Request for Expression of Interest
GOVERNMENT OF ODISHA
DEPARTMENT OF WATER RESOURCES
Odisha Integrated Irrigation Project for Climate Resilient Agriculture (OIIPCRA)
Plot No-A-8/2, Bhoi Nagar, Beside RTO Office, Bhubaneswar-751 002, Odisha, India

Engagement of Consultant for Environmental & Social Impact Assessment and preparation of Environment & Social Management Framework (ESMF)

EOI No: OIIPCRA-07/2017-18  Date:26-04-2018

The Government of Odisha in partnership with Government of India will implement World Bank assisted project namely “OIIPCRA” with comprehensive basin plan and treatment of Minor & Medium Irrigation Projects covering irrigation command of 90,000 ha in the following river basin and sub-basins of Odisha. The upcoming project envisages inter linking of MIPs and Tanks as a part of Water Resource Network and pilot automation with Water budgeting. The project will ensure complete renovation and restoration of Irrigation projects to be taken up. It is expected to benefit around 2.00 lakh household as direct beneficiaries or more than 10.00 lakh rural inhabitants.

The project will be executed through Odisha Community Tank Development & Management Society (OCTDMS) which is the Special Purpose Vehicle (SPV) for this project. The work has been divided to be taken up in three different zones as under:

Jurisdiction of Zones:

a) Zone-I: Projects under Rushikulya basin.
b) Zone-II: Projects under Tel sub-basin.
c) Zone-III: Projects under Baitarani and Budhabalanga basin.

The objectives of the Consultancy Assignment are as follows:

The purpose of this consultancy work is to: (i) conduct an Environmental Assessment (EA) and Social Assessment (SA) to identify and assess potential environmental and social risks for the OIIPCRA project in Odisha and; (ii) prepare an environmental and social management framework (ESMF), to avoid and mitigate potential adverse social and environmental impacts of the project interventions and enhance the potential positive environmental and social impacts of the project interventions. Based on the EA SA, prepare standalone environmental/ social development/ safeguards instruments, as deemed appropriate.

Scope of Work and Outline of Key Activities

1. Environmental Assessment (EA): The EA will, among others will cover:
   a. Review the Legal and Policy Environment:
   b. Trigger the World Bank Safeguards Policies:
   c. Conduct Stakeholder Consultations and undertake Field Visits:
   d. Environmental Baselines
   e. Identification of Environmental Issues:
   f. Identify Environmental Impacts and Risks:

2. Social Assessment (SA):
   a. Beneficiary Assessment:
   b. Stakeholder Analyses:
c. Impact Assessments:
d. Institutional Analysis:
e. Analysis of key social risks;
f. Identify Key issues to be addressed by the project and prepare a Social Management Framework
g. Prepare standalone documents:
   Environmental and Social Management Framework (ESMF):
   Based on the findings of the EA, prepare an ESMF. The ESMF shall include, among others:
   a. Impacts and Mitigation Action:
   b. Measures for Enhancing Positive Environmental Outcomes:
   c. Negative List: A negative list of activities
d. Specific Strategies and Plans:
e. Implementation Arrangements for ESMF:
f. Monitoring Plan:
g. Capacity Enhancement:
h. Clauses for Inclusion in Bid Documents:
i. National and International Good Practices:
j. Provisions for Dam Safety: and
k. Budget for ESMF:

Eligibility Criteria:

Agency should be a registered organization/company with minimum 5 (Five) years of existence in the
relevant field.
Average annual turnover in last three years should not be less than One Crores INR.
Agency should have successfully executed similar nature of assignments for:
   a) At least one project where EIA/EMP/ESMF taken up in water resources/agriculture or
      similar field.
   b) At least one project on environmental assessment.
   c) At least one project on preparation of EIA/EMP/ESMF on Water Resources
      project/Infrastructure Project.
   d) Experience in Climate Resilience in Agriculture and Water sector desirable

Prior experience of working with donor agency like The World Bank, ADB, etc. in Agriculture and Climate
Change sector will be preferred. Prior experience of preparing EMP & ESMF of Irrigation and Agriculture
scheme/Infrastructure development will preferred.
The firms will be selected in accordance with the latest procedure set out in the World Bank guidelines:
Selection and employment of consultants by Bank borrowers.
Expression of Interest by interested consultant must be delivered to the Address below not later than 15.00 hrs
on 11-05-2018 and will be opened at 15.30 hrs on same day.
Office Name: Odisha Integrated Irrigation Project for Climate Resilient Agriculture (OIIPCRA)
Office Address: Project Director, OIIPCRA-cum-Special Secretary to Govt., DoWR
               Plot No-87/A, Bhoi Nagar,Beside RTO Office, Bhubaneswar, 751 022
Contact Person: Executive Engineer-Procurement
Telephone: 0674-2542252/9338710356

