



Bid Number: GEM/2022/B/2773922

Dated: 23-11-2022

**Bid Document**

<b>Bid Details</b>	
<b>Bid End Date/Time</b>	08-12-2022 18:00:00
<b>Bid Opening Date/Time</b>	08-12-2022 18:30:00
<b>Bid Offer Validity (From End Date)</b>	120 (Days)
<b>Ministry/State Name</b>	Ministry Of Health And Family Welfare
<b>Department Name</b>	Department Of Health Research
<b>Organisation Name</b>	Indian Council Of Medical Research (icmr)
<b>Office Name</b>	Icmr-rmrims Patna
<b>Item Category</b>	Custom Bid for Services - Transcriptome sequencing
<b>Contract Period</b>	6 Month(s)
<b>Minimum Average Annual Turnover of the bidder (For 3 Years)</b>	19 Lakh (s)
<b>Years of Past Experience Required for same/similar service</b>	3 Year (s)
<b>MSE Exemption for Years Of Experience and Turnover</b>	Yes
<b>Startup Exemption for Years Of Experience and Turnover</b>	Yes
<b>Document required from seller</b>	Experience Criteria,Bidder Turnover,Certificate (Requested in ATC),Additional Doc 1 (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 the buyer
<b>Bid to RA enabled</b>	No
<b>Time allowed for Technical Clarifications during technical evaluation</b>	2 Days
<b>Evaluation Method</b>	Total value wise evaluation

**EMD Detail**

Required	No
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**ePBG Detail**

Required	No
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## Splitting

Bid splitting not applied.

## MSE Purchase Preference

MSE Purchase Preference	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. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
4. Years of Past Experience required: The bidder must have experience for number of years as indicated above in bid data sheet (ending month of March prior to the bid opening) of providing similar type of services to any Central / State Govt Organization / PSU / Public Listed Company. Copies of relevant contracts / orders to be uploaded along with bid in support of having provided services during each of the Financial year.
5. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs 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 the Purchase preference 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 service. If L-1 is not an MSE and MSE Service Provider (s) has/have quoted price within L-1+ 15% of margin of purchase preference /price band defined in relevant policy, then 100% order quantity will be awarded to such MSE bidder subject to acceptance of L1 bid price.
6. 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 would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

## Additional Qualification/Data Required

**Scope of Work:**[1669203223.pdf](#)

**Special Terms and Conditions (STC) of the Contract:**[1669203227.pdf](#)

**Payment Terms:**[1669203244.pdf](#)

**Service Level Agreement (SLA):**[1669203248.pdf](#)

**GEM Availability Report ( GAR):**[1669203705.pdf](#)

## Custom Bid For Services - Transcriptome Sequencing ( 1 )

## Technical Specifications

Specification	Values
<b>Core</b>	
Description /Nomenclature of Service Proposed for procurement using custom bid functionality	Transcriptome sequencing
Regulatory/ Statutory Compliance of Service	YES
Compliance of Service to SOW, STC, SLA etc	YES
<b>Addon(s)</b>	

### Additional Specification Documents

### Consignees/Reporting Officer

S.No.	Consignee/Reporting Officer	Address	The quantity of procurement "1" indicates Project based or Lumpsum based hiring.	Additional Requirement
1	Filomina Lakra	800007,Rajendra Memorial Research Institute of Medical Sciences, Agamkuan	1	N/A

### Buyer Added Bid Specific Terms and Conditions

1. Experience Certificate for the supply of the same to any Govt/ PSU/ any renowned private organisation along with Supply/ Purchase Order.
2. If the agency is registered under MSME or NSIC, then EMD exemption certificate needs to be enclosed.
3. **Generic**

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 50 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 50% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

4. **Buyer Added Bid Specific ATC**

Buyer Added text based ATC clauses

#### **Specifications for RNA/Transcriptome Sequencing Services**

1. Technology to be used: Illumina Novaseq-6000 (Attach installation certificate, vendor should have in-house sequencing facility in India and Illumina certified vendor certificate will be considered more competent than other with out

certification.

2. Application: Transcriptome/RNA Sequencing

3. Sample Type: Total RNA will be provided to the vendor

4. Ribo-depletion (rRNA): Yes

5. No of sample: 18

6. Vendor Should QC the sample to ensure optimal concentrations and purity.

- Qubit 1ug/20ul low TE buffer
- 260/280 Ratio: Above 2.0 and 260/230 Ratio: Above 1.0  
Quality control should be done using Bioanalyzer/ Tapestation and Nanodrop. Report of the same should be provided.

