

TECHNOLOGY INFORMATICS DESIGN ENDEAVOUR

Terms of Reference/Request for Proposal

Date: 30.01.2026

Proposals are invited by Technology Informatics Design Endeavour (TIDE) for the **“Selection of Laboratory for testing of Water, Wastewater and Compost/Bio Earth”**. The selected laboratory will be responsible for conducting various tests to ensure compliance with environmental regulations and standards.

Introduction

Technology Informatics Design Endeavour (TIDE) is a development organization based in Bengaluru that leverages technology for conserving the environment, creating livelihoods, and addressing societal issues. TIDE's work encompasses energy access and biomass-based cooking solutions, environment conservation through energy waste and water interventions, and Technology based innovative livelihoods, particularly with a focus on rural women. TIDE is currently implementing a project titled Integrated Water Management in partnership with BORDA, in different towns of Karnataka. For more information about TIDE, please visit www.tide-india.org

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| Title | “Selection of Laboratory for Testing of Water, Wastewater and Compost/Bio Earth.” |
| Location | Across Chikkaballapura District and Bengaluru, Karnataka |
| Nature of Assignment | <p>The project aims to collect and test samples of water, wastewater, and compost from TIDE's various interventions across Chikkaballapura district and Bengaluru. These interventions include shallow aquifers, Decentralized Wastewater Treatment Systems (DEWATS), Humus Bioreactor facilities, wastewater from nalas/drains, community-level composting units, and legacy waste remediation sites etc.,</p> <p>The scope of work includes travel to the above-mentioned locations or identified locations, collection of representative samples from the above-mentioned facilities, laboratory analysis of the samples in accordance with applicable standards and guidelines, and submission of detailed test reports to TIDE.</p> |
| Contract period | The contract period will be for the duration of 11 Months (December 2026) |

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Background of Project:

TIDE has been actively working in Chikkaballapura district for the past five years, implementing and supporting projects in the areas of water supply, wastewater management, and solid waste management. During this period, TIDE has established and operationalized decentralized wastewater treatment system, decentralized community-level composting units, and interventions for shallow aquifer recharge, including the installation of filter borewells.

As part of its ongoing mandate, TIDE is responsible for the operation, maintenance, and performance monitoring of these infrastructure systems. In addition, TIDE is engaged in research and development activities to support the planning and design of new interventions, improve system performance, and ensure compliance with applicable environmental, public health, and regulatory standards.

Terms of Reference:

The bidder shall be responsible for the activities and roles mentioned herein, and shall also support TIDE wherever reasonable and possible, to ensure that the objectives of the assignment are met. The details of the assignment are given below:

Scope of Work:

1. Collection of Samples to perform tests:

- The selected laboratory shall travel and collect samples of Water, Wastewater and compost/Bio Earth as per the request from the team whenever required.

2. Testing Requirements:

- The selected laboratory shall perform tests of the collected samples as per the prescribed norms and standards to meet the requirements and validate the data collected.
- Perform comprehensive testing of water, wastewater and compost samples.

i. Indian Standard Drinking Water - IS 10500:2012

ii. Parameters for Wastewater Testing:

- ✓ pH
- ✓ Chemical Oxygen Demand (COD)
- ✓ Biochemical Oxygen Demand (BOD)
- ✓ Total Suspended Solids (TSS)
- ✓ Total Kjeldahl Nitrogen (TKN)
- ✓ Total Phosphate (TP)
- ✓ Faecal Coliform

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iii. Municipal Solid Waste Compost - IS 16556:2016

Parameters:

- | | |
|------------------------|-------------|
| ✓ Bulk density | ✓ Pathogens |
| ✓ Moisture | ✓ Arsenic |
| ✓ pH | ✓ Cadmium |
| ✓ Conductivity | ✓ Chromium |
| ✓ Total Organic Carbon | ✓ Copper |
| ✓ Total Nitrogen | ✓ Lead |
| ✓ Total Phosphorus | ✓ Nickel |
| ✓ Total Potassium | ✓ Zinc |
| ✓ C:N ratio | ✓ Mercury |

Note: Pricing to be mentioned individually for Water, Wastewater and Compost.

3. Reporting:

- Laboratory shall be required to report detailed analysis of the sample tested and provide timely hard copy and electronic reporting of the analytical results, and submit the same to TIDE.

Deliverables:

Regular test reports summarizing results for water, wastewater and compost/Bio Earth, including data analysis and compliance assessment.

Eligibility criteria:

The laboratory should meet the following eligibility criteria:

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| • ISO/IEC 17025 - General requirement for the competence of testing and calibration of laboratories |
| • ISO/IEC Guide 25 - General requirement for the competence of calibration and testing laboratories |
| • EN 45001 - General Criteria for the operating of testing laboratories |
| • NAMAS - General criteria of competence for calibration and testing laboratories |

Evaluation Criteria:

| S. No | Indicator | Description | Document Evidence | Weightage |
|-------|-----------|--|-------------------|-----------|
| 1 | Bid Price | Price quoted by the agency for completion of the assignment. | Lumpsum cost | 100% |

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| | | Provide sub-Annexure with individual rate for the type of each category mentioned above | | |
| All the eligible firms will be graded on the above criteria. The one with the highest grade will be awarded the contract. | | | | |

Note: The bidders are requested to quote a bid price each for testing of each sample of water, wastewater and compost/Bio Earth for the above-mentioned parameters in separate bid forms as provided in the Annexure IV. Request not to include Sample Collection charges (transportation) in the annexure it can be included in the invoice per activity or per travel.

Duration of the assignment:

The work shall be executed from February 2026 to December 2026. The laboratory should adhere to the work plan as shown below. **(Subject to revision based on mutual consent or as per ground condition)**

Schedule of Payment:

The payment shall be made depending on the number of samples collected and tested (which depends on the type of sample and the quotation given for that particular sample). Once the test reports are submitted the payment will be processed after verification of the information. All payments will be made only after we receive the original invoice at the office address.

Submission of Proposal and deliverables:

The proposal must be submitted over email to the email id: sasi.priya@tide-india.org & iwm.accountant@tide-india.org with the following documents attached,

- Supporting documents for eligibility and evaluation criteria
- Self-certification of not being blacklisted by central/state government agencies.
- Properly filled Annexure I to VI

Confidentiality and Intellectual and Other Property Rights

All reports, notes, statistics and other documents and data compiled and collected, or software developed by the Contractor under this Agreement shall be confidential and the property of TIDE. The Parties herein agree to keep the terms of this TOR all or any information which any or all of the parties herein shall become acquainted with shall not be disclosed, either directly or indirectly to third parties or be used in any way, or in any manner that would be detrimental to the business of the partners.

Sd/-
Director-TIDE

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