Sd/-26.04.2018
Project Director, OIIPCRA
-cum-Additional Secretary to
Govt., DoWR
Draft Terms of Reference for
Environmental and Social Management Framework (ESMF)
For
Odisha Integrated Irrigation Project for Climate Resilient Agriculture
(OIIPCRA)

I. Background

The Government of Odisha (GoO) has identified major constraints in realizing the full potential of its agriculture sector. With two thirds of its gross cropped area rain fed, natural calamities and erratic climatic conditions in the coastal state exert adverse influence over small operational holdings. Some 91.8 per cent of operational landholdings are marginal and small, 1.04 ha being the average size of operational landholding per household. However, these physiographic limitations are no barrier to realizing agriculture potential in the state as irrigation improvement and technology infusion have the potential to revive underperforming systems. In this regard, rehabilitating smallholder irrigation systems, promoting climate resilient agriculture technologies, and diversifying cereal-based cropping pattern to high value crops can contribute to revitalizing predominantly smallholder agriculture in the state, and contribute to realizing GoO’s policy thrust on capitalizing state’s varied agro-ecological conditions for growing a wide range of crops and high value commodities.

The proposed projects aims to contribute to the GoO master plan to irrigate 35 per cent of the cultivable area in 198 deficit blocks through a portfolio of measures available to increase crop water availability by maximizing soil infiltration, minimizing soil evaporation, collecting surface runoff for supplemental irrigation, and improving irrigation systems. The project will be implemented in rural areas where a significant proportion of the poor live, and whose livelihood is largely dependent upon rainfed agriculture; project activities, while strengthening resilience against adverse climate events, will directly contribute to an increase in the income of these smallholder farmers. The climate-resilient technologies promoted by the project will directly contribute to a more efficient use of scarce water resources (e.g. through scaling up micro irrigation systems, expanding surface water storage, facilitating managed aquifer recharge). Through the dissemination of agronomic practices (e.g. climate-resilient seed varieties, protective cultivation, contour cultivation, bunding and mulching), the project will help achieve improved soil quality, higher and more stable yields, and higher farmland productivity.

OCTDMS will manage and be responsible for implementation and outcomes of the OIIPCRA project, and for this purpose, the society has deployed a committed team of professionals at all levels, and established a Project Management Unit (PMU), at the state level. The project also draws on the strength of the existing government departments and schemes, and the PMU leverages the expertise and capacity of senior government officials from allied departments.
II. Objective

The purpose of this consultancy work is to: (i) conduct an Environmental Assessment (EA) and Social Assessment (SA) to identify and assess potential environmental and social risks for the OIICPRA project in Odisha and; (ii) prepare an environmental and social management framework (ESMF), to avoid and mitigate potential adverse social and environmental impacts of the project interventions and enhance the potential positive environmental and social impacts of the project interventions. Based on the EA SA, prepare standalone environmental/social development/safeguards instruments, as deemed appropriate.

III. Scope of Work and Outline of Key Activities

1. Environmental Assessment (EA): The selected consultant(s) will undertake an environmental assessment with a view to identify key environmental issues and challenges in relation to the proposed project activities and locations. The EA, shall be based on secondary data, field visits to a sample of proposed sites where project activities will be undertaken, wide stakeholder consultations and limited primary survey. The EA will, among others:

   a. **Review the Legal and Policy Environment:** With respect to the proposed project interventions, the consultants will review the Government’s (National and State) environmental policies, legislations, regulatory and administrative framework, specifically highlighting which of these are relevant and applicable to the proposed project activities;

   b. **Trigger the World Bank Safeguards Policies:** Identify which of the World Bank safeguards policies are applicable on the project.

   c. **Conduct Stakeholder Consultations and undertake Field Visits:** The consultants will identify the key project related stakeholders and undertake a stakeholder analysis. The consultants will hold wider consultations with all the key direct and indirect stakeholders making them aware of the objectives and potential environmental impacts of the proposed project. Consultations should cover a representative sample from the tanks in project areas (in each agro-climatic zone). A qualified team with desired skills shall conduct the stakeholder consultations. The field visits should be undertaken with a view to identify the current cultural practices and map the profiles of natural resources in project areas, which might be impacted due to project activities.

   d. **Environmental Baselines:** Based on the field trips and secondary sources, the consultants will prepare a baseline on key environmental issues.

   e. **Identification of Environmental Issues:** Identify and review potential environmental issues associated with project interventions. For example, efficient resource use (water and agro-chemicals, including fertilizers and pesticides), drainage, water logging and soil conditions, inflow and outflow hydrology, groundwater quality, aquaculture practices, etc. An indicative list of issues to be considered are provided in Annexure A.
f. **Identify Environmental Impacts and Risks:** Based on the historical trends and field-based observations, identify potential and likely environmental adverse risks and impacts of the proposed project activities.

