



GOVERNMENT OF ODISHA  
DEPARTMENT OF WATER RESOURCES  
**TERMS OF REFERENCE**

Country: India

Project Name: Ground Water Recharge And Solar Micro Irrigation To Ensure Food Security And Enhance Resilience In Vulnerable Tribal Areas Of Odisha (Funded Activity: GCF-FP045)

Title of Consulting Services: Preparation of Project Implementation Plan (PIP) for GCF

Contract Type: QCBS (Lump-sum)

Date of Issue: 21~~st~~ June, 2021 *ME*



ODISHA COMMUNITY TANK DEVELOPMENT AND MANAGEMENT SOCIETY

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## TERMS OF REFERENCE

### Preparation of Project Implementation Plan (PIP) for GCF

#### 1 BACKGROUND

The Government of Odisha in partnership with National Bank for Agriculture and Rural Development (NABARD) is implementing "**Ground water recharge and solar micro irrigation to ensure food security and enhance resilience in vulnerable tribal areas of Odisha** (Funded Activity: GCF-FP045)" through "Odisha Community Tank Development and Management Society (OCTDMS)", an SPV under the Department of Water Resources (DoWR). The activities will be monitored through a District Level Project Management Team (DLPMT) formed under the Chairmanship of the concerned District Collector.

The Green Climate Fund (GCF), designated as an operating entity of the financial mechanism under Article 11 of the United Nations Framework Convention on Climate Change and established pursuant to the governing instrument having its Head Quarters at Songdo, Incheon, Republic of Korea is assisting with a grant of USD 34.357 Million and Govt. of Odisha will support the project with about USD 117.735 Million. There will be a Community Contribution of about USD 14.205 Million through cash/ kind for the project.

The project aims at augmenting the ground water level through introduction of the structural measures such as to construct recharge structures in 10,000 tanks (About 1000 tanks of Minor Irrigation Organisation and 9000 tanks of Panchayat Raj & Drinking Water Department) in 15 districts viz., Bargarh, Bolangir, Boudh, Gajapati, Kalahandi, Kandhamal, Keonjhar, Koraput, Malkangiri, Mayurbhanj, Nawarangpur, Nuapada, Rayagada, Sambalpur and Sonepur to tap the additional water available during monsoon in the tanks (public/ community/ private) for post monsoon augmentation of the ground water. This would augment to about 1.61 Lakh Ha.m of ground water which will be extracted to irrigate about 2.50 Lakh ha of land through micro irrigation to be benefitted by small and marginal farmers. Further, the project will install 1000 solar pumps on pilot basis for providing micro irrigation for agricultural purposes in line with national target of reaching 1,00,000 MW solar power by 2022 under the Jawaharlal Nehru National Solar Mission (JNNSM). The project will also support for the capacity building of the beneficiaries towards livelihood improvement.

The project will thus improve and ensure water security, food security, Energy security with linkage to climate change and adaptation solution to about 5.2 million vulnerable SC/ST population in these 15 districts. Enhanced food security in these areas will enhance their adaptive capacity.

## 2 ASSIGNMENT OBJECTIVE

Objective of the Assignment is to prepare:

- 2.1 **Project Implementation Plan (PIP)** for the Green Climate Fund assisted "*Ground water recharge and solar micro irrigation to ensure food security and enhance resilience in vulnerable tribal areas of Odisha*" project.
- 2.2 The PIP will broadly cover about the project, ground water status and planning for improving ground water status, enhance resilience to ensure food security through agriculture innovation, fisheries and agri-business development, institutional strengthening and capacity building, project management, environmental social management framework, monitoring, learning and evaluation, governance accountability and action plan, Cost tables, ToRs, dam safety organisation, status of staffing pattern, potential agri-commodities, guidelines for demonstration, training programs, exposure visits, Selection criteria for beneficiaries, project cycle, MoUs etc.
- 2.3 **Observance of important procedures/official document secrets**
  - a) The agency may/shall consult with the partnering agencies/ departments for preparing the details of activities and modalities;
  - b) The Agency shall take the opinion of experts in the respective fields as suggested by the State Project Unit (SPU) of OIIPCRA;
  - c) The Agency shall keep the policies of the State Govt./ GoI/ GCF Board and NABARD in mind in preparation of PIP;
  - d) Only authenticated information shall be used in making and bringing up the Project Implementation Plan (PIP);
  - e) The Agency shall maintain the confidentiality or secrecy of the information relating to or contents of PIP. The information can't be shared with any other agency other than the SPMU, OCTDMS and without the permission of the Project Director, OCTDMS.

## 3 QUALIFICATION OF AGENCY

- a) Agency should be a registered organization/ company with minimum 5 (Five) years of existence in the relevant field.
- b) Average annual financial turnover in last three years should not be less than One Crore INR.
- c) Agency should have successfully executed similar nature of assignments for at least one projects each where:
  - i. Assessments related to Human Resources management has been taken up in water resources/ agriculture or similar field and;

- ii. Project Implementation Plan for any World Bank/ ADB assisted project has been taken up in water resources/ agriculture or similar field.
- d) Prior experience of working with donor agency like World Bank, ADB, NABARD etc. in Climate Change sector will be preferred.
- e) Prior experience of preparing policy documents of Irrigation scheme/s will be given added weightage during selection of firm.
- f) The agency should not be blacklisted with the Govt. of Odisha/ NABARD/ World Bank and other UN Agencies at the time of opening of the proposal or signing of contract for the consultancy.

#### 4 DURATION OF ASSIGNMENT

The assignment would be for **120 days** from the date of signing of contract.

