

Terms of Reference/Request for Proposal**Date: 30.01.2026**

Proposals are invited by Technology Informatics Design Endeavour (TIDE) for “**Spatial Mapping and Analysis of Treated Used Water Reuse Potential in Hebbagodi-Bommasandra Cluster, 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	Spatial Mapping and Analysis of Treated Used Water Reuse Potential in Hebbagodi-Bommasandra Cluster, Karnataka
Location	Hebbagodi-Bommasandra, Karnataka
Nature of Assignment	The assignment involves GIS-based spatial analysis and mapping to assess treated used water reuse readiness in the Hebbagodi-Bommasandra peri-urban industrial cluster. It includes integrating land use, water infrastructure, effluent availability and climate vulnerability data to identify feasible reuse pathways.
Contract period	The contract period will be for the duration of 30 days

Background of Project

Hebbagodi and Bommasandra are adjacent urban local bodies in Anekal Taluk of Bengaluru Urban district. Hebbagodi is governed as a City Municipal Council (CMC), while Bommasandra functions as a Town Municipal Council (TMC) under the Karnataka Municipalities Act. Together, they form a contiguous urban-industrial cluster with shared hydrological systems, labour markets, infrastructure dependencies, and environmental challenges.

The strategic location of this cluster has catalysed the rapid growth of large- and medium-scale industries, particularly in Bommasandra, Veerasandra, Jigani, and Chandapura, which together constitute one of the most significant industrial belts in southern Bengaluru.

Technology Informatics Design Endeavour

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These industrial areas host a diverse mix of sectors, including pharmaceuticals, electronics, food processing, garments, logistics, and allied manufacturing units. Several industrial estates and layouts have been developed by the Karnataka Industrial Areas Development Board (KIADB).

The absence of a reliable treated wastewater supply has forced industries to depend almost entirely on freshwater sources for non-potable uses such as cooling, washing, and process water. This represents a significant missed opportunity for substituting freshwater demand with treated used water (TUW).

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 assignment:

- ✓ Define and map a functional buffer zone (5–10 km radius) around Hebbagudi to capture peri-urban land uses, water infrastructure, and reuse demand clusters.
- ✓ Identify and map potential reuse zones (e.g., agricultural fields, green spaces, industries) and overlay with effluent availability and climate vulnerabilities.
- ✓ Visualize reuse-readiness by integrating data on treated water availability, quality, and infrastructure connectivity.
- ✓ Support the development of a reuse-readiness map to identify feasible, safe, and meaningful reuse pathways.
- ✓ Converting physical maps and merging data sets to create network maps and infrastructure for understanding gaps and reuse potential

Deliverables

- All raw files and final versions of the above-mentioned maps will be submitted to TIDE.
- A comprehensive inventory of all data collected and used in the project and details of maps generated illustrating key findings, including climate and vulnerability.

Eligibility criteria:

The firm should meet the following minimum eligibility criteria:

<ul style="list-style-type: none">• 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

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- Experience working in special analysis, climate related, vulnerable groups in small towns in India.

Note: The Consultants need to submit supporting documentary evidence for the criteria.

Evaluation Criteria:

S. No	Indicator	Description	Document Evidence	Weightage
1	Qualification	<p>The Organization/Individual Consultant should have a minimum of 3 years of proven experience in GIS analysis, preferably with a focus on small towns or urban environments</p> <p>Advanced degree in Geomatics, Environmental Science, Urban Planning, or a related field with a focus on GIS.</p> <p>Must possess relevant professional certifications to demonstrate their expertise and proficiency in Geographic Information Systems (GIS).</p>	<p>CV & Reports showing clear experience and qualification of the Individual/Organization</p> <p>Sharing Sample work of the Organization/Consultant in the projects involved.</p>	70%
2	Financials	Assignment Fees Quoted Financial proposal- Assignment fee quoted for the assignment	Assignment Fees Quoted	30%
<p>All the eligible firms will be graded on the above criteria. The one with the highest grade will be awarded the contract.</p>				

Duration of the assignment:

The project shall be executed within 8 days of the contract's award, shall be delivered by the **28th February 2026**. 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 **1st week of February 2026 to 4th week of February 2026**.

Activity	February 1 st Week	February 4 th Week

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Award of contract		
Final Submission		

Schedule of Payment:

Sl. No.	Deliverable	Stage of payment	Percentage of Payment
1	Final deliverable – Final version of the maps	Final	100%

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

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