Terms of Reference/Request for Proposal

Date: 04/11/2026

Proposals are invited by Technology Informatics Design Endeavour (TIDE) **for "Selection of Contractor/Vendor for Rectification, Retrofitting and Restoration of DEWATS and Humus Bioreactor Systems at Kandavara Colony, Chikkaballapura, Karnataka"**

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

Title	Selection of Contractor/Vendor for Rectification, Retrofitting and Restoration of DEWATS and Humus Bioreactor Systems at Kandavara Colony, Chikkaballapura, Karnataka
Location	Kandavara Colony, Chikkaballapur, Karnataka
Nature of Assignment	The assignment involves the retrofitting, rectification and restoration of the existing DEWATS and Humus Bioreactor Systems at Kandavara Colony, Chikkaballapura, Karnataka. The selected contractor/vendor shall undertake site assessments, identify operational and structural issues, recommend suitable corrective measures, and carry out the required civil, structural and treatment-system modifications to improve the functionality and treatment performance of both systems.
Contract period	The contract period will be for the duration of 20 days

Background of Project

The wastewater treatment infrastructure at Kandavara Colony includes a Decentralised Wastewater Treatment System (DEWATS) and a Humus Bioreactor system. These systems require certain structural, hydraulic and operational improvements to address existing issues and improve treatment performance.

The proposed works include improvements to screening arrangements, settling units, filter media, polishing facilities, equalisation tanks and other associated components. The assignment also involves structural strengthening of the Humus Bioreactor and modifications to its inlet and pre-treatment arrangements.

TIDE intends to engage an experienced contractor/vendor to undertake these works in consultation with TIDE and the Independent Technical Expert.

Terms of Reference:

The selected contractor/vendor shall undertake the assessment, design-related inputs, execution and restoration of the existing DEWATS and Humus Bioreactor systems. The assignment shall include the following:

Scope of assignment:

1. **Site Assessment and Technical Evaluation**

   - ✓ Undertake 2–3 site visits to assess the existing DEWATS and Hummus treatment systems, their operational status, and treatment performance.
   - ✓ Identify the key operational issues and underlying causes of improper functioning, including inadequate treatment capacity, sludge accumulation, clogging, wastewater bypassing, groundwater ingress, and structural concerns.
   - ✓ Assess the adequacy and condition of existing treatment units, flow arrangements, and filter media.
   - ✓ Provide technical inputs and recommendations on the required design modifications and corrective measures to improve system functioning and treatment efficiency

2. **Implementation of Identified Modifications**

a) **DEWATS System:**

   - ✓ Design and construction of an enhanced screening arrangement, including a new screening chamber, to improve solids removal and accommodate increased wastewater inflows.
   - ✓ Design and construction of a new settler to facilitate improved sedimentation and manage the increased inflow.
   - ✓ Desludging of the existing Planted Gravel Filter (PGF), including assessment and replacement of the existing filter media, as required, to restore flow and treatment efficiency.

- ✓ Deepening of the existing polishing pond as required, including necessary structural and hydraulic modifications. Also check ways to provide aeration to improve treated water quality.
- ✓ Conversion of the existing soak pit into a closed treated-water collection tank for improved management of excess treated water.

b) Humus Bioreactor System:

- ✓ Undertake structural strengthening and stabilization of the existing Hummus treatment unit through appropriate internal and external support measures.
- ✓ Redesign and modification of the existing inlet screening chamber to enhance its capacity and screening efficiency, including increasing the screen height.
- ✓ Design and construction of a new pre-settler within the available space to improve sedimentation and reduce the solids load entering the treatment system.
- ✓ Desludging and cleaning of the existing equalisation tanks to restore their effective holding capacity and operational efficiency.

Deliverables:

The selected contractor/vendor shall submit the following deliverables:

- ➢ Site assessment report covering the existing condition of both systems, identified issues and proposed corrective measures.
- ➢ Technical drawings, design details, specifications and implementation plan for the proposed modifications.
- ➢ Completion of all approved retrofitting, civil, structural and restoration works for the DEWATS and Humus Bioreactor systems.
- ➢ Testing and commissioning report covering the restored systems and their operational status.
- ➢ Final completion and handover report, including recommendations for operation and maintenance

Eligibility criteria:

The firm should meet the following minimum eligibility criteria:

• The company/firm/contractor should be registered with a legally binding registration document.
• Maintenance of comprehensive documentation related to statutory compliance, including permits, approvals, monitoring records, and compliance reports.

• The company/firm/contractor shouldn't have been blacklisted by central/state government agencies and have no legal liability towards any governmental or non-governmental agency
• The bidder should have successfully completed at least three similar works. Details and supporting work orders/completion certificates should be submitted.
• The bidder should possess valid PAN and GST registration, wherever applicable.
Note: The Consultants need to submit supporting documentary evidence for the criteria.

Evaluation Criteria:

S. No	Indicator	Description	Document Evidence	Weightage
1	**Bid Price**	Price quoted by the agency for completion of the assignment	Provide a lump sum cost in **Annexure V** along with supporting documentation that details the breakdown of components.	**40%**
2	**Technical Experience**	Agency/consultant should have a minimum of 5 years' experience in undertaking similar works related to DEWATS, STPs, wastewater treatment, civil construction, retrofitting and restoration.	Work order/Work completion certificate/ proof of work/reports Self-certification providing details of the similar project (Details of the project should include Name of project and description, Start and completion date of the project, Location, and total project cost)	**50%**
All the eligible firms will be graded on the above criteria. The one with the highest grade will be awarded the contract.				

Duration of the assignment:

The project shall be executed within 30 days of the contract's award, shall be delivered by the **1st week of December.** The agency should adhere to the work plan as shown below. **(Subject to revision based on mutual consent or as per ground condition)**

Work Plan:

The project duration is from the **2nd week of November 2026 to 1st week of December 2026.**

Activity	November 2nd Week	November 3rd Week	November 4th Week	December 1st Week
Award of Contract				
Site visit and assessment of existing systems				
Submission of technical recommendations, designs and work plan				

Execution of DEWATS and Humus Bioreactor restoration works				
Testing, commissioning and rectification				

Schedule of Payment:

Sl. No.	Deliverable	Stage of payment	Percentage of Payment
1	Completion of site assessment and submission of technical recommendations/designs draft, approved by TIDE	1st	50%
2	Completion of approved retrofitting and restoration works. Successful testing and commissioning	2nd	50%
Note: The payment schedule will be finalized in consultation with the Consultant at the contract award stage. All the payments will be done only after we receive the original invoice to 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 V

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