



# VIJAYAVAHINI CHARITABLE FOUNDATION

Supported by TATA TRUSTS

## CREATION OF A PROJECT IMPLEMENTATION PLAN FOR WATER MANAGEMENT IN KRISHNA DISTRICT, ANDHRA PRADESH

### 1. PROJECT BACKGROUND:

Vijayavahini Charitable Foundation (VCF), a Section 8 Company supported by Tata Trusts, is a non-profit organization working across Andhra Pradesh in thematic areas like healthcare, livelihoods, nutrition, education, water and sanitation. One such initiative is water management in the Krishna district, Andhra Pradesh. The primary objective is to develop a proof of concept for 'Model Water Villages' and present solutions for effective water management that are scalable and sustainable.

VCF wishes to understand the availability of water sources, consumption needs, current water management practices etc. in select regions in Krishna district. The best practices in water management across India and some case studies from across the world need to be studied and models for effective water management in select regions in Krishna district need to be presented. The objective is to demonstrate a sustainable model for water management that will address issues of drought and water scarcity in the region and can be scaled up to cover the entire state.

VCF (Client) is looking for support from a Consultant to achieve the above objectives through a study of the as-is scenario and creating a sustainable and scale-able model/plan that can be piloted in select regions in the Krishna district.

### 2. TERMS OF REFERENCE FOR THE STUDY

The study will be split into 4 modules:

1. Defining the sample set: This involves literature survey to narrow down upon the set of villages/GPs/mandals/zones that will be studied as part of the project. A detailed selection criteria needs to be developed with a list of parameters and weightage for the parameters. The parameters can be both qualitative and quantitative in nature. A longer list of villages/GPs/mandals/zones can be narrowed down to the smaller sample set of regions basis the selection criteria.
2. Understanding as-is scenario: Once the sample set of regions is identified, the as-is scenario needs to be studied in detail. This involves secondary research as well as primary research involving interactions with residents, farmers, local body and other stakeholders to understand water requirements (including household, industrial, irrigation needs) in the region, available water sources and existing water management practices. The gaps pertaining to water management need to be identified. Following aspects to be covered:



**Regd. Off:** D. No. 3-56/1, Vasumathi Nilayam, Syndicate Bank Colony, Bellemvari St, Ramavarappadu, Vijayawada, Krishna Dist, AP- 521148  
**Admin Office:** D. No. 48-18-8A, 3rd Floor, ANR Complex, Near Ayush Hospital, Sri Ramachandra Nagar, Vijayawada, AP- 520008



# VIJAYAVAHINI CHARITABLE FOUNDATION

Supported by TATA TRUSTS

- **Defining the problem statement:** Carry out a survey to study the prevailing hydro-geological, agricultural, social and economic conditions of the region & prevailing water use practices (by the local bodies, individuals and communities) in order to identify challenges pertaining to water management (demand supply gap/health indicators/water quality/unsustainable practices/waste water generation etc.).
  - **Baselining:** Define quantitative indicators relating to water availability, water quality, cropped areas & crop output (including irrigated areas), prevalence of water borne illnesses, per capita consumption & expenditure on water, waste water generation, water management etc. Capture baseline data pertaining to the identified indicators through a sampling methodology. Undertake a needs-assessment survey relating to capacity building and hand-holding required for effective water management. Develop a database/water map based on available surface water, groundwater resources, dominant water uses & estimate the water deficit in the region.
  - **Benchmarking:** Provide a snapshot of the situation of the identified regions, in relation to other regions across Andhra Pradesh and India, in terms of availability of water sources, water consumption, water quality and overall water surplus/deficit. Assess the climate variability of the select regions and present historical evidence on the impact of climate stress in the region.
3. Identifying best practices from other districts / states: To understand best practices in water management across the world, 4-5 successful models will have to be studied in detail. This includes at least 2 case studies of sustainable water management demonstrated in India, and 2 case studies of water management practiced outside India, in settings similar to Krishna district. The following aspects need to be assessed and presented:
- Objective and overall approach to water management
  - The conditions faced, the initiatives undertaken and the outcomes observed
  - Challenges faced during the course of implementation & success factors
  - Financial outlay and sustainability
  - Models of Community Engagement
  - Takeaways for the project
4. Creating an implementable plan (that is sustainable and scale-able) for water management in the identified regions: Based on modules 1 and 2, a detailed water management plan will have to be made for the selected villages/GPs/mandals/zones under consideration. A framework may be created to demarcate clusters based on the prevalent water management practices & water management plans can be created for each cluster. Multiple rounds of brainstorming need to be held with the Client, in order to develop the final plan.