**Table: 1.0**

SI	Tasks	I	II	III	IV
1	Preliminary analysis for PIP				
2	Stakeholder Mapping				
3	Mapping of activities & institutions for indicators				
4	Prepare Implementation Plan				

#### 5 TEAM COMPOSITION & QUALIFICATION

**Table: 2.0**

Sl. No.	Team composition	Minimum Qualification	Remarks
<b>Key Experts:</b>			
1	Team Leader	S/he should have an advanced degree at least Master's Degree in Civil/ Electrical/ Agriculture/ Statistics/ Economics/ Public policy or a related discipline.	Experience in leading a team for preparation of over-all PIP & Manuals for at least one completed Project. He/ She should have at least <b>15 (Fifteen)</b> years of post-qualification working experience in quantitative evaluation, preparation of Project Implementation Plans, policy programmes, TNA etc.
2	One Senior	PG in Agriculture /	<b>Ten (10) years</b> of post-qualification

	Agriculture Expert	Agronomy	Experience in irrigated agriculture and farming systems, water efficient technologies & CSA and having knowledge of both traditional practices and modern techniques for improving water use efficiency and agricultural productivity.
3	Social/ Institutional development	PG in Sociology/ Anthropology/ Rural Management	<b>Ten (10) years</b> of post-qualification experience in rural management, supervision of household surveys or rigorous (experimental or quasi experimental) impact evaluations.
4	Economist/ Data Analyst	S/he should have a degree in economics/ statistics/ public policy/ development studies or a related discipline.	<b>Ten (10) years</b> of post-qualification working experience in fiscal impact analysis in Irrigation and Agriculture Sector, sensitivity and risk analysis of the expected returns, analysis (experimental or quasi experimental) impact evaluations. Should have experience working on statistical software packages like – SPSS, R, STATA etc.
5	Hydrology/ Ground Water Recharge Expert	Master's degree in Civil Engineering with Specialisation in Hydrology/ Ground Water Hydrology.	<b>Ten (10) years'</b> of post-qualification working experience in Water Resources/ Ground Water development projects.
6	Renewable Energy Expert	Bachelor's degree in Electrical Engineering.	<b>Five (5) years'</b> of post-qualification working experience in electrical engineering works, Maintenance and installation of Solar Power projects, Solar electronics systems.

## 6 DELIVERABLES BY THE CONSULTANT

- a) Prepare and submit the document of the Project Implementation Plan containing the overall assessment, approach and methodology adopted, detailed work plan, status of the stake holders and rated outputs indicating and describing the probable outcomes with rated indicators to achieve the project indicators or

- objectives for the tasks or sub-tasks.
- b) Submit documentation of data management processes, task and props over which the assessments were carried out or derived.
  - c) The Agency shall submit hard copies of **5 sets of Draft Report** (s) (Black & White) & **30 sets (for PIP)** of Final Report (Colour) along with the original manuscript of all databases and the soft copy of final report along with all databases in MS Excel sheet/ suitable & agreed data base format.

## 7 COMPOSITION OF REVIEW COMMITTEE

A committee consisting of following members shall coordinate and monitor the Consultant's work and would extend their cooperation in making available the data and information, obtaining approvals and also deal with the problems, if any, faced by the Consultant in executing the Contractual obligations:

1. Project Director, OCTDMS. (Chair Person)
2. Additional Project Director (Tech),
3. Additional Project Director, Agriculture,
4. Project Finance Officer, OCTDMS
5. Superintending Engineer, OCTDMS
6. Executive Engineer, I/C GCF.

The Committee may co-opt any additional member/ Change any of the members, if needed, with the approval of the Project Director, OCTDMS.

Monthly/Fortnightly review will be held at State Project Unit to monitor the progress of work for which the Consultant has to make necessary arrangements to submit data, information and progress of the works as desired by the Client.

## 8 PAYMENT SCHEDULING

### SCHEDULE FOR COMPLETION OF TASKS & RELEASE OF PAYMENTS THEREOF

Sl. No.	Description of Work	Schedule Days of submission (from Date of signing of contract)	% of Fund release #	Remarks on release of payment
1	Inception report	30 Days	10%	On acceptance of key indicators, questionnaires and formats for the

				survey, methodology regarding coverage and sampling strategy, statistical validity by the client.
2	1 <sup>st</sup> Draft report of <b>PIP</b>	60 Days	20% of the contract amount.	After scrutiny of draft reports and interaction with the consultants during workshop and suggestions thereof to the consultant.
3	i. 1 <sup>st</sup> Draft sharing workshop for <b>PIP</b>	70 Days		
4	2 <sup>nd</sup> Draft report <b>PIP</b>	90 Days	30% of the contract amount.	After scrutiny of final draft and interaction with the consultants during workshop and suggestions thereof to the consultant
5	2 <sup>nd</sup> Draft sharing workshop for <b>PIP</b> at the OCTDMS-SPU	100 Days		
6	Submission of final report of <b>PIP</b>	120 Days	40% of the contract amount	On acceptance of final report.
<b>Total:</b>			<b>100%</b>	

**NOTE:**

1. % of Fund Release of as mentioned above will be made upon satisfactory performance of each task/ deliverables and upon satisfactory submission of bills/ vouchers/ timesheets etc.
2. # Percentage of fund release excludes reimbursable amount for travelling & night halt expenses incurred by the consultant. Travelling & night halt expenses will be released on production of bill voucher through the invoices.

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 21.6.21  
**Project Director**  
**OCTDMS**