



भारत
ICAR
अनुसंधान संस्थान

ICAR-INDIAN INSTITUTE OF OIL PALM RESEARCH

पेदावेगी-534450, एलुरु जिला, आंध्र प्रदेश

PEDAVERGI-534450, Eluru District, Andhra Pradesh

<https://iiopr.org.in> email: director.iiopr@icar.org.in Phone: 08812-259409

F. No. 40/IIOPR-NMEO-OP-10/2025-26

09.02.2026

Sub: Limited Tender Notice for Outsourcing of high-throughput multi-omics analysis of 21 samples (3 technical replication for each sample), including transcriptomics, proteomics, and metabolomics, for systematically elucidating the molecular and biochemical regulatory mechanisms governing oil palm fruit development and fatty acid biosynthesis at ICAR-IIOPR, Eluru, Andhra Pradesh – Reg.

Sir / Madam,

Please send your lowest quotation for Outsourcing of high-throughput multi-omics analysis, including transcriptomics, proteomics, and metabolomics, for systematically elucidating the molecular and biochemical regulatory mechanisms governing oil palm fruit development and fatty acid biosynthesis as per the terms and conditions detailed in subsequent paras. The outsourced work shall involve sample processing, library preparation, sequencing/acquisition, data generation, bioinformatics analysis, and interpretation, using oil palm fruit tissues collected at defined developmental stages. The quotes should reach this office on or before 18.02.2026; 11.00 AM through online (Email to sv.ramana@icar.org.in) only.

Quotations which are not strictly in accordance with the enclosed Terms & Conditions will not be considered.

Specifications/requirements:

1. Transcriptome Analysis (RNA-Seq)

- Total RNA quality check (RIN \geq 7.0)
- mRNA library preparation
- Paired-end sequencing (\geq 150 bp) on Illumina or equivalent platform
- Minimum sequencing depth: \geq 30 million reads per sample
- Quality control, read trimming, and alignment to oil palm reference genome
- Differential gene expression analysis across fruit developmental stages
- Functional annotation (GO, KEGG pathway analysis)

2. Proteome Analysis

- Protein extraction and quality assessment
- Trypsin digestion and peptide preparation
- LC-MS/MS-based quantitative proteomics (label-free or isobaric labeling)
- Identification and quantification of proteins using standard databases
- Differential protein expression analysis
- Functional and pathway enrichment analysis

3. Metabolomics Analysis

- Metabolite extraction from fruit tissues
- Untargeted metabolite profiling using GC-MS and/or LC-MS
- Metabolite identification using standard spectral libraries
- Comparative metabolite analysis across developmental stages
- Metabolic pathway mapping

4. Integrated Data Analysis

- Integration of transcriptomic, proteomic, and metabolomic datasets
- Correlation and pathway-level regulatory analysis
- Identification of key regulatory genes, proteins, and metabolites

5. Deliverables

- Raw and processed data files
- Complete bioinformatics analysis reports
- Differential expression and pathway analysis outputs
- Integrated multi-omics interpretation report

Documents required for evaluation:

1. GST registration certificate.
2. The firm / contractor should have turnover of more than Rs. 15 Lakh per year in the last two financial years. The annual turnover certificate for the last two financial years i.e. 2023-24, 2024-25 duly signed by the chartered accountant.
3. The firm / contractor should have at least two years of experience in related work. The supporting documents clearly mentioning relevant work executed by you / your firm in the last two years.
4. Undertaking that, there is no legal proceeding on him/Firm and they are not blacklisted from any and not under liquidation.

Terms and conditions for the work order:

1. The work should be completed within 30 days of issue of work order. The quotation will be selected taking into consideration of the total amount which includes supply of material, transportation, installation and commissioning, taxes, etc. No extra payment will be made by this office.
2. Payment will be made after Completing the work assigned and after due certification by the indenter.
3. The Director/PI of the concerned project, ICAR-IIOPR may at his discretion, extend the last date as required and such extension shall be binding for all Tenderers.
4. Tenders should be sent only through online with all relevant documents to email account sv.ramana@icar.org.in on or before 18.02.2026; 11:00 AM. Tender received after deadline will not be considered and summarily rejected.
5. The Director/PI of the concerned project, ICAR- IOPR has reserves the right to cancel the contract before award of work.

6. Decision of the Director/PI of the concerned project, IIOPR for any aspect shall be final and binding to all parties.
7. The bidder should provide a performance security @ 2% of contract value in the form of bank guarantee valid for 6 months once contract is awarded. If any deviation in performance or damage to the structure within a year, performance security will be confiscated.

Ram Aw
1/c ADMINISTRATIVE OFFICER
ICAR-IIOPR, PEDAVEGI.