



FEDERAL PROJECT MANAGEMENT UNIT
FEDERAL WATER MANAGEMENT CELL
MINISTRY OF NATIONAL
FOOD SECURITY & RESEARCH
ISLAMABAD - PAKISTAN

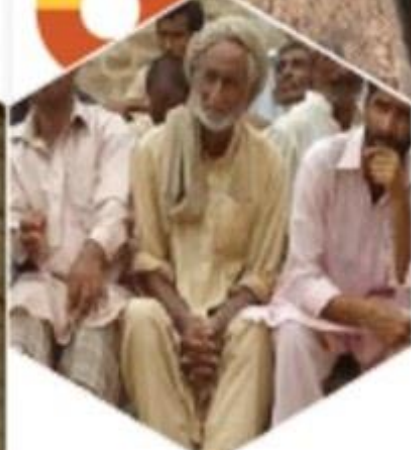
NATIONAL PROGRAM FOR IMPROVEMENT OF WATERCOURSES IN PAKISTAN PHASE-II: (NPIWC-II)

MONITORING, EVALUATION
AND IMPACT EVALUATION
CONSULTANTS



QUARTERLY MONITORING & EVALUATION REPORT

OCT TO DEC 2022



A Joint Venture of
G3 Engineering Consultants (Pvt.) Ltd.



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In Association with **S&S Associates**



**Federal Project Management Unit (FPMU)
Federal Water Management Cell (FWMC)
Ministry of National Food Security & Research, Islamabad**

**Monitoring, Evaluation and Impact Evaluation (ME&IE) Consultants
For
National Program for Improvement of Watercourses in Pakistan Phase-II (NPIWC-II)**

QUARTERLY MONITORING AND EVALUATION REPORT

OCTOBER - DECEMBER 2022

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ACRONYMS

ADA	Assistant Director Agriculture
AES	Agriculture Extension Services
AF	Acre-Feet
AJK	Azad Jammu & Kashmir
AWPB	Annual Work Plan and Budget
AWPs	Annual Work Plans
BCR	Benefit Cost Ratio
CFT	Cubic Feet
CMS	Content Management System
CSRD	Center for Social Research and Development
DAES	Director Agriculture Extension Services
DDA	Deputy Director Agriculture
DGA	Director General Agriculture
DTL	Deputy Team Leader
EAs	Executing Agencies
EIRR	Economic Internal Rate of Return
FCR	Financial Completion Report
FCRs	Final Completion Reports
FMFSR	Framework for Federal Financial Management System
FOs	Farmers Organizations
FPMU	Federal Project Management Unit
FWMC	Federal Water Management Cell
GAP	Gender Action Plan
GB	Gilgit Baltistan
G3EC	G3 Engineering Consultants
GIS	Geographic Information System
HEIS	High Efficiency Irrigation System
IAS	Implementing Agencies
ICR	Interim Completion Report
ICT	Islamabad Capital Territory
IRR	Internal Rate of Return
ICT	Information & Communication Technology
JV	Joint Venture
KP	Khyber Pakhtunkhwa
LLL	Laser Land Leveler
LPS	Liter Per Second
M&E	Monitoring and Evaluation
MAF	Million Acre Feet
ME&IE	Monitoring, Evaluation and Impact Evaluation
MIS	Management Information System
MNFSR	Ministry of National Food Security and Research
MMR	Monthly Monitoring Report
MT	Monitoring Template
MTE	Mid-Term Evaluation
NESPAK	National Engineering Services Pakistan
NPC	National Project Coordinator

NPIWC	National Program for Improvement of Watercourses
NPV	Net Present Value
NWMC	National Water Management Consultants
OFWM	On Farm Water Management
PC-1	Planning Commission-(Form-One)
PDO	Project Development Objectives
PIC	Project Implementation Committee
PIES	Project Impact Evaluation Study
PQC	Pre-Qualification Committee
QM&ER	Quarterly Monitoring and Evaluation Report
RBM	Results-Based Management
RFT	Running Feet
RWD	Responsive Web Design
SFT	Square Feet
SOPs	Standardized Operating Procedures
SPSS	Statistical Package for Social Sciences (Software)
SSCs	Supply and Service Companies
TABs	Tablets
TL	Team Leader
TOR	Terms of Reference
TPV	Third Party Validation
TWRD	Tail-Water Recovery Ditch
WG	Women Group
WST	Water Storage Tank
WUAs	Water Users Associations

EXECUTIVE SUMMARY

The report in hand, “Quarterly Monitoring and Evaluation Report for the period of 01st October 2022 to 31st December 2022 is comprising of five chapters.

Chapter-1 describes the detailed introduction and description of the project. The Government of Pakistan is implementing the project “National Program for Improvement of Watercourses in Pakistan Phase-II” (NPIWC-II) at a total cost of PKR 154,542.355 million (Umbrella PC-I including Sindh) over a period of 05 years. This project will cover Punjab, Khyber Pakhtunkhwa (KP), Balochistan, Gilgit Baltistan (GB), Azad Jammu & Kashmir (AJ&K) as well as Islamabad Capital Territory (ICT). The proposed project Phase-II is beneficial for the country.

The NPIWC-II comprises four components to be implemented in Punjab, KP, Balochistan, GB, AJK, and ICT:

- i) C1: Organization of Water Users Associations
- ii) C2: Watercourse Improvements: 47,278 Nos.
- iii) C3: Construction of Water Storage Tanks: 14,932 Nos.
- iv) C4: Provision of Laser Land Leveling Units: 11,610 Nos.

Chapter-2 elaborates the objectives and Scope of Work of the ME&IE Consultants for the project. Since the ME&IE Consultants are going to monitor implementation of all criteria set, procedures defined and timeline agreed for implementation of various components, all these are reproduced in this report as ready reference to devise / design M&E strategy, methodology, procedures for monitoring and impact assessments of the project interventions.

The monitoring strategy planned to be followed by ME&IE Consultants is briefly described in the Table-2.1. The strategy aims to be finalized and implemented in close coordination with the client and active participation of the beneficiaries as well as the project stakeholders.

Chapter -3 of this report covers the detail of ME&IE Consultants’ activities initiating during the reporting period (01st October 2022 to 31st December 2022) as listed below:

- Pre- Field Activities
- Field Activities

- ICT Assignment
- Coordination
- Deliverables

Chapter 3 also summarizes the compliance status of tentative Quarterly Work Plan.

Chapter-4 of this report describes the activities completed during the reporting period as summarized below:

- Finalization of Monitoring Tools
- Regular Monitoring of Interventions in The Field
- Coordination Meetings of ME&IE Consultants with Client and Stakeholders
- Internal Meetings of ME&IE Consultants
- Development of Customized Android Based Applications
- Data Collection of Interventions in MIS/GIS Database
- Online Data Entry in Android Based Application.
- Baseline survey field visits
- Data collection of interventions in MIS/GIS database
- Data entry, Data cleaning, Data processing & data Analysis
- Updataion of data on Dashboard.
- Implementation of Mis Dashboard
- Balochistan Zone Capacity Building Training
- Monitoring / Data Collection on Social and Gender Component

Chapter-5: highlights the problems faced by the consultants during the ME&IE activities. Due to non-availability of data from NWMC (NESPAK) & respective Directorates, and resources from Client, ME&IE Consultants have been facing constraints for timely completion of activates of the assignment.

Table ES.1: Compliance Status of Quarterly Tentative Work Plan, 01st October 2022 to 31st December 2022

No.	Activities Planned for the Reporting Quarter		Status	
1	Pre-Field Activities			
	1.1	Finalization of MTs for Preparation of 2nd-Baseline Survey	Complied / submitted along with survey manual	
	1.2	Internal Meetings ME&IE Consultants' Zonal Offices for development of Methodology for Baseline Survey -II.	Complied	
	1.3	Training of Field Staff for Baseline Survey -II	Complied	
2	Field Activities:			
	2.1	Regular Monitoring of Interventions in the Field	Complied	
	2.2	Data collection of the interventions in the field	Complied	
	2.3	Baseline Survey-II	Complied	
	2.4	Online data entry in android-based application	Complied	
3	ICT Assignment:			
	3.1	Development / Improvement of website of NPIWC-II	Complied	
	3.2	Monitoring online data collection and Data entry	Complied	
	3.3	Monitoring Android based Mobile Application under implementation by field staff.	Complied	
	3.4	Data collection of interventions in MIS/GIS database	Complied	
	3.5	Data Cleaning. Development & Launching of Dashboard for Client Offices	Complied	
4	Coordination			
	4.1	Meetings of TL, ME&IE Consultants with NPC regarding Project Progress / Issues	Meetings conducted on regular basis	
	4.2	Meeting of DTLs with respective DTL of NWMC	Meetings conducted on regular basis	
	4.3	Internal Meetings of ME&IE Consultants	Weekly meetings conducted on regular basis	
5	Deliverables:			
	5.1	Monthly Monitoring Reports (MMRs)	21 st MMR (Sep. 2022)	Submitted
			22 nd MMR (Oct. 2022)	Submitted
			23 rd MMR (Nov. 2022)	Submitted
			24 th MMR (Dec. 2022)	Report in hand, to be submitted in stipulated time
	5.2	Quarterly Monitoring & Evaluation Report (QM&ER)	QM&ER Jul-Sept 2022	Submitted
			QM&ER Oct-Dec 2022	To be submitted in stipulated time
	5.3	Baseline Survey Report-II (First Draft)	Submitted	
		Baseline Survey Report-II (Updated version of WC)	Submitted	
		Baseline Survey Report-II (Draft version of WSTs)	Submitted	
	5.4	Survey Manual (Final version) (Special Reports)	Submitted	

CHAPTER-1: INTRODUCTION

1.1 PROJECT PROFILE

Project Name	National Program for Improvement of Watercourses in Pakistan Phase-II (NPIWC-II)
Project Areas	Punjab, KP, Balochistan, Gilgit Baltistan, Azad Jammu & Kashmir, and Islamabad Capital Territory (ICT)
Sponsoring Agency	Ministry of National Food Security & Research
Executing Agencies (EAs)	Following are different EAs: i. Federal Project Management Unit (FPMU), ii. DGA OFWM Punjab iii. DGA OFWM KP iv. DGA OFWM Balochistan v. Director Irrigation and Small Dams, AJK vi. Director WM, GB vii. Director Agriculture Extension Services (AES) ICT
Project Period	5 Year (2019-2024)
Total Project Cost	154,542.355 million (Umbrella PC-1, including Sindh)
ME&IE Consultancy Period	4 year
ME&IE Consultant:	JV of G3 Engineering Consultants (Pvt.) Ltd., EASE PAK Engineering Services (Pvt.) Ltd., Centre for Social Research and Development (CSRD) and ADA Consultants Inc. Canada
ME&IE Consultant Mobilized	November 20, 2020

1.2 PROJECT DESCRIPTION

1.2.1 Project Development Objectives

The Project Development Objectives (PDO) is to improve irrigation water management at tertiary and field levels in Pakistan.

1.2.2 Project Objectives – General & Quantitative

1) General Objectives:

The Project aims to replicate the success achieved during the NPIWC Phase-I and further improve the findings of the Project Impact Evaluation Study (PIES). The broad objectives of the project are as under:

- Social mobilization through capacity building of WUAs/ FOs,
- Minimization of conveyance and field application losses,
- Reduction in Water Logging and salinity,
- Equity in water distribution,
- Reduction in water disputes/thefts/litigation,
- Motivation/participation of farmers,
- Poverty reduction through employment generation,
- Increase in crops yield/sufficiency in food.

2) Quantitative Objectives:

The quantitative objectives of the Project are as under:

Project outputs

- Mobilization through capacity building of Water Users Associations/Farmers Organizations in improved water management techniques and their registration under On-Farm Water Management and Water User Associations Ordinance [Act] 1981 and organization of 47,278 WUAs.
- Reconstruction/renovation and remodeling of 47,278 watercourses, involving complete earthen renovation, partial lining of critical reaches (50% of the total watercourse length as decided in the high-level meeting), and installation of water control structures. It is expected to save around 5.82 MAF per annum (approx. saving of 123 acre-feet (AF) per watercourse per annum).
- Construction of 14,932 water storage tanks with 60% subsidy.
- Provision of 11,610 Laser Land Levelers at 50% cost sharing, with the expectation to save about 50% irrigation water for wheat and about 68% of irrigation water for paddy.

Project impacts

- Reduction in Water Logging and salinity in project areas to the extent of 10%.
- Cropping intensity is expected to increase by 5-20%.
- Crop's yield is estimated to increase by 10-15%.
- Equity in water distribution increased by about 30%.

- ix) Reduction in water disputes/thefts and litigation amongst the Farmers over water distribution by about 80%.
- x) Help poverty reduction through generation of employment.
- xi) Self-sufficiency in food through utilization of water saved for edible oil seed production.

Project indirect benefits to industry/economic activities

- xii) Cement industry, bricks Killen, Precast Structures Industry and other related industries' production will pick up.

Awareness support to farmers

- xiii) Motivating farmers through an awareness campaign for watercourse improvement.
- xiv) Providing technical material to farmers for optimal utilization of water resources in the shape of technical manual and operational guidelines.

1.2.3 Project Beneficiaries

Majority of the direct project beneficiaries constitute the number of farmers (owners as well as tenants) growing crops and orchards on the watercourses improved under NPIWC-II. Assuming 35 farmers on each watercourse, the total number of the farmers benefiting from the activity comes to 1.655 million. The same number will benefit due to Water Users' Associations (WUAs) in terms of cooperative management of irrigation water. Moreover, 14,932 will directly benefit from Water Storage Tanks and 11,620 as recipients of Laser Land Leveling Units. Thus, total gross direct beneficiaries are expected to be around 3.336 million households. However, net beneficiaries are expected to be 1.668 million.

Taking family size at five, total net population benefitting is expected to be 8.34 million people.

1.2.4 Project Components

The NPIWC-II comprises four components.

C1: ORGANIZATION OF WATER USERS ASSOCIATIONS:

Establishment/ reactivation of Water Users Associations (WUAs) through community driven implementation approach.

- i) Provide right of way for constructing watercourse,
- ii) Arrange skilled and unskilled labour required for reconstruction / maintenance of earthen water

- channel, installation of water control structures, and lining of critical reaches,
- iii) Procure construction materials for carrying out civil works,
- iv) Settle matters of disputes amongst the water users in respect of channel alignment, fixation of Naccas, distribution of work, etc.,
- v) Make alternate arrangements for conveyance of water during execution of improvement works,
- vi) Carry out civil works in accordance with standards and specifications under the supervision of OFWM field staff,
- vii) Regularly undertake O&M of improved watercourses after its construction.

C2: WATERCOURSE IMPROVEMENTS:

47,278 Watercourses are planned to be improved /reconstructed and lined.

- i) New watercourses that are not yet improved under earlier programs / projects,
- ii) Reconstruction of more than 20 years old watercourses that outlived their economic / useful life,
- iii) Additional lining up to 50% of already improved watercourses.

C3: CONSTRUCTION OF WATER STORAGE TANKS:

Construction of 14,932 Water Storage Tanks (WSTs).

- i) Store water during the rainy season and times of no use in the commands of perennial / non-perennial canals for subsequent irrigations at the critical crop growth stages,
- ii) Provide flexibility for storage of plentiful canal and rainfall runoff water for its more expedient use subsequently,
- iii) Collect, store and filter water from:
 - Small Dams, Springs, Streams, Nallas etc.
 - Rainfall runoff over agricultural catchment during rainy season
 - Tube Wells and dug wells of low flows
 - Tail-waters from agricultural fields
- iv) Regulate the flows so that it can be used efficiently when needed in large flow rates.

C4: PROVISION OF LASER LAND LEVELING UNITS:

Provision of 11,610 Laser Land Leveling units to the farmers. The component will strengthen LASER land leveling services in the country through provision of Laser Land Leveling Units to the farmers/ service providers on 50% subsidized rates.

1.2.5 Project Targets

Project aims at achieving the targets (Figure-1.1) for

5 years starting from year 2019-20 to 2023-24. The targets for each province/Zone (excluding Sindh) are given in below Figure-1.2.

Project Targets:

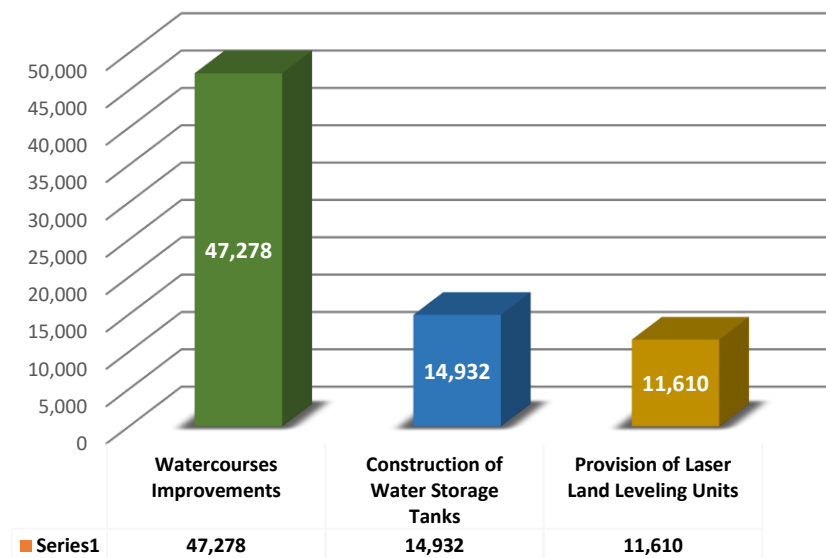


Figure-1.1: Pakistan Targets

Zonal Targets:

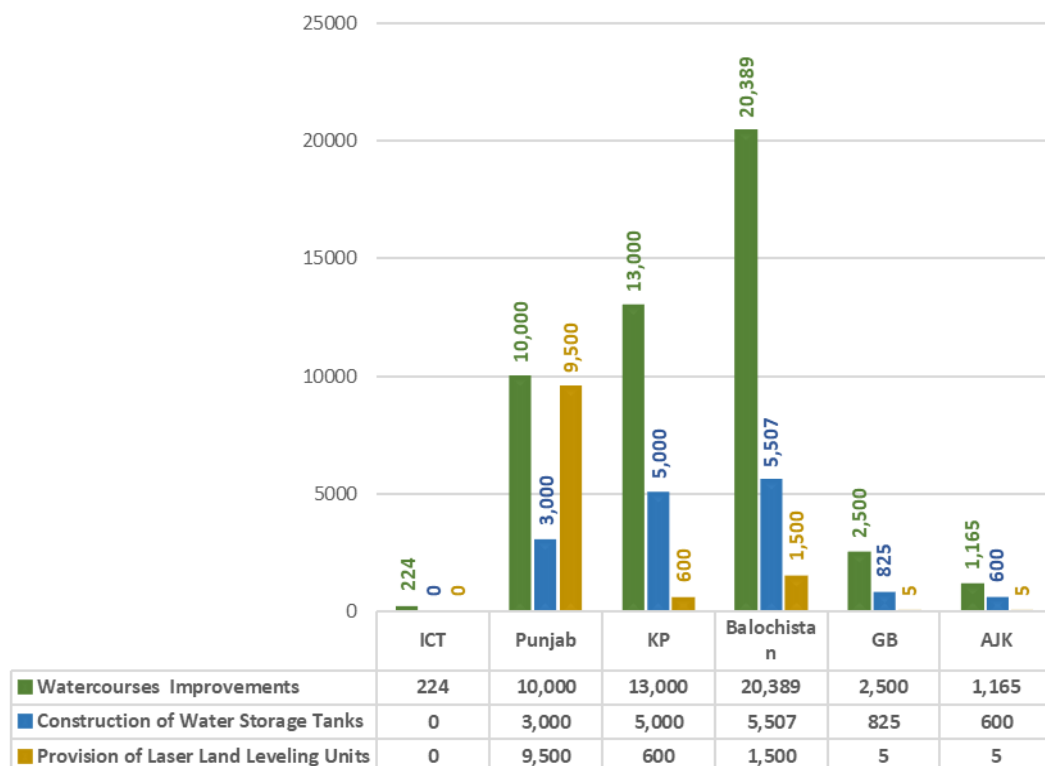


Figure-1.2: Zonal Targets

CHAPTER 2: SCOPE AND SERVICES OF ME&IE CONSULTANTS

The ME&IE Consultants services are planned to be provided through a multi-disciplinary team of qualified professionals. All firms in the joint venture have rich experience in the field of monitoring and evaluations. The team deputed for this task in the project comprises highly qualified professionals having long practical experience of such projects earlier launched in Pakistan. The consultant will develop a State-of-the-Art Management Information System (MIS) with GIS focuses for NPIWC-II to monitor progress on project interventions and to carry out effective monitoring process. The MIS will help decision makers to make informed the decisions.

2.1 OBJECTIVES

The objective of ME&IE Consultant's services is to carry out monitoring and evaluation of project impacts to ensure achievement of project development objectives.

2.2 SCOPE OF THE SERVICES

The ME&IE Consultants will be responsible for monitoring, evaluation and impact evaluation, and in this context will carry out the following activities:

- i) Undertake baseline, midline and end line surveys for the project activities / interventions in all the project areas,
- ii) Develop monitoring strategy, framework and Result-Based Monitoring (RBM) indicators,
- iii) Preparation of monthly, quarterly and annual monitoring, evaluation and validation reports of the project activities,
- iv) Assessing the water saving per annum on watercourses, water storage tanks and field levels as well as aggregate due to the project interventions,
- v) Assessing the improvement in water availability due to the provision of conveyance system,
- vi) Assessing the economic benefits to the agriculture in terms of changes in yields, irrigated area, cropping pattern, cropping intensity, farm income and employment in command area of watercourses and water storage tanks,
- vii) Assessing the extent of community mobilization, financial and administrative sustainability of water users' associations and ensuring the maintenance of watercourses, water storage tanks and laser land Levelers,
- viii) Economic impact of project interventions,

- ix) Carry out the impact evaluation of the project intervention on the economy and stakeholders,
- x) Develop a website containing information on facilities and services, applications, procedures, watercourses, water storage tanks and laser Levelers database, etc. (while the project staff will maintain the website),
- xi) Provide technical support for the development of a custom-designed mobile application (Android Based) to capture on-site project progress and geo-tagged photos. It should be synchronized with the central MIS/GIS database and application for instant reporting and feedback to the management. The said requirement is based on the following functional features:

- Development of a GIS database with all spatial layers related to activities being undertaken under the project
- Give technical assistance for up-dation/up-gradation of water management GIS database.
- Development of web-based GIS application as a dashboard interface for comprehensive representation of all spatial and tabular information: custom designed web GIS application be developed for large LED screens, should be self-operative and represent project data on multiple layouts of application interface.
- Development of a MIS application as an integral part of web GIS to maintain information on facilities and services, applications, procedures, watercourses database, etc.
- Development of a custom designed mobile application (Android) to capture on-site project progress, geo-tagged photos; should be synchronized with the central MIS/GIS database and application for instant reporting and feedback to the management.
- Application should generate custom designed reports and analysis as per user-defined requirements.
- Application should generate alerts (SMS, email, web-notifications) to the user on the non-conformance of project's key indicators; the application should have the provision to custom define alerts levels and desired notifications.

2.3 MONITORING STRATEGY

The monitoring strategy planned to be followed by ME&IE Consultants is briefly described in the following Table-2.1. However, detailed methodology and procedures to carry out the Monitoring,

Evaluations and Impact Evaluations of the project interventions were explained in Chapter 6 of Inception Report. The strategy aims to be finalized and implemented in close coordination with the client and active participation of the beneficiaries as well as the project stakeholders.

Table 2.1: Monitoring Strategy for ME&IE Activities

Sr. No.	Monitoring Activity	ME&IE Team Responsible	Monitoring Strategy
1	Baseline, midline and endline surveys	Team Leader, Socio-Economic Expert, Agricultural Economist and Deputy Team Leader of respective province/unit.	<ul style="list-style-type: none"> Baseline and impact surveys will be carried out on a sample basis. Data will be collected by field teams on pre-designed data collection tools through an android application on TABs. Baseline and impact surveys will be carried out in phases as target watercourses are not preselected. Baseline will be carried out before the intervention and the impact one year (two crop seasons) after the completion of the intervention. The midterm study will review the project progress at middle of the project implementation The endline study will assess the impact of the project interventions.
2	Reporting	All core team members	<p>Following periodic reports will be prepared and submitted:</p> <ul style="list-style-type: none"> Draft Inception Report 45 days after the agreement, Final Inception Report one week after the issuance of comments by the client on the draft, Monthly Monitoring Report on 10th of following month, Quarterly Monitoring Report on 10th of the first month of the following quarter, Annual Monitoring and Evaluation Report during first month of the following year, Baseline Survey Reports (in three phases), First Phase Baseline Survey report will be submitted within the four months after the start of the assignment i.e., Submission of final inception report/Beginning of field activities. Impact Survey Reports (in phases) – two months after the data collection completion for the impact phase, Midline report in the middle of the assignment, Endline Report at the end of endline Survey, Draft Assignment Completion Report at completion of the physical works, Final Assignment Completion Report at completion of works and financial transactions. It will also include the full economic benefit of the project (NPIWC-II) on agriculture sector as well as on the GDP of Pakistan, Special Reports, as and when asked by the client.
3	Water saving assessment	Irrigation Agronomist, Field Team/Engineers	<p>Water Saving on Watercourses:</p> <ul style="list-style-type: none"> Water flow will be measured on sample watercourses selected for the baseline and impact surveys The flow will be measured at four points of the selected watercourses: close to water outlet, head reach, middle reach and tail reach. The measurements will be done through current meters.

Sr. No.	Monitoring Activity	ME&IE Team Responsible	Monitoring Strategy
			<ul style="list-style-type: none"> Based on water savings on sample watercourses, total water savings will be estimated for all project watercourses. The savings will be reported per watercourse, per annum and aggregate for the project in LPS and Acre feet.
			<p>Water Savings on WSTs</p> <ul style="list-style-type: none"> Since WSTs will be filled and emptied on a continuous basis, the water savings will be assessed on the basis of water pumped from the tank to irrigate the fields. The assessment will be done either by readings on the pump gauge or periodic interviewing the farmer. Based on water savings on sample WSTs, total water savings will be estimated for all project WSTs. The savings will be reported per WST, per annum and aggregate for the project in LPS and in Acre feet. <p>Water savings due to Laser Land Leveling</p> <ul style="list-style-type: none"> Water savings at field level will be assessed through farmers' interviews. The impact survey form will include questions to be asked from the farmers who got their land levelled: <ul style="list-style-type: none"> ➤ In how much time an acre was irrigated before watercourse improvement and land leveling ➤ In how much time an acre is irrigated after watercourse improvement with land leveling <p>The difference will be water saving due to laser land leveling</p>
			Based on water savings on sample LLL units, total water savings will be estimated for all project LLL units. The savings will be reported per LLL unit, per annum and aggregate for the project in LPS and in Acre feet.
4	Community mobilization	Social and Gender Specialist and Socio-Economic Expert	<p>The extent of community mobilization will be assessed by investigating whether:</p> <ul style="list-style-type: none"> WUAs is functional Holds regular meetings and keep record of them Makes decisions democratically The participation in the organization is voluntary It is financially and administratively sustainable Takes steps and ensures maintenance of watercourses, WSTs and laser land leveler
5	Economic benefits assessment for agriculture	Team Leader, Socio- Economist and Agricultural Economist	<ul style="list-style-type: none"> As indicated at serial No. 1, Agriculture data will be collected before (baseline) and after (impact) the watercourse improvement and WSTs construction. In both the surveys same forms will be used and same sampled farmers will be interviewed Data on variables such as crop yields, irrigated area, cropping pattern, cropping intensity, farm income and employment will be collected and analyzed The difference between before and after situations minus natural growth will be assumed as economic benefits to the agriculture
6	Impact evaluation-on the economy	Team Leader, Agricultural Economist and Socio-Economic	<ul style="list-style-type: none"> The results of the baseline and impact surveys will be used to quantify impact on the economy Additional food produced due to the project will be estimated. It is benefit towards food security

Sr. No.	Monitoring Activity	ME&IE Team Responsible	Monitoring Strategy
		Expert	<ul style="list-style-type: none"> Project costs and benefits will be compared in economic and financial terms to carry out economic and financial analysis. Parameters like IRR, NPV and BCR will be estimated.
7	Impact evaluation-on the stakeholders	Team Leader, Agricultural Economist and Socio-Economic Expert	<ul style="list-style-type: none"> Analysis as in serial 6 will be carried out with reference to various stakeholders, like community, government, farmers, etc.
8	Spot checking	Team Leader, Deputy Team Leaders & Field teams/Engineers.	During the field visits for WUAs baselines impacts of Watercourses, WSTs and laser leveling units, the interventions will be spot checked for quality of construction, material, functioning and beneficiaries' satisfaction etc.
9	Process monitoring	Field Teams of Agriculture Deptt., Project Consultants, ME&IE Consultants & ICT/Technology Specialist	<ul style="list-style-type: none"> The process data for all the interventions will be fed to the MIS/GIS database. Client's field staff and field teams of consultants will furnish data of their activities. The ME&IE will assist in developing mobile application for this purpose From this data reports will be generated for process monitoring All interventions will be fully (100%) covered.
10	Project website and MIS/GIS dashboard development	ICT / Technology Specialist (Including all other core team staff will also coordinate in completing data for the MIS/GIS	<ul style="list-style-type: none"> The State-of-the-art MIS / Progress Monitoring Model will be developed for NPIWC-II. Customized forms will be developed to collect data from the implementing teams on-site for progress monitoring These forms will be made available to the teams on smart phones through an android application The teams will be adequately trained to use the application Data on physical and financial stages with dates will be fed to the system for process monitoring GIS coordinates for watercourses, WSTs, laser units (if available) and WUAs offices will be uploaded to the system and could be viewed / reached by the management online The system will be maintained on GOOGLE server so that it is accessible by the management from anywhere in Pakistan and abroad Custom reports will be possible as the user demands / desires The results could be displayed on small as well as large screens.
11	Development of Android based application	ICT / Technology Specialist	All the data collection forms / tools will be executed through customized developed Android based applications accessible with smart phones / TABs.

