



**PROJECT DIRECTORATE**  
**PROJECT IMPLEMENTATION UNIT - SIAPEP**

Sindh Seed Corporation Building, Ground Floor, Main Hussainabad Road,  
Hussainabad Hyderabad

Tel: 022-9260251 - 9260252



**EOI NOTICE**

**THE EXPRESSION OF INTEREST (EOI) FOR THE SELECTION OF INDIVIDUAL CONSULTANT FOR EVALUATION OF PROJECT ENVIRONMENTAL & SOCIAL IMPACT STUDY TO BE CARRIED OUT UNDER ESM PLAN**

The Government of Sindh is implementing Sindh Irrigated Agriculture Productivity Enhancement Project (SIAPEP) with financial assistance of the World Bank under IDA Credit No. Cr.5604 Pak aims to improve water and agriculture productivity for small and medium size farmers in Sindh.

The SIAPEP project carried out a detailed environmental and social impact assessment and prepared environmental and social management plan (ESMP) to mitigate any negative social and environmental impacts of the project; in line with the World Bank Safe Guards policy 4.01: Environmental and Social Assessment. Detailed TORs are attached with this letter mentioning the objectives of the study, scope of the work, deliverables & tasks with proposed timelines.

**Guidelines for submission of Expression of Interest (EOI):**

- The Individual Consultants are requested to prepare an Expression of Interest and provide evidence to support claims of knowledge, skills and experience;
- A short proposal (not more than 05 pages) on how to fulfil the requirements of the TOR, and also the financial proposal for the tasks mentioned in the TOR,
- Resumes/CVs with references,
- A sample of a similar assignment report is to be submitted.

The individual consultant will be selected in accordance with Section-V for Selection of Individual Consultants procedure set out in the World Bank's Guidelines: Selection and Employment of Consultant by World Bank Borrowers (January 2011). Individual Consultant will be chosen on the basis of relevant experience, qualification and the capability to carry out the assignment.

Please make it convenient to submit your Expression of Interest (Eoi) along with combine technical & financial proposal to Project Director, Project Implementation Unit, SIAPEP Sindh Hyderabad on the address given below latest by **Tuesday, August 30, 2022 on or before 05:00 pm** for further processing.

**PROJECT DIRECTOR**  
PIU-SIAPEP



Sindh Seed Corporation Building, Ground Floor,  
Hussainabad Hyderabad Sindh, Pakistan  
Phone# 00 92 022-9260251-52



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# TERMS OF REFERENCES (TORS) FOR EVALUATION OF ENVIRONMENTAL AND SOCIAL PERFORMANCE

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Sindh Irrigated Agriculture Productivity Enhancement  
Project-(SIAPEP)

SIAPEP | PIU Hyderabad | Sindh, Pakistan, Sindh Seed Corporation Building,  
Ground Floor, main Hussainabad Road Hyderabad



## **I. INTRODUCTION:**

Government of Sindh with the support of World Bank implemented SIAPEP from 2015 to 2021 (project is continuing in 2022) to improve irrigation water management at tertiary and field levels in Sindh. The project was categorized with minimum adverse impact on the environment. However, given the scope and scale of the activities, environmental and social impact assessment was carried at the start of the project, along with an environmental and social management plan.

### **Expected Results of SIAPEP Project**

Government of Sindh with the support of World Bank implemented SIAPEP from 2015 to 2021 (project is continuing in 2022) to improve irrigation water management at tertiary and field levels in Sindh. Project performance indicators:

- (i) Water courses with an increase in water course conveyance efficiency of at least 15 percent (5500).
- (ii) Direct project beneficiaries (2,000,000), of which female (25%).
- (iii) Water users provided with new/improved irrigation and drainage services (210,000), of which female (25%).
- (iv) Increase in cropping intensity in water course areas (20%); and
- (v) Increase in cropping intensity through high-efficiency irrigation systems (50%).

### **Environmental and Social Assessment and Management Plan**

The SIAPEP project carried out a detailed environmental and social impact assessment and prepared environmental and social management plan (ESMP) to mitigate any negative social and environmental impacts of the project; in line with the World Bank Safe Guards policy 4.01: Environmental and Social Assessment.

The objective of environmental and social assessment included:

- Review the state of the social and environment in the project area as an input to the decision-making process.
- Ensure that environmental and social concerns are recognized at an early stage and are taken into account in the identification and consideration of project alternatives, selection, detailed project planning and design; and
- Identifying ways of improving the project by preventing, minimizing, mitigating or compensating any adverse environment and social impacts

Following were the main parts under Environmental Assessment Study

- Baseline studies on physical resources, biological resources, social and historical aspects and other relevant information and data
- Identification, screening and description of positive and negative social and environmental impacts and mitigation measures
- Environmental and social Management Plan
- Integrated Pest Management Plan (OP-4.09)

### **Environmental Assessment summarized following key points:**

- With the implementation of this project, water courses will be improved, high efficiency irrigation systems (HIES) and capacity building of farmers typically will reduce input costs, increase yields, lower irrigation labor, diversify cropping patterns, and will save water.