The water management plan needs to be outlined considering the following factors:

- Ability to leverage existing initiatives/schemes/resources of the Govt. of India and State Govt. and build synergies



**Regd. Off:** D. No. 3-56/1, Vasumathi Nilayam, Syndicate Bank Colony, Bellemvari St, Ramavarappadu, Vijayawada, Krishna Dist, AP- 521148  
**Admin Office:** D. No. 48-18-8A, 3rd Floor, ANR Complex, Near Ayush Hospital, Sri Ramachandra Nagar, Vijayawada, AP- 520008



# VIJAYAVAHINI CHARITABLE FOUNDATION

Supported by TATA TRUSTS

- Potential for maximum impact, financial viability and long term environmental sustainability

The plan needs to capture the following aspects:

- Overall schematic/framework for the water management system, including techniques for harnessing existing water sources more effectively, deployment of technological tools, practices for better utilization & storage, initiatives to drive behavioural change etc. The universe of water use (irrigation, drinking, washing, fisheries etc.), supply (monsoons, ground water sources like wells, pumps & bore-wells, surface water sources like rivers, canals, ponds, dams & reservoirs etc.) and water disposal (sanitation, drainage, recycling systems etc.) need to be addressed in the framework.
- Institutional framework and areas of convergence with other non-profit organizations, private players, Govt. machinery, local communities etc. Outline the roles and responsibilities of individuals, communities and local govt. bodies in the overall scheme and during the various stages of implementation.
- Financial budgeting & cost benefit analysis: Estimate of capital expenditure, operating expenses, gap funding, sources of funding, incremental benefits and timeframe for external support.
- Implementation plan: Defining implementation activities, timelines and milestones; operations plan; reporting, control framework & governance mechanism; partnerships and team structure; resources required for implementation; expected risks and challenges and mitigation strategies;
- Expected outcomes and impact & Scalability plan. Impact indicators need to be defined along with baseline data, basis which the effectiveness of the water management plan will be assessed upon implementation.

## 3. DELIVERABLES

The deliverables for each of the modules are as follows:

Module	Deliverables
Module 1	Develop a detailed evaluation framework & shortlist the sample set of villages for deep dive
Module 2	Detailed Report, in Word/Excel format with baseline data & benchmarking snapshots
Module 3	Detailed Report, in Word & PPT format, presenting the selected case studies
Module 4	A Detailed Project Report (DPR), in Word and PPT format, outlining the approach for implementation of the water management plan



**Regd. Off:** D. No. 3-56/1, Vasumathi Nilayam, Syndicate Bank Colony, Bellemvari St, Ramavarappadu, Vijayawada, Krishna Dist, AP- 521148  
**Admin Office:** D. No. 48-18-8A, 3rd Floor, ANR Complex, Near Ayush Hospital, Sri Ramachandra Nagar, Vijayawada, AP- 520008



# VIJAYAVAHINI CHARITABLE FOUNDATION

Supported by TATA TRUSTS

## 4. TIMEFRAME

A 12-week timeframe is proposed for the entire engagement.

Module	Timeframe
Module 1	2 weeks
Module 2	3 weeks
Module 3	2 weeks
Module 4	5 weeks

## 5. PROCEDURE FOR SUBMITTING PROPOSALS

Consulting agencies, academic institutions, non-profit organizations, think tanks etc. are eligible to apply. All proposals are to be sent via e-mail to [scmvja@vijayavahini.org](mailto:scmvja@vijayavahini.org) and [washvcf@vijayavahini.org](mailto:washvcf@vijayavahini.org). The submittals must include the following:

Part A: Background of the organization, including experience in performing similar assignments in the past. Please provide past work completion certificates. Organization registration, GST certificate and other relevant supporting documents to be included.

Part B: Technical proposal outlining the approach towards the study, methodology, work-plan, team of personnel (including their qualifications & experience) who will be working on the project.

Part C: Commercial proposal, including base fees, GST and out of pocket expenses

### Other conditions:

- The Bidder, if it desires so, at its own responsibility and cost may visit and examine villages/mandals in Krishna district and obtain all information that may be necessary for preparing the Bid.
- In case any clarification is sought with respect to the RFP, the queries may be sent to the email id [scmvja@vijayavahini.org](mailto:scmvja@vijayavahini.org) and [washvcf@vijayavahini.org](mailto:washvcf@vijayavahini.org) on or before 2<sup>nd</sup> March Feb, 2020 before 5:00 P.M for seeking clarification
- The proposals shall be submitted within the due date mentioned for submission (7<sup>th</sup> March, 2020 before 5:00 P.M) and any bid received after the deadline will not be considered.



Regd. Off: D. No. 3-56/1, Vasumathi Nilayam, Syndicate Bank Colony, Bellemvari St, Ramavarappadu, Vijayawada, Krishna Dist, AP- 521148  
Admin Office: D. No. 48-18-8A, 3rd Floor, ANR Complex, Near Ayush Hospital, Sri Ramachandra Nagar, Vijayawada, AP- 520008