2.4 FRAMEWORK AND RESULTS-BASED MONITORING (RBM) INDICATORS

The framework and Results-Based Monitoring (RBM) Indicators are identified in Table-2.2 of Inception Report. The indicators will be further enhanced and refined in consultation with the client as well as stakeholders.

They will also get improved as the project implementation progresses as in the light of real and on the ground situations.

CHAPTER 3: WORK PLAN OF THE CONSULTANTS FOR THIRD QUARTER

3.1 COMPLIANCE STATUS OF WORK PLAN OF QUARTER OCT-DEC 2022

The ME&IE activities initiating during the 4th Quarter of the year 2022 (1st October 2022 to 31st December 2022) and their compliance status is summarized below. The Tentative Work Plan for the 4th Quarter of year 2022 (1st October 2022 to 31st December 2022) is given as **Annex-A**.

3.1.1 Pre-Field Activities

S#	Activities	Status
i	Preparation of 2nd-Phase Baseline Survey (Finalization of MTs)	Complied, Refer chapter 4 for detail:
ii	Internal Meetings ME&IE Consultants' Zonal Offices for development of Methodology for Baseline Survey Phase-II.	Complied, Refer chapter 4 for detail:
iii	Training of Field Staff for Baseline Survey Phase-II	Complied, Refer chapter 4 for detail:

3.1.2 Field Activities

S#	Activities	Status
i	Regular Monitoring of Interventions in the Field	Complied, Refer chapter 4 for detail:
ii	Data collection of the interventions in the field	Complied, Refer chapter 4 for detail:
iii	Baseline Survey Phase-II	Complied, Refer chapter 4 for detail:
iv	Online data entry in android-based application	Complied, Refer chapter 4 for detail:

3.1.3 ICT Assignment

S#	Assignment	Status
i	Development / Improvement of website of NPIWC-II	Complied Refer chapter 4 for detail:
ii	Monitoring online data collection and Data entry	Complied,

		Refer chapter 4 for detail:
iii	Monitoring Android based Mobile Application under implementation by field staff.	Complied, Refer chapter 4 for detail:
iv	Data collection of interventions in MIS/GIS database	Complied, Refer chapter 4 for detail:
v	Data Cleaning. Development & Launching of Dashboard for Client Offices	Complied, Refer chapter 4 for detail:

3.1.4 Coordination

S#	Activities	Status
i	Meetings of TL, ME&IE Consultants with NPC regarding Project Progress / Issues	Meetings conducted on regular basis
ii	Meeting of DTLs with respective DTL of NWMC	Meetings conducted on regular basis
iii	Internal Meetings of ME&IE Consultants	Zoom Meetings conducted on regular basis

3.1.5 Deliverables

The detail of deliverables of ME&IE Consultants with the timelines is as under:

Document	Status
Draft Inception Report	Submitted
Final Inception Report	Submitted
Monthly Monitoring Report-First (DEC 2020-JAN 2021)	Submitted
Monthly Monitoring Report-Second (FEB 2021)	Submitted
Monthly Monitoring Report-Third (MAR 2021)	Submitted
Quarterly Monitoring & Evaluation Report-First (JAN-MAR 2021)	Submitted
Monthly Monitoring Report-Fourth (APR 2021)	Submitted
Monthly Monitoring Report-Fifth (MAY 2021)	Submitted
Monthly Monitoring Report-Sixth (JUNE 2021)	Submitted

Document	Status
Quarterly Monitoring & Evaluation Report-Second (APR-JUN 2021)	Submitted
Monthly Monitoring Report-Seventh (JULY)	Submitted
Monthly Monitoring Report-Eighth (AUG 2021)	Submitted
Annual Monitoring & Evaluation Report (1 st)	Submitted
Baseline Survey Report (Final Draft)	Submitted
Monthly Monitoring Report-Ninth (SEPTEMBER 2021)	Submitted
Quarterly Monitoring & Evaluation Report-Third (JULY - SEPTEMBER 2021)	Submitted
Special Reports submitted: 1) Monitoring Tools 2) Survey Manual 3) PAM 4) Working Paper on Technology and Methodology for Implementation of Android Based Field Progress Data Collection and GIS Based Progress Monitoring Analytical Dashboard.	Submitted
Monthly Monitoring Report-Tenth (OCTOBER 2021)	Submitted
Monthly Monitoring Report-Eleventh (NOVEMBER 2021)	Submitted
Monthly Monitoring Report-Twelfth (DECEMBER 2021)	Submitted
Quarterly Monitoring & Evaluation Report-Fourth Quarter year 2021 (OCTOBER – DECEMBER 2021)	Submitted
Monthly Monitoring Report-Thirteenth (JANUARY 2022)	submitted within stipulated time
Monthly Monitoring Report-Fourteenth (FEBRUARY 2022)	submitted within stipulated time
Monthly Monitoring Report-Fifteen (MARCH 2022)	submitted within stipulated time
Quarterly Monitoring & Evaluation Report-First Quarter year 2022 (JAN – MARCH 2022)	submitted within stipulated time
Monthly Monitoring Report-Sixteen (APRIL 2022)	submitted within stipulated time

Document	Status
Monthly Monitoring Report-Seventeenth (MAY 2022)	submitted within stipulated time
Monthly Monitoring Report-Eighteenth (JUNE 2022)	Submitted within stipulated time
Quarterly Monitoring & Evaluation Report-2 nd Quarter year 2022 (APRIL–JUNE 2022)	submitted within stipulated time
2 nd Annual Monitoring & Evaluation Report JUL 2021-JUNE 2022	Submitted within stipulated time
Monthly Monitoring Report-Nineteenth (JULY 2022)	Submitted within stipulated time
Monthly Monitoring Report-Twentieth (AUGUST 2022)	Submitted within stipulated time
Monthly Monitoring Report-Twenty First (SEPTEMBER 2022)	Submitted within stipulated time
*Quarterly Monitoring & Evaluation Report-3 rd Quarter year 2022 (JUL – SEP 2022)	Submitted within stipulated time
*Monthly Monitoring Report-Twenty Second (October 2022)	Submitted within stipulated time
*Monthly Monitoring Report-Twenty Third (November 2022)	Submitted within stipulated time
*Monthly Monitoring Report-Twenty Fourth (December 2022)	Report in hand to be submitted within stipulated time
*Baseline Survey Report Phase-II	Submitted
*Baseline Survey Report Phase-II (First Draft)	Submitted
*Baseline Survey Report Phase-II (Updated version WC)	Submitted
*Baseline Survey Report Phase-II (Draft version of WSTs)	Submitted
*Survey Manual (Final version) (Special Reports)	Submitted

*Above highlighted deliverables were submitted within reporting period of in hand QM&ER.

CHAPTER 4: ACTIVITIES DURING THE REPORTING QUARTER

4.1 INTRODUCTION

Quarterly Monitoring & Evaluation Report (QM&ER) explains the understanding towards all activities to be carried out as per TORs of ME&IE assignment and their completion within stipulated time frame.

4.2 OBJECTIVE OF QM&ER

The Main objective of Quarterly Monitoring and Evaluation Report (QM&ER) is to update the Client about the activities carrying out by the ME&IE Consultants during the reporting quarter. Reporting is an integral part of monitoring and evaluation framework.

4.3 REPORTING QUARTER

This current QM&ER covers the period from 01st Oct 2022 to 31st December 2022.

This Report provides the progress made in various activities relating to the accomplishment of Monitoring activities of project interventions e.g., Field Survey / Monitoring of the field interventions. This report also describes all activities to be carried out as per quarterly work plan. Activities during the reporting period are given below:

4.3.1 FINALIZATION OF MONITORING TOOLS

Improvement of MTs is a continuous process throughout the implementation of the ME&IE activities by the consultants. In the light of experience of data collection MTs were mor refined by the consultants. To make the familiarize with this improvement / refinement in the MTs a four (04) days' refresher training workshop was conducted by the Consultants at National Office Islamabad during last quarter. All the DTLs and Field Team

Incharges along with Core Team and Authorized Representative of the JV participated in the workshop. In the light of this workshop the monitoring tools were finalized for the Baseline survey-II.

4.3.2 MONITORING OF INTERVENTIONS IN THE FIELD

The routine monitoring is containing brief analysis of the results; calculating achievement rates and establishing trends, relevant findings that may help or constraint the future data collection activities in the established periods and, if appropriate, propose specific solutions assessing the advantages and disadvantages of each.

The regular monitoring assignments under the project NPIWC-II are comprised of input-output and process as defined in the Annual Work Plan / Budget and tracking of the outcome's indicators. Regular routine monitoring is to look at the extent to which the proposed project activities are being implemented as planned. Routine monitoring by the ME&IE consultants remained in progress during the reporting quarter.

Consultants' activities including routine monitoring of the interventions and data collection for Midline Survey remined continued during the reporting period. Consltants also visited client offices for data collection.

4.3.3.1 Monitoring / Field Visits of Interventions by Zonal Office ICT

During the current quarter (October 2022 to December 2022), Islamabad Capital Territory (ICT) Zone team conducted field visits for regular monitoring as well as for impact Surveys. ICT field team visited districts of Punjab Barani areas, ICT, and Azad Jammu & Kashmir (AJK). Detail accomplishments of interventions visited during the current quarter is given below in **Table 4.1**:

Table 4.1: Midline Survey Field Accomplishments of ICT and Punjab Barani Areas

Visit Date	Division	District	Village	Component	Name of the scheme
15-Nov-22	Rwp	Chakwal	Chak-khushi	WST	Chak-khushi
15-Nov-22	Rwp	Chakwal	Manaq Pur	WST	Manaq Pur
18-Nov-22	ICT	ICT	Sihala	WC	Sihala
18-Nov-22	ICT	ICT	Tumair	WC	Tumair
26-Dec-22	AJK	Mirpur	New-Sunain	WC	New-Sunain
26-Dec-22	AJK	Mirpur	Lehri-6	WC	Lehri-6

The brief feature of each intervention is as under:

- i. Field visits of targeted interventions.
 - a. Improvement of watercourses
 - b. Construction of water storage tanks
- ii. Meetings with DDA's /ADA's and other OFWM staff.

ME&IE Consultant's observations during field monitoring and feedback from beneficiaries.

Field activities were affected due to financial problems, during the reporting quarter, however, ICT Team visited above listed interventions and collected data for Midline Survey, as well as validated baseline-II data. The data was uploaded directly from field on the MIS system through android-based application. The data was analysed by the ICT team and vetted by the consultants for report writing viz., Baseline-II and Midline of the Project. Detail of field visits of interventions and data collection by Zonal Team ICT is given **Annex-E**.

Meeting carried out by ICT Zone		
Date	Description of activity	Venue
16-Nov-22	Meeting at National Office about the field observation in order to analyse the impact of targeted intervention.	ICT-Zone Office
27-Dec-22	Meeting at National Office to build unanimous consensus about the field observations as well as develop plan for the future project activities.	ICT-Zone Office



Discussion of field team members after holding of field visit to the targeted areas of AJK with DTL, ICT Zone.

Impact Survey Observations on Watercourse/WST improvement:

Following is the Midline Survey Observations regarding watercourse Improvement:

- After improvement of watercourse, per acre irrigation time has been reduced significantly.
- Reduction in water losses has also reported and conveyance of water at tail reaches is improved.
- No water logging and salinity were reported in the targeted intervention areas.
- Increase in yield of major crops like wheat and maize were reported upto 20%.
- Increase in water availability were reported to the extent of 30-40%.
- The time of irrigation for an acre has reduced by 20-30%.
- Irrigation and water theft cases are significantly reduced.

Beneficiaries interviewed at the Farm Spot: Perception of farmers:

- After Watercourse improvement, water reaches at the tail end, no major shortages of water were reported.
- Irrigation and water theft cases significantly reduced.

The income of farmer has been increased with the increase in yield, but unfortunately rise in the prices of fertilizers and other inputs have reduced the profit margin

4.3.3.2 Monitoring of Interventions and Baseline / Midline Survey in Punjab Zone

The monitoring / Baseline /Impact survey pertain to Various interventions of the project viz improvement of watercourses, water user associations, construction of water storage tanks and laser land levelers. Such surveys are carried out from time to time as a part of regular activity of ME&IE Consultants. The data from the field about any activity of an intervention are collected by field teams of ME&IE Consultants on android-based system. Such data are directly submitted from the field on MIS/GIS system for further processing by ICT department.

The ME&IE consultants have been engaged in different activities during the quarter review as under.

Activities Carried out During 2nd Quarter (2022–23)

The ME&IE consultants have been engaged in different activities during the month i.e., December 2022 as under:

1. Pre – Field Activities
2. Field Activities
3. ME&IE Consultants Meeting with Stakeholders

Field Activities

The field activities comprised of field visit to projects interventions viz under watercourses, Water Storage Tanks. Such activities pertained to Monitoring/Baseline Survey – II and Impact Survey (based on Baseline Survey – I) Such field activities were completed towards the end of September 2022. A brief profile pictures of the complete activates relevant to the Monitoring, Baseline Survey -II and Impact Survey are briefly shown as under:

Ecological Zone /District wise Achievements During Baseline Survey - II of Various Interventions

Sr. No.	Crop Ecological Zone	Sample District	ME&IE Achievements of WC			ME&IE Achievements of WST
			Total	Regular	Additional	
1	BARANI	Rawalpindi	-	-	-	3
2		Attock	-	-	-	6
Sub Total			0	0	0	9
3	PARTIAL BARANI	Bhakkar	2	1	1	5
Sub Total			2	1	1	5
4	Irrigated Rice Zone	Sheikhupura	8		8	2
5		Hafizabad	10	2	8	3
6		Mandi Bahu Din	1		1	2
7		Kasur	1		1	-
8		Nankana Sahib	-	-	-	2
Sub Total			20	2	18	9
9	Irrigated Mix Zone	Faisalabad	1	-	1	1
10		Sargodha	5	-	5	2
11		Sahiwal	6	-	6	1
Sub Total			12	0	12	4
12	Irrigated Cotton Zone	B. Nagar	10	5	5	3
13		R.Y. Khan	11	5	6	2
14		D.G. Khan	3	1	2	3
15		Multan	9	1	8	5
16		Khanewal	-	-	-	1
Sub Total			33	12	21	14
Total			67	15	52	41

The above table reflected activities related to Monitoring/Baseline Survey – II, about Watercourse and Water Storage Tank Interventions. Almost all the Watercourses monitored, had the beneficiaries/farmers and these beneficiaries about 6 on each watercourse. 2 at head, 2 middle and 2 at tail were selected as respondents for Baseline Survey. The data/information gathered from by the field teams were send through android-based

application (ODK) directly to PMIS/dashboard for further processing/analysis purposes.

There was only one respondent i.e., were of water storage tank, for the purposes of Baseline Survey.

The below table depicts Ecological zone wise achievements of watercourse and Water storage tank interventions covered during Baseline Survey – I and Impact Survey.

Ecological Zone/District Wise Achievements During Baseline/Impact Survey – I of Various Interventions

Sr. No.	Crop Ecological Zone	Sample District	ME&IE Achievements of WC			ME&IE Achievements of WST
			Total	Regular	Additional	
1	BARANI	Chakwal	-	-	-	2
2		Attock	-	-	-	2
Sub Total			0	0	0	4
3		Gujranwala	7	1	6	1
4		Guirat	-	-	-	1

Sr. No.	Crop Ecological Zone	Sample District	ME&IE Achievements of WC			ME&IE Achievements of WST
			Total	Regular	Additional	
5		Kasur	2	1	1	2
	Sub Total		9	2	7	4
6		Okara	4		4	1
	Sub Total		4	-	4	1
7	Irrigated Cotton Zone	Muzaffargarh	6	1	5	2
	Sub Total		6	1	5	2
	Total		19	3	16	11

As stated earlier there were six respondents on each Watercourse and one respondent (Owner) on each Water Storage tank. The respondent interviewed during Impact Survey were almost all the same as for Baseline Survey - I with the exception of few as their availability was non possible due to one or other reason.

The ME&IE consultants' teams remained busy in data collection/Validation on previous year basic data for watercourse improvement interventions for this year 2019 – 20 and 2020 – 21. Such data have been collected from various district level/validated for PMIS Dashboard as under:

Table-3.2 Status of Data of PMIS Dashboard

Division	District	Status
Lahore	Lahore	Complete
	Sheikhupura	Complete
	Nankana Sahib	Complete
	Kasur	Complete
Faisalabad	Faisalabad	Complete
	Jhang	Complete
	Chiniot	Complete
	Toba Tek Singh	Complete
Gujranwala	Gujranwala	Complete
	Narowal	Complete
	Sialkot	Complete
Gujrat	Gujrat	Complete
	Hafizabad	Complete
	Mandi Bahu din	Complete
Sargodha	Sargodha	Complete
	Khushab	Complete
	Mainwali	Complete
Sahiwal	Bhakkar	Complete
	Okara	Complete
	Sahiwal	Under Process
Bahawalpur	Pakpattan	Under Process
	Bahawalpur	Under Process
	R.Y Khan	Under Process
D.G Khan	Bahawalnagar	Under Process
	D.G Khan	Under Process
	Muzaffargarh	Under Process
Multan	Layyah	Under Process
	Rajanpur	Under Process
	Multan	Under Process
	Lodhran	Under Process

Division	District	Status
	Khanewal	Under Process
	Vehari	Under Process

Detail of all Field visits in Punjab Zone is give as **Annex-F** while detail of meetings as **Annex-H**.

4.3.3.3 Regular Monitoring / Field Visits by Zonal Office KP

During the 4th quarter of 2022, the official activities of ME&IE consultants KP Zonal office were confined to the coordination with the OFWM Department KP and routine office activities. In addition to these, regular contacts were made with District Directors OFWM regarding facilitation of our survey teams in the field. Several meetings with Project coordinator were held regarding newly launched schemes in the year 2021-22 of Water Courses and Water Storage Tanks in KP

Tangible Achievement of the 4th Quarter 2022:

1. Meetings with OFWM focal person/ district officers
2. Data Editing/Uploading to the revised MTs
3. Validation of the uploaded MTs
4. Refresher training on new version of ODK
5. Coordination and meetings with OFWM focal person/ district officers for the missing data on dashboard such as CNIC duplicates and Technical/ Social data etc.
6. Coordination with department was done for Technical Sanction issued for new schemes.
7. Prepared work plan and implemented for field visits
8. Collection, cleaning and entering of data for dashboard from OFWM.
9. Writing of MMRs for the month of October, November and December 2022

Main activities during the month of October 2022 are as follows:

1. Administrative duties
2. Meetings

3. Data Editing/Uploading to the revised MTs
4. Validation of the uploaded MTs

Administrative Duties: These include routine duties of dealing official matters and compliance of the directives received from the management from time to time. In addition to these close coordination and liaison with the Water Management Department KP for facilitation and collection of relevant data from Head Quarter and district offices and as well as from field.

Meetings: Formal and Informal meetings with the FTIs and their field teams are routine office activity as per task's requirement. This activity is usually made at the beginning of the week. In addition to this face to face and digitally meetings are held as and when required. On October 12, 2022 a zoom meeting was held of all the Team Leader, DTLs and Core team member was held under the chairmanship of the Director/Authorized representative of G3 Consultants for NPIWC-II. Agenda of the meeting was streamlining of the project activities as per commitments with the client. The chairman directed all the participants of the meeting to honor their commitment and ensure the timely submission of the report.

Data Editing/Uploading to the revised MTs: Main task assigned to all zonal offices of the ME/IE of NPIWC-II consultants was to upload all the data of baseline-II survey to the revised MTs, finalized during the workshop held on September 21-24 2022 in National office Islamabad. All the field teams under the supervision of the ICT Manager and the DTL in coordination with the ICT Team were engaged in data editing and uploading to the revised MTs. This process was confined only to the data of baseline-II survey report that was supposed to be submitted on or before October 24, 2022 to the client. The task was completed well in time as per directives of the management. A

total of 653 MTs; including (494 MTs), MT-1, MT-3, MT-4 and MT-5 of water courses (WCs) and (159 MTs) MT-1, MT-2, MT-3 and MT-4 of water storage tanks (WSTs) were uploaded to the revised MTs.

Validation of the uploaded MTs: All the exercise of uploading the data of the revised MTs to the ODK by the field teams was validated by the DTL as per policy statement issued by the Management.

Data Editing/Uploading to the revised MTs: In the light of the online zoom meeting held on October 12, 2022 mention above all the FTIs and FTEs performed a very hectic job of uploading data on revised MTs on the ODK. They worked day and late nights on editing and uploading the revised MTs for achieving the assigned task from the ICT Team. Data entry of Baseline-I and Baseline-II (Brief Profile, Beneficiary feedback, Farming household, and input-out prices) on the updated version of ODK was done as per detail below by the following three field teams.

Team-1, comprising of:

Mumtazullah FTI
Aftab Ahmad FTE
Muhammad Qasim

Team-2, comprising of:

Mehmoodul Hasan FTI
Farhan Tayyab
Arsalan Bashir

Team-3, comprising of:

Inamullah Khan FTI
Matloob Hussain FTE
Zuhaibullah Khan FTE

Summary Table of the data of revised MTs uploaded on ODK by the FTEs

Sr. No.	Description of MTs of Water Course	No. of MTs of WC	Description of MTs of Water Storage Tank	No. of MTs of WST	Grand Total
1	Brief Profile MT:01	97	Brief Profile MT:01	38	135
2	Beneficiary Feedback MT:03	108	Beneficiary Feedback MT:02	39	147
3	Beneficiary Feedback MT:04	181	Farming Household MT:03	42	223
4	Input Prices MT:05	108	Input Prices MT:04	40	148
	Sub Total	494	Sub Total	159	653

Validation of MTs: In the light of the Zoom Meeting held on October 12, 2022, in which it was decided that the FTIs and FTEs will enter the data into ODK for Baseline Report and the DTLs will validate the data uploaded to the MTs. In compliance to this all the teams were working in uploading data of revised MTs

on ODK. The DTL was given access by providing link to the main server. So, simultaneously the DTL was busy in validation of the data received from main server. A total of 653 MTs (including 494 Water courses and 159 Water Storage Tanks) were validated on the main server as per detail given in table below.

Summary of data validation of KP Zone Peshawar

Sr. No.	Name	Water Course				Water Storage Tank				Grand Total
		MT-1	MT-3	MT-4	MT-5	MT-1	MT-2	MT-3	MT-4	
1	Mumtazullah	31	18	32	14	7	1	11	11	125
2	Mehmoodul Hasen	15	-	20	-	-	-	-	-	35
3	Inamullah	-	3	7	2	3	2	2	1	20
4	Farhan Tayyab	10	16	19	28	-	1	12	11	97
5	Aftab Ahmad	2	11	19	14	-	-	6	-	52
6	Matloob Hussain	22	17	24	16	7	33	1	12	132
7	Arsalan Bashir	6	16	25	28	11	2	10	2	100
8	Zuhaibullah	11	27	27	4	10	-	-	-	79
9	Qasim Khan	-	-	8	2	-	-	-	3	13
Total		97	108	181	108	38	39	42	40	653
1. TOTAL of MT-01 WC + MT-03 WC + MT-04 WC + MT-05 WC = 494										
2. TOTAL of MT-01 WST + MT-02 WST + MT-03 WST + MT-04 WST = 159										
3. GRAND TOTAL WC + WST = 653										

Explanation of MTs:

MT-01 WST: Brief profile, MT-02 WST: Beneficiaries feedback, MT-03 WST: Farming Households, MT-04 WST: Input-Prices, MT-01 WC: Brief profile, MT-03 WC: Beneficiaries feedback, MT-04 WC: Farming Households, MT-05 WC: Input Prices

SUMMARY OF ACTIVITIES KP ZONE – OCT-DEC 2022

The major activities conducted by ME&IE consultants during the reporting period:

Updated Progress of ME&IE Consultants, KP Zone includes:

- Refresher training on new version of ODK continued.
- Data was collected and cleaned and entered for dashboard from OFWM.
- Data validation activities continued.
- Mock test on new ODK was performed and issues were discussed in training session.
- Refresher training on utilization of Pigmy current meter was carried out at field level.
- Coordination and meetings with OFWM focal person/ district officers for the missing data on

dashboard such as CNIC duplicates and Technical/ Social data etc.

- Meetings were arranged with KP OFWM Officers for collection of undergoing schemes. However, it was found that schemes were mostly completed under NPIWC-II program.
- Coordination with department was done for Technical Sanction issued for new schemes.
- Drafted KP MMR reports for the month of September, October, November 2022, and QM&ER July-September 2022.
- Hiring/posting/transfer of staff members

The ME&IE Consultants, KP had carried out first baseline survey of 17 Watercourses and 6 WST during the June 2021, while another 103 watercourses and 37 WST during baseline 2. These were total 163 WC/WST where the baseline surveys were carried out.

As per TORs, ME&IE consultants have to submit midline survey reports against the baseline targets during the middle of the project. In line, ME&IE Consultants are in the process of carrying out the Midline Survey. The ME&IE has monitored a total of 32 interventions till now. KP team is further planning to complete the remaining impact survey with coming few days.

Total activities, District-wise

S. No	District	First Phase Baseline		Second Phase Baseline		Midline Survey		Total
		WC	WST	WC	WST	WC	WST	
1	Abbot Abad	1		1		2		4
2	Bannu	1				1		2
3	Batagram	1				1		2
4	Bunir			6	2			8
5	Charsadda	1	1	1		2		5
6	Dera Ismail Khan	2		31	10	2		45
7	GB Zone	1	1					2

S. No	District	First Phase Baseline		Second Phase Baseline		Midline Survey		Total
		WC	WST	WC	WST	WC	WST	
8	Hari Pur	2	2	5	3	1		13
9	Kohat	1		2		3		6
10	Lakki Marwat	1				1		2
11	Mansehra	1		12	4	2		19
12	Mardan	1		4	1	5		11
13	Nowshera	1	1	19	7	6		34
14	Peshawar	1		11	7	3		22
15	Swabi	2				2		4
16	Swat			11	3			14
17	Tank		1					1
18	Torghar	1				1		2
Sub-Total		18	6	103	37	32		196

Achievements Against Outputs

KP team remain busy in following activities during the reporting period.

Coordination Meetings

During the current reporting period, extensive coordination meetings have been carried out with OFWM department of KP. The purpose of the coordination with them was to streamline and correct the missing/wrong data for dashboard completion and representation. This is to honor that ME&IE team receive tremendous support from OFWM directorate, whenever there is a need.

Capacity Building of ME&IE Consultants and OFWM staff on Android Application

During the current reporting period, online training on data validation and pygmy meter was continued from ICT department. ICT department further clarified all the queries raised by the team members after mock exercises for better field activities and data collection. Additionally, continuous support was provided to OFWM officials on telephone for any issue while operating android system and/or data collection process. Moreover, coordination and meetings have been carried out with OFWM department of KP. The purpose of the coordination with them was to collect the data for dashboard completion and its appropriate management by field officials of OFWM. This is to honor that ME&IE team receive tremendous support from OFWM directorate, whenever there is a need. Further the purpose of the meetings was also to get the updated data regarding TS or ongoing watercourses for monitoring purposes.

Test and Practice of using Pygmy Current Meter of KP Field Teams



Detail of KP Zone meetings is given an **Annex-H**.

