

**NOTIFICATION INVITING TENDER
DOCUMENT**

**RATE CONTRACT FOR DNA/RNA BASED
SEQUENCING AND METAGENOMIC WORKS**

**Last Date /time for submission of sealed tenders: 29.03.2021, 1700Hrs (IST)
Date/time of opening tenders: 30.03.2021, 1100Hrs (IST)**

Centre for Marine Living Resources and Ecology (CMLRE)

**Ministry of Earth Sciences
Govt.of India**

भारत सरकार
Government of India
पृथ्वी विज्ञान मंत्रालय
Ministry of Earth Sciences
समुद्री सजीव संसाधन एवं पारिस्थितिकी केंद्र
Centre for Marine Living Resources & Ecology
अटल भवन, एल एन जी रोड, पुतुवैप सौथ, ओचान्तुरुथ पी.ओ.
Atal Bhavan, LNG Road, Puthuyvype South, Ochanthuruth P.O.
कोच्चि/ Kochi- 682 508

संख्या/ No. MoES/CMLRE/22(MLRP)/REIS-COML/2i/2018

Dated: 05.03. 2021

NOTICE INVITING TENDER

The **Centre for Marine Living Resources and Ecology (CMLRE)** invites sealed quotations from the reputed firms for supply of following services **FOR A PERIOD OF ONE YEAR DURING 2021-22 UNDER RATE CONTRACT.**

- 1. Sanger based Sequencing:**
 - i. Barcoding of marine organisms with primer designing
(Potential genes mainly COI, 16S, 18S, 28S and ITS)
DNA Isolation, Primer design & Synthesis
Amplification
Purification & sequencing (F&R)
Phylogenetic analysis
 - ii. Barcoding of marine organisms without primer designing
DNA Isolation
Amplification
Purification & sequencing (F&R)
Phylogenetic analysis
- 2. Whole metagenomic sequencing (e-DNA studies)**
Approx. 6-9 GB of data
DNA Isolation, Library Preparation, Quality checking
Sequencing & Analysis
- 3. Metagenomic sequencing**
(Q3 70% read, Alpha and beta diversity analysis)
Metagenomics: (From DNA) V3- V4 HVRegion , 250X2 bp Reads, Minimum 50 K Reads with analysis
Metagenomics: (From DNA) ITS Region , 250X2 bp Reads, Minimum 50 K Reads with analysis
- 4. Bacterial Whole genome sequencing (From DNA)**
 - i. Reference based illumina short read chemistry >~1GB data
 - ii. Denovo -PacBio Sequencing >~4GB (1 smart cell)
 - iii. Long reads-Denovo) (Nanopore 0.5 GB data for bacteria)
 - iv. Hybrid assembly Illumina short reads ~1GB+ 0.5 GB Nanopore
- 5. Real Time based gene expression study**
 - i. From cell/ Tissue (Sybr green assay).
 - ii. From cell/ Tissue (Taq man assay).
- 6. Expression studies:**
 - i. Transcriptome data analysis
Transcriptome sequencing (From RNA)
Reference based 6 to 8GB data,
 - ii. Denovo Transcriptome Seq (From RNA) :6-8 GB data
 - iii. Whole Metatranscriptome seq : 8-10GB data
RNA Isolation - Library preparation, Sequencing and Analysis

TERMS AND CONDITIONS

- 1) The Quotations should be submitted in sealed covers, super scribing “**TENDER FOR DNA/RNA BASED SEQUENCING AND METAGENOMIC WORKS UNDER RATE CONTRACT- Not to be opened before 30.03.2021**” and addressed to **Director, CMLRE, Atal Bhavan, L.N.G. Road, Ochunthuruth.P.O., Puthuvypu, Kochi-682508**. Separate quotes should be made for each item of work under each category. **Quotation sent through fax/email will not be accepted.**
- 2) **Duly completed tenders should reach Director, CMLRE, Atal Bhavan, L.N.G. Road, Ochunthuruth.P.O., Puthuvypu, Kochi-682508 on or before 1700 hrs on 29.03.2021.** In the event of the date being declared as a closed holiday, the due date of closing of the tender will be the following working day at the prescribed time. Tenders received after the closing date and time will not be accepted under any circumstances.
- 3) **The tenders will be opened by a Committee constituted by Director, CMLRE in the presence of interested tenderers at CMLRE on 30.03.2021 at 1100 hrs.** In the event of the date being declared as a closed holiday, the due date for opening of the tender will be the following working day at the prescribed time.
- 4) The bidders are required to submit the following documents with their bids.
 - a) Copies of at least 3 rate contracts with any R&D institutes/ Universities during the last 3 years in respect of the brand.
 - b) Details of registration with CPO, DGS & D/ NSIC/ Ministry of Earth Sciences, in case the bidder is exempted from EMD.
 - c) The soft / hard copy of the price list / catalogue is to be enclosed with the tender.

