, density curve, hierarchical cluster analysis of differently abundant metabolites, fold change expression, volcano plot, Circos plot, Differential regulation of metabolites, PCA plot, PLS-DA plots, OPLS-DA plots, permutation validation plots, STRING analysis etc. of the identified metabolites should be provided in the complete analysis report.

13. Online data and reports should be presented to the client after the completion of the project.

Part 3: Changes related to proteins in pork during ageing (proteomics analysis)

1. Raw data generation on LCMS/MS/QTOF/ORBITRAP with more than 5 GB data per sample.
2. Whole proteins present in the samples need to capture for label free quantification (LFQ) studies.
3. Extraction of proteins should be done using standard protocols and should be carried out using a combination of solvents to extract maximum proteins.
4. The analysis shall cover all major contractile proteins, cytoskeletal proteins, sarcoplasmic proteins and small proteins. The bidder/firm has to provide all the standards required for analysis.
5. Method development and validation is must to do before samples processing.
6. Data analysis should be carried out using appropriate software's to get meaningful information of the red proteins. Customized databases should also be included.
7. Shall perform expression studies and comparative studies including expression fold change, annotation, heat map, volcano plot, PCA plots, PLS-DA, ven diagrams indicating the number of proteins identified etc.
8. Shall perform KEGG pathway of selected and significant proteins need to be done.
9. Online data and report should be presented to the client after the completion of the project.
10. Shall perform correlation studies of Metabolites, Proteomics and Metagenomics data for each sample separately and in combinations.

General specifications

1. Firm should perform repeat testing of samples which fails QC and/or on producing unsatisfactory results at a reasonable cost.
2. Sample collection and appropriate transportation should be performed by the firm/bidder from the laboratory at ICAR-NRC on Pig.
3. The firm should undertake the extraction of nucleic acid/metabolites/proteins from the samples provided by the laboratory using standard protocols.
4. Service provider must have facility for the quoted service and bioinformatics team for analysis of data. The institute reserves the right to verify the facility and if required may visit to bidders' facility.

PREPARATION OF TECHNICAL BID

The Technical bid shall contain following documents failing which the bids will be considered invalid and will be rejected.

1. Information schedule as per enclosed performa **(Annexure-I)**

2. Copy of TAN/PAN card.
3. Copy of GST certificate.
4. Trade License/Registration Certificate/MSME Registration Certificate.
5. Annual Turnover Certificate of the last 3 years. The average annual turnover shall be of atleast 3 **er MSE category, only manufacturers for goods and Service Providers for Services are r exemption for submission of Annual Turnover. Traders are excluded from the purview olicy.)**
6. Submit/Upload at least 01 Number (one number) of work order awarded for similar work from an /University/Autonomous bodies/Reputed Companies. The experience criteria is exempted to MSME ms as per the rules. **Under MSE category, only manufacturers for goods and Service Pro Services are eligible for exemption for submission of work order copy. Traders are ex m the purview of this Policy.**
7. The bidder should submit the compliance statement in the prescribed format as per **Annexure-II**
8. **Tender Acceptance Letter in the prescribed format as per Annexure-III.**

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PREPARATION OF FINANCIAL BID

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Firm shall quote rates which shall be inclusive of all labour cost, material/spare cost, transportation & eyance charges, administrative charges, monitoring and supervisory charges, agency profit, GST/Tax C.

Sd/-

Asstt. Administrative Officer

ANNEXURE-I

Information Schedule

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(Shall be submitted by the bidder in their letter head)

1.	Name of the Firm/Agency.	
2.	Address with Tel. No./Fax/E-mail.	
3.	Contract Person Name and Mobile No.	
4.	Bank Account No. Branch Code Bank Name	
5.	Whether all 8 Nos of documents as required/mentioned in Preparation of Technical Bids are uploaded/submitted.	Yes/No
6.	Whether the firm has any legal suit/criminal case pending against it or contemplated against them. If Yes, details thereof	Yes/No
7.	Whether the Agency had been blacklisted by any organization. If Yes, details thereof.	Yes/No

I/ we hereby certify that the information furnished above is correct and true to the best of our knowledge. We understand that in the event of information being found false at any stage, the agency will be blacklisted and will have no dealing with ICAR, Institutes.

Signature and Seal of the E

ANNEXURE II
Compliance statement in the prescribed format

Technical Specification of the Work	Number of Planned Samples for Studies	Complied to the required specification (Yes/No)	Difference/Discrepancy if any
<p>Part 1: Changes related to microbial load in pork (metagenomic analysis)</p> <p>The firm should carry out the extraction and amplification of nucleic acid from the samples provided by the laboratory.</p> <p>Complete taxonomy for bacterial, fungal, archaea and protozoa including viruses. Gene abundance and annotation, assembly and KEGG & COG pathway analysis.</p> <p>Analysis of abundance and prevalence of operational taxonomic units; α and β diversity analysis including principal coordinate analysis; principal component analysis plots; preparation of heat maps; phylogenetic tree construction, Krona chart, Pie chart, Bar plot and comparative analysis among the samples.</p> <p>Shall generate at least 10GB data with 2 libraries for 300-500bp and 1kb to 1.5kb insert size.</p> <p>Online data and reports should be presented to the client after the completion of the project.</p> <p>Part 2: Changes related to metabolites in pork during ageing (metabolomic analysis)</p> <p>Raw data generation, ideally on Nanoscale liquid chromatography coupled to tandem mass spectrometry (nano LCMS/MS) /GC MS/QTOF/ORBITRAP with minimum 5000 metabolite identification.</p> <p>Extraction of metabolites should be done using standard protocols and should be carried out using a combination of solvents to extract maximum metabolites.</p>	12		

Amino acid, fatty acid, carbohydrate, secondary and primary metabolites identification have to be performed separately.