2. **Social Assessment (SA):** The Consultants will also undertake a SA that will include, among others, the following:
   a. **Beneficiary Assessment:** comprising socioeconomic profiles at state, district and village level; the project beneficiaries’ assessment on the current status of management and services; and the linkages thereof with governance mechanisms and the local operational arrangements.
   b. **Stakeholder Analyses:** Identify stakeholders at different levels. Map Key Expectations, Impacts, Issues and Concerns as related to each stakeholder and the subgroups thereof.
   c. **Impact Assessments:** Identify positive and negative social impacts likely to occur for different sub-groups or beneficiaries as a result of project interventions; assess and prioritize impacts based on their significance; and suggest measures to minimize negative impacts and derive the maximum from positive impacts;
   d. **Institutional Analysis:** Document the existing institutional and implementation arrangements, covering all key actors – government departments, sector institutions, political bodies, community institutions etc.—and conduct a SWOT analysis;
   e. **Analysis of key social risks:** Ascertain and analyze key social risks, internal and external, to the project and measures to address them;
   f. Identify Key issues to be addressed by the project and prepare a Social Management Framework to address the same which may include: adjustments into implementation arrangements, capacity building, IEC etc. This will also bring clearly implications, if any, in respect of the Bank’s Operational Policies on Involuntary Resettlement and Indigenous Peoples- OP 4.10 and OP 4.12, as well as local level human and institutional development;
   g. **Prepare standalone documents:** Resettlement Policy Framework and Tribal Peoples Planning/Framework, and Gender Action Plans;
   h. Draw a mechanism for Redressal of Grievances and Citizen Engagement; and
   i. Develop Monitoring and Evaluation arrangements.

3. **Environmental and Social Management Framework (ESMF):** Based on the findings of the EA, prepare an ESMF drawing upon the experiences of the previous project and taking into account the new project areas and activities under the proposed project and by considering the changes in cultural and environmental baseline conditions at the field level. The ESMF shall include, among others:
   a. **Impacts and Mitigation Action:** Implementable and practical mitigation actions to address/reduce/reverse adverse environmental impacts against each of the identified (in the EA) adverse environmental impacts and risks;
   b. **Measures for Enhancing Positive Environmental Outcomes:** Suggest appropriate measures to enhance positive environmental impacts, such as, arising from use of organic and biological pest control and use of organic fertilizers through Integrated Pest and Nutrient Management practices, use of efficient irrigation approaches, etc.;
   c. **Negative List:** A negative list of activities that will not be supported through project investments;
d. **Specific Strategies and Plans:** Develop specific strategies and plans, such as, Pest Management Plan that includes elaborate Integrated Pest and Nutrient Management Plan (IPNM), Natural Habitat Management Plan etc., as may be required based on the findings of the EA;

e. **Implementation Arrangements for ESMF:** Suggests, in proportion to the identified risks and impacts, institutional and implementation mechanisms, including requirement of qualified staff(s) with clear roles and responsibilities for implementing the proposed mitigation actions at all stages of the project, including measures for integration in designing of sub-projects;

f. **Monitoring Plan:** Provide a list of indicators for monitoring the performance of agreed mitigation actions during project implementation;

g. **Capacity Enhancement:** Suggest measures, including trainings, for strengthening the Project Management capacity to implement, monitor, document and report on the various provisions of the ESMF;

h. **Clauses for Inclusion in Bid Documents:** The EMF should be able to provide a list of potential clauses related to tank system improvement that shall be integrated/incorporated into the bidding/contract documents. This shall include, as appropriate and in proportion to the anticipated potential risk and adverse impacts, Occupational Health and Safety Guidelines (OHSG), Labour working conditions and labour camps, construction labor management, disposal of excavated soil, silt plan, etc.;

i. **National and International Good Practices:** Include good practice guides, related to up-gradation and upkeep of the tank systems and agriculture enhancement;

j. **Provisions for Dam Safety:** The ESMF should identify the large dams above 10 m height and should review the working of any existing dam safety panel; suggest constituting one if not existing in the State for conducting regular monitoring and providing recommendations on dam safety issues. The dam safety evaluation and monitoring systems that are put in place in the earlier phase need to be revised, revised and agreed to; and

k. **Budget for ESMF:** Based on the suggested mitigation actions, staff and human resource requirements, monitoring and capacity building needs, the consultants will propose a financial budget for implementing the ESMF.