The tender document has to be serially numbered and all documents as listed above are to be submitted as per the Annexure-I

- 5) The bidders (except those exempted from EMD) must pay the bid security for a value of Rs.3000/- (Rupees Three thousand only) through A/C payee demand draft drawn in favour of the Drawing and Disbursing Officer, CMLRE payable at Ernakulam from any scheduled commercial bank of India, failing which the bids will not be accepted. The EMD in respect of bidders who do not qualify shall be returned to them after the finalization of the tender. The EMD of successful bidders will be deposited with CMLRE as performance security deposit and will be returned on completion of rate contract without any interest.
- 6) The financial bid is to be submitted strictly as per the proforma given in **Annexure-II**.
- 7) No additional charges towards transport/ other service charges by whatsoever name called, shall be payable after entering into the rate contract. However if there is a downward price movement during the rate contract period, the firm under rate contract should pass on the advantage to CMLRE.
- 8) Rates quoted by the selected firm and approved by this office shall remain valid throughout the period of contract and request to increase the rate during the contract period shall not be considered. However, the firms may offer validity for rates quoted for more than a year also.
- 9) The soft/ hard copy of the price list/ catalogue is to be enclosed in the tender.
- 10) All entries in the tender form should be legible and filled clearly. Cutting, if any, must be initialed by the person authorized. **No over-writing or cutting is permitted in the price offered in Annexure-II. In such cases, the tender shall be summarily rejected.**

- 11) **Incomplete and conditional tenders will be summarily rejected. The tender should be signed by the authorized person of the bidder on each page and stamp of the firm affixed.**
- 12) Payment terms are normally within 30 days. However, all efforts will be made to effect the payment within stipulated time after the supply is completed and accepted by CMLRE. Payment against the bills/ invoice shall be released after successful delivery, inspection of the items and submission of original bill in duplicate.
- 13) **No advance payments will be made in any case. Payments will be made in INR (Indian Rupees) only.**
- 14) If any service provided is found to be of a substandard quality the same will be rejected and any loss caused shall be recovered from the firm and CMLRE reserves the right to cancel the service contract.
- 15) The rate contract can be terminated at any time by giving one month's notice from either side.
- 16) CMLRE reserves its right to enter into parallel rate contracts with different service providers.
- 17) All disputes arising in connection with the rate contract will be subject to the jurisdiction of the courts in Cochin.

TECHNICAL BID PROFORMA/FORMAT

To,

The Director,
 CMLRE, Atal Bhavan,
 L.N.G. Road, Ochunthuruth.P.O.,
 Puthuvypu, Kochi-682508

Sir,

Ref: Your tender Notice No.....dated.....

Sl. No	Particulars	Details	Documents enclosed at page No.
1	Name of Bidder		
2	Address of Bidder		
3	Contact details of Bidding firm	Tel No:	
		Fax No:	
		Mobile No:	
		E Mail:	
4	Name of the Proprietor/ Partners/ Directors of the bidding firm/ Agency		
5	Bidders Bank, its address and account number		
6	Registration/ /license particulars of the bidding firm (please enclose copies of relevant documents / certificates)		
7	Category of services being quoted	Category:	
8	Proof of high reputation of the service being quoted (3 or more rate contracts with any R&D institutes/ Universities (encloses copies of RC awarded))		
9	Has your firm been blacklisted by any other Government Department		
10	Details of Earnest Money Deposit		

Any other Information:

I/We hereby certify that the information furnished above is true and correct. The terms and conditions are acceptable to us. Dated

Authorized Signature and Seal of the Bidding Firm

FINANCIAL BID PROFORMA/FORMAT

To,

Director,
CMLRE, Atal Bhavan,
L.N.G. Road, Ochunthuruth.P.O.,
Puthuvypu, Kochi-682508

Sir

Ref: Your tender Notice No.....
dated.....

I/We having examined the tender document for **DNA/RNA BASED SEQUENCING AND METAGENOMIC WORKS UNDER RATE CONTRACT**, I/We the undersigned hereby offer to supply the Services as per terms and conditions set out in the tender document. In case of downward price movements during the period, we promise to pass on the advantage to CMLRE.

1	2	3	
A	Category of service	Rate	
		In figures	In words
(1)Sanger based Sequencing	(i) Barcoding of marine organisms with primer designing (Potential genes mainly COI, 16S, 18S, 28S and ITS) DNA Isolation, Primer design &Synthesis Amplification Purification & sequencing (F&R) Phylogenetic analysis		
	(ii) Barcoding of marine organisms without primer designing DNA Isolation Amplification Purification & sequencing (F&R) Phylogenetic analysis		
(2) Whole metagenomic sequencing (e-DNA studies)	Approx. 6-9 GB of data DNA Isolation, Library Preparation , Quality checking Sequencing & Analysis		
(3) Metagenomic sequencing	(Q3 70% read, Alpha and beta diversity analysis) Metagenomics: (From DNA) V3- V4 HVRegion , 250X2 bp Reads, Minimum 50 K Reads with analysis Metagenomics: (From DNA) ITS Region , 250X2 bp Reads, Minimum 50 K Reads with analysis		

(4) Bacterial Whole genome sequencing (From DNA)	(i) Reference based illumina short read chemistry >~1GB data (ii) Denovo -PacBio Sequencing >~4GB (1 smart cell) (iii) Long reads-Denovo) (Nanopore 0.5 GB data for bacteria) (iv) Hybrid assembly Illumina short reads ~1GB+ 0.5 GB Nanopore		
(5)Real Time based gene expression study	(i) From cell/ Tissue (Sybr green assay) (ii) From cell/ Tissue (Taq man assay)		
(6)Expression studies	(i) Transcriptome data analysis Transcriptome sequencing (From RNA) Reference based 6 to 8GB data (ii) Denovo Transcriptome Seq (From RNA) :6-8 GB data (iii) Whole Metatranscriptome seq : 8-10GB data RNA Isolation - Library preparation, Sequencing and Analysis		

Dated.....

Authorized Signature and Seal of the Bidding Firm