



# VIDYASAGAR UNIVERSITY

MIDNAPORE \* WEST BENGAL \* PIN: 721102

Ref.No. VU/Tender/Botany/03/25


Dated: 02/01/2025

## Tender Notice

Sealed quotations (mentioning the tender ref. no along with the last date of submission of the tender on the envelope) are invited from the reputed manufacturers, suppliers and vendors for providing **service on molecular testing service** as detailed below for Department of Botany (Under Project Grant, PI: Prof. D. Banerjee) of the Vidyasagar University. The quotations are to be submitted only to **the HOD, Department of Botany and Forestry, Vidyasagar University, Paschim Medinipur- 721102**. Last date of submission of quotation is on **15.01.25**

### **Eligibility criterion of participation in the tender:**

- a) Bonafide, resourceful and reliable Vendors.
- b) An undertaking should be given stating thereby that the firm has not been debarred or penalized for any reasons out of work by any Government Department.
- c) Subletting of suppliers is strictly prohibited.
- d) The prospective bidders must have valid up to date clearance of Income Tax return, Professional Tax clearance certificate, P. Tax (Deposit Challan), PAN Card, GST registration certificate. (Enclose latest copies).
- e) The suppliers who have been delisted or debarred by any government department shall not be eligible in any way.
- f) Past performance for vender will be judged (please attached three largest clients other than the Vidyasagar University).
- g) Rate is to be inclusive of all taxes and transport charges etc.
- h) The University reserves the right to accept or reject any quotation without assigning any reason whatsoever.
- i) Tender remains valid for six months.

  
2/1/2025

HOD, Dept of Botany and Forestry

*Prof. Anil Kumar Mondal*  
Professor & HOD  
Department of Botany & Forestry  
Vidyasagar University  
Midnapore-721102, W.B.

  
2/1/25



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03

## Specifications for molecular biology service under SERB project (D. Banerjee)

### 1. Microbial Identification Service (Sample Type: fungal sample)

(DNA extraction, QC, PCR Amplification with ITS1/ITS4, PCR Product purification columnbased Sanger sequencing (Complete)

Deliverables: abi file, pdf, fasta file Report (gel image, PCR Condition, Sanger sequencing details) Phylogenetic Tree and 10 nearest neighbor information.

### 2. Microbial Identification Service (Sample Type: Actinobacterial sample)

(DNA extraction, QC PCR Amplification with 16s PCR Product purification columnbased Sanger sequencing (Complete)

Deliverables: abi file, pdf, fasta file Report (gel image, PCR Condition, Sanger sequencing details) Phylogenetic Tree and 10 nearest neighbor information.

### 3. Oligo Synthesis (desalted) for both reverse and forward primers-

For specific genes- a. Translation ElongationFactor 1 $\alpha$  (TEF1 $\alpha$ ), b. beta tubulin

### 4. Metagenome sequencing-

Metagenomics (ITS) sequencing and analysis: Data Generation:

DNA Sample Amplification with ITS primer, Library preparation (Barcoding and Adapters)

Sequencing using Illumina Miseq - 300 bp PE, Data Generation of ~ 0.1 million reads

Bio-informatics Services: Raw data QC, Adapter Trimming, Chimeria

removal, OTU table generation, Comparative analysis, Alpha Diversity, Beta

Diversity, Deseq Analysis, Heat Map, Clustering, Unique and Common OTUs,

Metabolic pathway representation.

HOD, Dept of Botany and Forestry

Prof. Amal Kumar Mondal  
Professor & HOD  
Department of Botany & Forestry  
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