4.3.3.4 Regular Monitoring / Field Visits by Zonal Office Balochistan

The activities done by the Balochistan Zone during the quarter from October to December 2022 are listed below:

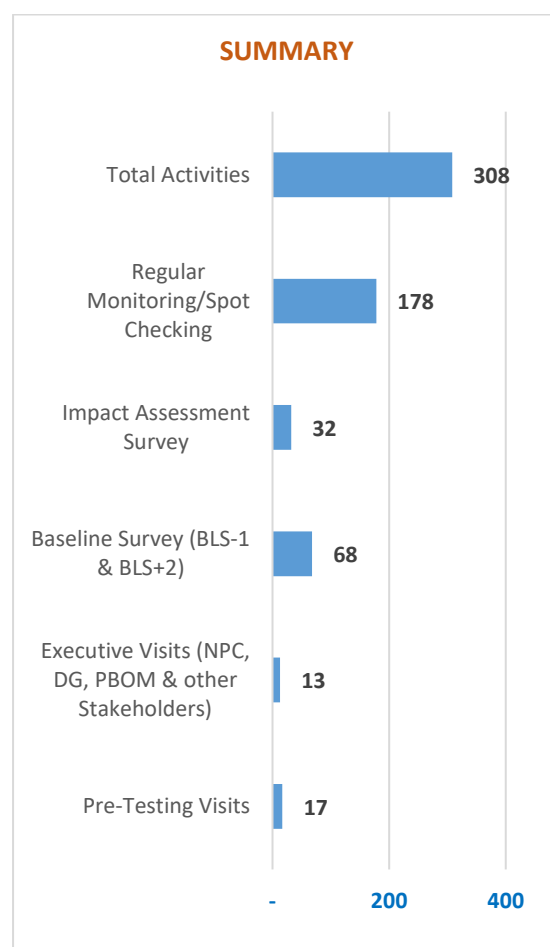
- Updated Field Progress
- Field Visit Details
- Social & Gender Component – Group Discussion and Key Information Interview
- Training and Capacity Building of Field Staff, OFWM (Android Data Collection Application), Dashboard – Balochistan.
- Meetings

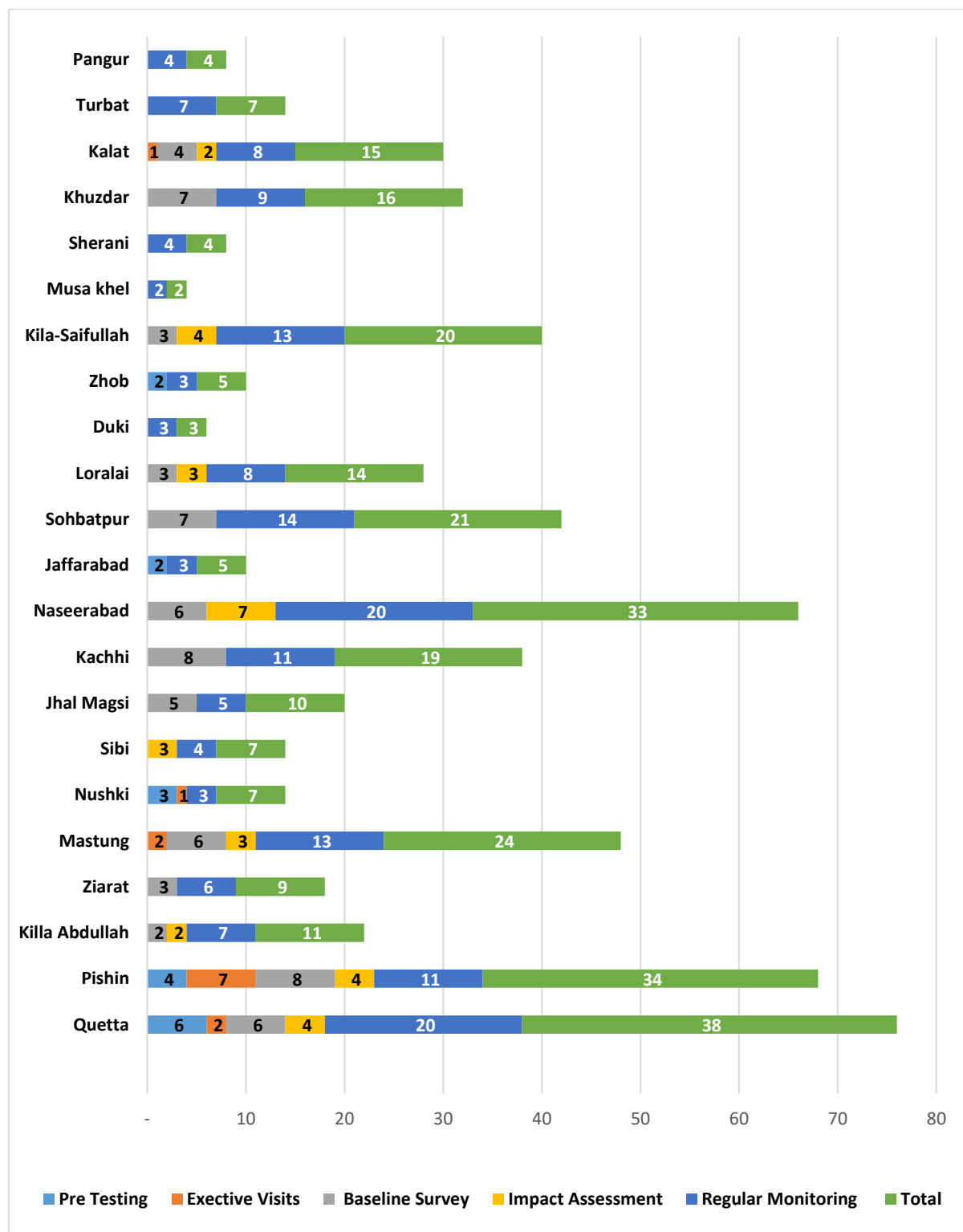
i) Overall Progress in Balochistan

The ME&IE Consultants, Balochistan have monitored 17 sites during the pre-testing of Monitoring Tools in different months. A total of 13 sites were monitored during executive visits with high officials. A total of two

Baseline Surveys were conducted, the first was conducted in the month of June 2021 and the second, was conducted in two parts (first in March 2022 and second in June 2022). A total of 68 sites were monitored during the baseline surveys i.e 17 Watercourses and 51 Water Storage Tanks. The Impact Assessment Survey was conducted in the month of November 2022 in which 32 sites have been monitored so far. Regular monitoring/spot-checking is another important activity of ME&IE Consultants in which a total of 178 sites of different districts have been monitored till the reporting month. In regular monitoring, ME&IE Consultants monitored ongoing / completed sites covering all financial years i.e., 2019-20, 2020-21, and 2021-22. The Balochistan field teams have so far monitored 77 Watercourses and 101 Water Storage Tanks in regular monitoring. The updated status of the total activities done is given in the below table:

The beneficiaries list of F.Y. 2022-23 is under progress by the Department. As soon as the Department initiates the works on F.Y. 2022-23 and finalizes the beneficiaries' lists, the ME&IE, Balochistan will start the "Baseline Survey – 3" activities accordingly.





Summary of Total Activities Done, District-wise

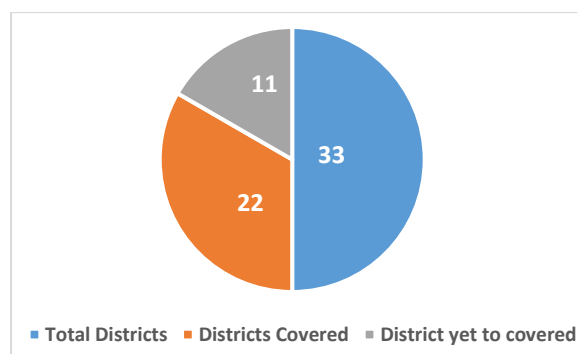
Districts Coverage

There are 33 districts in Balochistan, 02 more districts have been notified but their administrative setup yet to be functional. The Balochistan Team has planned

to cover all Balochistan as each district has different agriculture setup. All districts have different crops, vegetable, fruits based on their different climate and soil types. Some districts i.e., Quetta, Ziarat, Kalat, Muslim Bagh have extreme cold weather while some

districts i.e., Sibi, Naseerabad, Jaffarabad, Sohbatpur, Lasbella lies in extreme hot weather. Due to this reason ME&IEC, Balochistan have planned to cover all Balochistan to give a complete picture of cropping pattern and its intensity, social and gender data, water situation, cost production etc., to make more authentic data.

The Balochistan Zonal field teams have monitored the sites of 22 districts of 33 districts, the remaining 11 districts to be covered in upcoming months.



Districts Covered by ME&IEC - Balochistan

TRAINING ON CAPACITY BUILDING OF OFWM FIELD STAFF (ANDROID BASED DATA COLLECTION APPLICATION) – DASHBOARD, BALOCHISTAN

The dashboard is a “real-time” user interface showing graphical and tabular information of multiple data sets. Dashboards allow users to appreciate a situation at a glance and aids in making informed decisions. The way in which data are presented directly affects how they are understood and interpreted / consequently the decisions that are made because of the data.

The ME&IE Consultants conducted two days of training on the 7th and 8th of December in Quetta. The Directors, Deputy Directors, and other staff of OFWM, Agriculture Department have participated. The main objective of the training was to build capacity among Divisions, districts, and Field Teams to use real-time data collection through an android application.

The dashboard implementation phase consists of three stages

Stage I - Digitize and Migrate the Data

- Digitize the hard copy data
- Process the preliminary data cleaning and validation
- Migrate the complete data in the respective databases.

Stage II – Nominations of Data Collection Focal Personals at District Level

- For the selection of nomination from all districts by selecting a member (WMO or field engineer) from each district of Balochistan.

Stage III - Training and Capacity Building

Training was designed for multiple groups of users as mentioned below:

- DG, OFWM, Balochistan/ Representative
- Regional Directors, OFWM, Balochistan.
- Deputy Directors, OFWM, Balochistan
- Field Teams, OFWM, Balochistan
- Project Consultants (NWMC)– Balochistan

The DG, OFWM, Balochistan has nominated a Focal Person to perform following assignments:

- Coordination between DG, OFWM, Balochistan & PMIS team of ME&IE Consultants.
- Coordinate with PMIS team for bottlenecks/problems resolution
- Coordinate with District DDs to facilitate the PMIS team
- Provide any other technical support on behalf of DG OFWM department

Data Entry Responsibility (OFWM):

The OFWM field staff were nominated to fill the missing previous completed and on-going schemes and validate the data through customized android base application developed by the ME&IE consultants. The ME&IE Consultants are fully engaged to give them facilitations in data feeding or any trouble shooting.

Data Verification Responsibility (OFWM & ME&IE):

After conducting the training successfully, the ME&IE PMIS team are receiving data (Aggregate Server) from OFWM Staff through customized android-based application and after cleaning and validation the wrong data are communicating to concerned staff for correction.

Benefits of GIS based Management Information System:

- Comprehensively tracking the project inputs and outputs using mainly the set of key performance indicators outlined under each component at frequent intervals.
- Monitoring of project outcome indicators.
- Robustly analyzing the relevant ME&IE data.

- Reporting progress on an open-access and regular basis, to support knowledge sharing, greater transparency, and improved project governance.

Pictures of training / works shop conducted on 7th and 8th Dec. 2022 are given in **Annex-R**.

NPIWC-II, MIS Balochistan, Group:

The ME&IE Consultants have made a group of all field staff of OFWM to resolve the issues related to Android Data Application timely. The ME&IE are fully engaged with field staff of OFWM to accomplish this task as soon as possible. The field staff of OFWM are also visiting the ME&IE office, physically to discuss the issues and for assistance in data uploading. The FTI/Focal Person and other ME&IE Consultants staff providing their four support and cooperation in data feeding.

4.4 MEETINGS OF ME&IE CONSULTANTS WITH CLIENT AND STAKEHOLDERS

ME&IE Consultants remained in contact with all the zonal office of the Client during field monitoring and data collection for Baseline Survey-II and Midline Survey. Consultants conducted meetings with officials of Provincial OFWM and Irrigation departments. Detail of meetings held by ME&IE consultants with client is given as **Annex-H**.

4.5 INTERNAL MEETINGS OF ME&IE CONSULTANTS

ME&IE Consultants conducted routine internal meetings every Monday do discussed the progress of work and issues faced by the ME&IE consultants and field teams. A general view of such meetings is given as under:

Date	Every Monday
Venue	Routine Weekly Zoom Meeting
Participants	
i.	Dr. Usman Mustafa, Team Leader, ME&IE Consultants, National Office, Islamabad.
ii.	Dr. Muhammad Abdul Quddus, Agricultural Economist, Lahore Office.
iii.	Ms. Muniza Bashir Tarar, Social & Gender Specialist, NPIWC-II, National Office, Islamabad.
iv.	Dr. Humayun, Deputy Team Leader, ME&IE Consultants, KPK.
v.	Mr. Yousaf Bhatti, Deputy Team Leader, ME&IE Consultants, Punjab.

- vi. Mr. Rizwan Ahmed, Deputy Team Leader, ME&IE Consultants, Balochistan.
- vii. Dr. Ikram Saeed, DTL, ICT-Zone, Islamabad

Meeting Agenda/Points discussed:

- Follow-up of previous meeting.
- Discussion of Quarterly Monitoring Report
- Discussion on preparation of Quarterly Work Plan
- Midline Survey
- Status of available funds and further requirements.
- Meeting wrapped-up by the Team Leader with concluding remarks

Visit of National Social & Gender Specialist to Punjab Zonal Office Lahore

Date	30-12-2022
Venue	Punjab Zonal Office Lahore
Participants	
i.	Muhammad Yousaf Bhatti Deputy Team Leader ME&IE Consultants
ii.	Dr. Muhammad Abdul Quddus Agri Economist National office Islamabad
iii.	Munaza Bashir Tarar National Social & Gender Specialist
iv.	Awais Jahangeer Field Team In Charge
v.	All Field Members
Meeting Agenda/Points discussed:	
National Specialist for Social & Gender visited Punjab zonal office and discussed the progress in her respective field.	
Interactive session has been conducted with all field team members and MT's & different indicators were discussed	
She Appreciated the team work and desire to 10 to 20 respondents (females) should be interviewed during Third Baseline Survey Miss Abida Munir social & Gender specialist will also accompany the team during field activities.	
	
Discussion With Deputy Team Leader and Agri Economist	



Address the Field Team and Discussion on MTs about Social & Gender aspect.

4.6 ICT ASSIGNMENT

The ICT Team remained engaged in different activities related to the ME&IE assignment including development of Android based application, data collection for Dashboard and training of client staff on Dashboard / MIS for the project. During the Month of July 2022 activities completed by ICT Team are summarized below.

4.6.1 Development of Customized Android Based Applications

The ICT Technology Team of ME&IE Consultants NPIWC-II has developed Customized Android Based Applications for data collection. Data entry in this application is done directly by the field monitoring teams of all the zonal offices and is uploaded in the MIS system. The data is being observed and monitored by the ICT team of ME&IE Consultants.

In this regard, customized Android Based Applications have been developed, tested, and installed to Small Dams and Irrigation staff of AJK, Water Management Staff of ICT zone and OFWM staff KP zone.

4.6.2 Data collection of interventions in MIS/GIS database

The activity regarding data collection of Interventions in MIS/GIS database was completed in KP Zone in December 2021.

- Data cleaning and validation has been completed in KP Zone.
- The data collection for the dashboard is in progress in Balochistan. The ICT team is facing problems in data collection because a lot of data is missing

which was required by the ICT team for Implementation of MIS Dashboard.

4.6.3 Implementation of MIS Dashboard

The Dashboard has been implemented in AJK, and the progress of Interventions is live on the Dashboard since the 4th of November 2021.

AJK Zone - Watercourses Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
MZD	32	96	73	16	217
Poonch	37	38	78	11	164
Mirpur	38	107	88	49	282
Overall	107	241	239	76	663

So far, Total 663 Watercourses data from AJK zone has been received and available live on Dashboard by which 381 Watercourse has been completed & 194 watercourses are under progress. Due to farmers' unwillingness 88 Work Orders have been cancelled till now. Detailed summary attached as **Annex-K**.

AJK Zone - Water Storage Tank Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
MZD	35	61	73	4	173
Poonch	15	46	140	68	269
Mirpur	2	16	64	13	95
Overall	52	123	277	85	537

537 Water Storage Tank data received from AJK zone and is available live on Dashboard by which 289 Water Storage Tank has been completed and 177 WSTs are under progress. Due to the unwillingness of farmers there 71 WST work orders have been cancelled till now. Detailed summary attached as **Annex-L**.

The Dashboard has also been implemented in KP Zone and progress of completed schemes is live on the Dashboard since 11th March 2022.

KP Zone - Watercourses Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
Bajaur Agency	3	18	30	12	63
Bannu	73	35	93	14	215
D.I Khan	417	12	93	0	522
Hazara	84	56	146	33	319
Khyber Agency	6	13	6	0	25
Kohat	98	39	57	2	196
Kurram Agency	1	5	4	0	10
Malakand	178	167	411	3	759
Mardan	102	59	49	0	210
M. Agency	4	26	13	0	43
N.W Agency	2	3	0	0	5
Orakzai Agency	0	1	0	0	1

Division	2019-20	2020-21	2021-22	2022-23	Overall
Peshawar	136	85	84	2	307
S.W Agency	3	12	13	0	28
Overall	1107	531	999	66	2703

KP zone currently 2703 total watercourses data live on Dashboard and by which 2399 schemes have been completed and 300 schemes are under progress. Due to the unwillingness of farmers 04 Schemes work order has been cancelled till to date. Detailed Summary attached as **Annex-M**.

KP Zone - Water Storage Tank Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
Bajaur	1	10	9	1	21
Bannu	13	10	23	1	47
D. I. Khan	81	6	19	0	106
Hazara	28	43	87	4	162
Khy. Agency	1	9	12	0	22
Kohat	29	17	32	0	78
Kurram Agency	1	1	0	0	2
Malakand	74	95	177	0	346
Mardan	16	9	26	0	51
M. Agency	1	36	4	0	41
Orakzai Agency	0	2	0	0	2
Peshawar	36	25	59	2	122
S.W Agency	0	15	15	0	30
N.W Agency	0	8	8	1	17
Overall	281	286	471	9	1047

KP zone currently 1047 total WST data live on Dashboard and by which 861 schemes have been completed and 186 WSTs are under progress. Detailed Summary attached as **Annex-N**.

ICT Watercourses Data Summary			
Division	2020-21	2021-22	Overall
ICT	20	14	34
Overall	20	14	34

ICT zone so far 34 watercourse schemes have been initiated in this zone and all 34 have been completed till now.

Balochistan Zone – Watercourses Data Summary				
Division	2019-20	2020-21	2021-22	Overall
Kalat	601	141	76	818
Loralai	345	145	7	497
Makran	148	11	5	164
Nasirabad	216	104	135	455
Quetta	243	48	17	308
Rakhshan	128	58	41	227
Sibi	185	42	17	244
Zhob	197	69	43	309
Overall	2063	618	341	3022

Balochistan zone currently has 3022 total watercourses data live on Dashboard and by which 2693 schemes have been completed and remaining 329 are under progress. There's a lot of data missing to fulfill the Dashboard requirement. Due to deficiency in data some functions are not displaying the appropriate results. ICT team coordinating with concerned officials to fill the gap. Detailed Summary attached as **Annex-O**.

Balochistan Zone – WST Data Summary				
Division	2019-20	2020-21	2021-22	Overall
Kalat	98	150	321	569
Loralai	54	41	52	147
Makran	47	52	153	252
Nasirabad	29	48	74	151
Quetta	53	87	79	219
Rakhshan	26	67	67	160
Sibi	32	33	61	126
Zhob	39	62	117	218
Overall	378	540	924	1842

Balochistan zone currently has 1842 total Water Storage Tank data live on Dashboard and by which 1569 tanks have been completed and remaining 273 WSTs are under progress. There's also a lot of data missing to fulfill the Dashboard requirement. Due to deficiency in data some functions are not displaying the appropriate results. ICT team coordinating with concerned officials to fill the gap. Detailed Summary attached as **Annex-P**.

Punjab Zone – Watercourses Data Summary				
Division	2019-20	2020-21	2021-22	Overall
Bahawalpur	176	186	1	363
D.G Khan	142	69	3	214
Faisalabad	91	59	5	155
Gujranwala	65	27	1	93
Gujrat	52	28	2	82
Lahore	79	49	1	129
Multan	160	81	1	242
Sahiwal	95	89	0	184
Sargodha	85	73	0	158
Overall	945	661	14	1620

Punjab Zone currently has 1620 total Watercourses data live on Dashboard and all schemes are completed. There's also data missing in some districts and the ICT team is in close coordination with the Punjab OFWM Department to fill the missing data from concerned districts. Detailed Summary attached as **Annex-Q**.

4.6.4 Balochistan Zone Capacity Building Training

The ICT Team conducted a two days (07 to 08 December 2022) training workshop at Balochistan Zone OFWM staff to enhance their capability of data collection through the Android Based Application for rapid and validated data transmission. 98 staff members from various districts participated in this training. (Training details attached as **Annex S**).

4.7 MONITORING / DATA COLLECTION ON SOCIAL AND GENDER COMPONENT

In this quarter social and gender specialist worked on the process of impact assessment, discussions with in teams were carried out with teams, proposed study for Impact assessments was designed and shared with teams the questionnaire, the main focus of the study would be how programs affected the lives of poor and less marginalized this will cover social uplift, income growth asset building and reduction of vulnerability.

In the month of October gender specialist visited four sites in district Attock along with the field team, ICT team facilitated the specialists to carry out the assessments. Meetings were held with Team leader and deputy team leader regarding proposed study, quarterly report was prepared and monthly reports were submitted. Analysis was prepared of base line data; report was shared with all concerned quarters. questionnaire of proposed study was developed and shared. Deputy team leader further guided us and helped the specialists to refine it.

National gender specialist was visiting District Khushab privately and on the way found a board mentioning NPICW-II and gathering there, stopped and discussed informally about the program generally good vibes were perceived and they were looking forward for laser land leveling. Farmers were very happy on the construction of watercourses as the water in the area is brackish and they are mixing surface water with tube wells

In December National Specialist visited Lahore office and had a meeting with provincial team leader and Dr. Abdul Quddus discussed about poverty assessment and shared developed tool for their feedback. Meeting with field teams were held to discuss about their observations and tool was discussed and explained, further more it is requested if in Jan2023 during their field visits they try to test it.

Proposed study questionnaire was pretested by Punjab provincial gender specialist, further refinement of questionnaire is in process and study will be carried out in the first and second quarter of 2023.

During the reporting quarter Social and Gender Experts' team conducted visit to the ICT, Punjab Barani areas and AJK zones as per plan. The aim of the visits was to collect data on Gender and Social component, for Baseline Survey-II and Midline Survey and to observe the impact on targeted interventions under the project NPIWC II. The team coordinated with the beneficiaries and conducted interviews and focal discussions. Detail of field visits of interventions is given as **Annex- V**.

social and gender specialist worked on the process of impact assessment, discussions with in teams were carried out with teams, proposed study for Impact assessments was designed and shared with teams the questionnaire, the main focus of the study would be how programs affected the lives of poor and less marginalized this will cover social uplift, income growth asset building and reduction of vulnerability

National Gender Specialist was visiting District Khushab privately and on the way found a board mentioning NPIWC and gathering there, stopped and discussed informally about the program generally good vibes were perceived and they were looking forward for laser land leveling. Farmers were very happy on the construction of watercourses as the water in the area is brackish and they are mixing surface water with tube wells.





Proposed study questionnaire was pretested by Punjab provincial gender specialist, further refinement of questionnaire is in process and study will be carried out in the first quarter of 2023.

In the month of December, gender and social specialist prepared and reviewed quarterly and monthly reports for further submission activities were carried.

Following activities were carried out.

- Tabulation tables were prepared and submitted to information and communication technology team.
- Proposes study document was prepared along with key informant interview questionnaire
- Meetings held in Punjab Zonal office to review last quarter activities Gaps and issues were discussed in detail which hamper activities in field.

Gender Analysis will give us a clear and vivid idea of a profile, Access, cultural and social profile, participation, and ownership

- Activity Profile (what men and women of different ages do, where and when are these activities carried out)
- Access and Control Profile (who has access to and control over resources, assets, services and decision making and what are the constraints in access and control of resources)
- Structural Factors and Trends (how activity, access and control patterns are influenced by laws, policies, institutions, economic/political trends, religious practices and cultural norms)
- Needs and Priorities (who is likely to benefit or lose, how will this impact on sustainability of project benefits Institutional Capacities (types of institutions necessary to achieve results, their commitment and capacity of government and non-government organizations) [if applicable]
- Project Cycle Analysis (likely specific impacts of the project on women and men and opportunities to address gender concerns across the project cycle).

Study document and questionnaire was prepared to carry out project components impact on landless farmers and women of the programme area Study Purpose

Study Purpose

Objectives of the study is to evaluate the current state of affairs of the most vulnerable in rural communities such as tenant farmers, landless people and labors will also be included. It will help to understand up-to-date situation and issues of the less privileged population.

- To access project interventions' impact on farmers, women, and men.
- Poverty and other social issues will also be part of the focus group.
- Landless farmers will be specially focused will access to poverty.

Desk Study of the project documents

- All available data regarding the program and other similar programs implemented in the area
- Lessons Learnt from Desk Study and Baseline reports.

Study Focus

Desk Study-Review and analysis of secondary data and information about most vulnerable rural households and rural poverty.

Focus Group Discussion (FGD)

Village as a unit for arranging consultations. Everyone in the community will be invited to the discussion, with a special focus on landless farmers and Haris

- a. Sampling framework 20 villages in each province covering all project components.
- b. In each village two consultations will be carried out with male and female farmers. At least 10 to 15 community members will attend.
- c. Case studies of Landless and small farmers will be prepared to access the impact.
- d. Take pictures using Auto Stamper.

Design and Methodology.

1. Informed all the participants regarding the venue of the FGD.
2. Prepare a draft checklist for men and women.
3. Pre-testing the Checklist.
4. Refinement of the Checklist.
5. Attendance of the participants.
6. Pictures of consultation.
7. Late Afternoon meeting to Check and Evaluate the Filled Checklist and identify the gaps.
8. Analysis of FGDs data and information and Tabulation.

Analysis of Secondary Data and information

- Triangulation of secondary and primary data.
- Focus on Secondary data which will be collected during consultations in all provinces (Punjab, Ajk, Baluchistan, ICT, and Gilgit) and Deputy Team leaders will select the area after consultation with the team by keeping cultural and social conditions of the place.

Report Writing

- Introduction of the study.
- Lessons Learnt from Secondary Data and Information.
- Results of the FGD.
- Impacts on Most Vulnerable Rural Population.
- Key Issues.
- GAPS identified in processes like social mobilization and implementation will be addressed and shared with client to further improve the program and impacts on less privileged population

Requirements.

- Area identification
- Boarding and lodging expenditures for field visits by national and provincial gender expert
- Stationary
- Printing of questionnaire and final report
- Camera

Social & Gender Questionnaire are given as as **Annexure-T.**

Analysis of Statistical Tabulation of Social Gender Monitoring Tools

Water affects gender relations and raises several social, cultural, institutional and economic questions. The cultural and social setting defines power, status, prestige, rights and duties. It explains state of affair of women's access to land, water, education, health and employment compared to men. Roles of women and girls are saddled with chores relative to water fetching, carriage, storage and usage, though their role as users is recognized, women and youths are still not involved in managing and developing these resources, because social limitations limit their integration into decision-making bodies. It is in this rather complex context, marked by significant local and national specificities.

Women consent has become vibrant issue in the development program. Rank of irrigational activities in agricultural sector cannot be left out. Keeping in view the objectives of the NPIWC-II monitoring and evaluation consultants, it was anticipated to get a strong and vivid picture from field about women

participation and empowerment in agricultural based activities through monitoring and evaluations. To achieve the increased agricultural productivity and decrease poverty, women participation is very important as women play important role in building an enable environment for the wellbeing of their family and society.

Women consent has become vibrant issue on the development program. Rank of irrigational activities in agricultural sector cannot be left out. Keeping in view the objectives baseline survey was carried out in all program area. Gender Analysis will give us a clear and vivid idea of a profile, Access, cultural and social profile, participation, and ownership, MT was refined again and which covers the following aspects:

- Action Profile (what men and women folks of different ages do, where and when are these activities carried out)
- Access and Control Profile (who has access to and control over capitals, resources, services and decision making and what are the constraints in access and control of resources)
- Factors and Trends (how activity, access and control patterns are influenced by laws, policies, institutions, economic/political trends, religious practices and social customs)
- Needs and Priorities (who is likely to benefit or lose, how will this impact on sustainability of project)
- benefits Institutional Capacities i.e., forms of associations necessary to achieve results, their commitment and capacity of government and non-government organizations.
- Project Cycle Analysis, specific impacts of the project on women and men.

Analysis of statistical tabulation of social gender monitoring tools are given as **Annexure-U**.

CHAPTER 5: ISSUES / BOTTLENECKS

The ME&IE Consultants have been facing following constraints for timely initiating the activities:

- Due to non-availability of NWMC (NESPAK) deliverables/reports, ME&IE Consultants are facing hurdles to evaluate working of NWMC. In this regard the cooperation of NWMC and respective Directorates is required.
- Non availability of Technical Sanctions of the watercourses required for performing baseline surveys as well as the required obligatory followed surveys including Midline and endline
- Non-availability of complete up-to-date inventory / data of all interventions from the Client, Provincial Agricultural Departments & NWMC (NESPAK) till to date.
- Irregularity in the fund releases are also one of the key hurdles towards the completion of the required obligatory project assignments, timely.