- Community water infrastructure improvement will help community to mitigate flood risk for the poor.
- Provision of small HEIS KG kits to Women Headed Holds & landless farmers to improve health/nutrition as well to promote micro irrigation systems/solutions at household level.
- Soil testing should be carried out for soil build up prior to start of use of High Efficiency Irrigation System and should be conducted at a biennial basis.
- Since the project does not fall under the schedule I and schedule-II of PEPA, 1997 so no IEE or EIA was required but as per the operation policies of the World Bank the Environmental Assessment of the project was done.

### **Baseline of social elements**

Project baseline study also assessed the social elements and included the management plan. Social assessment included the level of poverty in the irrigated areas. Poverty in the project area varies from geographic tract to tract. Following are major highlights of social assessment:

- Poverty is pervasive and deep in rural Sindh, data reveals that about 37% of the rural population lives below the poverty line compared to 33% in Pakistan on an overall basis.
- Over 70% of the rural population is land less. A typical poor household in rural Sindh has little assets or land, depends on wage income, and is significantly larger than the non-poor or even compared to the average poor household of Pakistan.
- The rural poor tend to be employed mostly as agriculture wage workers. The concentration of poor is the highest among categories of households where the head is an unpaid family worker, sharecropper, or owner-cultivator owning less than 2 hectares of land. The poverty headcounts in these categories are 60%, 50% and 40% respectively.

Social assessment also included the role of women in agriculture. Women are pre-dominant in all the sub-sectors of agriculture namely farming processing and distribution. As farm owners, farm partners and farm laborers women are estimated to account for 50 to 60% of food consumed in the project area. Women face following challenges in carrying out economic activities as follows:

- Access to and control over land due to traditional/cultural problems
- Access to credit due to lack of collateral, inadequate savings needed for equity payment required for loans, cumbersome bureaucratic procedures for accessing formal credit facilities
- Access to training due to ignorance on the awareness of training programs and low educational qualifications
- Access to hired labor on their farms due to rural urban migration
- Access to other inputs, fertilizer, extension services, information technology Customary
- laws of access to land and inheritance

### **Environment and Social Management Plan (ESMP)**

In the light of baseline, an Environment and Social Management Plan (ESMP) was prepared to mitigate the negative impact of the project.

### **ESMP Objectives**

The ESMP aimed to provide implementation mechanism for the mitigation and control measures for the potential impacts of the project on environment and people, these include:

- To provide a mechanism to implement the mitigation and control measures identified during the present ESA.
- To propose institutional arrangements to implement the above mentioned mitigation and control measures





- To define environmental monitoring requirements to ensure effective implementation of the mitigation and control measures.
- To identify capacity building needs with respect to the environmental and social aspects of the project.
- To specify the documentation requirements with respect to the ESMP implementation.

### **ESMP Components**

In line with the ESMP objectives presented above, the key elements of the ESMP include the following:

- Institutional setup Environmental and social guidelines
- Monitoring mechanism.
- Environmental and social trainings
- Grievance redressal mechanism.
- Documentation and reporting system.

## **2. EVALUATION OF ENVIRONMENTAL AND SOCIAL PERFORMANCE**

### **Objectives of the Study**

The overall purpose of this study is to evaluate the environmental and social performance while implementing major interventions of the project including Improvement of water courses, improvement in irrigation technologies and practices, kitchen gardening, promotion of high efficiency irrigation system, promotion of laser land leveling, introduction of deep plowing, farmers field schools, integrated pest management, promotion of environment friendly Natural Enemies Farm Reservoirs (NEFRs) and capacity building of project staff as well as members of WCAs & HEIS beneficiaries.

The study will focus mainly on efficacy, efficiency and impact of E&S measured planned in project Environment Assessment (EA) and in the ESMP and how these were executed/performed during project implementation. More specifically the study will encompass the following:

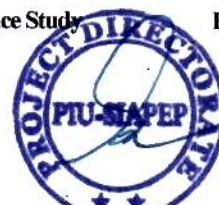
- To assess the strength of institutional set up with reference to adequacy, performance, skills and knowledge engaged in achieving objectives of project EIA/ ESMP implementation; and all tasks related to E&S performance
- To evaluate compliance status of monitoring & reporting mechanism; and assessing have the E&S issues raised, reported and mitigated timely; and redressed during ESMP implementation.
- Evaluate if the concerned field staff and management efficiently pursued and followed up on reported E&S non-compliances and addressed the issues as evident from available evidences.
- To assess the implementation status of IPM practices with qualitative and quantitative evidences and to assess the impacts of IPM in the field.
- Evaluate the E&S performance with regards to testing of pesticides residues of farmers and crops as well soils and farmers as prescribed in IPMP; while highlighting the successes, and shortcoming gaps, if any, with reasons leading to such successes/shortcomings.
- To assess the project performance regarding capacity building trainings/ awareness raising events conducted during project implementation and highlight its adequacy, efficacy and impact in the overall project E&S implementation process.
- Whether consultation was carried out or not, if yes, with whom and how effective these were?



