



## TECHNOLOGY INFORMATICS DESIGN ENDEAVOUR

### Terms of Reference/Request for Proposal

**Date: 03.10.2024**

Proposals are invited by Technology Informatics Design Endeavour (TIDE) for “Conducting water audit for Turuvekere town In 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](http://www.tide-india.org)

<b>Title</b>	Conducting water audit for Turuvekere Town in Karnataka
<b>Location</b>	Turuvekere Town, Tumkur District, Karnataka
<b>Nature of Assignment</b>	<p>This project aims to conduct a detailed water audit for Turuvekere Town, assisting decision-makers in gaining a comprehensive understanding of overall water consumption, identifying water losses, and making informed decisions for water conservation. The scope includes developing a tool that will enable the town to track ward-wise water resources and consumption trends.</p> <p>Additionally, the project seeks to assess the current status of the town's water supply system and water resources, providing insights into water resource availability and supply management. The Firm/Individual consultant is expected to conduct a detailed technical study using a participatory approach, and develop a vision, strategies, and actionable recommendations to improve the town's water management systems. This effort aims to strengthen water management decision-making in Turuvekere Town.</p>
<b>Contract period</b>	The contract period will be for the duration of 45 days

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## TECHNOLOGY INFORMATICS DESIGN ENDEAVOUR

### Background of Project

Turuvekere Town, located in Tumkur District, Karnataka, faces challenges in managing its water supply system effectively. At Present the town's current water distribution system provides 11.5 lakh liters of water per day, with a per capita availability of 109 LPCD (Liters per Capita per Day). The water supply comes from two main sources: 12 lakh liters from Mallawagata Lake and 0.5 lakh liters from borewells. Additionally, many households rely on private borewells. Growing population and urbanization and increased water demand, and system inefficiencies such as water loss and non-revenue water (NRW) require a detailed understanding of the town's water management framework. This water audit aims to provide insights into water consumption, distribution efficiency, and areas of improvement to enhance water conservation and ensure a sustainable supply for the town's residents. Prioritization of wards for altering water supply frequency is based on these factors, including household storage capacities and areas with inadequate storage structures.

### 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:

- Provide municipality with critical information on water supply and resource across the value chain so that water management initiatives can be prioritized
- Develop strategies that help will the municipality in better management of water services, increasing water security and sustainability.

#### 1. City water audit study

- Identify and map all the existing and potential water sources for the town including quantitative and qualitative data of the respective sources. Water sources should include – groundwater, surface water, rainwater, etc.
- Assess the adequacy of existing infrastructure for water supply, wastewater, and storm water management. Also, identify any points of cross contamination among various streams of water in the town that is a potential risk to water quality.
- Quantify unaccounted water and leakage points in the water supply system at ward level.
- Map access to water supply in the town – areas covered by FHTC, areas dependent on water tankers, areas dependent on borewells, etc.

#### 2. City water action plan-

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- Multiple consultations must be held with all relevant stakeholders to share the results & discussions from city water audit plan based on which a city water action plan must be developed in a participatory manner.
- Action plan must be prepared in view of circular economy, wastewater recycle & reuse, water source conservation, judicious use of water, etc.
- The action plan must include short term, medium term and long-term activities that can be taken up by municipality to build a water secure and resilient town.
- Proposed activities should be mapped against existing and pipelines sources of funds from national, state, and own revenue.

### Deliverables

- 1) Detailed water audit report, including consumption patterns, resource availability, and system inefficiencies.
- 2) Actionable recommendations for water conservation and improved water management.

### 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
<b>Note: The Consultants need to submit supporting documentary evidence for the criteria.</b>

### Evaluation Criteria:

Sl No	Particular	Description	Document Evidence	Weightage
1	Experience	The interested parties should have a minimum verifiable experience of 2 years	Certificate of Registration/ RoC	10%

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2	Team	Agency should have a professional team with proven ability of executing similar projects	CVs of team members	10%
3	Project Execution	The parties should have executed a minimum of 2 projects in similar areas	Work Orders/PO/Signed Contract/MoU/ Designs/ Project Reports	10%
4	Clarity in the proposal	The proposal should contain the entire scope of work with detailed methodology, timeline etc.,		10%
5	Bid Price	Price quoted by the agency		60%

All the eligible firms will be graded on the above criteria. The one with the highest grade/score will be awarded the contract.

**The bidder has to submit the lumpsum cost for undertaking the project in the Bid format mentioned in the Annexure IV**

**Duration of the assignment:**

The project shall be executed within 45 days of the contract's award, shall be delivered by the **3<sup>rd</sup> week of October 2024**. 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 **3<sup>rd</sup> week of October 2024 to 5<sup>th</sup> week of November 2024**.

Activity	October 3 <sup>rd</sup> Week	October 4 <sup>th</sup> Week- November 1 <sup>st</sup> Week 2024	November 2 <sup>nd</sup> week - November 3 <sup>rd</sup> week 2024	November 4 <sup>th</sup> week - November 5 <sup>th</sup> week 2024

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Award of contract				
Stakeholder consultation				
Data Collection and Field Survey				
Data Analysis and Reporting				
Final water audit report and action plan				

### Schedule of Payment:

Sl. No.	Deliverable	Stage of payment	Percentage of Payment
1	Data Collection and Field Survey assessment	1st	30%
2	Data Analysis and Reporting	2 <sup>nd</sup>	35%
3	Final water audit report and action plan	3 <sup>rd</sup>	35%

**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: [priyanka.r@tide-india.org](mailto:priyanka.r@tide-india.org), & [iwm.accountant@tide-india.org](mailto: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.



## TECHNOLOGY INFORMATICS DESIGN ENDEAVOUR

Sd/-  
Director-TIDE

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