ANNEXES A to V

ANNEX - A: TENTATIVE WORK PLAN FOR QUARTER (OCTOBER-DECEMBER 2022)

ANNEX-A: TENTATIVE QUARTERLY WORK PLAN (OCTOBER TO DECEMBER 2022)

TENTATIVE WORK PLANNED FOR THE QUARTER (Oct 2022 To Dec 2022)												Legend	
												Activity starts	↓
												Activity Ends	↑
												Activity Span	---
No.	ACTIVITIES	3 Months-Year 2022 (Weeks)											
		Oct				Nov				Dec			
		WK-1	WK-2	WK-3	WK-4	WK-1	WK-2	WK-3	WK-4	WK-1	WK-2	WK-3	WK-4
1	Pre-Field Activities												
	1.1 Preparation for 2nd-Phase Baseline Survey (Finalization of MTs)	↓	---	↑									
	1.2 Internal Meetings of ME&IE Consultants' Zonal Offices for development of Methodology for 2nd Phase Baseline Survey	↓	---	↑									
	1.3 Training of Field Staff for 2nd-Phase Baseline Survey	↓	---	↑									
2	Field Activities												
	2.1 Regular Monitoring of Interventions in the Field	↓	---	---	---	---	---	---	---	---	---	---	---
	2.2 Data collection of the interventions in the field	↓	---	---	---	---	---	---	---	---	---	---	---
	2.3 Baseline Survey stage - 2	↓	---	---	---	---	---	---	---	---	---	---	---
	2.4 Online data entry in android based application	↓	---	---	---	---	---	---	---	---	---	---	---
3	ICT Assignment												
	3.1 Development / Improvement of website of NPIWC-II	---	---	---	---	---	---	---	---	---	---	---	---
	3.2 Monitoring online data collection and Data entry	---	---	---	---	---	---	---	---	---	---	---	---
	3.3 Monitoring Android based Mobile Application under implementation by field staff.	---	---	---	---	---	---	---	---	---	---	---	---
	3.4 Data collection of interventions in MIS/GIS database	---	---	---	---	---	---	---	---	---	---	---	---
	3.5 Data Cleaning, Development & Launching of Dashboard for Client Offices	---	---	---	---	---	---	---	---	---	---	---	---
4	Coordination												
	4.1 Meetings of TL with NPC and OFWM Departments regarding Project Progress / Issues	---	---	---	---	---	---	---	---	---	---	---	---
	4.2 Meeting of DTLs with respective DTL of PC & concerned OFWM Departments	---	---	---	---	---	---	---	---	---	---	---	---
	4.3 ME&IE Consultants Internal Meetings	---	---	---	---	---	---	---	---	---	---	---	---
5	Deliverable												
	5.1 Monthly Monitoring Report	↓	↑			↓	↑			↓	↑		
	5.2 Quarterly Monitoring Report (January-March 2022)	↓	↑										
	5.3 Preparation of Baseline Survey Report 2nd-Phase									↓	---	---	---

ANNEX – A(i): TENTATIVE QUARTERLY WORK PLAN OF ICT ZONE

Sr. No.	Deliverables /Activity	ME&IE Targets	Start Date	End Date	ME&IE Activities for Field visits			2023											
					Baseline + Monitoring	Monitoring	Endline	Jan				Feb				Mar			
								W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4
	Islamabad OFWM data																		
	Kashmir OFWM data																		
	GB OFWM data																		
1	Coordination with OFWM by DTL				This coordination will be carried out by DTL with NPC and relevant Line Departments through one to one, email and phone for field visits.														
1.1	Collection of completed data of 2021-22 WC/WST																		
1.2	Coordination for ICR Data with Director Office			-															
1.3	Coordination for field visits through emails																		
2	Islamabad/Rawalpindi Visits				Baseline-3	Monitoring	Endline												
2.1	Water courses	8	10-Jan	30-mar	6	6	2		1		1					2		2	2
2.2	Water Storage Tanks Rawalpindi	4	10-Jan	30-mar	4	4	-									3	1		
2.3	Laser Land Levelling	0																	
3	Kashmir Visits				Baseline-3	Monitoring	Endline												
3.1	Water courses	32	10 Jan	30-mar	6	6	7		2	1	2		2			2	2		2
3.2	Water Stroage Tanks	12	10-mar	30-mar	6	6	2						2				3	3	
3.3	Laser Land Leveling (Progress is nil so far)																		

ANNEX – A(ii): TENTATIVE QUARTERLY WORK PLAN OF PUNJAB ZONE

TENTATIVE WORK PLANNED FOR the 3rd QUARTER of 2022 - 23													Legend
January - March 2023													Activity starts
													Activity Ends
													Activity Span
No.	ACTIVITIES		3 Months-Year 2023 (Weeks)										
			January				February				March		
			WK-1	WK-2	WK-3	WK-4	WK-1	WK-2	WK-3	WK-4	WK-1	WK-2	WK-3
1	Pre-Field Activities												
1.1	Preparation of Filed Activities												
1.2	Strategy For collection of basic data on various interventions												
2	Field Activities												
2.1	Regular Monitoring of interventions in the Field												
2.2	Data Collection on Baseline of interventions												
2.3	Basic Data Collection on Various Intervention(PMIS Dashboard) at Divisional Level												
3	Coordination												
3.1	Meeting of ME&IE Consultants with Stakeholders regarding project progress / Issues												
3.1	DTL with DG. Agri. OFWM / Director Agri. OFWM												
3.1	Field teams with DDAs and ADAs OFWM in respective Districts												
3.2	Meeting of ME&IE DTLs with respective DTLs of NWMC												
3.3	Internal / Zoom Meetings of ME&IE Consultants												
4	Post Field Activities												
4.1	Validation on Android Based Field Data												
5	Deliverable												
5.1	Monthly Monitoring report												
5.2	Quarterly Monitoring Report												
5.3	Impact Evaluation Report												
5.3	Midline Report												

ANNEX - B: MATRIX OF RESPONSIBILITIES

MATRIX OF RESPONSIBILITIES

LEGEND	
●	Primary Responsibility
○	Secondry Responsibility
○	Assistance

SR. NO.	DELIVERABLE / ACTIVITIES	NPC-FPMU	Agriculture Dept. (JOEWM)	Project Consultants	ME&IE Consultants
1	Provision of Pre-requisite data of project components for starting of Field Activities: <ul style="list-style-type: none"> • Organization of Water Users Associations, • Watercourses Improvement, • Water Storage Tanks, • Laser Land Levelers, 	○	●	-	-
2	Certification of operational documents of the project, <ul style="list-style-type: none"> • Design, cost estimates, completion reports of watercourses, • Design, cost estimates, completion reports of water storage tanks, 	○	○	●	-
3	Undertake baseline, midline and endline surveys of the project activities/interventions in all the project areas.	-	-	-	●
4	Develop monitoring strategy, framework and Result Based Monitoring (RBM) indicators,	-	-	-	●
5	Assessing the water saving per annum on watercourse and water storage tanks as well as aggregate due to the project interventions.	-	-	-	●
6	Assessing the improvement in water availability due to provision of conveyance system.	-	-	-	●
7	Assessing the economic benefits to the agriculture in terms of increase in yield, irrigated area, cropping pattern, cropping intensity, farm income and employment in command area of watercourses and water storage tanks.	-	-	-	●
8	Assessing the extent of community mobilization, financial and administrative sustainability of Water Users' Associations and ensuring the maintenance of watercourses, water storage tanks and laser land levelers.	-	-	-	●
9	Economic Impact of project interventions.	-	-	-	●
10	Carryout impact evaluation of the project investment on the economy and stakeholders.	-	-	-	●
11	Preparation of Monthly, Quarterly and Annual Monitoring, Evaluation and Validation Reports of the project activities.	-	-	-	●
12	Develop a website containing information of facilities and services, applications, procedures, watercourses, water storage tanks, and laser levelers database etc. (Maintaining website should be the responsibility of project staff).	-	-	-	●
13	Provide technical support for the development of a custom-designed mobile application (Android) to capture on-site project progress, geo tagged photos; should be synchronized with the central MIS/GIS database and application for instant reporting and feedback to the	-	-	-	●

ANNEX - C: MONITORING LOG-FRAME

Project subcomponents	Targets	Activities	Outputs	Outcome-1	Outcomes-2	Goals / Impact	Methodology for measuring results
C1: Organization of Water Users' Associations (WUAs)	Reactivation of existing / organization of water users' associations. Ensuring one on each target watercourse. Total WUAs ensured 47,278.	a) Community mobilization at 47,278 watercourses	a) Total 47,278 WUAs reactivated / established/registered	a) Right of way of 47,278 watercourses available b) Skilled and unskilled labour required for watercourse improvement available c) Construction material for civil works of watercourses procured d) Alternate arrangement for water conveyance during construction made e) Watercourse improved	a) Disputes among the water users settled b) Farmers' branched improved c) Water allocation made amicably d) Maintenance of watercourses, WST and laser units done e) Cooperation among farmers increased	a) 47,278 watercourses improved and 15 percentage points conveyance losses reduced b) Litigation among farmers reduced	a) The functioning of the WUAs will be established through sample interview surveys of WUAs members twice during the project period

Project subcomponents	Targets	Activities	Outputs	Outcome-1	Outcomes-2	Goals / Impact	Methodology for measuring results
C2: Watercourses Improvements	Improvement of 47,278 watercourses on cost sharing basis: 40% farmers in terms of labour, and 60% funded by project.	a) Establishment of 47,278 Water users' associations (WUAs); b) Registration of 47,278 WUAs; c) Improvement and realignment of earthen section of 47,278 watercourses; d) Lining of up to 50% length of 47,278 watercourse either by: <ul style="list-style-type: none"> • Precast concrete parabolic lining (PCPL) segments, or • Rectangular brick masonry, or 	a) 47,278 WCAs established; b) 47,278 WCAs registered; c) 47,278 watercourses improved and lined;	a) Conveyance losses for improved watercourses decreased by about 15 percentage points. b) 1.654 million households benefited from the activity; c) 11.347 million acres served with improved watercourses	a) Increase in cropping intensity on improved watercourses by 5-24%; b) Increase in crop yields. c) Increase in irrigated area d) Increase in agriculture output per unit of water by about 37%	a) Increase in farm income; b) Increase in employment for farm labour; c) Reduction in poverty; d) Enhanced food security for the country.	a) The water flow measurements will be carried out at before and after watercourse improvement on 2-5% sample basis; b) Agriculture survey before and after watercourse improvement on 2-5% sample basis; c) The survey will determine: <ul style="list-style-type: none"> • Cropping pattern before and after the improvement; • Cropping intensities before and after improvement;

Project subcomponents	Targets	Activities	Outputs	Outcome-1	Outcomes-2	Goals / Impact	Methodology for measuring results
		any other method as approved by the project					<ul style="list-style-type: none"> • Before and after crop yields; • Before and after employment; <p>d) The difference between before and after will be considered the result of the intervention after netting out the contribution of the growth pattern of the crop sector otherwise.</p>
C3: Construction of Water Storage Tanks (WSTs)	a) Construction of 14,932 water storage tanks	a) 14,932 small farmers mobilized to construct water storage tanks for irrigation	a) 14,932 WSTs constructed b) 14,932 WSTs operated and maintained	a) Water which was otherwise largely going to be wasted is saved b) Irrigation provided at	a) More area irrigated b) Increased cropping intensities	a) Increased crop yields b) Increased total crop output quantum c) Increased farm income	a) 2-5% sample of WSTs will be surveyed b) A data collection form will be designed to measure water

Project subcomponents	Targets	Activities	Outputs	Outcome-1	Outcomes-2	Goals / Impact	Methodology for measuring results
		b) They agree to contribute 40% of the cost c) Agree to first construct the tank with his/her own funds and then received subsidy at 40% on issuance of FCR		critical stages of the crops c) Flexibility achieved for irrigation		d) Increased farm employment	saving due to WSTs c) The forms used for baseline and impact surveys in case of watercourses will also be used for WSTs d) Same data analysis will be carried out here as in case of watercourses.
C4: Provision of Land Leveling Units	a) Provision of 11,610 laser land leveling units to farmers and service providers on a cost sharing basis: 50% by farmer / service provider and	a) 11,610 laser units provided to farmers / service providers; b) Farmers trained in using the units.	a) 11,610 farmers / service providers received PLL units; b) Farmers / service providers received training in using the units.	a) Land levelled on Farmers' / service providers' farms; b) Land levelled on fellow farmers on rent; c) Total 3.483million acres levelled	a) Water application efficiency increased at field level; b) Even germination of seed. c) Field application losses reduced by 10	e) Increased area under irrigated crops; f) Enhanced crop yields g) Increased farm income	a) The land levelling is expected to save irrigation water and result in better and even germination of seeds which can enhance crop yields. The crop yields thus affected will be reflected in

Project subcomponents	Targets	Activities	Outputs	Outcome-1	Outcomes-2	Goals / Impact	Methodology for measuring results
	50% by the project.			by 11,610 units.	percentage points d) Water productivity increased by 24%		agriculture sample surveys. b) 2-4% sample units will be visited by ME&IE Consultants teams after one years of delivery c) The unit will be verified d) Area treated during the year will be collected e) Farmers' feedback collected on quality of the unit, quality of the after-sale service, etc.

ANNEX - D: DELIVERABLES/REPORTING REQUIREMENTS

Deliverables/Reporting Requirements

Sr. No.	Document	Copies	Due
1	Draft Inception Report	8	45 days after the effectiveness of the Consulting services Agreement.
2	Final Inception Report	15	One week after the issuance of comments by the Client on Draft Inception Report
3	Monthly Monitoring Report	10	10 th of the following month
4	Baseline Survey Report	10	4 months after start of the assignment
5	Midline Survey Report	10	In the middle of the assignment
6	Endline Survey Report	10	At the end of the endline survey
7	Quarterly Monitoring and Evaluation Report	10	10 th of the first month of following quarter
8	Annual Monitoring and Evaluation Report	10	During first month of following year
9	Draft Assignment Completion Report	5	At completion of physical works / activities
10	Final Completion Report	25	At completion of works as well as financial transactions
11	Special Reports	10	As and when required

ANNEX - E: FIELD VISITS BY ZONAL TEAM ICT

Detail of field visits of ICT Zone ME& IE Team during the Current Quarter October 2022 to December 2022:

The major activities conducted by ME&IE consultants during reporting quarter were:

- Implementation on visit plans for impact survey of Baseline I.
- Tentative plan was made for conducting survey of baseline 3

- The Impact survey of Baseline-I has been completed. Four sites were covered during mid of the November, while two sites were covered during the last week of December-22.
- Social & Gender specialist conducted impact surveys.
- Conducted Food security impact and food consumption pattern survey.
- Held regular meetings.

Table 3.2: Total Activities, District-wise

Sr. #	District	First Phase Baseline		Second Phase Baseline		Midline Survey		Regular Monitoring / Spot Checking		Total visits
		WC	WST	WC	WST	WC	WST	WC	WST	
1	Islamabad	2	-	5	-	4	-	5	-	16
2	Attock	-	-	-	7	-	2	-	5	14
3	Chakwal	-	1	-	-	-	1	-	-	2
4	Kalar Kahar	-	1	-	-	-	1	-	-	2
5	Kalar Saidan	-	-	-	2	-	2	-	2	6
6	Taxila	-	-	-	1	-	-	-	1	2
7	Bhimber	-	-	9	1	-	-	-	-	10
8	Kotli	-	-	3	-	-	-	-	1	4
9	Mirpur	2	-	6	-	2	-	2	-	12
10	Muzaffarabad	2	-	3	4	2	-	5	4	20
Sub-Total		6	2	26	15	8	6	12	13	88

Field visit of Punjab zone, district Chakwal by ICT Team:

ME&IE team visited village Chak khushi, along with Assistant Director Qaiser Mehmood and field engineer Muhammad Yaseen, of OFWM. The aim of this visit was midline survey and to observe the impact. The beneficiary of Chak Khushi water storage tank was already there.

During introduction, the farmer told about his family, the land occupied by him, and some information about his crops that cultivated. He was well educated and was quite aware of all the agricultural practice.

He also has a farm house with livestock stand including cows, goats, buffaloes and poultry. The intervention was well maintained. WST was filled with clean water.

The farmer was growing wheat, Berseem lucin, maize fodders, other rabbi and kharif fodders. He further elaborated that before this WST he was only growing Maize and wheat but now he has started growing many fodder crops.

He has hired 2 labors. They were monthly paid by the famer. Interviews were taken. Coordinates were also taken at the spot.

The farmer was using Urea and DAP fertilizer, he also used FYM as an organic fertilizer. The land occupied by him was fertile and was suitable for different crops.

The farmer has agricultural land in non-canal area. The shape of the constructed water storage tank was square, the measured length and width of the four sides was 30X30 while the depth measured was 5ft. Source of water used by the beneficiary for this WST is Nallah, a mini dam was also constructed as a source of continuous supply of water.

1. Brief Profile of WST / Owner

Date of Visit	15-11-2022
Scheme	Water storage Tank
Farmer Name	Rizwan Haider
Name of village:	Chak-Khushi
Tehsil	Kallar Kahar
Province	Punjab
District	Chakwal
Source of irrigation:	Nallah
Shape of WST	Square

Length, width	30X30 Sq. feet
Command area of WSP:	12 Acres
No of beneficiaries:	1
Reduction in water disputes/thefts	No problems related to water theft



WST at Chak khushi filled with Water



Field team with farmer at village chak khushi



Livestock at village chak khushi

2. Brief Profile of WST / Owner

After village Chak Khushi the team move towards another village "Manaq Pur" to visit their targeted intervention. The team visited there for midline survey, Team had already visited this area before for baseline, but now the aim of this visit was only midline survey and to evaluate impact. The beneficiary's name is Muhammad Khan. The length and width of WST measured as 30X30 sq.Ft and depth is 5ft.

The farmer has cultivated olive orchard on his land. Before this intervention, he was not cultivating any crop. The olive plants were still young but the

beneficiary was happy. He expressed that the stand establishment of the olive plants is good.

This beneficiary used different types of fertilizer including DAP, urea and pesticides for the orchard. He has hired a labour who was living there along with his family and was monthly paid 20,000 PKR by the owner of the land.

The olive orchard was irrigated by the labour after every second day. The beneficiary has also installed solar system and drip irrigation system for the orchard.

Brief Profile of WST / Owner

Date	15-11-2022
Scheme	Water Storage Tank
Farmer Name	Muhammad Khan
Name of village:	Manaq- Pur
District:	Rawalpindi
Province	Punjab
Source of irrigation:	Tube well/ Bore
Type of WST:	Square
Length and width of WST:	30X30 Sq. Ft
Command area of WST:	8.5 Acres
No of beneficiaries:	1
Equity in water distribution increased	No Problems related to Equity in Water Distribution.
Reduction in water disputes/thefts	No problems related to water theft



ME&IE Team with beneficiaries at Manaq Pur



Interview taken on android app at Manaq Pur

Date of Visit	18-11-2022
Scheme	Water course
Farmer Name	Misbah-ud-din
Name of village:	sihala
Tehsil	-
Province	-
District	ICT
Source of irrigation:	Nallah
Type of WC	Pipe line
Command area of WC:	10 Acre
No of beneficiaries:	1
Reduction in water disputes/thefts	No problems related to water theft



Type NARC-G1 Garlic field



ICT Field Team with beneficiary of Sihala WC



Field team member interviewed male permanent hire labor of Sihala WC.

3. Brief Profile of WC/ Owner:

ME&IE team visited village **Sihala**, along with field engineer Mr. Mobin OFWM. The aim of this visit was midline survey and to observe the impact. The beneficiary of Sihala water course was already there.

During introduction the farmer told about his family, the land occupied by him, and some information about his crops cultivation. He was well educated and was quite aware of all the agricultural practice.

The farmer told the field team that he practiced to grow new type of garlic from seed type NARC G1, this type of seed is expensive and cost about 14000-18000 PakRs. per kg. and the size of garlic will be equal to the size of orange that's why the farmer will get plethora of yield from this land. The farmer told that he got all the benefits due to the sufficient and efficient availability of water, he gave video interview to the field team about this crops that he grows previously but now he has sufficient water to increase the number of crops, this farmer also grows Avocado. The PHL of this farmer is very happy from the farmer and well known about the crops and agricultural practices, females are also participating in agricultural practices.

The farmer was using Urea and DAP fertilizer, he also used FYM as a fertilizer. The land occupied by him was fertile and was suitable for different crops.

The farmer has agricultural land in non-canal area. The WC is pipe line type. The source of the water is Nalla.

Brief Profile of WST / Owner

Date	18-11-2022
Scheme	Water Course
Farmer Name	Shair Bahadur zada khan
Name of village:	Tumair
District:	ICT
Province	-
Source of irrigation:	Mini dam, Nalla
Type of WC:	Pipe line
Command area of WST:	2.75
No of beneficiaries:	1
Equity in water distribution increased	No Problems related to Equity in Water Distribution.

**Reduction in water
disputes/thefts**

**No problems related to
water theft**



Spinach crop at Tumair



**Field Team discussion with OFWM Officer and PHL
at Tumair WC.**



Fish pond at Tumair

After village **Sihala** the team move towards another village **Tumair** to visit their targeted intervention. The team visited there for midline survey, Team had already visited this area before for baseline, but

now the aim of this visit was only midline survey and to evaluate impact. The beneficiary's name is Shair Bahadur Pzada Khan.

The farmer has cultivated Spinach, wheat, and maize(fodder) on his land. Before this intervention he was not cultivating any crop. The farmer is happy for having the sufficient availability of water for his crops.

This beneficiary used different types of fertilizer including DAP, urea and FYM. He has hired Permanent labor who was living there along with his family and was monthly paid 25,000 PKR by the owner of the land.

The farmer also has the fish pond in his farm, the purpose of this pond is just for household use.

3. Brief Profile of WC/ Owner:

ME&IE team visited village **Sihala**, along with field engineer Mr. Mobin OFWM. The aim of this visit was midline survey and to observe the impact. The beneficiary of Sihala water course was already there.

During introduction the farmer told about his family, the land occupied by him, and some information about his crops cultivation. He was well educated and was quite aware of all the agricultural practice.

The farmer told the field team that he practiced to grow new type of garlic from seed type NARC G1, this type of seed is expensive and cost about 14000-18000 PakRs. per kg. and the size of garlic will be equal to the size of orange that's why the farmer will get plethora of yield from this land. The farmer told that he got all the benefits due to the sufficient and efficient availability of water, he gave video interview to the field team about this crops that he grows previously but now he has sufficient water to increase the number of crops, this farmer also grows Avocado. The PHL of this farmer is very happy from the farmer and well known about the crops and agricultural practices, females are also participating in agricultural practices.

The farmer was using Urea and DAP fertilizer, he also used FYM as a fertilizer. The land occupied by him was fertile and was suitable for different crops.

The farmer has agricultural land in non-canal area. The WC is pipe line type. The source of the water is Nalla.

Brief Profile of WST / Owner

Date	18-11-2022
Scheme	Water Course
Farmer Name	Shair Bahadur zada khan
Name of village:	Tumair
District:	ICT
Province	-
Source of irrigation:	Mini dam, Nalla
Type of WC:	Pipe line
Command area of WST:	2.75
No of beneficiaries:	1
Equity in water distribution increased	No Problems related to Equity in Water Distribution.
Reduction in water disputes/thefts	No problems related to water theft



Spinach crop at Tumair



Field Team discussion with OFWM Officer and PHL at Tumair WC.



Fish pond at Tumair

After village **Sihala** the team move towards another village **Tumair** to visit their targeted intervention. The team visited there for midline survey, Team had already visited this area before for baseline, but now the aim of this visit was only midline survey and to evaluate impact. The beneficiary's name is Shair Bahadur Pzada Khan.

The farmer has cultivated Spinach, wheat, and maize(fodder) on his land. Before this intervention he was not cultivating any crop. The farmer is happy for having the sufficient availability of water for his crops.

This beneficiary used different types of fertilizer including DAP, urea and FYM. He has hired Permanent labor who was living there along with his family and was monthly paid 25,000 PKR by the owner of the land.

The farmer also has the fish pond in his farm, the purpose of this pond is just for household use.

5: Brief Profile of WC / Owner-Non-Canal Area:

According to the plan, Field team left the ICT on 26th of December 2022 at 6:00AM in order to visit the Mirpur areas Villages, **New sunain** and **Lehri-6**. Field Team reached at 08:45am in Mirpur OFWM office, OFWM officer was already present in his office. After greetings, field team reviewed the files of water course provided by OFWM officer. After discussion in the office, the team left for monitoring visit along with OFWM officer.

ME&IE field team visited village, **New Sunain** along with OFWM officer, Muhammad Ali. OFWM officer was very cooperative and provided all the relevant data required by the field team. The aim of this visit was

midline survey to observe the impact of the project interventions. The beneficiary of **New Sunain** water course scheme was already available on the site.

FIELD VISIT OF MIRPUR: DEC-2022

Date of Visit	26-12-2022
Scheme	Water course
Farmer Name	Rashid Iqbal
Name of village:	New Sunain
Tehsil	Mirpur
Province	AJK
District	Mirpur
Source of irrigation:	Tube well
Shape of water course	PCP (Precast parabolic)
Command area of WC:	5 Acres
No of beneficiaries:	3
Reduction in water disputes/thefts	No problems related to water theft

According to the plan, Field team left the ICT on 26th of December 2022 at 6:00AM in order to visit the Mirpur areas Villages, **New sunain** and **Lehri-6**. Field Team reached at 08:45am in Mirpur OFWM office, OFWM officer was already present in his office. After greetings, field team reviewed the files of water course provided by OFWM officer. After discussion in the office, the team left for monitoring visit along with OFWM officer.

ME&IE field team visited village, **New Sunain** along with OFWM officer, Muhammad Ali. OFWM officer was very cooperative and provided all the relevant data required by the field team. The aim of this visit was midline survey to observe the impact of the project interventions. The beneficiary of **New Sunain** water course scheme was already available on the site.

Brief Profile of WC / Owner---Non-canal Area



Figure 3.1: Depicting New Sunain WC (Mogha) in the presence of field team, beneficiary and OFWM, officer



Figure 3.2: Field team member with OFWM officer at New Sunain WC

During introductory talk with the farmer, he told about his family, the land occupied by him, and some information about his cultivated crops. He was educated and quite aware of all the agricultural practices.

The targeted Water course was clean and farmer told the team that he regularly maintained the cleanliness of water course. Farmer told the team that he has his own tube well.

There are three beneficiaries on this water course with only operational 5 acres of agriculture land. The beneficiaries of this water course were used to grow Wheat, Maize and Barseem (fodder) previously, while during the baseline-I the farmers on this water course told that they did not have enough water to produce different number of crops and also not fetching good yields. The beneficiaries were very happy as the number of crops increased and the yield also increased after the introduction of the targeted interventions.

The beneficiaries on this water course hired 2 permanent labors (PHL). They were monthly paid by the famer.

Coordinates were taken on spot by team and measurement of WC were taken by team. The field team visited the currently grown crops like wheat and barseem in field, as well as took picture along with beneficiary of the water course.

The farmer was using Urea and DAP fertilizer, he also used FYM as a fertilizer. The land occupied by him was fertile and was suitable for different crops.



Figure 3.3: Starting point of New Sunian WC (Mogha)



Figure 3.4: Lively group Photo of the NPIWC-II Consultants' Field team, OFWM officer and beneficiary at New Sunian WC Scheme



Discussion of ME & IE team with DTL ICT Zone, at National Office Islamabad.

OBSERVATIONS by the Field Team Incharge:

- I. Following were the general observations, as well as regular monitoring recorded during the survey of WCs, both of the water courses ended up to the lining without any kacha portions;
- II. In case of both of the WCs, the sources of water were Tube Well that was situated at the middle of the catchment area, the flow of water in the channels was through gravitational action due to nature of the terrain of WC command areas; At both of the water courses Water User Association (WUAs) were fully functional and organized.
- III. There was no dispute reported among the farmers due to the effective WUA bodies.
- IV. Design and quality of material used for the construction of the WCs under the supervision of the WUAs were seen up to the mark;
- V. Files containing all the official record and documents were properly maintained by the concerned Water Management Officer; and
- VI. Both the interventions fall under non-canal --
- Barani area of Pothuwar on the property of owner/tenant categories.

ANNEX - F: FIELD VISITS BY ZONAL TEAM PUNJAB

1- FIELD VISITS OF VISIT OF WATERCOURSES IN PUNJAB ZONE

The Field Team comprises of the following:

1. Muhammad Yousaf Bhatti DTL
2. Awais Jahangeer FTI
3. Muhamad Zubair FTI

Visit Watercourse No. 45136/L

Date	21-12-2022
Watercourse No	45136/L
Type of Watercourse	Additional
Chak No/Village	9-Faiz
District and Tehsil	Multan
Name of Distributary	Rana Minor
Type of Moga	AOSM
Designed Discharge	85 LPS
Culturable Command area	300 Acres
Total No of water users	31
Improved lining Length	3895 M
Total lining Length	7790 M



A view of the Lined Portion of Watercourse no 45136/L

Visited the watercourse **No.45136-L** site at Village 9-Faiz Tehsil Multan and a meeting with the Water User Association for the complete study on the role of WUA and assess the impact of the lined watercourse.

The expected assessment as per farmers perception were:

- Water losses have been significantly reduced. The water flow till the end was much better than before.
- The pumping of tube well water has been reduced significantly.
- A change in cropping pattern was observed i.e cotton was being replaced by maize but not only due to an increase in water supply but other factors like climate change.
- The average yield of the major crop was expected to increase by 14-28 %. (Maize 60 to 80% mound, wheat 35-40 mound and rice 35 – 45 mounds per acre)
- Labor for cleaning watercourses has been reduced from 3 times to 1 per annum.
- The time for irrigation before intervention i.e., 3 hours/acre has been reduced to 2 ½ hrs. after improvement.





View of Meetig with Water User Associations

They raised an issue on the maintenance of the watercourse after its improvement, particularly towards the end of the watercourse i.e kacha portion. They asked for OFWM, assistance in this respect. The office bear (Mr. Mumtaz Ali, chairman, Riaz Hussain Treasure) were of the view that a fund should be raised from maintenance the early stage of organization of association.

Water Flow Measurement:

An exercise on actual measurement of water flow was carried out on the same watercourse at the head and mid of the watercourse. It was not possible to measure the water flow at the tail of the watercourse because of “warabandi”. Following are the field observations of the measurement of Water Flow by using a pygmy current meter at Water Course No 45136/L. The measured actual; measurement and departmental OFWM measurement are given below.

Field Observations:

Sr. No	Design Discharge (Cusec)	Actual Discharge Measured (Cusec)
1	3	2.60
2	3	2.55

Average Discharge = 2.57 Cusses

Detail of methodology of measurement of water flow with pygmy meter and calculation of discharge are given in **Annex-J**.



View of measurement of water flow of watercourse no 45136/L Multan

According to the chairman of the Water User Association following are the benefits of the improvement of the watercourse.

- Farmer was happy because before the improvement of the watercourse huge amount of water was wasted in the field. As a result of the improvement of the watercourse (additional Lining), the farmer is getting an adequate water supply.
- Now the farmer is Cultivating 100% area under Kharif and Rabi crops. Prior to it, he was unable to do so. Being at the tail is too happy with the such improvement.