**Expected Outputs:**

i. Comprehensive report on Environmental Assessment

ii. Comprehensive report on Social Assessment

iii. ESMF;

iv. Pest Management Plans with elaborate Integrated Pest and Nutrient Management Plans;

v. Resettlement Policy Framework (RPF); and

vi. Tribal Peoples Planning Framework (TPPF);

vii. Any other plan that may be required as per the findings of the EA and SA.
IV. Qualification of Agency :

Agency should be a registered organization/ company with minimum 5 (Five) years of existence in the relevant field.

Average annual turnover in last three years should not be less than One Crores INR.

Agency should have successfully executed similar nature of assignments for:
   a) At least one project where EIA/EMP/ESMF taken up in water resources/ agriculture or similar field.
   b) At least one project on environmental assessment.
   c) At least one project on preparation of EIA/EMP/ESMF on Water Resources project/Infrastructure Project.
   d) Experience in Climate Resilience in Agriculture and Water sector desirable

Prior experience of working with donor agency like The World Bank, ADB, etc. in Agriculture and Climate Change sector will be preferred.

Prior experience of preparing EMP & ESMF of Irrigation and Agriculture scheme/Infrastructure development will preferred.

V. Team Composition:
1. One Environmental Management Expert: A graduate in Environmental Science/Engineering or related discipline. S/he should have experience of at least 10 years in environmental assessment of projects. Preference will be given to persons with experience of working on projects supported by multi-lateral/bilateral funding agencies such as the World Bank. Knowledge and experience in working for environmental compliance of the World Bank’s projects is desirable.
2. One Dam Safety/Hydrology Expert: A graduate in Civil Engineering/Hydrology or related discipline. S/he should have at least 10 years of prior experience in irrigation and urban dam projects, groundwater hydrology
3. One Agronomy Expert: A graduate in Agriculture or related discipline. S/he should have at least 10 years of experience in Integrated Pest and Nutrient Management, Aquatic Weed Management, Irrigated agriculture and farming systems, and having knowledge of both traditional practices and modern techniques for improving water use efficiency and agricultural productivity.
4. Social Development/ Safeguards Specialist: A post graduate with at least 10 years of analytical and operational experience in conduction of social assessments and preparation of community/ tribal development plans.
5. Women Development Specialist: A post graduate with at least 19 years of analytical and operational experience in conduction of gender impact assessments and preparation of gender action plans.

VI. Timeline of deliverables

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<tr>
<th>Milestones for ESMF Study</th>
<th>Timelines (from issuance of contract)</th>
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<td>Inception Report for with detailed field visit schedule and stakeholder consultation plan; the inception report should</td>
<td>2 weeks</td>
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VII. **Duration of Assignment**:  
The assignment would be for **14 weeks** from the date of signing of contract.

VIII. **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, OIIPCRA-cum-Special Secretary to Govt. (Chair Person)  
2. Project Finance Officer, SPU  
3. Executive Engineer, SPU  
4. Team Leader, ALSS Unit, SPU  
5. Agriculture Extension Coordinator, SPU – Convener  
6. IS & CB Expert, SPU  
7. Executive Engineer, Procurement, SPU  

The Committee shall co-opt any additional member, if needed, with the approval of the Project Director, OIIPCRA. Regular review will be held at State Project Unit to monitor the progress of work.

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Annexure 1: Environmental Assessment Indicators for OIIPCRA

1. Pest and Nutrient Management
2. Use of chemical pesticides and fertilizers
3. Aquatic weeds
4. Dam safety
5. Water storage and supply
6. Water logging and Drainage
7. Siltation/Sedimentation
8. Groundwater quality
9. Inflow and outflow hydrology
10. Biodiversity/fishing/aquaculture
11. Construction activities
12. Natural hazards
13. Foreshore activities
14. Storm surge analysis
15. Safeguard of cultural activities
16. Restoration of natural habitats
17. Health hazards

Annexure 2: Social Assessment Indicators for OIIPCRA

1. Beneficiary assessment,
2. Stakeholder analysis,
3. Social impacts,
4. Institutional assessments and risks analysis.
   The assessment would be carried out consistent with GoI, GoO and the World Bank safeguard requirements, policies, regulations and guidelines