



Department of Soil Science
Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola

No. SS/EDF/1422/2026

Date: 19/10/2026

Quotation Notice

To,

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Subject: Inviting quotations for soil shotgun whole metagenome sequencing

Sir,

With reference to the subject cited above, it is requested to quote rates for the services mentioned below for carrying out shotgun whole metagenome sequencing of soil samples, covering the following parameters:

Sr. No.	Particulars	Specifications	Rates (Rs.)
1.	Microbial community composition	Identification and relative abundance of bacteria, archaea, fungi and other detectable microorganisms	
2.	Taxonomic classification	Microbial diversity and classification at phylum, class, order, family, genus and species levels, wherever possible	
3	Microbial diversity indices	Alpha diversity (Shannon, Simpson and richness) and beta diversity (Bray-Curtis, PCoA)	
4	Nitrogen (N) cycling genes	<i>nifH</i> , <i>amoA</i> , <i>hao</i> , <i>nxrA/nxrB</i> , <i>narG</i> , <i>nirK</i> , <i>nirS</i> , <i>norB</i> , <i>nosZ</i> , <i>nrfA</i> and <i>ureC</i>	
5	Carbon (C) cycling and organic matter decomposition genes	Cellulose-, hemicellulose-, lignin- and chitin-degradation genes; carbohydrate-active enzymes (CAZy); and carbon metabolism pathways	
6	Phosphorus (P) cycling genes	<i>phoD</i> , <i>phoA</i> , <i>phoX</i> , <i>gcd</i> , <i>pstS</i> and <i>phn</i> gene clusters	
7	Sulfur (S) cycling genes	<i>dsrAB</i> , <i>sox</i> gene clusters and <i>sqr</i>	
8	Plant-growth-promoting microbial traits	Genes associated with nitrogen fixation, phosphate solubilization, siderophore production, phytohormone biosynthesis and stress tolerance	
9	Functional annotation	KEGG pathway analysis, COG classification, functional gene profiling and metabolic pathway reconstruction	

10	Advanced bioinformatics (if available)	Metagenome assembly, gene prediction, metagenome-assembled genomes (MAGs) and association of functional genes with microbial taxa	
11	Data delivery	Raw sequencing data (FASTQ), quality-control reports, taxonomic and functional abundance tables, statistical analyses, graphical outputs and a comprehensive final report	

Terms and conditions

1. The quotation should reach the Department of Soil Science, Dr. PDKV, Akola, on or before 27/10/2026.
2. The sealed quotation will be accepted on all working days between 09:45 AM to 6:15 PM. and will be opened on the next official working day.
3. The quotation should clearly specify the total cost, including applicable GST and other charges.
4. The quoted rates should include all charges related to sample processing DNA extraction, sequencing and bioinformatics analysis, wherever applicable.
5. The laboratory/agency should provide details of its experience and facilities for soil metagenomic analysis.
6. The raw sequencing data, processed data and final analytical report should be provided to the Department of Soil Science, Dr. PDKV, Akola.
7. The expected time required for completion of the work should be clearly mentioned.
8. The right to accept whole or part of quotation or reject without assigning any reason is reserved with the undersigned.



Head,
Department of Soil Science
Dr. PDKV, Akola

Copy to:

The officer in charge, ARIS Cell, Dr. PDKV, Akola with request to upload the same on university website.