Visit Pak Punjab PCPL (Pre-Cast Concrete Parabolic Lining) Segment Yard Karor Pacca

Date 22-12-2021

The main features of the yard are:

1. Name - Pak Punjab Traders

2. Ownership – Muhammad Manzoor s/o Karim Baksh
3. Area – Approximate 5 acres without any wall
4. Address – Kehror Paka Mailsi Road District Lodhran

Visited the Pak Punjab PCPL Segment Yard at Tehsil Kahrur Pakka and met with the owners and technical staff. The visit aimed to assess the backward linkages under NPIWC-II, employment generation & industrial growth.

Total employment:

150 people for the production line

50 people for other purposes like loading unloading etc

Wages for Nacca Making: 180-250
Rs/Nacca/Person

Wages for Segment Making: 200-300
Rs/Segment/Person

Production capacity of Yard:

500-600 segments/Day

800 Naccas/Day

Pak Punjab Traders own 5 yards in different areas of south Punjab with the approximately same capacity.

The labor employed belongs to the local area and does not require any specific experience or qualification. They learn to work in this trade gradually and become semi-skilled persons.

This factory also opens opportunities for various vendors and middlemen between the factory government and other private users of nakkas.



Pak Punjab PCPL Segment Yard Karor Pakka Visit and Meeting of ME&IE Consultants

Visit Laser Land Leveler Production Unit

Date 23-12-2021

The main features of the production unit are:

1. Name – Hanzala Traders and Laser Land Leveler
2. Ownership – Muhammad Zeeshan Aslam
3. Area – 1 Km Ludan Road Vehari

Visited the Hanzala Traders and Laser Land Service Providers (Registered firm) & interviewed the owner of the firm. The purpose of the visit was to learn about the manufacturing process related to LLL Units, employment generation, and industrial growth in this project.

Total Employment:

12 people Regular and 6 people on daily wages for the production line

3 technical people working like a sub-engineer.

Production capacity of Yard:

200-250 Units/Annum (Supply to government sector NPIWC-II and simultaneously to private farmers).

Hanzla Traders serve as 35 (sale, services and spare parts) also gives maintenance facilities to farmers for laser land levelers.

They manufacture locally more than 70% of parts of the laser in their factory.

Just the remaining electronic parts are imported from China, Germany, USA.



***Hanzala Traders and Laser Land Leveler Site Visit
and Meeting of ME&IE Consultants***

ANNEX - G: FIELD VISITS BY ZONAL TEAM BALOCHISTAN

Field visits detail of Impact Assessment Survey - Balochistan Zone

Team – 1: Monitored by Mohammad Tariq, FTI /
M&E Expert and Saleem Ahmed, M&E Officer.

1) Field Visit Date – 10/11/22

Scheme	Water Storage Tank
Farmer Name	Javaid Ahmed
Name of village:	Kundi
Union council:	Shah Pur
Chairman WUA:	Javaid Ahmed
District:	Naseerabad
Tehsil	Chattar
Coordinates	28.7082764 68.3074756
Source of irrigation:	Tube Well
Shape of water storage tank:	Squire
Size of water storage tank:	50x50
Depth of WST:	4.5 Ft
Command area of water storage tank:	25 Acre
No of beneficiaries:	2
Quality of work	Satisfactory
Cropping intensity increased	• Yes
Crops yield increased	• Yes
Equity in water distribution increased	• Yes
Reduction in water disputes/thefts	• There is no theft of water
Poverty reduction through generation of employment.	• Yes
Cement industry, bricks Killen, Precast Structures Industry and other related industries' production is pick up.	• Industrialization increased marginally due to recent inflation.
Overall feedback of Farmer / Beneficiary	• It has become easier for the farmer to manage the water which helps to avoid

	unnecessary water loss
General Observations	<ul style="list-style-type: none"> Water tank helped us to store water for field and also cover most population



Monitoring visit of WST, Javaid Ahmed village, Khurram Abad and Meeting with Farmers.

Team – 1: Monitored by Mohammad Tariq, M&E
Expert and Saleem Ahmed, M&E Officer

2) Field Visit Date – 10/11/22

Scheme	Water Storage Tank
Farmer Name	Fareed Khan
Name of village:	Mir Fareed Khan
Union council:	11
Chairman WUA:	Fareed Khan
District:	Naseerabad

Tehsil	Dera Murad Jamali
Coordinates	28.5335477 68.2699299
Source of irrigation:	Patfeder
Shape of water storage tank:	Squire
Size of water storage tank:	60x60
Depth of WST:	4.5 Ft
Command area of water storage tank:	70 Acre
No of beneficiaries:	6
Quality of work	Satisfactory
Cropping intensity increased	• Yes
Crops yield increased	• Yes
Equity in water distribution increased	• Yes
Reduction in water disputes/thefts	• There is no theft of water
Poverty reduction through generation of employment.	• Yes
Cement industry, bricks Killen, Precast Structures Industry and other related industries' production is pick up.	• Yes
Overall feedback of Farmer / Beneficiary	• Water Losses decreased 80%
General Observations	• Farmer was happy with this intervention



Monitoring visit of WST Fareed Khan village Mir Fareed Khan Umrani & Meeting with Farmers

Team – 1: Monitored by Mohammad Tariq, M&E Expert and Saleem Ahmed, M&E Officer

3) Field Visit Date – 11/11/22

Scheme:	Watercourse
Name of Farmer:	Munawer Ali
Name of village:	Noor Mohammad
Union council:	Quba Sher Khan Gharbi
Chairman WUA:	Munawr Ali
District:	Naseerabad
Tehsil	Dera Murad Jamali
Coordinates	28.5697871 68.0920689
Source of irrigation:	Rabbi Canal/Patfeder
Total length of watercourse:	685 Mtr
Estimated length of lining:	509 Mtr
Command area of watercourse:	60 Acre
No of beneficiaries:	4
Cost of Construction of WC:	2,825,815
Quality of Work	Satisfactory
Reduction in Water Logging and salinity	There is no salinity in water
Cropping intensity increased	Yes, approximately 10 percent Increased
Crops yield increased	Yes
Equity in water distribution increased	• Yes
Reduction in water disputes/thefts	• There is no theft of water
Poverty reduction through generation of employment.	• The former gets good income due to better production
Cement industry, bricks Killen, Precast Structures Industry and other related industries' production is pick up.	• Industrialization did not increase significantly
Overall feedback of Farmer / Beneficiary	• Labour cost also decreased
General Observations	• The farmer was very happy and its fertile land properly. Demanded more schemes. • Due to this scheme that farmer irrigated his land for rice crops

	<p>and vegetables as well.</p> <ul style="list-style-type: none"> WUA formed but not activated
	
	
<p><i>Monitoring visit of WST Munawar Ali Village Noor Muhammad with DDA, Naseerabad Saeed Ahmed Khosa.</i></p>	

Team – 1: Monitored by Mohammad Tariq, M&E Expert and Saleem Ahmed, M&E Officer

4) Field Visit Date – 11/11/22

Scheme	Water Storage Tank
Farmer Name	Mohammad Din
Name of village:	Haji Mohammad Din
Union council:	Quba Sher Khan Gharbi
Chairman WUA:	Mohammad Din
District:	Naseerabad
Tehsil	Dera Murad Jamali
Coordinates	28.5586092 68.0962307
Source of irrigation:	Rabbi Canal/Patfeder
Shape of water storage tank:	Squire
Size of water storage tank:	50x50
Depth of WST:	4.5 Ft
Command area of water storage tank:	65 Acre

No of beneficiaries:	5
Quality of work	Satisfactory
Cropping intensity increased	<ul style="list-style-type: none"> Yes
Crops yield increased	<ul style="list-style-type: none"> Yes
Equity in water distribution increased	<ul style="list-style-type: none"> Yes
Reduction in water disputes/thefts	<ul style="list-style-type: none"> There is no theft of water
Poverty reduction through generation of employment.	<ul style="list-style-type: none"> Yes, Due to the good yield of the crop the poverty of the formers has reduced
Cement industry, bricks Killen, Precast Structures Industry and other related industries' production is pick up.	<ul style="list-style-type: none"> Industrialization didn't increase due to recent inflation.
Overall feedback of Farmer / Beneficiary	<ul style="list-style-type: none"> It has become easier for the farmer to manage the water which helps to avoid unnecessary water loss
General Observations	<ul style="list-style-type: none"> Farmer was quite happy and demanding more intervention to increase their cultivated area.



Moniotirng visit of WC, Mohammad Din village Haji Mohammad Din Meeting with Farmers and DDA Naseerabad Saeed Ahmed Khosa

Field Visits detail of Impact Assessment Survey - Balochistan Zone

Team – 2: Monitored by Mr. Naseeb Jan,
FTI/M&E Expert, Mr. Muhammad Arsalan and
Mr. Hamza H. Qureshi, M&E Officer

5) Field Visit Date – 8th November 2022

Scheme:	Watercourse
Name of Farmer:	Rehmatullah
Name of village:	Badwan
Union council:	Kulak
Chairman WUA:	Rehmatullah
District:	Killa Abdullah
Tehsil	Killa Abdullah
Coordinates	N 30.6929, E 66.7858
Source of irrigation:	Tube Well
Total length of watercourse:	1981 Meters
Estimated length of lining:	610 Meters
Command area of watercourse:	40 Acres
No of beneficiaries:	1
Quality of Work	Satisfactory
Reduction in Water Logging and salinity	<i>No such Problem in the area</i>
Cropping intensity increased	To Some Extent
Crops yield increased	To Some Extent
Equity in water distribution increased	<i>No such Problem in the area</i>
Reduction in water disputes/thefts	<i>No such Problem in the area</i>
Poverty reduction through generation of employment.	To Some Extent
Cement industry, bricks Killen, Precast Structures Industry and other related industries' production is pick up.	No
Overall feedback of Farmer / Beneficiary	<ul style="list-style-type: none"> According to the beneficiary, he sold his crop in standing position last season, and due to the lack of care for the trees by the buyer, the trees were left to dry, but due to this WC he become able to

provide proper water to the trees and the trees.

- Heavy prices of crop/yield related items in market are unbearable resultantly causing miseries for him.
- Government must make sure provision of crop related items on a subsidized rates in boosting up agricultural activities in area.
- Government should proceed with such type of interventions in the area as these are coming out with savings of water which will definitely boost up agricultural activities in shape of crop & yield.

General Observations

- Cultivated land increased 30%
- Heavy loadshedding causing miseries for farmers.
- Heavy prices of crop related items were observed unbearable by farmers.



View of WC and view of data taking from farmer

6) Field Visit Date – 8th November 2022

Scheme	Water Storage Tank
Farmer Name	Abdul Qahar Agha
Name of village:	Lamaraan
Union council:	Kulak
Chairman WUA:	Abdul Qahar Agha
District:	Killa Abdullah
Tehsil	Killa Abdullah
Coordinates	N 30.7191, E 66.8214
Source of irrigation:	Tube Well
Shape of water storage tank:	Square
Size of water storage tank:	60x60 ft.
Depth of WST:	4.75ft.
Command area of water storage tank:	25 Acres
No of beneficiaries:	1
Quality of work	Satisfactory
Cropping intensity increased	No
Crops yield increased	20%
Equity in water distribution increased	No such Problem in the area
Reduction in water disputes/thefts	No such Problem in the area
Poverty reduction through generation of employment.	To Some Extent
Cement industry, bricks Killen, Precast Structures Industry and other related industries' production is pick up.	No
Overall feedback of Farmer / Beneficiary	<ul style="list-style-type: none"> The total number of livestock and yield of apple and grapes increased after this intervention. Due to such intervention, he brought some area lying waste under cultivation. Govt must ensure provision of


	<p>subsidized seeds, seedlings, sprays to farmers.</p> <ul style="list-style-type: none"> Govt must take concrete steps in bringing up water table by making mini dames and it must focus and make ground related policies strategies to counter global warming challenges. Govt must ensure provision of subsidized seeds, sprays etc
General Observations	<ul style="list-style-type: none"> Due to this intervention, the farmer had some land prepared near the WST and had planted wheat on this land. Farmer was optimistic about more such schemes in the area for boosting up agricultural activities. Heavy loadshedding was observed causing issues for farmers.



View of meeting with Farmer and view of WST

7) Field Visit Date – 10th November 2022

Scheme:	Watercourse
Name of Farmer:	Muhammad Younas
Name of village:	Sra Bazala
Union council:	Kan Mehtarzai
Chairman WUA:	Muhammad Younas
District:	Killa Saifullah
Tehsil	Kan Mehtarzai
Coordinates	N 30.7092, E 67.4925
Source of irrigation:	Tube Well
Total length of watercourse:	610 Meters
Estimated length of lining:	610 Meters
Command area of watercourse:	12 Acres
No of beneficiaries:	1
Quality of Work	Satisfactory
Reduction in Water Logging and salinity	No such Problem in the area
Cropping intensity increased	No
Crops yield increased	To Some Extent
Equity in water distribution increased	No such Problem in the area
Reduction in water disputes/thefts	No such Problem in the area
Poverty reduction through generation of employment.	No
Cement industry, bricks Killen, Precast Structures Industry and other related industries' production is pick up.	No
Overall feedback of Farmer / Beneficiary	<ul style="list-style-type: none"> The per tree yield increased by a significant amount and the farmer was planning to plant more Apple trees on his land but heavy loads heeding creating problems for farmer. Heavy prices of farm related items were become unbearable for them. Government must ensure seeds,

	<p>sprays etc. on subsidized rates.</p> <ul style="list-style-type: none"> Government should arrange awareness sessions to farmers regarding modern technics of farming.
General Observations	<ul style="list-style-type: none"> The water available for this land was very good for agriculture purpose, and the farm was very properly maintained and every tree was irrigated properly. Heavy prices of farming items were observed unbearable. Heavy loadshedding causing miseries for farmers in irrigating their farm properly. Farmers need to be equipped with modern way and technique of farming in boosting up crop and yields.
 <p>The top photograph shows three people standing in a field with many trees. The bottom photograph shows a close-up of a tree in a field with a watercourse in the background.</p>	
View of WC	

8) Field Visit Date – 10th November 2022

Scheme:	Watercourse
Name of Farmer:	Muhammad Gulab
Name of village:	Molvi Bakhtiyar
Union council:	Bindat Mirzai
Chairman WUA:	Muhammad Gulab
District:	Killa Saifullah
Tehsil	Killa Saifullah
Coordinates	
Source of irrigation:	Tube Well
Total length of watercourse:	701 Meters
Estimated length of lining:	666 Meter
Command area of watercourse:	20 Acres
No of beneficiaries:	1
Cost of Construction of WC:	N/A
Quality of Work	Satisfactory
Reduction in Water Logging and salinity	No such Problem in the area
Cropping intensity increased	No
Crops yield increased	To some Extent
Equity in water distribution increased	No such Problem in the area
Reduction in water disputes/thefts	No such Problem in the area
Poverty reduction through generation of employment.	2 to 3 laborers increased
Cement industry, bricks Killen, Precast Structures Industry and other related industries' production is pick up.	No
Overall feedback of Farmer / Beneficiary	<ul style="list-style-type: none"> Total Yield of Carrot was increased a lot and the farmer was planning to plant more vegetables. Farmer was optimistic in terms of increasing yield due to such intervention but load shedding on a large-scale causing miseries and issues in irrigating such a vast area for good cropping.

General Observations

- The farmer was treating and preparing more land more his barren lands for other vegetables but load shedding on a large scale was observed as hurdle in irrigating his areas.
- Heavy prices of seeds, seedlings, sprays and other crop related items were issues faced by farmers.
- Farm to market transportation of yield was also a crucial issue.
- Farmer was observed in dire need of such intervention due to his vast barren land bringing it under cultivating other cropping.



View of data taking from Farmer and view of plowing

Team – 3: Monitored by Mr. Manzoor Ahmad Kasi, FTI/ M&E Expert, Mr. Qaisar Khan, M&E Officer, Mr. Basit Ahmad, M&E Officer, Ms. Mahgul Noor, M&E Officer & Mr. Muhammad Umair, M&E Officer

9) Field Visit Date – 8th November 2022

Scheme	Water Storage Tank
Farmer Name	Ain Uddin
Name of village:	Killi Malik Yar
Union council:	Malikyar
Chairman WUA:	Ainudin
District:	Pishin
Tehsil	Pshin
Coordinates	30.689096 67.08964
Source of irrigation:	Tube well
Shape of water storage tank:	Square
Size of water storage tank:	30x30 sq. Ft.
Depth of WST:	4.5
Command area of water storage tank:	5
No of beneficiaries:	1
Starting date:	
Quality of work	Satisfactory
Cropping intensity increased	15%
Overall feedback of Farmer / Beneficiary	This scheme is so help full for former. Farmer was demanding for solar system to have better results for his farming.



View of Sign Board

10) Field Visit Date – 8th November 2022

Scheme	Water Storage Tank
Farmer Name	Abdul Manan
Name of village:	Malikyar
Union council:	Malikyar
Chairman WUA:	Abdul Manan
District:	Pishin
Tehsil	Pshin
Coordinates	30.690617 67.093618
Source of irrigation:	Tube well
Shape of water storage tank:	Square
Size of water storage tank:	40'x40'
Depth of WST:	4.5'
Command area of water storage tank:	7
No of beneficiaries:	1
Quality of work	Satisfactory
Cropping intensity increased	• 15%
Crops yield increased	• No



The M&E Team taking data from Farmer and OFWM Staff

11) Field Visit Date – 8th November 2022

Scheme	Water Storage Tank
Farmer Name	Muhammad Yaseen
Name of village:	Killi Abdullah Jan
Union council:	Faiz Abad

Chairman WUA:	Muhammad Yaseen
District:	Pishin
Tehsil	Pshin
Coordinates	30.546255 66.99387
Source of irrigation:	Tube well
Shape of water storage tank:	Square
Size of water storage tank:	50'x50'
Depth of WST:	4.5'
Command area of water storage tank:	8
No of beneficiaries:	1
Quality of work	Satisfactory
Cropping intensity increased	• 15%
Crops yield increased	• No
Equity in water distribution increased	• No



View of Sign Board and group photo with OFWM staff and Farmer

12) Field Visit Date – 8th November 2022

Scheme	Water Storage Tank
Farmer Name	Muhammad Younas
Name of village:	Killi Abdullah Jan
Union council:	Faiz Abad
Chairman WUA:	Muhammad Younus
District:	Pishin
Tehsil	Pshin
Coordinates	30.547467 66.996863
Source of irrigation:	Tube well
Shape of water storage tank:	Square
Size of water storage tank:	60'x60'
Depth of WST:	4.5 ft
Command area of water storage tank:	8 acre
No of beneficiaries:	1
Cropping intensity increased	• 15%
Crops yield increased	• No



View of WST

13) Field Visit Date – 10th November 2022

Scheme	Water Storage Tank
Farmer Name	Ghulam Raza
Name of village:	Hassan Lalo
Union council:	Kalat
Chairman WUA:	Ghulam Raza
District:	Kalat

Tehsil	Kalat
Coordinates	28°56.090 066°35.366
Source of irrigation:	Tube well
Shape of water storage tank:	Square
Size of water storage tank:	60'x60'
Depth of WST:	4.5'
Command area of water storage tank:	18
No of beneficiaries:	1
Cropping intensity increased	8%



Views of WST and ME&IEC field team with DDA, OFWM and Farmer taking data

14) Field Visit Date –10th November 2022

Scheme:	Watercourse
Name of Farmer:	Abdul Hameed
Name of village:	Zarazai
Union council:	Khaliqabad
Chairman WUA:	Abdul Hameed
District:	Kalat
Tehsil	KhaliqAbad

Coordinates	29°21.967 066°32.569
Source of irrigation:	Tube well
Total length of watercourse:	2000 Rft
Estimated length of lining:	2000 Rft
Command area of watercourse:	15 Acers
No of beneficiaries:	1
Cost of Construction of WC:	1,548,688/=



M&E Staff filling data on ODK, view of Sign Board & WC

Executive Monitoring Field Visit - detail of Impact Assessment Survey - Balochistan Zone

Monitored by Mr. Saif Ullah Ejaz Ch, Authorised Representative of JVs / Director, G3ED and Mr. Rizwan Ahmed, DTL, M&E Consultants, Balochistan

01- Field Visit Date –12th November 2022

Scheme:	Water Storage Tank
Name of Farmer:	Abdul Quddus Lehri
Union council:	Shamozai
Chairman WUA:	Abdul Quddus Lehri
District:	Quetta
Tehsil	Quetta
Source of irrigation:	Tube Well
Size of WST	60x60
No of beneficiaries:	1
Coordinates:	N 30.1138, E 66.9414
Shape of Water Storage Tank:	Square
Size of Water Storage Tank:	60x60 ft.
Depth of WST:	4.5 ft.
Financial Year:	2019-2020
Quality of Work	Satisfactory
Reduction in Water Logging and salinity	No such Problem in the area
Cropping intensity increased	Yes
Crops yield increased	Yes
Equity in water distribution increased	No such Problem in the area
Reduction in water disputes/thefts	No such Problem in the area
Poverty reduction through generation of employment.	Yes
Overall feedback of Farmer / Beneficiary	<ul style="list-style-type: none"> According to the beneficiary, his cultivated area increased up to 4 to 5 acres due to this intervention. Water Saving increased 80% Farmer told that now he has started tunnel farming after availability of sufficient water.

	<ul style="list-style-type: none"> A good impact observed on livestock.
General Observations	<ul style="list-style-type: none"> Due to Heavy loadshedding farmer feeling lot of problems. Heavy prices of crop related items were observed unbearable by farmers.



View of Sign Board and WST


Regular Monitoring / Spot Checking of District Kech / Turbat.

Monitored by Mr. Rizwan Ahmed, DTL and Saleem Ahmed, M&E Officer.

1. Field Visit Date: 30/11/22

Scheme	Water Storage Tank
Farmer Name	Mohammad Ayoub
Name of village:	Dabok
Union council:	Kalatuk
Chairman WUA:	Mohammad Ayoub
District:	Kech
Tehsil	Turbat
Coordinates	26.0440217 62.8596767
Source of irrigation:	Tube Well
Shape of water storage tank:	Squire

Size of water storage tank:	40x40
Depth of WST:	4.5 Ft
Command area of water storage tank:	15 Acre
No of beneficiaries:	2
Construction Cost of water storage Tank:	935,983/=
Quality of work	Satisfactory
Cropping intensity increased	Yes
Crops yield increased	Yes
Poverty reduction through generation of employment.	<ul style="list-style-type: none"> Yes, due to the good yield of the crop the poverty of the formers has reduced
Overall feedback of Farmer / Beneficiary	<ul style="list-style-type: none"> It has become easier to manage the water which helps to avoid unnecessary water loss. Due to such intervention, farmer brought some area lying waste under cultivation, resultantly his crops yield increased. Farmers were quite happy and demanded more intervention to increase their cultivated area Due to this intervention, the farmer had some land prepared near the WST and had planted more trees of dates on this land. Farmer was optimistic about more such schemes

	in the area for boosting up agricultural activities
General Observations	<ul style="list-style-type: none"> Government must focus on such type of interventions, which will simultaneously prove fruitful & beneficial for farmer and general masses at large. Govt must ensure provision of subsidized fertilizers, seeds, seedlings, sprays and rest of the items related to agricultural Water tank helped to store water for field and also covered maximum population
 <p>The top photograph shows a concrete-lined water storage tank (WST) in a rural area with palm trees in the background. Several people are standing near the tank. The bottom photograph shows a group of men, including one in a blue shirt and cap, standing next to the WST, likely during a spot check.</p>	
Spot Checking of WST with Mohammad Ayoub	

2. Field Visit Date: 30/11/22

Scheme	Water Storage Tank
Farmer Name	Meeran
Name of village:	Solband

Union council:	Solband
Chairman WUA:	Meeran
District:	Kech
Tehsil	Turbat
Coordinates	26.0527506 62.8002471
Source of irrigation:	Tube Well
Shape of water storage tank:	Squire
Size of water storage tank:	50x50 Sq. Ft.
Depth of WST:	4.5 Ft
Command area of water storage tank:	12 Acre
No of beneficiaries:	2
Construction Cost of water storage Tank:	PkRs 1,064,232/=
Quality of work	Satisfactory
Cropping intensity increased	• Yes
Crops yield increased	• Yes
Poverty reduction through generation of employment.	• Yes
Overall feedback of Farmer / Beneficiary	<ul style="list-style-type: none"> Farmers were quite happy and demanded more intervention to increase their cultivated area Due to this intervention, the farmer had some land prepared near the WST and had planted more trees of dates on this land.
General Observations	<ul style="list-style-type: none"> Water tank helped us to store water for field and also cover most population Govt must ensure provision of subsidized fertilizers, seeds, seedlings, sprays and rest of the

- items related to agricultural
- Water tank helped to store water for field and also covered maximum population
 - Govt. should provide solar system on subside rate as heavy load shedding is immense problem of this district overall.







Spot Checking of WST Meeran Khan

3. Field Visit Date: 30/11/22


Scheme	Water Storage Tank
Farmer Name	Mohammad Saleem
Name of village:	Nozband
Union council:	Nasir Abad
Chairman WUA:	Mohammad Saleem
District:	Kech
Tehsil	Turbat
Coordinates	26.0701058 62.7432205
Source of irrigation:	Tube Well
Shape of water storage tank:	Squire
Size of water storage tank:	60x60 Sq. Ft.

Depth of WST:	4.5 Ft
Command area of water storage tank:	20 Acre
No of beneficiaries:	2
Construction Cost of water storage Tank:	1,594,004/=
Quality of work	Satisfactory
Cropping intensity increased	• Yes
Crops yield increased	• Yes
Poverty reduction through generation of employment.	<ul style="list-style-type: none"> • Yes, Due to the good yield of the crop the poverty of the formers has reduced
Overall feedback of Farmer / Beneficiary	<ul style="list-style-type: none"> • It has become easier to manage the water which helps to avoid unnecessary water loss. • Due to such intervention, farmer brought some area lying waste under cultivation, resultantly his crops yield increased.
General Observations	<ul style="list-style-type: none"> • Water tank helped us to store water for field and also cover most population • Due to insufficient water this water course storage in order to irrigate our field/Crops • Govt. should provide solar system on subside rate as heavy load shedding is immense problem

	of this district overall.
   	
Spot Checking of WST Mohammad Saleem	

4. Field Visit Date: 30/11/22

Scheme	Water Storage Tank
Farmer Name	Zareef Ahmed
Name of village:	Mir Mir
Union council:	Kaltuk
Chairman WUA:	Zareef Ahmed
District:	Kech
Tehsil	Turbat
Coordinates	26.039595 62.878195
Source of irrigation:	Tube Well
Shape of water storage tank:	Squire
Size of water storage tank:	40x40 Sq.Ft.
Depth of WST:	4.5 Ft
Command area of water storage tank:	18 Acre
No of beneficiaries:	2
Construction Cost of water storage Tank:	Rs. 780,318/=
Quality of work	Satisfactory
Cropping intensity increased	• Yes
Crops yield increased	• Yes
Reduction in water disputes/thefts	• There is no theft of water
Poverty reduction through generation of employment.	• Yes
Overall feedback of Farmer / Beneficiary	<ul style="list-style-type: none"> • Farmer was optimistic about more such schemes in the area for boosting up agricultural activities

	<ul style="list-style-type: none"> It has become easier to manage the water which helps to avoid unnecessary water loss Water tank helped us to store water for field and also cover most population
General Observations	<ul style="list-style-type: none"> Government must focus on such type of interventions, which will simultaneously prove fruitful & beneficial for farmer and general masses at large. Govt must ensure provision of subsidized fertilizers, seeds, seedlings, sprays and rest of the items related to agricultural Water tank helped to store water for field and also covered maximum population
 <p><i>Spot Checking of WST Zareef Khan</i></p>	

5. Field Visit Date: 30/11/22


Scheme	Water Storage Tank
Farmer Name	Habibur Rehman
Name of village:	Sorag
Union council:	Kalatuk
Chairman WUA:	Habibur Rehman
District:	Kech
Tehsil	Turbat
Coordinates	26.034705 62.8544983

Source of irrigation:	Tube Well
Shape of water storage tank:	Squire
Size of water storage tank:	60x60 Sq. Ft.
Depth of WST:	4.5 Ft
Command area of water storage tank:	13 Acre
No of beneficiaries:	2
Construction Cost of water storage Tank:	Rs. 1,550,309/=
Quality of work	Satisfactory
Cropping intensity increased	<ul style="list-style-type: none"> Yes
Crops yield increased	<ul style="list-style-type: none"> Yes
Equity in water distribution increased	<ul style="list-style-type: none"> Yes
Poverty reduction through generation of employment.	<ul style="list-style-type: none"> Yes
Overall feedback of Farmer / Beneficiary	<ul style="list-style-type: none"> Farmers were quite happy and demanded more intervention to increase their cultivated area Water tank helped us to store water for field and also cover most
General Observations	<ul style="list-style-type: none"> Government must focus on such type of interventions, which will simultaneously prove fruitful & beneficial for farmer and general masses at large. Govt must ensure provision of subsidized fertilizers, seeds, seedlings, sprays and rest of the items related to agricultural Water tank helped to store water for field and also



6. Field Visit Date: 30/11/22


Scheme	Water Storage Tank
Farmer Name	Rasheed Ahmed
Name of village:	Shay Kahan
Union council:	Shay Kahan
Chairman WUA:	Rasheed Ahmed
District:	Kech
Tehsil	Turbat
Coordinates	26.0420738 62.8087834
Source of irrigation:	Tube Well
Shape of water storage tank:	Squire
Size of water storage tank:	50x50 Sq. Ft.
Depth of WST:	4.5 Ft
Command area of water storage tank:	14 Acre
No of beneficiaries:	1
Construction Cost of water storage Tank:	Rs. 1,240,237/=
Quality of work	Satisfactory
Cropping intensity increased	• Yes
Crops yield increased	• Yes
Reduction in water disputes/thefts	• There is no theft of water

Poverty reduction through generation of employment.	<ul style="list-style-type: none"> • Yes Due to the good yield of the crop the poverty of the farmers has reduced
Overall feedback of Farmer / Beneficiary	<ul style="list-style-type: none"> • Farmers were quite happy and demanded more intervention to increase their cultivated area • Due to this intervention, the farmer had some land prepared near the WST and had planted more trees of dates on this land.
General Observations	<ul style="list-style-type: none"> • Water tank helped us to store water for field and also cover most population • Govt must ensure provision of subsidized fertilizers, seeds, seedlings, sprays and rest of the items related to agricultural • Water tank helped to store water for field and also covered maximum population • Govt. should provide solar system on subside rate as heavy load shedding is immense problem of this district overall.
 <p><i>Spot Checking of WST Rasheed Ahmed</i></p>	

7. Field Visit Date: 30/11/22

Scheme	Water Storage Tank
Farmer Name	Saud Hoot
Name of village:	Mir Mir Allah Bakht

Union council:	Kalatuk
Chairman WUA:	Saud Hoot
District:	Kech
Tehsil	Turbat
Coordinates	26.038945 62.8731583
Source of irrigation:	Tube Well
Shape of water storage tank:	Squire
Size of water storage tank:	40x40 Sq. Ft.
Depth of WST:	4.5 Ft
Command area of water storage tank:	30 Acre
No of beneficiaries:	2
Construction Cost of water storage Tank:	Rs. 780,318/=
Quality of work	Satisfactory
Cropping intensity increased	• Yes
Crops yield increased	• Yes
Equity in water distribution increased	• Yes
Reduction in water disputes/thefts	• There was no theft of water
Poverty reduction through generation of employment.	• Yes Due to the good yield of the crop the poverty of the formers has reduced
Overall feedback of Farmer / Beneficiary	<ul style="list-style-type: none"> • It has become easier to manage the water which helps to avoid unnecessary water loss. • Due to such intervention, farmer brought some area lying waste under cultivation, resultantly his crops yield increased. • Farmers were quite happy and demanded more intervention to

	<p>increase their cultivated area</p> <ul style="list-style-type: none"> • Due to this intervention, the farmer had some land prepared near the WST and had planted more trees of dates on this land. • Farmer was optimistic about more such schemes in the area for boosting up agricultural activities
General Observations	<ul style="list-style-type: none"> • Government must focus on such type of interventions, which will simultaneously prove fruitful & beneficial for farmer and general masses at large. • Govt must ensure provision of subsidized fertilizers, seeds, seedlings, sprays and rest of the items related to agricultural • Water tank helped to store water for field and also covered maximum population
 <p><i>Spot Checking of WST Saud Hoot</i></p>	

Regular Monitoring / Spot Checking of District Panjgor.