Negative and Positive ion capturization and analysis has to be performed separately.

Method development and validation is must to do before samples processing.

For the detection of specific metabolites, multiple reaction monitoring approach should be adopted and samples should be compared with a calibration curve.

Expression studies and quantification need to be done for significant metabolites. The bidder/firm has to provide all the standards required for analysis.

Data normalization should be done before calculating differential abundance of metabolites across the samples. Mass spectrometry data analysis should be carried out to identify metabolites by searching against custom and global databases for making meaningful interpretation.

Data analysis should be carried out using appropriate software's to get meaningful information of the desired metabolites. Customized databases should also be included. More than 3 different data bases should be included in analysis.

Comparative analysis of the results with all pictorial representation needs to be done.

Integration studies with Metagenomics and Proteomics data need to be done during comparative analysis.

Heatmap, density curve, hierarchical cluster analysis of differentially abundant metabolites, foldchange expression, volcano plot, Circos plot, Differential regulation of metabolites, PCA plot, PLS-DA plots, OPLS-DA plots, permutation validation plots, STRING analysis etc. of the identified metabolites should be provide with the complete analysis report.

Online data and reports should be presented to the client after the completion of the project.

Part 3: Changes related to proteins in pork during aging (proteomics analysis)

Raw data generation on LCMS/MS/QTOF/ORBITRAP with more than 5 GB data per sample.

Whole proteins present in the samples need to capture for label free quantification (LFQ) studies.

Extraction of proteins should be done using standard protocols and should be carried out using a combination of solvents to extract maximum proteins.

The analysis shall cover all major contractile proteins, cytosk

keletal proteins, sarcoplasmic proteins and stromal proteins. The bidder/firm has to provide all the standards required for analysis.

Method development and validation is must to do before samples processing.

Data analysis should be carried out using appropriate software's to get meaningful information of the desired proteins. Customized databases should also be included.

Shall perform expression studies and comparative studies including expression fold change, annotation, heat map, volcano plot, PCA plots, PLS-DA, ven diagrams indicating the number of proteins identified etc.

Shall perform KEGG pathway of selected and significant proteins need to be done.

Online data and report should be presented to the client after the completion of the project.

Shall perform correlation studies of Metabolites, Proteomics and Metagenomics data for each sample separately and in combinations.

General specifications

Firm should perform repeat testing of samples which fails QC and/or on producing unsatisfactory results, free of cost.

Sample collection and appropriate transportation should be performed by the firm/bidder from the laboratory at ICAR-NRC on Pig.

The firm should undertake the extraction of nucleic acid/metabolites/proteins from the samples provided by the laboratory using standard protocols.

Service provider must have facility for the quoted service and a bioinformatics team for analysis of data. Institute reserves the right to verify the facility and if required may visit to bidders' facility.

Signature and Seal of the Bidder
Business Address:

**ANNEX
URE-III**

TENDER ACCEPTANCE LETTER

(Shall be submitted by the bidder in their letter head)

Date:

To,

**The Director,
ICAR-NRC on Pig
Rani, Guwahati -781131
Assam**

Dear Sir,

The Bid documents/corrigendum(s) issued for Analysis of changes in protein, metabolites and microad in pork from two different indigenous pig breeds during ageing by your department/organization have been taken into consideration, while submitting this acceptance letter.

I/We hereby unconditionally accept all the tender/bid terms & conditions as mentioned in tender/bid document(s)/ corrigendum (s) in its totality/entirety.

I/We do hereby declare that our Firm has not been blacklisted/debarred by any Govt. Department/Publisher undertaking.

I/We certify that all information furnished by our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the fully said earnest money deposit absolutely.

Signature and Seal of the E

Business Ad

3. Buyer Added Bid Specific ATC

Buyer uploaded ATC document [Click here to view the file.](#)

Disclaimer/अस्वीकरण

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. If clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category in which it is bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for [attached categories](#), trials are allowed as per approved procurement policy of the buyer nodal Ministries)

9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.
15. Any ATC clause in contravention with GeM GTC Clause 4 (xiii)(h) will be invalid. In case of multiple L1 bidders against a service bid, the buyer shall place the Contract by selection of a bidder amongst the L-1 bidders through Random Algorithm executed by GeM system.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this they can raise their representation against the same by using the Representation window provided in the bid details in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to such representations and would not be allowed to open bids if he fails to reply to such representations.

This Bid is governed by the [General Terms and Conditions/सामान्य नियम और शर्तें](#), conditions stipulated in Bid and [Service Level Agreement](#) specific to this Service as provided in the Marketplace. However in case if any condition specified in General Terms and Conditions/सामान्य नियम और शर्तें is contradicted by the conditions stipulated in Service Level Agreement, then it will over ride the conditions in the General Terms and Conditions.

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance with this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी द्वारा पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।

---Thank You/धन्यवाद---