7. Library Type: Illumina RNA Seq library preparation.

8. Library QC need to be performed using Qubit/ Tape station for measuring the quality and quantity of the library before sequencing. Report on the same should be provided.

9. Read Length and Data: **150X2 to generate read at least 50x coverage per sample (≈ 6GB per single end read).**

10. At least ≥ 90% of the data should be >Q30 quality and >5GB clean data after adapter trimming.

11. All methods/kits followed to be disclosed by the company at the time of submitting the report.

12: Bioinformatics analysis should include entire analysis as below:

Bioinformatics Analysis for Transcriptome/RNA Sequencing: (The detailed bioinformatics pipeline including the softwares to be used should be mentioned in the quote; otherwise the bid will be solemnly rejected):

- Ø primary statistics report- QA/QC results should be generated using FASTQC Tool (FastQC is a reliable quality control tool designed to help verify the throughput sequence files and export the result in FastQ format)
- Ø Read alignment statistics report should be generated using HiSat Alignment Tool (Alignment program for mapping next generation sequencing)
- Ø Differential Gene Expression Reports using DeSeq Tool or DEseq2 whichever is applicable.
- Ø Transcript annotation results (Gene Ontology and pathway Analysis ) using Uniprot

/KEGG database and Gene set enrichment analysis (GSEA using latest updated Uniprot /KEGG database)

- Ø Under Gene ontology and pathway analysis the graphs for significantly enriched GO terms belonging to all three classes ( GO-MF , GO-BP, GO-CC) should be provided. Similarly, for pathways, graph has to be plotted for significantly enriched transcripts assigned to different pathways. Annotation should be performed with frequently updated databases
  - Ø Transcript wise expression matrix across all samples using HTSeq Tool to measure accurate read count.
  - Ø Heatmap generation using RScript tool (Rscript is the R Interpreter which helps in the sequential execution of R commands in the script file)
  - Ø PCA plots, hierarchical clustering, and t- SNE, volcano plots, MDS plot for graphical representation should be provide
  - Ø Protein Protein Interaction
  - Ø In addition to primary annotation, Uniport, ensemble ID annotation should be provided
  - Ø Bioinformatics analysis support should be given for correlation of the transcriptomic data with pre- existing published data -sets (RNA-seq).
  - Ø support for uploading data in required format in public databases
  - Ø Bioinformatics Analysis support should be given till the successful completion of the project (Maximum 6 months after submission of final data)
  - Ø File Type: The company need to submit .bed file as well as FASTQ files as raw data.
  - Ø A complete write-up of the methodology adopted for library preparation, QA/QC and all bioinformatics analysis need to be submitted with report.
  - Ø All the figures need to be submitted separately (300 dpi)
  - Ø At least 5 end-user satisfaction certificate.
13. Quotation should be on firms letter head with GST number PAN number and CST number mentioned clearly.
  14. MSME certificate for scientific research and development should be attached along with the quotation. (Preference will be given to MSME, as per Govt. of India rule)
  15. The vendor should take the responsibility to ship the sample from host institute to the sequencing center.
  16. The data should be provided through secure server and HDD only.
  17. Establishment of firm: Firm should be established in India minimum 6 years before with NGS lab and experience in handling NGS projects and successful completion (Testimonial should be provided). Please provide establishment of firm certificate along with tender documents.

#### 5. Buyer Added Bid Specific ATC

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

### Disclaimer

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization. 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 due to these ATCs and due to modification of technical specifications and/or terms and conditions governing the bid. Any clause incorporated by the Buyer such as demanding Tender Sample, incorporating any clause against the MSME policy and Preference to make in India Policy, mandating any Brand names or Foreign Certification, changing the default time period for Acceptance of material or payment timeline governed by OM of Department of Expenditure shall be null and void and would not be considered part of bid. Further any reference of conditions published on any external site or reference to external documents/clauses shall also be null and void. If any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations. Also, GeM does not permit collection of Tender fee / Auction fee in case of Bids / Forward Auction as the case may be. Any stipulation by the Buyer seeking payment of Tender Fee / Auction fee through ATC clauses would be treated as null and void.

This Bid is governed by the [General Terms and Conditions](#), 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 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 of 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.

**---Thank You---**