Monitored by Mr. Rizwan Ahmed, DTL and Saleem Ahmed, M&E Officer.

1. Field Visit Date: 02/12/22

Scheme	Water Storage Tank
Farmer Name	Nazeer Ahmed
Name of village:	Saraduk
Union council:	Washbood
Chairman WUA:	Nazeer Ahmed
District:	Panjgor
Tehsil	Panjgor
Coordinates	27.0305587 64.2766136
Source of irrigation:	Tube Well
Shape of water storage tank:	Squire
Size of water storage tank:	60x60 Sq. Ft.
Depth of WST:	4.5 Ft
Command area of water storage tank:	30 Acre
No of beneficiaries:	2
Construction Cost of water storage Tank:	Rs. 1,594,004/=
Quality of work	Satisfactory
Cropping intensity increased	<ul style="list-style-type: none"> Yes
Crops yield increased	<ul style="list-style-type: none"> Yes
Reduction in water disputes/thefts	<ul style="list-style-type: none"> There was no theft of water
Poverty reduction through generation of employment.	<ul style="list-style-type: none"> Yes, Due to the good yield of the crop the poverty of the formers has reduced
Overall feedback of Farmer / Beneficiary	<ul style="list-style-type: none"> It has become easier to manage the water which helps to avoid unnecessary water loss. Due to such intervention, farmer brought some area lying

	waste under cultivation, resultantly his crops yield increased.
General Observations	<ul style="list-style-type: none"> Water tank helped us to store water for field and also cover most population Due to insufficient water this water course storage in order to irrigate our field/Crops Govt. should provide solar system on subside rate as heavy load shedding is immense problem of this district overall.



Spot Checking of WST Nazeer Ahmed

2. Field Visit Date: 02/12/22

Scheme:	Watercourse
Name of Farmer:	Nazeer Ahmed
Name of village:	Saraduk
Union council:	Washbood
Chairman WUA:	Nazeer Ahmed
District:	Panjgor
Tehsil	Panjgor
Coordinates	27.03079 64.276865
Source of irrigation:	Tube Well


Total length of watercourse:	609 Mtr
Estimated length of lining:	609 Mtr
Command area of watercourse:	30 Acre
No of beneficiaries:	2
Quality of Work	Good
Reduction in Water Logging and salinity	No salinity in water
Cropping intensity increased	Yes, approximately 10% Increased
Crops yield increased	• Yes
Equity in water distribution increased	• Yes
Reduction in water disputes/thefts	• There was no theft of water
Poverty reduction through generation of employment.	• The farmer gets good income due to better production
Cement industry, bricks Killen, Precast Structures Industry and other related industries' production is pick up.	• Industrialization did not increase significantly
Overall feedback of Farmer / Beneficiary	<ul style="list-style-type: none"> • Manpower usage decreases. • Time saving increased
General Observations	<ul style="list-style-type: none"> • Due to this scheme that farmer irrigated his land for rice crops and vegetable as well. • WUA was not activated



Visited WC Nazeer Ahmed Scheme

3. Field Visit Date: 02/12/22

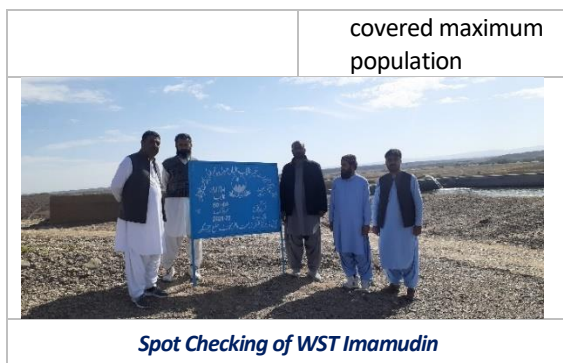
Scheme	Water Storage Tank
Farmer Name	Sarwer Hussain
Name of village:	Saraduk
Union council:	Washbood
Chairman WUA:	Sarwer Hussain
District:	Panjgor
Tehsil	Panjgor
Coordinates	27.0315966 64.28314
Source of irrigation:	Tube Well
Shape of water storage tank:	Squire
Size of water storage tank:	60x60 Sq. Ft.
Depth of WST:	4.5 Ft
Command area of water storage tank:	40 Acre
No of beneficiaries:	2
Construction Cost of water storage Tank:	Rs. 1,594,004/=
Quality of work	Satisfactory
Cropping intensity increased	• Yes
Crops yield increased	• Yes
Reduction in water disputes/thefts	• There was no theft of water
Poverty reduction through generation of employment.	• Yes
Cement industry, bricks Killen, Precast Structures Industry and other related industries' production is pick up.	• Industrialization didn't increase due to recent inflation.
Overall feedback of Farmer / Beneficiary	<ul style="list-style-type: none"> • It has become easier to manage the water which helps to avoid unnecessary water loss. • Due to such intervention, farmer brought some area lying waste under

	cultivation, resultantly his crops yield increased.
General Observations	<ul style="list-style-type: none"> Water tank helped us to store water for field and also cover most population Due to insufficient water this water course storage in order to irrigate our field/Crops Govt. should provide solar system on subside rate as heavy load shedding is immense problem of this district overall.
 <p><i>Spot Checking of WC Sarwer Hussain</i></p>	

4. Field Visit Date: 02/12/22

Scheme	Water Storage Tank
Farmer Name	Imamudin
Name of village:	Saraduk
Union council:	Washbood
Chairman WUA:	Imamudin
District:	Panjgor
Tehsil	Panjgor
Coordinates	27.0321214 64.2847583
Source of irrigation:	Tube Well
Shape of water storage tank:	Squire
Size of water storage tank:	60x60 Sq. Ft.
Depth of WST:	4.5 Ft

Command area of water storage tank:	40 Acre
No of beneficiaries:	2
Construction Cost of water storage Tank:	Rs.1,594,004/=
Quality of work	Satisfactory
Cropping intensity increased	• Yes
Crops yield increased	• Yes
Equity in water distribution increased	• Yes
Reduction in water disputes/thefts	• There was no theft of water
Poverty reduction through generation of employment.	• Yes
Cement industry, bricks Killen, Precast Structures Industry and other related industries' production is pick up.	• Industrialization didn't increase due to recent inflation.
Overall feedback of Farmer / Beneficiary	<ul style="list-style-type: none"> Farmers were quite happy and demanded more intervention to increase their cultivated area Water tank helped us to store water for field and also cover most
General Observations	<ul style="list-style-type: none"> Government must focus on such type of interventions, which will simultaneously prove fruitful & beneficial for farmer and general masses at large. Govt must ensure provision of subsidized fertilizers, seeds, seedlings, sprays and rest of the items related to agricultural Water tank helped to store water for field and also



Regular Monitoring / Spot Checking of District Killa Abdullah.

Monitored by Mr. Rizwan Ahmed, DTL and Mr. Naseeb Jan, FTI / M&E Expert

1. Field Visit Date – 18th December 2022

Scheme	Water Storage Tank
Farmer Name	Khudai Dad
Name of village:	Khusnob Jalalzai
Union council:	Saddar
Chairman WUA:	Khudai Dad
District:	Killa Saifuulah
Tehsil	Killa Saifuulah
Coordinates	N 30.782779 E 68.398299
Source of irrigation:	Tube Well
Shape of water storage tank:	Square
Size of water storage tank:	50x50 ft.
Depth of WST:	4.75 ft.
Command area of water storage tank:	30 Acres
No of beneficiaries:	5
Quality of work	Satisfactory
Cropping intensity increased	To some extent
Crops yield increased	20%
Poverty reduction through generation of employment.	To Some Extent
Overall feedback of Farmer / Beneficiary	<ul style="list-style-type: none"> Due to such intervention, farmer brought some area

	<p>lying waste under cultivation, resultantly his crops yield increased.</p> <ul style="list-style-type: none"> Due to this intervention, the farmer had some land prepared near the WST and had planted wheat on this land. Farmer was optimistic about more such schemes in the area for boosting up agricultural activities.
General Observations	<ul style="list-style-type: none"> Government must focus on such type of interventions, which will simultaneously prove fruitful & beneficial for Government, farmer and general masses at large. Govt must ensure provision of subsidized fertilizers, seeds, seedlings, sprays and rest of the items related to agricultural activities to the farmers. Government ought to take concrete steps in bringing up water table by making delay action dams, mini dams and other such techniques. Multifaced policies and strategies to counter global warming challenges is need of the hour. Heavy load shedding causing miseries for farmers



2. Field Visit Date – 18th December 2022

Scheme	Water Storage Tank
Farmer Name	Mujeeb Ullah
Name of village:	Ubaid Ullah
Union council:	Saddar
Chairman WUA:	Mujeeb Ullah
District:	Killa Saifullah
Tehsil	Killa Saifullah
Source of irrigation:	Tube Well
Shape of water storage tank:	Square
Size of water storage tank:	60x60 ft.
Depth of WST:	4.75 ft.
Command area of water storage tank:	20 Acres
No of beneficiaries:	5
Quality of work	Satisfactory
Cropping intensity increased	Yes
Crops yield increased	20%
Poverty reduction through generation of employment.	To Some Extent
Overall feedback of Farmer / Beneficiary	<ul style="list-style-type: none"> Due to such intervention, farmer brought some of his area lying barren under cultivation. Farmer was quite happy and

	demanding more intervention.
General Observations	<ul style="list-style-type: none"> Govt must ensure provision of subsidized seeds, seedlings, sprays and other agricultural items to farmers. Govt must take into account the construction of small, mini, and delay action damages in the area in bringing up water table for agricultural activities. Government must ensure provision of subsidized seeds, sprays etc. Heavy load shedding causing issues for them in irrigating their farms, resultantly it affects their time as well as machinery being used for uplifting water during irrigating their farms. Such type of interventions motivated farmers to prepare more and more their barren and waste lands under cultivation. Farmers need to be sensitized and aware about modern techniques regarding farming. Farmer was optimistic about boosting up agricultural activities.



View of meeting with Farmer and view of WST

3. Field Visit Date – 18th December 2022

Scheme	Water Storage Tank
Farmer Name	Wazir Khan
Name of village:	Khusnob Jalazai
Union council:	Saddar
Chairman WUA:	Wazir Khan
District:	Killa Saifullah
Tehsil	Killa Saifullah
Coordinates	N 30.773802, E 68.511552
Source of irrigation:	Tube Well
Shape of water storage tank:	Square
Size of water storage tank:	50x50 ft.
Depth of WST:	4.75 ft.
Command area of water storage tank:	30 Acres
No of beneficiaries:	6
Quality of work	Satisfactory
Cropping intensity increased	To Some Extent
Crops yield increased	25%
Poverty reduction through generation of employment.	To Some Extent
Overall feedback of Farmer / Beneficiary	<ul style="list-style-type: none"> Due to such intervention cropping and yield increased

General Observations

- Due to this intervention, farmer brought some area lying waste since long.
- Water increased by virtue of such scheme and came into a position to crop more and more crops.
- The NPC, PFMU, NPIWC-II gave valuable suggestions to farmer that how he can use the solar plates for long period.
- Due to this intervention, the farmer had some land prepared near the WST and had planted wheat on this land.
- Govt must ensure provision of subsidized seeds, seedlings, sprays to farmers.
- Govt must take concrete steps in bringing up water table by making mini dames and it must focus and make ground related policies strategies to counter global warming challenges
- Farmer was optimistic about more such schemes in the area for boosting up agricultural activities.



View of meeting with Farmer and view of WST

4. Field Visit Date – 18th December 2022

Scheme:	Watercourse
Name of Farmer:	Bismillah
Name of village:	Killi M. Karim Bindat Mirzai
Union council:	Bindat Mirzai
Chairman WUA:	Bismillah
District:	Killa Saifullah
Tehsil	Killa Saifullah
Coordinates	N 30.729111, E 68.281865
Source of irrigation:	Tube Well
Total length of watercourse:	5500
Estimated length of lining:	2000
Command area of watercourse:	100 Acres
No of beneficiaries:	8
Quality of Work	Satisfactory
Cropping intensity increased	To Some Extent
Crops yield increased	To Some Extent
Overall feedback of Farmer / Beneficiary	<ul style="list-style-type: none"> As per farmer per tree yield increased by a significant amount and the farmer was planning to plant more fruit trees on his land but heavy loads shedding creating

	problems for farmer.
General Observations	<ul style="list-style-type: none"> The NPC, FPMU, NPIWC-II pointed out some deficiencies in watercourse lining. The water available for this vast land was not enough due to heavy load shedding in the area. So, farmer was facing issues in irrigating his farm properly. Heavy prices of farm related items were become unbearable for them. Government must ensure seeds, sprays etc. on subsidized rates. Government should arrange awareness sessions to farmers regarding modern technics of farming. Heavy prices of farming items in market were unbearable. Farmers need to be equipped with modern way and techniques of farming in terms of boosting up crop and yields activities.



View of WC and NPC visiting WC

Regular Monitoring / Spot Checking of District Killa Abdullah.

Monitored by Mr. Rizwan Ahmed, DTL and Mr. Basit Khan, M&E Officer.

1. Field Visit Date: 20-12-2022

Scheme:	Watercourse
Name of Farmer:	Zafarullah
Name of village:	Killi Popalzi
Union council:	Peralizi
Chairman WUA:	Zafarullah
District:	Killa Abdullah
Tehsil	Killa Abdullah
Coordinates	N 664347 E 664347
Source of irrigation:	Tube Well
Total length of watercourse:	2000
Estimated length of lining:	2000
Command area of watercourse:	16
No of beneficiaries:	1
Quality of Work	Satisfactory
Reduction in Water Logging and salinity	No water logging and salinity in this area
Cropping intensity increased	Yes
Crops yield increased	Yes
Overall feedback of Farmer / Beneficiary	<ul style="list-style-type: none"> Farmer was happy with this intervention and demoing one WST too



The NPC, FPMU, NPIWC-II checking the WC.
ME&IEC taking information from Farmer.

2. Field Visit Date: 20-12-2022

Scheme	Water Storage Tank
Farmer Name	Faizulhak
Name of village:	Killi Meizi
Union council:	Meizi
Chairman WUA:	Faizulhak
District:	Killa Abdullah
Tehsil	Killa Abdullah
Coordinates	N: 304155 E: 664220
Source of irrigation:	Tube well
Shape of water storage tank:	Square
Size of water storage tank:	60x60 ft
Depth of WST:	4.5 ft
Command area of water storage tank:	8 acres
No of beneficiaries:	1
Quality of work	Back filling was not done properly
Overall feedback of Farmer / Beneficiary	Farmer was not available
General Observations	<ul style="list-style-type: none"> The farmer / beneficiary must take onboard so

	<p>that ownership of scheme ensured.</p> <ul style="list-style-type: none"> The NPC, FPMU, NPIWC-II pointed out some deficiencies and given necessary directions on spot.
	
	
<p><i>The NPC, FPMU, NPIWC-II checking the WST and the view of WST.</i></p>	

3. Field Visit Date: 20-12-2022

Scheme:	Watercourse
Name of Farmer:	Shair Muhammad
Name of village:	Abdullah Khan
Union council:	Abdullah Khan
Chairman WUA:	Shair Muhammad
District:	Killa Abdullah
Tehsil	Killa Abdullah
Coordinates	N 304355 E663943
Source of irrigation:	Tube well
Total length of watercourse:	2000
Estimated length of lining:	2000
Command area of watercourse:	7 Acres
No of beneficiaries:	1
Quality of Work	Satisfactory
Reduction in Water Logging and salinity	No water logging and salinity in this area
Cropping intensity increased	Yes
Crops yield increased	Yes


Equity in water distribution increased	No such issue in this area
Reduction in water disputes/thefts	No such issue in this area
Poverty reduction through generation of employment.	Yes
Cement industry, bricks Killen, Precast Structures Industry and other related industries' production is pick up.	To some extent
Overall feedback of Farmer / Beneficiary	<ul style="list-style-type: none"> Farmer was happy as he getting more benefits with Pakka WC Cultivated area increased significantly.
General Observations	<ul style="list-style-type: none"> Heavy prices of farm related items were become unbearable for them. Government must ensure seeds, sprays etc. on subsidized rates.





The NPC, FPMU, NPIWC-II inspecting the water flow.

4. Field Visit Date: 20-12-2022

Scheme	Water Storage Tank
Farmer Name	Asmatullah
Name of village:	Popalzi
Union council:	Kill Abdullah
Chairman WUA:	Asmatullah
District:	Killa Abdullah

Tehsil	Abdullah khan
Coordinates	N 303540 E664526
Source of irrigation:	Tube well
Shape of water storage tank:	Square
Size of water storage tank:	50x50 ft.
Depth of WST:	4.5 ft.
Command area of water storage tank:	10 acres
No of beneficiaries:	1
Quality of work	Satisfactory
Cropping intensity increased	• Yes
Crops yield increased	• Yes
Overall feedback of Farmer / Beneficiary	• Farmer was not available
	
<p><i>The NPC, FPMU, NPIWC-II inspecting the WST.</i></p>	

	<ul style="list-style-type: none"> No water losses due to this PVC pipe Cultivated area increased significantly.
General Observations	<ul style="list-style-type: none"> Government must ensure seeds, sprays etc. on subsidized rates.
	
	
<p><i>View of PVC Scheme and Solar Panels.</i></p>	

5. Field Visit Date: 20-12-2022

Scheme:	PVC
Name of Farmer:	Abdul Wali
Name of village:	Popalzai
Union council:	Alizai
Chairman WUA:	Abdul Wali
District:	Killa Abdullah
Tehsil	Killi Abdullah
Coordinates	N30369 E664531
Source of irrigation:	Tube well
Estimated length of PVC:	2000
Command area of watercourse:	18 Acres
No of beneficiaries:	1
Quality of Work	Satisfied
Overall feedback of Farmer / Beneficiary	<ul style="list-style-type: none"> Farmer was happy as he getting more benefits with this intervention.

ANNEX - H: COORDINATION MEETINGS OF ME&IE CONSULTANTS WITH THE CLIENT

i) **Meetings of Me&IE Zonal Team ICT with Client and Stakeholders**

Meeting with ADA Kallar Kahar:

Date	15-11-2022
Venue	Office of Assistant Director of Agriculture (OFWM) Kallar Kahar
Participants	
i.	Mr. Qaisar Mehmood Assistant Director OFWM Agri. Kallar Kahar.
ii.	Mr. Rasheed Ahmad Zehri Field team Incharge. Islamabad.
iii.	Ms. Syeda Sana Gull ME & IE Officer, Islamabad.
iv.	Ms. Hafiza Maryam Iqbal ME & IE Officers, ICT
v.	Ms. Abida Munir Social Gender & Specialist Punjab
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> ○ Briefing of ME & IE Consultants in Rawalpindi Division ○ Collection of basic data on WSTs and guideline for visiting sites of WSTs ○ The OFWM office guided well and accompanied ME&IE consultants' team in the sites during their visits 	
	
<p>Meeting with Assistant Director and field supervisor of OFWM Agri. Kallar Kahar, regarding the Impact Survey of WST</p>	

Meeting with OFWM officer Mirpur, AJK:

Date	26-12-2022
Venue	Office of Assistant Director of Agriculture (OFWM) Mirpur
Participants	
<ol style="list-style-type: none"> 1: Mr. Muhammad Ali Assistant water management officer. 2: Mr. Rasheed Zehri Field team Incharge Islamabad. 3: Ms. Hafiza Maryam Iqbal ME & IE Officers, Islamabad. 4: Ms. Abida Munir Social Gender and Specialist (Punjab) 	

Meeting Agenda/Points discussed:

- Briefing of ME & IE Consultants in AJK division
- Collection of basic data on WCs and guideline for visiting sites of WSTs
- The OFWM officer guided well and accompanied ME&IE consultants team in concerned sites during their visits



Meeting with Water management officer Mirpur, regarding the Impact Survey of WC

Key Challenges & mitigation measures adopted.

Some Limitations:

There were certain limitations noted while orientation of the staff members:

- Smooth running of the project's activities needs a continuous coordination with OFWM directorate. It would be good, that this coordination may come to a level that for any activity or support, they may extend their services on even telephone calls.
- Field activities were delayed due to financial constraints
- Political problems hindered the field activities in AJK, ICT zone.

Suggestions:

For the Smooth operations of field activities following are the main Suggestions:

- Equipment is needed for measuring flow of water and recording the data on the tool, like pygmy meter or better equipment which is more reliable and easy to handle efficiently and effectively.
- First aid box, basic necessities like, umbrella, water with cooler must be provided to the field teams in order to meet any emergency situation.
- Tablet must be provided to each member of field team, as well as must have their official identity card whenever the team visits the field or the office of OFWM.

ii) Meetings of Me&IE Zonal Team Punjab with Client and Stakeholders

Meeting With Director General South Punjab Multan

Date	December 21 ,2022
Venue	Director General OFWM Office Old Shujabad Road Agri Farm Multan.
Participants	
i. Engr. Zafar Ullah Sindhu, Director General Agriculture OFWM Multan ii. Mr. Muhammad Yousaf Bhatti, Deputy Team Leader Punjab ME&IE Consultants iii. Mr. Awais Jahangeer, Focal Person to DG office ME&IE Consultants iv. Muhammad Zubair, Field Team In Charge ME&IE Consultants South Zone Punjab	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> • Director General explained the ongoing activities in South zone. • DTL Punjab brief on ME&IE Consultants' activities particularly in South Punjab introduced his team. • Focal Person to DG Office discussed the method of data collection for PMIS Dashboard of completed intervention on division level. Director Headquarter assured his complete support and it decided ME&IE Consultants team will start data collection from Multan, DG Khan, Bahawalpur divisions. DG immediately directed his staff provide data on priority. 	



A view of meeting of ME&IE Consultants with D.G (Agri) (OFWM) Multan

Meeting with Director Agriculture OFWM Multan Division

Date	December 21 ,2022
Venue	Director Agriculture OFWM Office Old Shujabad Road Agri Farm Multan.
Participants	
i. Dr. Khalid Rafique, Director Agriculture (OFWM) Multan ii. Mr. Muhammad Yousaf Bhatti, Deputy Team Leader Punjab ME&IE Consultants iii. Mr. Awais Jahangeer, Focal Person to DG office ME&IE Consultants	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> • DTL Punjab brief about ME&IE consultants' activities • The data collection for PMIS Dashboard on division level and Divisional targets/achievements of department. Director committed to provide data shortly. • The progress/achievements of OFWM in the Multan division and for future planning of baseline 3 visits. The director further informed due to shortage of funds work has been stopped in the field under NPIWC-II. 	
View of meeting with Dr. Khalid Rafique, Director Agriculture (OFWM) Multan	

Meeting with Deputy Director OFWM District Lodhran

Date	December 22 ,2022
Venue	Deputy Director OFWM office District Lodhran
Participants	
i.	Mr. Muhammad Amjad Sargana Deputy Director Agriculture OFWM District Lodhran.
ii.	Mr. Muhammad Yousaf Bhatti, Deputy Team Leader Punjab ME&IE Consultants
iii.	Mr. Awais Jahangeer, Focal Person to DG office ME&IE Consultants
iv.	Muhammad Zubair, Field Team In Charge ME&IE Consultants South Zone Punjab

Meeting Agenda/Points discussed:

- The data collection for PMIS Dashboard on division level and Divisional targets/achievements of department.
- The progress/achievements of OFWM in the Tehsil and for future planning of baseline 3 visits. Due to shortage of funds work has been stopped in the field under NPIWC 2.



A view of meeting with Mr. Muhammad Amjad Sargana Deputy Director Agriculture OFWM District Lodhran.

Meeting with Assistant Director Kahrora Pakka

Date	December 22 ,2022
Venue	Pak Punjab Traders Mailsi Road Tehsil Kahrora Pakka District Lodhran
Participants	
i.	Majid Ali, Assistant Director Agri. OFWM, Kahrora Pakka
ii.	Mr. Muhammad Yousaf Bhatti, Deputy Team Leader Punjab ME&IE Consultants
iii.	Mr. Awais Jahangeer, Focal Person to DG office ME&IE Consultants
iv.	Muhammad Zubair, Field Team in Charge ME&IE Consultants South Zone Punjab

Meeting Agenda/Points discussed:

- The purpose of visit was to study the job – opportunities for the rural persons and income generation sources, like new vendors, transportation, in the operational area of the factory.



A view of meeting with Mr. Majid Ali, Assistant Director (Agri) OFWM Karor Pakka

Meeting With Deputy Director (Agri) OFWM Vehari

Date	December 23, 2022
Venue	Site visit Hanzla Traders & Laser Land Leveler 1 km ludan road Vehari
Participants	
i.	Mr. Sheikh Muhammad Tariq Mahmood Deputy Director Agriculture OFWM District Vehar
ii.	Mr. Dildar Hussain Asstt.Dir. Agri/Assistant Agronomist. OFWM, Vehari
iii.	Mr. Muhammad Yousaf Bhatti, Deputy Team Leader Punjab ME&IE Consultants
iv.	Mr. Awais Jahangeer, Focal Person to DG office ME&IE Consultants
v.	Muhammad Zubair, Field Team in Charge ME&IE Consultants South Zone Punjab

Meeting Agenda/Points discussed:

- The main objective of the visit was to review the possibilities of new job for the local persons, and income generation opportunities for the service providers and benefits to the farmers/users.



A view of meeting with Mr. Muhammad Tariq Mahmood Deputy Director Agriculture OFWM District Vehari

Meeting Held with Director General Agri (OFWM)

Date	November 02, 2022
Venue	Director General OFWM Office Davis Road, Lahore
Participants	
<ul style="list-style-type: none"> Malik Muhammad Akram Director General Agriculture OFWM Mr. Muhammad Yousaf Bhatti Deputy Team Leader Punjab ME&IE Consultants Dr. Abdul Quddus Agricultural Economist ME&IE Consultants Mr. Awais Jahangeer Focal Person to DG office ME&IE Consultants 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> DGA OFWM emphasized the role & importance of ME&IE Consultants in the project and asked for the strong coordination among allied department & ME&IE Consultants. DGA OFWM asked for efficient monitoring of scheme under construction in the best interest of the project. DTL Punjab ME&IE Consultants proposed the study on backward linkages in the project to show the employment generation & support to industrial resources DGA OFWM agreed on this matter and allowed to visits segments yards and manufacture/suppliers laser land leveler units. Focal Person to DG Office ME&IE Consultants discussed the mechanism of Data provision of completed schemes for PMIS Dashboard, Data Integration on dashboard and the way forward for real time monitoring & data provision from the field 	

for dashboard. DGA OFWM ensured the completed facilitation by the allied department on the matter.