- Assess and evaluate the efficacy and effectiveness of project GRM; with respect to registration, addressal, and reporting back the grievances during implementation?
- To assess and evaluate any residual impacts of project interventions in terms of positive and adverse E&S impacts.
- Assess the efficiency and efficacy of introducing NEFRS, its results, outreach and related documentation.
- Based on the assessment, draw clear lessons related to E&S performance that could possibly be integrated in such future projects.

**Task to be carried out by individual consultant**

1. Review all the relevant project documents specifically environmental and social management plan for understanding the key E&S aspects covered in the ESMP & EIA; and PAD for getting an insight of project activities.
2. Review other relevant project documents including baseline studies, project progress review reports and aid memoirs, minutes of meetings issued time to time by project policy committee, project steering committee, and project implementation committee, etc.
3. Arrange a consultative meeting with project management team including field teams where necessary to discuss the study objectives and obtain information about ESMP implementation mechanism and relevant field activities.
4. Collect data of the relevant interventions from official sources this will include but not limited to:
  - a. No of staff, their skills & capacity, engaged in implementation of ESMP activities.
  - b. No of training /awareness events carried out.
  - c. No of participants in different training/awareness events, attended by farmers and field staff at different locations/districts with gender disaggregated data.
  - d. No of soil samples tested.
  - e. No of location and acreage where integrated pest management was applied.
  - f. No. of trees planted against trees removed or cut for project operations.
  - g. No. of conflicts if any resolved.
  - h. No. of water course association formed and their membership along with data showing women representation.
  - i. No. of laser level and deep plough equipment distributed.
  - j. Land in acres improved through laser leveling.
  - k. No. of washing bays constructed on watercourses to address water pollution.
  - l. No. of additional acres of land brought under cultivation due to increased water efficiency and reduced conveyance losses.
  - m. Any official documentation of results of pesticides residual survey.
  - n. No. of fruit and vegetable samples checked for pesticide residue
  - o. Data on testing of water samples to check the toxic levels
  - p. No. of farmers used alternate techniques such as IPM, using disease-resistant seeds, and mulching)
  - q. No. of farmers who received IPM training in FFS and NEFRS capacity building events.
  - r. No. of farmers went for pesticide residue testing.
  - s. No. of culverts and other routes built to facilitate local communities
  - t. No. of protective apparatus supplied to the cotton pickers





- u. No of women benefited from KG kit intervention and improved their nutrition and social status.
- v. Assessing official documentation on status of GRM.
- w. No. of social mobilization meetings conducted and communication efforts taken for raising awareness.
- x. Assessing the socio-economic and cultural factors which hinder the participation of women farmer in project activities.
- y. Apart from above, assessing all other relevant documents available to support study objectives.
- z. Number and frequency of project/E&S progress reports generated, disseminated and shared with the WB.

## PROPOSED METHODOLOGY

To assess social and environmental performance, the individual consultant will consider following proposed methodology:

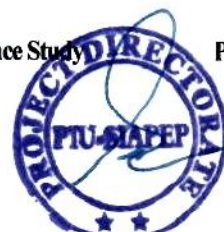
- **Literature review:** Desktop review of existing studies and research and identify main drivers, indicators and parameters to be further explored under this study. These documents will include ESMP, ESMF, EIA and WB-OP triggered on project. Review the baseline study of project as well Quarterly Progress Review Reports (QPRs).
- **Primary data collection:** In order to substantiate the above official data, a field survey of project area will be carried out to assess social and environmental performance; Improvement of Watercourses (WCs), Installation of High Efficiency Irrigation System (HEIS), Field Farmer Schools (FFS), Installation of Kitchen Gardening Kits (KGKs), sustainability of NEFRs and Implementation of Integrated Pest Management Plan. The information can be collected through semi-structured questionnaires and focus group discussion on all above aspects of the key interventions.

### Key parameters for data collection and analysis

The primary data collection and literature review will guide to respond following key questions and aspects of the impact study:

- Assessment of the Physical and biological changes occurred due to project activities/interventions.
- Detect and analyze the major changes in agriculture practices adopted by farmers due to project activity/interventions.
- Evaluate the tree plantation effects carried out in project areas.
- Analyze the social and cultural/behavioral changes triggered by project interventions.
- Document specific case studies/success stories of farmers benefited from project interventions.
- Identify and assess the process of Gender mainstreaming, women's participation in the project activities/ interventions
- Evaluate the impact on women's income, lives due to project interventions.
- Document the challenges faced in engaging women beneficiaries in SIAPEP
- Examine the effect of Social Mobilization, capacity building and awareness activities in farmers knowledge about modern farming techniques
- Find any positive impacts of the projects which may occur in future.

