



Terms of Reference

Final Evaluation of Sindh Irrigated Agriculture Productivity Enhancement Project (SIAPEP)

PK-SIAPEP-FINAL-EVALUATION-2023/52

MARCH 2023

**Project Directorate Sindh Irrigated Agriculture Productivity Enhancement
Project (SIAPEP)**

**PIU Hyderabad, Sindh Seed Corporation Building, Ground Floor, Main
Hussainabad Road, Hyderabad.**

1. INTRODUCTION

Sindh Irrigated Agriculture Productivity Enhancement Project (SIAPEP) is funded by the World Bank and Government of Sindh. It started in 2016 and completed its original 6 years' life in December 2021. The project was granted two extensions and currently the closing date of the project stands as 30th September 2023. The project is being implemented by the Government of Sindh through Water Management wing of Agriculture Department.

The SIAPEP is managed through Project Management Unit (PIU) situated in Hyderabad, headed by a Project Director (PD). The PD is assisted by two Directors: Director Upper Sindh and Director Lower. To implement the project activities in the field, 100 field teams are provided in all 24 districts of the province. Moreover, a Project Supervision and Implementation Assistance Consulting (PSIAC) firm and a Monitoring and Evaluation Consulting (M&EC) firm is also engaged to assist the PD in project implementation and its M&E. The PSIAC is also responsible for Technical Assistance and Training (TAT) component of the project.

1.1. Project Components and Targets

The project has following three major components:

i) Component A: Community Water Infrastructure Improvement.

It has two sub-components: Community Watercourse Lining and Construction of Flood shelters in flood prone areas. The original target for watercourse lining up to 30% was 5,500. However, the target was revised and increased to 6,000. Moreover, the lining proportion has also been increased up to 50%. A number of watercourses improved up to 30% in the original period of the project have also been allowed to extend their lining up to 50%.

ii) Component B: Promotion and Installation of High Efficiency Irrigation Systems.

It also has two sub-components: first, installation of 2,600 high efficiency irrigation systems (HEIS) on farmers' fields on demand with cost sharing basis at 40:60. The area to be served by these units was planned at 14,300 hectares (35,000 acres). Second, provision of 10,000 Kitchen Garden Kits (KGK) to poor, landless and preferably female headed households. It also includes 48 demonstration plots (5 acres each and two in each district) of HEIS and 100 of KGK. Later on, the target of KG kits was increased to 15,000 units.

iii) Component-C: Improved Agriculture Practices.

It has three sub-components: First, Provision of Laser Land Levelling and Deep Ripping Equipment 1,100 each to farmers / service providers on cost sharing basis. Later on, the target for Laser Equipment was enhanced to 1,290 and then to 1,790. Second, improved agriculture production technology through Farmers' field Schools (FFS). The original targets were 1,500 FFSs and later on increased to 1,900. This sub-component also includes establishment of 50 Natural Enemies Farm Reservoirs (NEFRs), establishment of six information KIOSKs, and trainings & exposure visits of farmers.



1.2. Project Objectives

The objective of the Project is to improve irrigation water management at tertiary and field levels in Sindh. Progress towards achieving the Project Development Objectives will be measured through the following key performance indicators:

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

1.3. Project Achievements

The progress on various components (sub-components) can be seen at Annex-A

As of 31st Dec, 2022

PAD Ref #	Activity Description	Unit	Targets	Achievement
A1	Community Watercourse Improvement			
	Fresh Watercourses	No.	6000	5,882
	Additional Lining of Watercourses	No.	1200	421
A2	Mitigation of Flood Risks for the Poor (Tents and Mosquito Nets)	No.	0	27,100 tents, 2,200,000 Nets
A3	Project Supervision and Implementation Consultants (PSIAC)			
B1	Promotion and Installation of High Efficiency Irrigation Systems (HEIS)	Farms (Acres)	2,648 (35,240)	647 units and 10430 acres
B2	Kitchen Garden (KG) HEIS Kits	No.	15100	13,250
C1	Provision of Laser Land Levelling equipment	No.	1790	1,290
	Provision of Deep Ripping equipment	No.	1100	224
C2	Training of Tractor Operators for Laser Eq.	No.	500	72
	Training of Tractor Operators for DRE Eq.	No.	225	175
	Establishment of Farmers Field Schools	No.	1900	1,900
	Farmer Exposure Visits	Persons	500	302
	Natural enemies Farm Reservoirs (NEFR)	No.	50	50
	Facilitators Trainings	No.	30	30
	Establishment of KIOSKs/ Resource Centers	No.	6	6
	Farmer Field Days	No.	120	49
C3	Technical Assistance & Training Consultants (TAT)			
D1	Monitoring & Evaluation Consultants (M&EC)			
D2	Strategic Studies			



	Providing Mobile Phone with GPS	No.	200	200
	Training Brochure Pamphlet			
	Grievances, EMP, RMP & GAP			
	Rehabilitation of project interventions, affected/damaged by the 2022 floods.			

2. OBJECTIVE OF THE ASSIGNMENT

The overall objective of this assignment is to provide an evidence-based, independent assessment of performance of the Sindh Irrigated Agriculture Productivity Enhancement Project (SIAPEP).

The more specific objective of this study is to assess performance of the project in contributing towards its stated development objectives through learning and reflections by applying DAC criteria capturing both its qualitative and quantitative results. Under the specific objectives, the project evaluation study will further respond to below learning questions by taking participatory approach engaging all partners, communities and stakeholders involved in the project implementation.

KEY QUESTIONS BASED ON DAC CRITERIA

The evaluation of the project activities will be carried out according to OECD DAC criteria and as outlined below:

Criteria & Description	Key Evaluation Questions	Explanation
Relevance	Are the project interventions doing the right things?	The extent to which the intervention objectives and design respond to the beneficiaries, province, and country needs, policies, and priorities, and continue to do so if circumstances change.
Coherence	How well the interventions fit?	The compatibility of the interventions with other interventions in the province, country, and sector.
Effectiveness	Do the interventions achieve their objectives?	The extent to which the interventions achieved, or is expected to achieve, its objectives, and its results, including any differential results across relevant groups.
Efficiency	How well are resources being used?	The extent to which the interventions deliver, or are likely to deliver, results in an economic and timely way.



Impact	What difference the project interventions make?	The extent to which the interventions have generated or are expected to generate significant positive or negative, intended or unintended, higher-level effects.
Sustainability	Will the benefits last?	The extent to which the net benefits of the interventions will continue, or are likely to continue.

3. SCOPE OF WORK

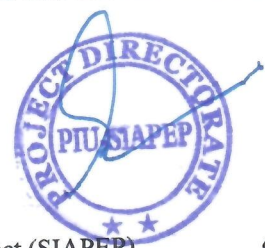
Following is the scope work for the consultant to carry out the final evaluation.

Component	Achievements	Gross Beneficiaries	Net Factor	Net Beneficiaries
Watercourse lining	5,882	216,000	1	216,000
HEIS Farms	647 units and 10430 acres	2,648	0.5	1,324
KG Kits	13,250	15,100	0.8	12,080
PLL Equip.	1290	48,867	0.46	22,479
DR Equip	224	30,000	0.46	13,800
FFS	1900	47,500	-	-
Total Beneficiary Households	220,645	235,000	-	266,000
Total Beneficiary Population (Millions)	2.09	1.99	-	2.25

In addition to evaluating the project's normal interventions listed above, the consultant will also evaluate the efforts carried out to rehabilitate the flood-damaged project interventions – mainly watercourses and water storage tanks – and assess the extent to which build-back-better measures have been incorporated to increase resilience against future such disasters.