- Forum unanimously decided to have fortnightly meetings under the chairmanship of DGA OFWM to review the progress & way forward for better coordination and execution work plan to meet the objectives of project. Need basis meetings can be conducted also if needed.



Meeting held with DGA (OFWM) Malik Muhammad Akram ME&IE consultants sharing the previous performance & way forward in Punjab.

Meeting Held with Director (H.Q) Directorate General (Agri) OFWM

Date	November 17, 2022
Venue	Director (H.Q) Agri OFWM Office Davis Road, Lahore
Participants	
<ul style="list-style-type: none"> Hafiz Qaisar Yasin Director Headquarter OFWM Mr. Tahir Mehmood Deputy Director Headquarter Mr. Muhammad Yousaf Bhatti Deputy Team Leader Punjab ME&IE Consultants Mr. Awais Jahangeer Focal Person to DG office ME&IE Consultants 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> DTL Punjab asked for the district wise targets of OFWM for the year 2022-23 to start the baseline survey phase-3. Director Headquarter responded on the matter that targets couldn't be finalized yet due to budget constraints. These will be shared as are finalized. DTL Punjab discussed the contents of tentative Midline Report of Project progress. The Director (H.Q) ensured to provide the relevant data in this regard. 	

- Focal Person to DG Office discussed the method of data collection for PMIS Dashboard of completed intervention at divisional level. Director Headquarter assured his complete support and its decided ME&IE Consultants team will start data collection from Lahore division.



A view of meeting of ME&IE Consultants with Director (H.Q) D.G Directorate (OFWM) Lahore.

Meeting Held with Deputy Director (Agri) OFWM Faisalabad

Date	November 24 ,2022
Venue	Deputy Director (Agri) OFWM Faisalabad
Participants	
<ul style="list-style-type: none"> Muhammad Asif, Deputy Director Agriculture (OFWM) Faisalabad Ch. Muhammad Asif Rafique and Assistant Director Agriculture (OFWM) Faisalabad Mr. Awais Jahangeer Field Team In Charge ME&IE Consultants Punjab zonal office Lahore 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> Basic Data collection for PMIS Dashboard The progress/achievements of OFWM in the Tehsil and district for future planning of baseline 3 visits. It was reported that due to shortage of funds work has been stopped in the field under this project. 	



Muhammad Asif, Deputy Director Agriculture (OFWM) Faisalabad discusses on various issues

Meeting Held with Assistants Director (Agri) OFWM, Tandlianwala

Date	November 25 ,2022
Venue	Assistant Director (Agri) OFWM Tandlianwala
Participants	
<ul style="list-style-type: none"> Mr. Aamir Mehmood - Assistant Director Agriculture OFWM Tehsil Tandlianwala District Faisalabad. Mr. Awais Jahangeer Field Team in Charge ME&IE Consultants Punjab zonal office Lahore 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> The data collection for PMIS Dashboard. The progress/achievements of OFWM in the Tehsil and for future planning of baseline 3 visits. Due to shortage of funds work has been stopped in the field under NPIWC 2. 	



Meeting held with Mr Aamir Mehmood - Assistant Director Agriculture OFWM Tehsil Tandlianwala District Faisalabad.

Meeting Held with Director (Agri) OFWM Lahore Division

Date	November 27 ,2022
Venue	Director (Agri) OFWM Lahore Division
Participants	
<ul style="list-style-type: none"> Dr. Muhammad Maqsood Director (Agri) OFWM Lahore Muhammad Yousaf Bhatti Deputy Team Leader Punjab ME&IE Consultants Mr. Awais Jahangeer Field Team in Charge ME&IE Consultants Punjab zonal office Lahore M. Rizwan Suleman Field Team in Charge II ME&IE Consultants Punjab zonal office Lahore 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> Procedure for PMIS Dashboard. He assured his complete cooperation in this matter with consultants Punjab Zonal Office Lahore 	

- It Was decided to provide the data either in Director (Agri) Lahore officers or ME&IE Consultants, Punjab zonal office Lahore.
- The Data already discuss with consultants, will be submitted to Director (Agri) for Further validation at OFWM end.



Meeting held at Director (Agri). OFWM, Lahore

Meeting held in D.G Directorate (Head Quarter)

Date	October 4 ,2022
Venue	Director General OFWM Office Davis Road, Lahore
Participants:	
i. Mr. Hafiz Qaiser Yasin Director, Headquarters, OFWM	
ii. Mr. Tahir Mehmood Deputy Director Headquarter OFWM	
iii. Mr. Muhammad Rafi System Analyst OFWM	
iv. Mr. M. Yousaf Bhatti Deputy Team Leader Punjab ME&IE Consultants	
Mr. Awais Jahangeer Focal Person to DG office ME&IE Consultants	
Meeting Agenda/Points discussed:	
1. Implementation of Dashboard and various Constraints were Discussed	
2. It was decided to propose some way forward for Provision of Data of completed schemes in Punjab for PMIS Dashboard	
3. Targets of OFWM for each intervention during 2022-23 were discussed and OFWM will provide with in a week to ME&IE Consultants	
4. ME & IE Consultants proposed the meeting under the chairmanship of DGA (OFWM) to address all the matters, particularly data collection from the field on ongoing activities.	



ME&IE Team at D.G (Agri) OFWM Directorate General (Headquarter)

Meeting held in D.G Directorate (Headquarter)

Date	October 5 ,2022
Venue	Director General OFWM Office Davis Road, Lahore
Participants:	
Mr. Hafiz Qaiser Yasin Director Headquarter Lahore Director General OFWM	
Mr. Tahir Mehmood Deputy Director Headquarter Lahore Director General OFWM	
Mr. Muhammad Rafi System Analyst OFWM	
Mr. M. Yousaf Bhatti Deputy Team Leader Punjab ME&IE Consultants	
Mr. Rizwan Saleem ICT Specialist ME&IE Consultants	
Mr. Awais Jahangeer Focal Person to DG office ME&IE Consultants	
Mr. Bilal Sohail Field Team Engineer ME&IE Consultants	
Discussions/Decisions	
Presentation on PMIS Dashboard given by ICT Specialist Mr. Razwan Saleem the OFWM Officers asked about region access This was agreed by ME&IE consultants to provide two logins within next few days.	
Director Headquarter responded to a question of ICT Specialist that provision of data is the prime responsibility of project consultants as decided by D.G OFWM in previous meetings.	
It was proposed that ME&IE consultants will provide the teams voluntarily to enter the data if allied departments provide all intervention files at one place may be at Divisional Level.	



Meeting with Director General OFWM (Headquarter)

Visit of Dignity Mr. Muhammad Asif Kakar National Project Coordinator (FPMU) Islamabad

NPC Islamabad Mr. Muhammad Asif Kakar along with NPC Dr. Saif ul Islam visited Director General (Argi) OFWM Punjab, Lahore on October 18, 2022 Following activities were executed during this visit whereas ME&IE Consultants were also participants.

- Site visit of a regular water course
- Site visit of a Water Storage Tank
- Handing over of Laser Land Leveler to a service provider
- Visit to training center of OFWM
- Visit to Pre cast parabolic yard
- Meeting in DGA OFWM office

Date	October 18 ,2022
Venue	Director General OFWM Office Davis Road, Lahore
Participants	
Mr. Muhammad Asif Kakar	National Project Coordinator (FPMU) Islamabad
Dr. Saif ul Islam	Deputy National Project Coordinator (FPMU) Islamabad
Malik Muhammad Akram	Director General (Argi) OFWM Punjab Lahore
Mr. Hafiz Qaiser Yasin	Director Headquarter OFWM Lahore
Mr. Tahir Mehmood	Deputy Director Headquarter OFWM Lahore
Dr. Muhammad Maqsood	Director Lahore Division OFWM
Dr. Ali Raza	Team Leader NWM Consultant
Tariq Khan	Deputy Team Leader NWM Consultant
Mr. M. Yousaf Bhatti	Deputy Team Leader Punjab ME&IE Consultants
Dr. Abdul Quddus	Agricultural Economist ME&IE Consultants
Mr. Awais Jahangeer	Focal Person to DG office ME&IE Consultants

Meeting Agenda/Points discussed:


Director General Briefed on activities of the directorate with special reference to the NPIWC – II which were appreciated by NPC. ME&IE Consultants were directed to report and coordinate with the D.G office. All the stakeholders were supposed to provide necessary data to each other for the purpose of smooth operation of the project



Meeting with DG Agriculture (OFWM) office with NPC

iii) Meetings of Me&IE Zonal Team KP with Client and Stakeholders

Date	December 28, 2022
Venue	Office of Focal Person (OFWM) KP
Participants	
i.	Mr. Muhammad Hayat Khan (OFWM) KP focal person
ii.	Mr. Bakht Ali, Deputy Director Peshawar OFWM.
iii.	Mr. Fawad Ahmad, ICT Manager KP
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> • Missing data in the schemes and the difference in the numbers of completed schemes shared by the OFWM. • Launching of Dashboard in the presence of Secretary agricultural. 	
Outcome of the meeting:	
Focal person told that he will discuss all the above points with DG OFWM KP and will let ME&IE consultants about all the progress being made.	
Meeting with Mr. Muhammad Hayat Khan (OFWM) Focal Person	

Date	December 30, 2022
Venue	Peshawar OFWM office
Participants	
i. Mr Azmat Mr Shoukat ii. Mumtaz ullah, FTI and iii. Mehmood, FTI	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> Discussion about the currently ongoing schemes under NPIWC-II project 	
Outcome of the meeting:	
<p>Mr. Azmat informed that there is no ongoing scheme since the last 4-5 months. He further told that due to non-availability of fund no scheme is expected in near future.</p>	
	
Meeting with Mr. Hafeez Khan (OFWM) DD Swabi	

Date	January 2, 2023
Venue	Swabi OFWM office
Participants	
i. Mr Hafeez DD OFWM Swabi ii. Mir Aslam Sub Engineer iii. Mr Munir WMO iv. Mumtaz ullah, FTI and v. Mehmood, FTI	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> Discussion about the currently ongoing schemes under NPIWC-II project and sharing of TS data 	
Outcome of the meeting:	
<p>The DD told our team that there is no ongoing scheme at the moment. Two WSTs Ali Zaib WST and Tufail WST completed in Nov 2022. These are the only completed schemes which are completed recently. The DD also told us that the department face financial difficulties and they are not in a position to pay the liabilities for the completed schemes.</p> <p>The DD inform us that the engineers and WMOs are busy with the world Bank schemes. Explaining the department financial position, the DD told us that they are not able to pay there petrol bill or to buy stationary.</p>	

The DD said that he thinks that the NPIWC-II project may close soon.



Meeting with Mr. Hafeez Khan (OFWM) DD Swabi

iv) Meetings of Me&IE Zonal Team Balochistan with Client and Stakeholders

During this quarter different meetings were held by the ME&IEC, Balochistan with client and other stakeholders. The detail of meetings are given below:

The detail of meetings is given below:

Date	03 Oct. 2022
Venue	Office of the DG, OFWM, Balochistan
Participants	
I. Mr. Abdul Wali, Deputy Director, Technical, OFWM, Balochistan, Quetta. II. Mr. Rizwan Ahmed, DTL, ME&IE Consultants, NPIWC-II, Balochistan.	
Meeting Agenda/Points discussed:	
I. A meeting was held on point agenda with DD, Technical regarding data collection of missing data of F.Y. 2019-20, 2020-21 and 2021-22 for Dashboard, Balochistan. II. The works of F.Y. 2022-23 were also discussed.	

Date	03 Oct. 2022
Venue	Office of the DTL, NWMC, Arbarb Karam Khan Road, Quetta.
Participants	
I. Mr. Khalid Mehmood, DTL, NWMC, NPIWC-II, Balochistan. II. Mr. Rizwan Ahmed, DTL, ME&IE Consultants, NPIWC-II, Balochistan.	
Meeting Agenda/Points discussed:	
I. A meeting was held with DTL, NWMC to discuss the project interventions. II. The DTL, ME&IE Consultants requested to DTL, NWMC to provide updated physical progress of all interventions for Dashboard, Balochistan.	

Date	04 Oct. 2022
Venue	Office of the DG, OFWM, Balochistan
Participants	
I.	Mr. Behram Malghani, Agriculture Officer, OFWM, Balochistan, Quetta.
II.	Mr. Rizwan Ahmed, DTL, ME&IE Consultants, NPIWC-II, Balochistan.
Meeting Agenda/Points discussed:	
I.	A meeting was held with Agriculture Officer, regarding data collection of missing data of F.Y. 2019-20, 2020-21 and 2021-22 for Dashboard, Balochistan.
II.	The Agriculture Officer shared some missing data of F.Y. 2019-20.
III.	The Agriculture rest assure to DTL, ME&IE Consultants to provide all desired data with coordination of concerned DDs ASAP.

Participants	
I.	Mr. Khalid Mehmood, DTL, NWMC, NPIWC-II, Balochistan.
II.	Mr. Rizwan Ahmed, DTL, ME&IE Consultants, NPIWC-II, Balochistan.
Meeting Agenda/Points discussed:	
I.	The DTL, ME&IE Consultants welcomed to DTL, NWMC in his new office and discussed different project related issues.
II.	The DTL, ME&IE Consultants shared updated status of data received for Dashboard, Balochistan. The DTL, ME&IE Consultants also highlight the importance / effectiveness of Dashboard which will be beneficials for all stockholders to check any site of NPIWC-II anywhere or any time after implementation of Dashboard, Balochistan.

Date	5 th October, 2022
Venue	Office of the DG OFWM, Balochistan
Participants	
I.	Mr. Abdul Wahab, DG OFWM, Balochistan
II.	Mr. Manzoor Ahmed Kasi, FTI/M&EE/Focal Person
III.	Mr. Hamza H. Qureshi, M&EO
Meeting Agenda/Points discussed:	
I.	Discussed about the Data required for Dashboard.
II.	Directions to DDA Headquarter about the Acquisition of Data.



Meeting with Mr. Abdul Wahab, Director General, OFWM, Balochistan in his good office

Date	10 th October, 2022
Venue	Office of the DDA Technical, Balochistan
Participants	
I.	Mr. Behram Khan, DDA Technical
II.	Mr. Manzoor Ahmed Kasi, FTI/M&EE/Focal Person
III.	Mr. Hamza H. Qureshi, M&EO
Meeting Agenda/Points discussed:	
I.	Taking District wise Beneficiaries list for F.Y 2021-2022



Date	13 th October, 2022
Venue	Office of the DG OFWM, Balochistan
Participants	
I.	Mr. Aminullah Bugti, DDA OFWM, Dera Bugti
II.	Mr. Gohar Magsi, DDA OFWM, Jhal Magsi
III.	Mr. Manzoor Ahmed Kasi, FTI/M&EE/Focal Person

Date	08 Oct. 2022
Venue	Office of the DTL, ME&IE Consultants, Arbarb Karam Khan Road, Quetta.

IV. Mr. Hamza H. Qureshi, M&EO

Meeting Agenda/Points discussed:

- Discussion about the Beneficiaries lists with respect to the dashboard of F.Y 2020-2021 and 2021-2022.



Meeting with DDs, OFWM.

Date 12th October 2022

Venue Zoom Meeting

Participants

- I. Ch. Saifullah Ejaz, Authorized Representative of JV of G3 Consultants
- II. Hafiz Abdul Rauf, PBOM, ME&IE Consultants.
- III. Dr. Usman Mustafa, Team Leader
- IV. Dr. M. Abdul Quddus Malik Agri. Economist
- V. Dr. Ikram Saeed, Proposed new Deputy Team Leader ICT Zone
- VI. Mr. M. Yousaf Bhatti, Deputy Team Leader Punjab Zone
- VII. Dr. Humayoun Khan, Deputy Team Leader Khyber Pakhtunkhwa Zone
- VIII. Mr. Rizwan Ahmed, Deputy Team Leader Balochistan Zone
- IX. Mr. Rizwan Saleem, IT Specialist, ME&IE Consultants.
- X. Madam Muniza Tarar, Social & Gender Specialist
- XI. Shumail Mahmood, ICT Expert

Meeting Agenda/Points discussed:

- Meeting started with recitation of The Holy Qur'an.
- Opening remarks by Ch. Saifullah Ejaz, Authorized Representative, JV / Director G3EC.
- The timeline regarding submission of Baseline Survey Phase-II were shared

by Ch. Saifullah Ejaz with all participants.

- The duties assigned to all concerned for timely completion the task as per commitment with Client.
- All core team members assured to management regarding timely completion the task as per desired with full commitment.

Date 8th Nov. 2022

Venue Office of the DDA, OFWM, Pishin

Participants



- I. Mr. Faiz Ullah Shah, DDA OFWM
- II. Mr. Naeem Tareen, WMO
- III. Mr. Imran Agha, WMO
- IV. Mr. Manzoor Ahmad Kasi, FTI, M&EC
- V. Mr. Qaisar Khan, M&E Officer, M&EC
- VI. Mr. Basit Ahmad, M&E Officer, M&EC
- VII. Mr. Muhammad Umair, M&E Officer, ME&EC



Meeting Agenda/Points discussed:

- I. Discussed field activities/Impact Assessment Survey.
- II. Discussed the beneficiaries' list of FY. 2022-23
- III. The DD talked about the losses faced due to heavy flood in last quarter



View of meeting's participants

Date	11 th November, 2022
Venue	DG Office, OFWM, Rani Bagh, Quetta.
Participants	
I.	Mr. Abdul Wahab, DG, OFWM, Agriculture Department, GoB, Quetta.
II.	Mr. Saifullah Ejaz Ch, Authorised Representative of JVs/Director G3EC
III.	Mr. Rizwan Ahmed, Deputy Team Leader, ME&IE Consultants, Balochistan
IV.	Mr. Behram Mulghani, Agriculture Officer, OFWM, Quetta
V.	Mr. Abdul Wali, DD, QuettaMr. Manzoor Kasi, Focal Person / FTI, M&EC, Balochistan.
Meeting Agenda/Points discussed:	
I.	The DG, welcomed to Authorized Representative of GV / Director, G3EC.
II.	The DTL, Balochistan shared the updated progress of Balochistan Zone with DG, OFWM.
III.	The backlogs regarding data collection for Dashboard, Balochistan shared by Authorized Representative of JVs / Director, G3EC in detail.
IV.	The Authorized Representative of JVs / Director, G3EC gave a presentation to DG, OFWM and all Directors, OFWM on Dashboard.
V.	The DG, OFWM ensured to M&E Consultants on their best cooperation at all times especially data providing for Dashboard, Balochistan.
	
	
<p>View of meeting with DG, OFWM, Balochistan and the Authorized Representative of JVs / Director, G3EC giving a presentation to DG, OFWM and other staff</p>	

Date	11 th November, 2022
Venue	Office of the ME&IE Consultants, Arbab Karam Khan Road, Quetta.
Participants	
I.	Mr. Asif Kakar, NPC, FPMU, NPIWC-II
II.	Mr. Saifullah Ejaz Ch, Authorised Representative of JVs/Director G3EC
III.	Mr. Rizwan Ahmed, Deputy Team Leader, ME&IE Consultants, Balochistan
IV.	Mr. Manzoor Kasi, Focal Person / FTI, M&EC, Balochistan.
V.	All Field and Support Staff of ME&IE Consultants, Balochistan
Meeting Agenda/Points discussed:	
I.	The DTL, Balochistan shared updated progress of Balochistan Zone with NPC, FPMU.
II.	The IT Team will visit Balochistan Zone and finalize Dashboard Data along with implementation of Dashboard.
III.	Salary structure should be the same across the board as per respective cadre.
IV.	Staff Salaries will be paid within one week.
V.	Tools, etc. will also be provided soon.
VI.	Mr. Saifullah Ejaz, Authorized Representative of JV of NPIWC-II will ensure his personal visits of Balochistan Zone once in a month by any means.
VII.	The meeting ended with vote of thanks from the NPC, PFMU.
	
	



View of meeting and group of photo with NPC, FPMU, NPIWC-II at Zonal Office, Quetta.

Date	23 rd and 24 th November, 2022
Venue	DG Office, OFWM, Balochistan, Rani Bagh, Sariab Road, Quetta.
Participants	
I.	Mr. Rizwan Ahmed, DTL, ME&IE Consultants, Balochistan.
II.	Mr. Behram Malgani, Agriculture Officer,
III.	Mr. Manzoor Kasi, Focal Persona / FTI, ME&IE Consultants.
IV.	Mr. Rizwan Saleem, IT Specialist, ME&IE Consultants.
V.	Mr. Shumail, IT In charge, M&E Consultants
Meeting Agenda/Points discussed:	
I.	The IT Specialist, ME&IEC shared the format regarding data collection
II.	The OFWM gave their feedback on data collection format
III.	After detailed discussion of two days, the Format got finalized.
IV.	The IT Specialist, ME&IEC give a presentation on new MTs
V.	The DTL, Balochistan briefed the forum about data collection on field and role and responsibilities.




View of meeting and presentation at DG, OFWM Office, Quetta.


Date	26 th November, 2022
Venue	ME&IEC Office, Marri Street, Arbab Karam Khan Road, Quetta.
Participants	
I.	Mr. Khalid Mehmood, DTL, NWMC, Balochistan
II.	Mr. Rizwan Ahmed, DTL, ME&IE Consultants, Balochistan.
III.	Mr. Manzoor Kasi, Focal Persona / FTI, ME&IE Consultants.
IV.	Mr. Rizwan Saleem, IT Specialist, ME&IE Consultants.
Meeting Agenda/Points discussed:	
I.	The updated progress of NPIWC-II and other issued were discussed.
II.	The DTL, Balochistan and IT Specialist of ME&IEC briefed to DTL, NWMC on Dashboard Balochistan.



View of meeting and presentation at DG, OFWM Office, Quetta.

Date	30-11-2022
Venue	Circuit House, District Turbat/Kech.
Participants	
I.	Mr. Asif Kakar, NPC, FPMU, NPIWC-II.
II.	Mr. Ali Raza, TL, NWMC.
III.	Mr. Mehboob, DD, OFWM, Kech
IV.	Mr. Khalid Mehmood, DTL, NWMC, Balochistan
V.	Mr. Rizwan Ahmed, DTL, ME&IE Consultants, Balochistan.
Meeting Agenda/Points discussed:	
I.	The updated progress and issues were discussed
II.	The NPC, FPMU, NPIWC-II asked DD, Kech to submit his issues / problems after consultation with his staff for further submission.
III.	The law-and-order situation of Kech districts was discussed.
IV.	The field visit plan was discussed.
	
<p>The worthy NPC, FPMU, NPIWC-II held a meeting with DD, OFWM, Kech District and Consultants at Circuit House, Kech.</p>	



ate	09-12-2022
Venue	Office of DG, OFWM, Sariab Road, Rani Bagh, Quetta.
Participants	
I.	Mr. Behram Mulghani, Agriculture Officer, OFWM / Focal Persona.
II.	Dr. Usman Mustafa, TL, ME&IE Consultants.
III.	Mr. Rizwan Ahmed, DTL, ME&IEC, Balochistan.
IV.	Mr. Shumail, IT Expert, ME&IEC.
Meeting Agenda/Points discussed:	
I.	The ME&IE Consultants thanked to Focal Persona of DG, OFWM on his support to make successful the training / workshop conducted on capacity building / data submission through Android based Data Application.
II.	The IT team shared the Android Data Application with Focal Person of DG, OFWM and briefed him about Dashboard implementation.
III.	The issues / problems regarding data collection were also discussed.
	
<p>View of meeting.</p>	

Date	02-12-2022
Venue	Rest House, District Panjgur.
Participants	
I.	Mr. Zaman, DD, OFWM, Panjgor
II.	Mr. Rizwan Ahmed, Deputy Team Leader, ME&IE Consultants, Balochistan
III.	Mr. Aminullah, Site Engineer, NWMC, District Panjgur.
IV.	Mr. Saleem Abro, M&E Officer, ME&IEC
Meeting Agenda/Points discussed:	
I.	The DTL, ME&IE Consultants shared the field plan with DD, OFWM, Panjgur
II.	The DD Panjgor shared updated data / beneficiary lists of previous financial years with ME&IEC.
III.	The DTL, ME&IE Consultants shared the issues regarding data collection and non-availability of record/data/files at sites.

Date	12-12-2022
Venue	DG Office, OFWM, Rani Bagh, Quetta.
Participants	
I.	Mr. Bashir Agha, Director, Water Management, Agriculture Department, Balochistan, Quetta.
II.	Mr. Meharullah, Director, Monitoring, OFWM, Balochistan.

III.	Deputy Directors, OFWM, (all districts of Balochistan)
IV.	Mr. Abdul Wali, DD, HQ, Quetta
V.	Mr. Behram Mulghani, Agriculture Officer, OFWM, Quetta
VI.	Mr. Yasir, Agriculture Officer, OFWM, Quetta
VII.	Mr. Khalid Mehmood, DTL, NWMC, Balochistan
VIII.	Mr. Rizwan Ahmed, Deputy Team Leader, ME&IE Consultants, Balochistan

Meeting Agenda/Points discussed:

- I. The Director, Water Management welcomed all the participants.
- II. All DDs shared the updated physical progress of their respective zones.
- III. The DTL, ME&IE Consultants highlight the issue of weak response of Field Staff, OFWM regarding data provision / validation on Android Data Application.
- IV. The OFWM authorities asked all the DDs to provide the missing data and validate the available data as soon as possible.



Progress Review Meeting held in good office of DG, OFWM, Sariab Road, Quetta

Date	21-12-2022
Venue	Office of DG, OFWM, Sariab Road, Rani Bagh, Quetta.

Participants

- I. Mr. Behram Mulghani, Agriculture Officer, OFWM, Balochistan, Quetta.
- II. Mr. Rizwan Ahmed, DTL, ME&IE Consultants, Balochistan.

Meeting Agenda/Points discussed:

- The ME&IE Consultants thanked to Focal Persona of DG, OFWM on his support to make successful the training / workshop conducted on capacity building / data submission through Android based Data Application.
- The DTL, ME&IE Consultants shared updated progress of data received at district level.



Meeting with Mr. Behram, Agriculture Officer, OFWM / Focal Person at DG, Office, Quetta.

Date	21-12-2022
Venue	Office of DD, OFWM, Jaffarabad.

Participants

- I. Mr. Tariq Baloch, FIT / M&E Expert, ME&IE Consultants.
- II. Field Staff, OFWM, Jaffarabad.

Meeting Agenda/Points discussed:

- A meeting was held of ME&IE Consultants with Field Staff, OFWM at DD Office, Jaffarabad regarding data entry / validation of data through Android Data Application.
- The Field Staff shared the issues and problems regarding data provision.



View of Meeting at DD, OFWM, Jaffarabad.

ANNEX - I: ICT ZONE TOTAL TARGETS AND DISTRICT-WISE ACHEIVEDD STATUS

Main Theme	Activity	Areas	Total Project Targets	Total Achieved by Last Month	This Month Targets	This Month achievements
Baseline 1&2 and Midline	Baseline 1&2, Watercourses	Islamabad	15	7	-	-
		Kashmir	35	25	-	-
	Baseline 1&2, WST	Islamabad	Nil	-	-	-
		Kashmir	13	5	-	-
		Rawalpindi	20	12		
	Baseline LLL	Kashmir	5	-	-	-
	Midline, Watercourses	Islamabad	15	4		
		Kashmir	4	2	2	2
	Midline, WST	Islamabad	-	-	-	-
		Kashmir	-	-		
		Rawalpindi	20	4		
	Midline LLL	Kashmir	5	-		
Monitoring activities	Water Users Association	Islamabad	30	11		
		Kashmir	57	32		
		Rawalpindi	40	16		
	Watercourse	Islamabad	15	7		
		Kashmir	35	25	2	2
	Water Storage Tank	Kashmir	13	5		
		Rawalpindi	20	12		
	Laser Land Leveling	Kashmir	5	-		
Coordination Meetings	Meeting with OFWM		Need Based	-	Need Based	1

ANNEX - J: METHODOLOGY OF MEASUREMENT OF WATER FLOW

PYGMY CURRENT METER:

Working principle:

- Current meter Measures Velocity (V)
- Direct / By counting revolutions per unit of time
- Area of Segments (A)
- $Q = A \times V$

SEGMENTAL AREA:

- Measure the top width of the water/channel
- Measure the bottom width of the channel
- Divide width in segments (each segment area = 10% of total area)
- Record the width of each segment
- Mark the distance from the initial point for each segment
- Take the average depth of water in each segment
- Measure velocities at 0.2 & 0.8 if depth >60 cm
- Measure velocities in the center of each segment
- Find average velocity by counting pings/table $V = 0.123 N + 0.007N =$ Revolutions/Second
- Calculate Q of each segment by $Q = A \times V$
- Add Q of all segments for total discharge

Specifications:

Model 1205

Flow Velocity – feet per second (meter per second)

- Minimum .25fps (.075mps)
- Maximum 3 fps (.914 mps)

Weight – Pounds (kilograms) .25 lb (.11kg)

Suspension Means - Wading Rod

Field Observations:

Following are the field observations of the measurement of Water Flow by using a pygmy current meter at Water Course No 45136 /L.

