



TECHNOLOGY INFORMATICS DESIGN ENDEAVOUR

Terms of Reference/Request for Proposal

Date: 24.06.2024

Proposals are invited by Technology Informatics Design Endeavour (TIDE) for “Detailed Project Report on Decentralized Dry Waste Management in Selected Wards of Tiptur

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	Detailed Project Report on Decentralized Dry Waste Management in Selected Wards of Tiptur
Location	Tiptur Taluk, Tumkur district, Karnataka
Nature of Assignment	This project aims to create Detailed Project Report (DPR) for streamlining dry waste using decentralized dry waste system. The focus is on wards 1-7 in Tiptur taluk, Karnataka. The scope of work in DPR includes a baseline assessment, customized IEC plan for waste segregation, refurbishing plan for a defunct dry waste collection center which has an area of 3000 sqft, and formulating an implementation strategy. The objective is to create a replicable model for other wards within the municipality.
Contract period	The contract period will be for the duration of 60 days

Background of Project

Tiptur, a prominent town in the Tumkur district of Karnataka, with a population of 59,543 as per the 2011 census, faces significant challenges in municipal waste management despite having waste management infrastructure and collection vehicles in place. The town is divided into 31 wards, each with unique demographics and geographies. The town generates about 20 tons of municipal waste daily, with 40% being dry waste. However, only 20-40% of segregation happens at the source, which poses a critical challenge for effective waste processing. The town currently dispose and treats the waste at the Solid Waste Management (SWM) plant located at the ward number 15. In response to these challenges,

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CMC Tiptur requested TIDE for decentralized dry waste management solutions for the priority wards which is 1,2,3,4,5,6 and 7. Each of these wards has an estimated population of 1,500, according to the 2011 census, and generates approximately 1 Ton per day (TPD) of waste. Out of which 60% is wet waste and 40% is dry waste. The project aims to streamline dry waste through segregation, collection and forward linkages. Additionally, Tiptur CMC has identified an existing defunct Dry Waste Collection Centre (DWCC) with an area of approximately 3000 sqft. This facility will be upgraded to serve as a key decentralized processing unit for dry waste management.

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:

The overall objective of the assignment is to develop a detailed project report for dry waste management in selected wards of Tiptur, Tumkur District, Karnataka which should be a model for other wards for replication. The model should be SHG-led. The agency undertaking this activity shall be responsible for leading this activity, with the following scope:

1) Assessment of waste generation in 1,2,3,4,5,6,7 wards

- Estimation of projected waste generation by the generators in the ward 1 to 7
- Characterization of Dry waste – Involves identifying the types and quantities of dry waste generated in the selected wards
- Assessing the existing dry waste management scenario
- Mapping existing infrastructure for dry waste management - Existing vehicles details, route mapping
- Assessing the municipality's capacity, finances, and guidelines for waste management
- Undertaking consultations with ULB to understand the existing challenges.
- Identify suitable SHGs groups in Tiptur region for dry waste management

2) Dry waste action Plan:

- Develop a plan to promote segregation of dry waste at wards
- Integrate sustainable practices and SHG members for operations and management of the collections and managing waste

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- Identification of suitable machinery and vehicles along with capacities and specifications for optimizing the dry waste management
- Conducting consultations with the municipalities on the waste management process
- Provide SOP and robust monitoring plan, revenue based O&M model

3) Detailed Project Report

- Detailed engineering design drawings along with detailed BOQ for refurbishment of existing DWCC (Ready to tender documents)
- Provide steps and plan of action for implementation of the project
- Provide strategies for sustainable source segregation
- Provide forward linkages

Deliverables

- 1) Detailed assessment report of existing solid waste management practices in 1 to 7 wards
- 2) Detailed dry waste management action plan
- 3) Final DPR

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
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	Lumpsum cost	50%
2	Technical Experience	Agency/consultant should have a minimum of 5 years' experience in the field of waste management including preparation of DPRs.	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	50%

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		and support in implementation of solid waste management plants.	and description, Start and completion date of the project, Location, and total project cost)	
<p>All the eligible firms will be graded on the above criteria. The one with the highest grade will be awarded the contract.</p>				

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 60 days of the contract's award, shall be delivered by the **1 st week of September 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 **2nd week of July 2024 to 2nd week of September 2024**.

Activity	July 2 nd week 2024	July 3 rd week - July 4 th week 2024	July 5 th - August 3 rd week 2024	August 4 th - September 1 st week 2024
Award of contract				
Assessment and gap analysis study				
Dry waste management plan				
Ready to tender documents				

Schedule of Payment:

Sl. No.	Deliverable	Stage of payment	Percentage of Payment
1	Assessment report	1st	30%
2	Draft DPR	2 nd	35%
3	Final DPR	3 rd	35%
<p>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.</p>			

Submission of Proposal and deliverables:

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The proposal must be submitted over email to the email id: priyanka.r@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