The consultant's assignment will include the following steps:

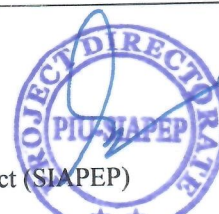
- The consultant/firm is expected to use mix research methods (qualitative and quantitative) and select representative samples across all project interventions and districts and share with the client for occurrence.
- Discuss with the client and finalize the methodology to complete the study. This shall include a team planning workshop during which the consultant will jointly develop an evaluation approach using the "response matrix. This matrix will indicate what information will answer which evaluation question and who will be the appropriate respondent to answer those questions.
- Based on the planning workshop, the questions to gather this information will be asked in quantitative surveys or in-depth qualitative interviews. This matrix will also provide an overall approach to the analysis and list the limitations of the proposed methods and how to overcome these limitations.



- iv) Develop data collection tools, interview guides and finalize the tools in the light of the client's comments. The quantitative data may preferably be collected by developing and using an android application for tabs / smart phones whereas, for qualitative data the consultant need to set a system to record interviews, transcribe them (verbatim or notes approach), and a system to share with client for real time review. Establish a reliable and an efficient data transmittal from the field and cleaning and managing at headquarter.
- v) Recruit teams for data collection and carry out their training before commencing the field data collection
- vi) Arrange adequate logistics and transport for the team
- vii) Prepare data collection plan, tabulation plan, and report outline. Share these with the client for approval.
- viii) Carry out quantitative data cleaning and analysis using SPSS/STATA and qualitative data analysis using Nvivo/MaxODA or any other similar softwares.
- ix) Prepare first draft of the final evaluation report and share with the client for comments
- x) Submit final draft of the final evaluation report after incorporating client's comments.
- xi) Effective coordination will be ensured with all concerned including project implementation unit (PIU), planning and development board, Government of Sindh.
- xii) The consultant shall remain engaged with the client till the approval of final evaluation report.
- xiii) All the supporting data generated will properly be handed over to the Client.
- xiv) **Above all, the consultant shall carryout the final evaluation while considering the progress against Key Performance Indicators of the project as stated in the Results Framework.**

4. DELIVERABLES WITH TENTATIVE TIMELINES

S.#	Activity	Timeline
1	Consultant mobilization after issuance of work order and signing of the agreement	Week-1
2	Submission of Inception Report: sampling framework strategy, sample size and methodology.	Week-2
3	Development and finalization of data collection tools and development of android application	Week-3 to 4
4	Orientation training of survey team, pretesting of data collection tools and android application	Week-5
5	Data collection, cleaning, and analysis	Week-6 to 9
6	Submission of first draft of Final Evaluation Report	Week-10 to 11
7	Validation Workshop	Week-12
8	Submission of Final report	Week-12



5. QUALIFICATION AND EXPERIENCE OF THE CONSULTANTING FIRM

Firm should be in similar business; covered under these ToRs, for 10 years' conducting socio-economic surveys and studies. It should also have at least 5 similar projects.

The firm should have adequate logistical capacity and should be registered with an appropriate forum.

The firm should have following professional staff¹

Sr No	Details of Professional Staff
1	Team Lead Consultant
2	Water Management Specialist /Irrigation Expert
3	Data Analyst
4	Agriculture/Development economic
5	Environment Specialist
6	Gender / Social Expert

6. DURATION AND TIMING

The Consulting firm shall be engaged for the period of three (03) months. The assignment shall be completed within three (03) months after award of the contract.

7. SELECTION CRITERIA

- Following would be the evaluation criteria:

Sr. No	Evaluation Criteria
1	Firm should be in similar business covered under ToRs for 10 years' conducting socio-economic surveys and studies.
2	Specific experience of carrying out minimum 5 similar projects during last 7 years in Pakistan.
3	The consulting firm should have adequate number of professionals consistent with tasks delineated in ToRs.
4	Firm should be registered with an appropriate forum and have adequate logistical capacity

8. SELECTION PROCESS

A consulting firm will be selected in accordance with the Selection Based on Consultants Qualification (CQS) method set out in the World Bank's Guidelines: *Selection and Employment of Consultants [under IBRD Loans & IDA Credits and Grants] by World Bank Borrowers January 2011 (revised June 2014)*

¹ CVs not required at REoI stage



Annex-A

Component-wise Progress:

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