## 3. DELIVERABLES / SPECIFIC OUTPUTS EXPECTED FROM INDIVIDUAL CONSULTANT/S



## **Inception Report**

The Individual Consultant will prepare and submit a detailed inception report including study framework/methodology which will be formally reviewed and approved by the project team prior to start of the actual field work. The inception report will cover:

- Assessment Methodology looking in to the geographic and demographic situation of the Project districts and the study will be conducted region wise (Upper & Lower).
- Detailed study framework, with indicators and sub- indicators related to the objective
- Tools for data collection
- Timeline of the study
- Details of the individual consultant (CV/profile of researchers)
- Comments on TORs
- Key Study limitations and proposed solutions.

## **Draft report**

The Individual Consultant will produce/submit a draft report in soft form (of no more than 30 pages plus annexes, in Microsoft Word). The report should include:

- Basic Information (max. 1 page)
- Executive Summary (2-3 page) Introduction/Background of the project (max. 1 page)
- Evaluation methodology
- Findings from the evaluation
- Summary of recommendations/lessons
- Annexes Evaluation ToRs, Evaluation schedule, List of persons interviewed and sites visited, Documents consulted, Data collection tools and raw data.

## **Final report**

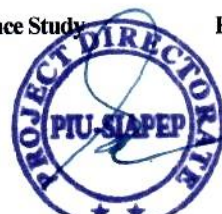
The individual consultant will produce/submit a final report in hard and soft form (of no more than 30 pages plus annexes). On the basis of feedback/recommendations provided by project team/consultants.

## **Power point presentation including graphics**

- Background
- Methodology
- Data analysis
- Conclusion & Suggestions
- Any other

## **4. SPECIAL TERMS & CONDITIONS / SPECIFIC CRITERIA**

- The Individual Consultant will submit an inception report within 15 days from the date of signing of the contract. The inception report should outline the approach, methodology, conceptual framework, milestones and timetable for deliverables.
- The Individual Consultant should have local counterparts in Sindh with experience in relevant field. The role of counterparts will include to arrange meetings and coordinate with SIAPEP teams/consultants during the assessments at the district level.
- The Individual Consultant must have proven experience and expertise in conducting environmental and social impact assessments.





## 5. TIMELINE FOR THE ASSIGNMENT

Sr. #	Task	Calendar Days
I	Desktop review and preparation of inception report and data collection tools	15
II	Fieldwork data collection	30
III	Data analysis	15
IV	Producing and submission of draft report	15
V	Comments and feedback	15
VI	Submission of final report after incorporate suggestions from SIAPEP team	10
VII	Power point presentation including graphics	05
<i>The timeline for conducting this study is 3.5 months (105 days)</i>		

### Milestones for the assignment for Payment

Sr. No	Deliverables / Milestone	Timelines	Payment schedule (%)
1	An inception report with plans and draft of data collection tools	By 2 <sup>nd</sup> week	15%
2	Completion of Field work	By 7 <sup>th</sup> week	25%
3	After draft report	By 11 <sup>th</sup> week	15%
4	Incorporate of acceptable suggestions	By 13 <sup>th</sup> week	25%
5	Submission of final report and PowerPoint presentation	By 15 <sup>th</sup> week	20%
		<b>Total</b>	<b>100%</b>

## 6. MINIMUM INDIVIDUAL CONSULTANT REQUIREMENTS

### Education

The Individual Consultant should have a postgraduate university degree in Social or Natural Sciences or other relevant discipline.

### Technical and Functional Experience

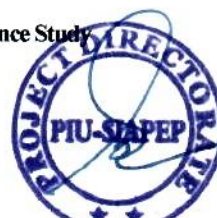
The Individual Consultant should have: A minimum of 05 years practical experience in the field of data gathering and analysis as per required data.

### Languages

Fluency in written and spoken English is required and local language will be an advantage but not essential.

### Guidelines for submission of Expression of Interest (EOI):

- Interested consultants are requested to prepare an Expression of Interest and provide evidence to support claims of knowledge, skills and experience;
- A short proposal (not more than 5 pages) on how to fulfil the requirements of the TOR, and also the financial proposal for the tasks mentioned in the TOR,



- Resumes/CVs with references,
- A sample of a similar assignment report is to be submitted.

## 7. SELECTION PROCESS

The individual consultant will be selected in accordance with Section V of World Bank Guidelines for Selection & Employment of Consultant under IBRD Loans & IDA Credits & Grants. (January 2011).