Sr. No	Design Discharge (Cusec)	Actual Discharge Measured (Cusec)
1	3	2.60
2	3	2.55

Average Discharge = 2.57 Cusses

Following were the Field teams members who participated in the measurement of water flow at water course no 45136/L

Name	Designation
Awais Jahangeer	Field Team In charge /ME&IE Expert
Muhammad Zubair	Field Team In charge /ME&IE Expert

ANNEX - K: AJK ZONE - SUMMARY OF WATERCOURSES DATA SUBMISSIONS

Watercourses Data Submissions - Summary								
Division	District	Completed	Work Order Cancelled	Under Progress				Overall
				1st Milestone	2nd Milestone	Work Order Issued	Work Order Pending	
Muzaffarabad	Muzaffarabad	56	5	8	7	18	13	107
	Jhelum	18	0	6	0	14	6	44
	Neelum	27	12	11	3	13	0	66
Muzaffarabad Total		101	17	25	10	45	19	217
Poonch	Poonch	31	10	7	1	2	1	52
	Bagh	24	14	1	0	1	4	44
	Haveli	6	9	0	0	3	10	28
	Sudhnoti	22	15	1	0	2	0	40
Poonch Total		83	48	9	1	8	15	164
Mirpur	Mirpur	66	1	0	0	7	28	102
	Bhimber	99	0	0	0	0	18	117
	Kotli	32	22	5	0	1	3	63
Mirpur Total		197	23	5	0	8	49	282
Overall		381	88	39	11	61	83	663

ANNEX - L: AJK ZONE - SUMMARY OF WST/WHs DATA SUBMISSIONS

AJK - WST/WHs DATA SUBMISSIONS SUMMARY						
Division	District	Completed	Work Order Cancelled	Under Progress		Overall
				Work Order Issued	Work Order Pending	
Muzaffarabad	Muzaffarabad	121	3	9	13	146
	Jhelum	11	0	13	3	27
Muzaffarabad Total		132	3	22	16	173
Poonch	Poonch	48	19	5	21	93
	Bagh	37	18	2	2	59
	Haveli	15	16	13	28	72
	Sudhnoti	12	2	21	10	45
Poonch Total		112	55	41	61	269
Mirpur	Mirpur	7	1	4	9	21
	Bhimber	11	0	0	20	31
	Kotli	27	12	1	3	43
Mirpur Total		45	13	5	32	95
Overall		289	71	68	109	537

ANNEX - M: KP ZONE - SUMMARY OF WATERCOURSE DATA SUBMISSION

Division	District	Completed	Work Order Cancelled	Under Progress				Overall
				1st Milestone	2nd Milestone	Work Order Issued	Work Order Pending	
Bajaur Agency	Bajaur	46	0	5	2	10	0	63
Bajaur Agency Total		46	0	5	2	10	0	63
Bannu	Bannu	93	0	0	14	0	0	107
Bannu	Lakki Marwat	106	0	2	0	0	0	108
Bannu Total		199	0	2	14	0	0	215
D.I. Khan	D.I. Khan	482	0	2	0	0	0	484
D.I. Khan	Tank	38	0	0	0	0	0	38
D.I. Khan Total		520	0	2	0	0	0	522
Hazara	Abbottabad	25	0	1	1	0	0	27
Hazara	Battagram	38	0	3	0	0	0	41
Hazara	Haripur	58	0	0	15	0	0	73
Hazara	Lower Kohistan	7	0	0	0	13	0	20
Hazara	Mansehra	89	0	0	32	1	0	122
Hazara	Torghar	23	0	0	1	1	0	25
Hazara	Upper Kohistan	9	0	0	0	0	0	9
Hazara	Kolai Pallas	2	0	0	0	0	0	2
Hazara Total		251	0	4	49	15	0	319
Khyber Agency	Khyber	19	0	0	0	5	1	25
Khyber Agency Total		19	0	0	0	5	1	25
Kohat	Hangu	42	0	0	0	0	0	42
Kohat	Karak	67	0	0	1	0	0	68
Kohat	Kohat	85	0	0	0	0	1	86
Kohat Total		194	0	0	1	0	1	196
Kurram Agency	Kurram	9	0	0	1	0	0	10
Kurram Agency Total		9	0	0	1	0	0	10
Malakand	Buner	94	0	0	0	0	0	94
Malakand	Chitral	88	0	1	1	0	0	90
Malakand	Lower Dir	68	0	5	12	15	1	101
Malakand	Malakand	76	0	0	1	7	1	85
Malakand	Shangla	39	0	0	0	0	0	39
Malakand	Swat	164	3	28	55	1	2	253
Malakand	Upper Dir	85	0	0	12	0	0	97
Malakand Total		614	3	34	81	23	4	759
Mardan	Mardan	124	0	0	0	2	0	126
Mardan	Swabi	81	0	0	0	2	1	84
Mardan Total		205	0	0	0	4	1	210
Mohmand Agency	Upper Mohmand	32	0	0	0	0	0	32
Mohmand Agency	Lower Mohmand	11	0	0	0	0	0	11
Mohmand Agency Total		43	0	0	0	0	0	43
Orakzai Agency	Orakzai	1	0	0	0	0	0	1
Orakzai Agency Total		1	0	0	0	0	0	1
Peshawar	Charsadda	126	1	0	0	13	0	140
Peshawar	Nowshera	76	0	0	0	13	4	93
Peshawar	Peshawar	64	0	0	3	4	3	74
Peshawar Total		266	1	0	3	30	7	307
S.W Agency	S.W Agency	27	0	0	0	1	0	28
S.W Agency Total		27	0	0	0	1	0	28
N.W Agency	N.W Agency	5	0	0	0	0	0	5
N.W Agency Total		5	0	0	0	0	0	5
Overall		2399	4	47	151	88	14	2703

ANNEX - N: KP ZONE - SUMMARY OF WST DATA SUBMISSION

Division	District	Completed	Under Progress				Overall
			1st Milestone	2nd Milestone	Work Order Issued	Work Order Pending	
Bajaur Agency	Bajaur	17	0	0	1	3	21
Bajaur Agency Total		17	0	0	1	3	21
Bannu	Bannu	11	0	1	0	1	13
Bannu	Lakki Marwat	34	0	0	0	0	34
Bannu Total		45	0	1	0	1	47
D.I. Khan	D.I. Khan	82	0	0	8	0	90
D.I. Khan	Tank	16	0	0	0	0	16
Dera Ismail Khan Total		98	0	0	8	0	106
Hazara	Abbottabad	18	0	0	0	0	18
Hazara	Battagram	25	0	0	4	0	29
Hazara	Haripur	40	0	0	0	0	40
Hazara	Kolai Pallas	2	0	0	2	0	4
Hazara	Lower Kohistan	0	0	0	0	1	1
Hazara	Mansehra	34	0	2	4	1	41
Hazara	Torghar	11	0	0	5	0	16
Hazara	Upper Kohistan	7	0	0	0	6	13
Hazara Total		137	0	2	15	8	162
Khyber Agency	Khyber	10	0	0	6	6	22
Khyber Agency Total		10	0	0	6	6	22
Kohat	Hangu	14	0	0	0	0	14
Kohat	Karak	60	0	0	0	0	60
Kohat	Kohat	4	0	0	0	0	4
Kohat Total		78	0	0	0	0	78
Kurram Agency	Kurram	2	0	0	0	0	2
Kurram Agency Total		2	0	0	0	0	2
Malakand	Buner	43	0	0	0	0	43
Malakand	Chitral	21	0	0	0	0	21
Malakand	Lower Dir	15	1	5	12	0	33
Malakand	Malakand	24	0	0	0	0	24
Malakand	Shangla	21	0	0	1	0	22
Malakand	Swat	99	3	7	31	25	165
Malakand	Upper Dir	35	1	0	1	1	38
Malakand Total		258	5	12	45	26	346
Mardan	Mardan	32	0	0	0	0	32
Mardan	Swabi	9	0	0	0	10	19
Mardan Total		41	0	0	0	10	51
Mohmand Agency	Mohmand	41	0	0	0	0	41
Mohmand Agency Total		41	0	0	0	0	41
Orakzai Agency	Orakzai	2	0	0	0	0	2
Orakzai Agency Total		2	0	0	0	0	2
Peshawar	Charsadda	13	0	0	1	0	14
Peshawar	Nowshera	56	0	0	0	0	56
Peshawar	Peshawar	25	0	2	12	13	52
Peshawar Total		94	0	2	13	13	122
S.W Agency	S.W Agency	30	0	0	0	0	30
S.W Agency Total		30	0	0	0	0	30
N.W Agency	N.W Agency	8	0	0	5	4	17
N.W Agency Total		8	0	0	5	4	17
Overall		861	5	17	93	71	1047

ANNEX - O: BALOCHISTAN ZONE - SUMMARY OF WATERCOURSE DATA SUBMISSION

Division	District	Completed	Under Progress				Overall
			1st Milestone	2nd Milestone	TS Issued	TS Pending	
Kalat	Awaran	160	0	0	1	2	163
Kalat	Kalat	159	0	0	0	1	160
Kalat	Khuzdar	162	0	0	0	0	162
Kalat	Lasbela	154	0	0	0	0	154
Kalat	Mastung	138	0	0	0	0	138
Kalat	Surab	0	0	0	0	42	42
Kalat Total		773	0	0	1	45	819
Loralai	Barkhan	64	0	0	0	0	64
Loralai	Duki	43	0	0	0	0	43
Loralai	Loralai	203	0	0	0	0	203
Loralai	Musakhail	187	0	0	0	0	187
Loralai Total		497	0	0	0	0	497
Makran	Gwadar	23	0	0	0	0	23
Makran	Kech	38	0	0	30	0	68
Makran	Panjgur	73	0	0	0	0	73
Makran Total		134	0	0	30	0	164
Nasirabad	Jaffarabad	109	1	0	30	1	141
Nasirabad	Jhal Magsi	27	0	0	0	0	27
Nasirabad	Kachi	0	0	0	17	85	102
Nasirabad	Nasirabad	67	0	0	0	68	135
Nasirabad	Sohbatpur	50	0	0	0	0	50
Nasirabad Total		253	1	0	47	154	455
Quetta	Killa Abdullah	110	0	0	0	0	110
Quetta	Pishin	134	0	0	0	6	140
Quetta	Quetta	58	0	0	0	0	58
Quetta Total		302	0	0	0	6	308
Rakhshan	Chaghi	82	0	0	0	0	82
Rakhshan	Kharan	51	0	0	0	0	51
Rakhshan	Nushki	67	0	1	4	3	75
Rakhshan	Washuk	20	0	0	0	0	20
Rakhshan Total		220	0	1	4	3	228
Sibi	Dera Bugti	44	0	0	0	0	44
Sibi	Harnai	42	0	0	0	0	42
Sibi	Kohlu	41	0	0	0	0	41
Sibi	Sibi	43	0	0	0	1	44
Sibi	Ziarat	73	0	0	0	0	73
Sibi Total		243	0	0	0	1	244
Zhob	Killa Saifullah	163	0	0	0	0	163
Zhob	Sherani	28	0	0	0	38	66
Zhob	Zhob	80	0	0	0	0	80
Zhob Total		271	0	0	0	38	309
Overall		2693	1	1	82	247	3024

ANNEX - P: BALOCHISTAN ZONE - SUMMARY OF WST DATA SUBMISSION

Division	District	Completed	Under Progress				Overall
			1st Milestone	2nd Milestone	TS Issued	TS Pending	
Kalat	Awaran	84	0	0	0	2	86
Kalat	Kalat	118	0	0	0	3	121
Kalat	Khuzdar	77	0	0	0	0	77
Kalat	Lasbela	105	0	0	0	45	150
Kalat	Mastung	106	0	0	0	0	106
Kalat	Surab	0	0	0	0	29	29
Kalat Total		490	0	0	0	79	569
Loralai	Barkhan	54	0	0	0	0	54
Loralai	Duki	29	0	0	0	0	29
Loralai	Loralai	54	0	0	0	0	54
Loralai	Musa Khail	10	0	0	0	0	10
Loralai Total		147	0	0	0	0	147
Makran	Gwadar	7	0	0	0	0	7
Makran	Kech	43	0	0	0	42	85
Makran	Panjgur	160	0	0	0	0	160
Makran Total		210	0	0	0	42	252
Nasirabad	Jaffarabad	9	0	0	8	0	17
Nasirabad	Jhal Magsi	30	0	0	0	0	30
Nasirabad	Kachi	0	0	0	14	68	82
Nasirabad	Nasirabad	8	0	0	0	0	8
Nasirabad	Sohbatpur	14	0	0	0	0	14
Nasirabad Total		61	0	0	22	68	151
Quetta	Killa Abdullah	56	0	0	0	0	56
Quetta	Pishin	58	0	0	0	61	119
Quetta	Quetta	44	0	0	0	0	44
Quetta Total		158	0	0	0	61	219
Rakhshan	Chaghi	56	0	0	0	0	56
Rakhshan	Kharan	28	0	0	0	1	29
Rakhshan	Nushki	62	0	0	0	0	62
Rakhshan	Washuk	13	0	0	0	0	13
Rakhshan Total		159	0	0	0	1	160
Sibi	Dera Bugti	39	0	0	0	0	39
Sibi	Harnai	18	0	0	0	0	18
Sibi	Kohlu	25	0	0	0	0	25
Sibi	Sibi	23	0	0	0	0	23
Sibi	Ziarat	21	0	0	0	0	21
Sibi Total		126	0	0	0	0	126
Zhob	Killa Saifullah	108	0	0	0	0	108
Zhob	Sherani	25	0	0	0	0	25
Zhob	Zhob	85	0	0	0	0	85
Zhob Total		218	0	0	0	0	218
Overall		1569	0	0	22	251	1842

ANNEX - Q: PUNJAB ZONE - SUMMARY OF WATERCOURSE DATA SUBMISSION

Division	District	Completed	Under Progress				Overall
			1st Milestone	2nd Milestone	Work Order Issued	Work Order Pending	
Bahawalpur	Bahawalnagar	112	0	0	0	0	112
Bahawalpur	Bahawalpur	77	0	0	0	0	77
Bahawalpur	Rahim Yar Khan	174	0	0	0	0	174
Bahawalpur Total		363	0	0	0	0	363
Dera Ghazi Khan	Dera Ghazi Khan	40	0	0	0	0	40
Dera Ghazi Khan	Layyah	68	0	0	0	0	68
Dera Ghazi Khan	Muzaffargarh	49	0	0	0	0	49
Dera Ghazi Khan	Rajanpur	57	0	0	0	0	57
Dera Ghazi Khan Total		214	0	0	0	0	214
Faisalabad	Chiniot	14	0	0	0	0	14
Faisalabad	Faisalabad	55	0	0	0	0	55
Faisalabad	Jhang	38	0	0	0	0	38
Faisalabad	Toba Tek Singh	48	0	0	0	0	48
Faisalabad Total		155	0	0	0	0	155
Gujranwala	Gujranwala	48	0	0	0	0	48
Gujranwala	Narowal	10	0	0	0	0	10
Gujranwala	Sialkot	35	0	0	0	0	35
Gujranwala Total		93	0	0	0	0	93
Gujrat	Gujrat	14	0	0	0	0	14
Gujrat	Hafizabad	40	0	0	0	0	40
Gujrat	Mandi Bahauddin	28	0	0	0	0	28
Gujrat Total		82	0	0	0	0	82
Lahore	Kasur	49	0	0	0	0	49
Lahore	Lahore	5	0	0	0	0	5
Lahore	Nankana Sahib	29	0	0	0	0	29
Lahore	Sheikhupura	46	0	0	0	0	46
Lahore Total		129	0	0	0	0	129
Multan	Khanewal	58	0	0	0	0	58
Multan	Lodhran	59	0	0	0	0	59
Multan	Multan	58	0	0	0	0	58
Multan	Vehari	67	0	0	0	0	67
Multan Total		242	0	0	0	0	242
Sahiwal	Okara	69	0	0	0	0	69
Sahiwal	Pakpattan	50	0	0	0	0	50
Sahiwal	Sahiwal	65	0	0	0	0	65
Sahiwal Total		184	0	0	0	0	184
Sargodha	Bhakkar	41	0	0	0	0	41
Sargodha	Khushab	36	0	0	0	0	36
Sargodha	Mianwali	20	0	0	0	0	20
Sargodha	Sargodha	61	0	0	0	0	61
Sargodha Total		158	0	0	0	0	158
Overall		1620	0	0	0	0	1620

ANNEX - R: FIELD DATA COLLECTION TRAINING WORKSHOP BALOCHISTAN ZONE

Two Days Training Workshop Field Data Collection Through Android Application

Organized by ME&IE Consultant

7th to 8th December 2022

Venue: Conference Hall - Agriculture Research Institute, Sariab Road, Quetta

Agenda

Training Objectives

This training workshop will enable participants to use the Android based data collection application for feeding data for MIS Dashboard.

Workshop Trainers

Name	Prefix	Role	Designation
Mr. Usman Mustafa	[UM]	Trainer	Team Leader
Mr. Rizwan Saleem	[RS]	Trainer	ICT Specialist
Mr. Shumail Mehmood	[SM]	Trainer	Data Analyst
Mr. Irfan Aziz	[IA]	Co-Trainer	Technical/Non-Technical

Wednesday, December 7 th , 2022			Day-1
Time		Topic	Presenter
10:00 AM	10:10 AM	Workshop Opening:	
		Recitation of Holy Quran	
10:10 AM	10:30 AM	Inaugural speech	DG Sb, DTL (ME&IEC & NWMC)
10:30 AM	10:50 AM	Introduction of facilitators and participants	
10:50 AM	11:10 AM	Introduction to digital data collection & GIS based Progress Monitoring Dashboard	SM
11:10 AM	12:10 PM	Discussion on approved WC forms	SM
12:10 PM	1:00 PM	Discussion on approved WST forms	IA
1:00 PM	2:00 PM	Lunch/Prayer Break	
2:00 PM	2:30 PM	Introduction to Android data collection application	SM
2:30 PM	3:30 PM	Demonstration of approved WC forms on Android	SM, IA

3:30 PM	4:30 PM	Demonstration of approved WST forms on Android	IA
4:30 PM	4:50 PM	General discussion (Q&A Session)	SM
4:50 PM	5:00 PM	Day End Closing Remarks	

Thursday, December 8 th , 2022			Day-2
Time	Topic	Presenter	
10:00 AM	11:00 AM	Rapid Revision Session of Android Application and Digital Forms	SM
11:00 AM	11:20 AM	Benefits of Digital Data Collection	DTL (ME&IEC & NWMC)
11:20 AM	1:00 PM	Hands-on training session	SM, IA
1:00 PM	2:00 PM	Lunch/Prayer Break	
2:00 PM	3:00 PM	Hands-on training session	SM, IA
3:00 PM	3:30 PM	Data submissions review and identification of errors	SM, IA
3:30 PM	4:10 PM	Discussion on hurdles/issues faced during field activity	SM, IA
4:10 PM	4:30 PM	Discussion on data monitoring/validation checks	SM
4:30 PM	5:00 PM	Wrap-up and Q&A Session	SM

Trainee Certificate



**NATIONAL PROGRAM
FOR IMPROVEMENT OF WATERCOURSES
NPIWC-II**

TRAINEE CERTIFICATE



This certifies that Mr. MR. NOOR AHMAD designated as DDO
at OFWM has conducted two days training on **Android Based Data Collection Application
& GIS Based Progress Monitoring Dashboard.**

Held at Quetta, Balochistan from 07th to 08th December 2022






Team Leader
ME&IEC - NPIWC-II



ICT Specialist
ME&IEC - NPIWC-II

Trainee Holding Cards

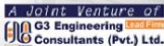


**NATIONAL PROGRAM FOR IMPROVEMENT
OF WATER COURSES
NPIWC - II**

TRAINEE

Mr. Noor Ahmad

DDO

District: Quetta

Training Participants List

Sr. #	District	Name of Participants	Designation
1	Quetta	Mr. Noor Ahmad	DDO
2	Quetta	Mr. Muhammad Fazal	Agriculture Officer
3	Quetta	Mr. Qari Abdul Basit / Muhammad Khalid	Sub Engineer
4	Pishin	Syed Faizullah Shah	DDO
5	Pishin	Mr. Imran Hassan Khan	Water Management Officer
6	Pishin	Syed Ehsan Ullah / M. Usman Shah	Sub Engineer
7	Killa Abdullah	Mr. Anwer Adil	WMO
8	Killa Abdullah	Mr. Naveed Ahmad	A/O
9	Killa Abdullah	Mr. Daro Khan	Junior Engineer
10	Mastung	Mr. Faqeer Muhammad	DDO
11	Mastung	Mr. Nadir	WMO
12	Mastung	Mr. Dad Ali	Sub Engineer
13	Kalat	Syed Sikandar Shah	DDO
14	Kalat	Mir Tahir Khan	A/O
15	Kalat	Syed Mukhtiar Shah	S/E
16	Surab	Mr. Farid Ahmad	DDO
17	Khuzdar	Mr. Habibullah	DDO
18	Khuzdar	Imam Baksh	A/O
19	Khuzdar	Attaullah	S/E
20	Lasbella	Mr. Shahid Ali	DDO
21	Lasbella	Abdul Qadeer	WMO
22	Lasbella	Shahjahan	Comp: Operator
23	Awaran	Mr. Abdul Wahid	DDO
24	Awaran	Shahid Ali	A/O
25	Awaran	Ghulam Sarwar	S/E
26	Chaghi	Mr. Shah Nawaz	DDO
27	Chaghi	Khushal Khan	A/O
28	Chaghi	Safar Khan	S/E
29	Nushki	Mr. Sanaullah	DDO
30	Nushki	Asadullah	A/O
31	Nushki	Abdul Ghaffar	S/E
32	Kharan	Mr. Asif Saleh	DDO
33	Kharan	Abdul Salam	AAE
34	Kharan	Zia Ur Rehman	S/E
35	Washuk	Mr. Yahya Khan	DDO
36	Washuk	Mujeeb ur Rehman	WMO
37	Washuk	Arif Shah	AAE
38	Washuk	Muhammad Dawood	S/E
39	Panjgoor	Mr. Muhammad Zaman	DDO
40	Panjgoor	Zahoor Ahmad	WMO
41	Panjgoor	Sikandar Ali	S/E
42	Turbat	Mr. Mehbob Ali	DDO
43	Turbat	Nazir Ahmed	A/O
44	Turbat	Abdul Karim	S/E
45	Gwadar	Mr. Chakar Khan	DDO
46	Gwadar	Nasir Ali	A/O
47	Gwadar	Maula-dad	S/E
48	Kachhi	Mr. Ejaz Ahmad	DDO
49	Kachhi	Asif Taj	A/O

Sr. #	District	Name of Participants	Designation
50	Kachhi	Naseeb ullah	S/E
51	Jhal Magsi	Mr. Gahnwar Khan	DDO
52	Jhal Magsi	Rehmat Ullah	J/C
53	Jhal Magsi	Muhammad Ismail	S/E
54	Naseerabad	Mr. Saeed Ahmad	DDO
55	Naseerabad	Muhammad Ismail	WMO
56	Naseerabad	Ali Mardan	S/E
57	Sohbatpur	Mr. Imdad Ali	DDO
58	Sohbatpur	Muzamil Ahmad	WMO
59	Sohbatpur	Mohammad Qasim	S/E
60	Jaffarabad	Mr. Lal Jan	DDO
61	Jaffarabad	Mr. Babul Khan	J/E
62	Jaffarabad	Mr. Abdul Fateh	S/E
63	Sibi	Mr. Barkat Ali	DDO
64	Sibi	Ghulam Rasool	WMO
65	Sibi	Shahid Abbas / Javaid Murtaza	S/E
66	Dera Bugti	Mr. Amanullah	DDO
67	Dera Bugti	Abdul Majeed	J/C
68	Dera Bugti	Abdul Ghaffar	S/E
69	Harnai	Mr. Munir Ahmad	DDO
70	Harnai	Najeeb Ullah	A/O
71	Harnai	Gul Muhammad	S/E
72	Ziarat	Mr. Muhammad Mukhtiar	DDO
73	Ziarat	Ashir Aziz	A/O
74	Ziarat	Tariq	S/E
75	Kohlu	Mir Dil Malik Marri	DDO
76	Kohlu	Hassan Zarkoon	WMO
77	Kohlu	Nouroz Khan	S/E
78	Barkhan	Abdul Sadiq	DDO
79	Barkhan	Ghulam Farid	Assistant
80	Barkhan	Qazi Shahid	S/E
81	Musakhail	Kamal Khan	DDO
82	Musakhail	Ain Ullah	A/O
83	Musakhail	Jameel Khan	S/E
84	Loralai	Muhammad Anwer	DDO
85	Loralai	Habibullah	WMO
86	Loralai	Abdul Hadi	J/E
87	Duki	Saadullah	DDO
88	Duki	Abdul Hanif	S/E
89	Duki	Hussain Khan	S/E
90	Killa Saifullah	Abdul Khaliq	DDO
91	Killa Saifullah	Inayatullah	WMO
92	Killa Saifullah	Abdul Salam	S/E
93	Zhob	Abdul Ali	DDO
94	Zhob	Muhammad Umar	A/O
95	Zhob	Changaiz Khan	S/E
96	Sherani	Pir Muhammad	DDO
97	Sherani	Muhammad Raza	A/O
98	Sherani	Muhammad Zahid /Abdullah Khan	J/C

TRAINING PICTURES



ANNEX - S: ICT TEAM'S MEETINGS WITH DG & DIRECTOR OFWM BALOCHISTAN



ANNEX - T: SOCIAL & GENDER QUESTIONNAIRE

SOCIAL & GENDER QUESTIONNAIRE		
Date	D/M/Y	
Interviewer name		
Province		
Division		
District		
Tehsil		
OFWM Field Team?		
Union council?		
Village		
Name of Chairman?		
Contact of Chairman		
Watercourse Location?		
Canal area/Non canal area		
PERSONAL INFORMATION		
Name of respondent		
Husband/Father Name?		
Age of the respondent (Years)?		
Does any member of your household have a mobile telephone?	Yes	No.
Do you have own cell phone	Yes	No.
Contact number		
CNIC?	Yes	No.
Does your household have access to internet at home?	Yes	No.
Rent house/own		
Education (Years of formal Schooling)?	<ul style="list-style-type: none"> • Illetrate • Literate/read and write • Primary/Middle/Matric • Intermediate/ Graduate and above • Madrasa education 	
Marital status	<ul style="list-style-type: none"> • Married • Unmarried • Divorce • Single • widow 	
What is your mother language?	<ul style="list-style-type: none"> • Punjabi • Potohari • Siriki • Sindhi • Pashtoo • Persian • If any other, Specify? 	
Husband occupation	<ul style="list-style-type: none"> • Agriculture Farmer • Labor • Govt/Private job • Business • Jobless • If any other, Specify? 	
What is your occupation?	<ul style="list-style-type: none"> • Housewife 	

SOCIAL & GENDER QUESTIONNAIRE			
		<ul style="list-style-type: none"> • Agriculture Farmer • Labor • Govt/Private job • Business • Jobless • If any other, Specify? 	
	How many family members are earning?	Male	Female Total
	How many children do you have?	Male	Female Total
	No. of school going children?	Male	Female Total
	Basic facilities	<ul style="list-style-type: none"> • Electricity • Gas • water 	
	Transportation	<ul style="list-style-type: none"> • Bicycle • Motor cycle • Car • NA • If any other, Specify? 	
Household/daily routine activities			
	What household activities are performed by you?	<ul style="list-style-type: none"> • Cooking • Looking after elders • Washing clothes and dishes • Cleaning of house • Caring of Children • Bringing drinking water • Bringing fire wood • Bathing livestock • Feeding livestock • Making dunk cakes • If any other, Specify? 	
	Have you hired any maid for household activities?	Yes	No.
	If no, reason why	<ul style="list-style-type: none"> • Financial problem • Cultural issues/not allowed outsider to work • Not Available • Accessibility • Not interested 	
	Do you have livestock?	Yes	No.
	Do you have milking animal?	Yes	No.
	If yes, dairy products for sale	Yes	No.
	Do women own the animals they tend, and do they have control over or access to the income derived from the sale of meat and milk, etc.?	Yes	No.
	Dairy product for your own use	Yes	No.

SOCIAL & GENDER QUESTIONNAIRE			
	If own use, What dairy products you make from milk?	<ul style="list-style-type: none"> • Desi Ghee • Butter • Cheese • Yogurt 	
Women & Agriculture			
	Do you participate in farming activities?	Yes No	
	If yes than,	<ol style="list-style-type: none"> 1. Land preparing <ul style="list-style-type: none"> • Ploughing • Planking • Levelling • Irrigation 2. Seed and sowing <ul style="list-style-type: none"> • seed store • Ploughing • Planking • Pesticide 3. Bund making manual 4. Weedicides 5. Irrigation 6. water course cleaning 7. Harvesting 8. Threshing: 9-Any other, Specify----- 	
	What field tasks are traditionally performed by women, and which by men?	Women task	Men task
	Do you have knowledge regarding crops	Yes No.	
	If yes than, Did you use any new variety after w/c lining, if yes than explain		
	Do you know which crops you are sowing/cultivation now?	Yes No.	
	If yes, give the names of the crops.		
	Are female receiving same amount as compare to male labour?	Yes No.	
	Who receives land income from crop production?	Male	Female Both
	Daily wages paid to male	Amount per day	DK
	Daily wages paid to female	Amount per day	DK
	What constraints prevent women from growing and marketing cash crops?		
	What percentage of farming households are headed by women in your area?		
	Are women included in processing or marketing cooperatives or in communal projects?	Yes No.	
Health issues			
	Do you have any health facility in your area?	Yes No	

SOCIAL & GENDER QUESTIONNAIRE		
	If yes then What type of facility you have in your area?	<ul style="list-style-type: none"> BHU RHC MCH, DHQ Dispensary Private clinic/TBA/Hakeem/Homeo Any other-----
	Last time visited to health facility in your area (This question does not relate to any big hospital in any other city)	<ul style="list-style-type: none"> Within the month More than one month Last Quarter Six month before One year before Never
	If yes then, who was ill?	<ul style="list-style-type: none"> Yourself husband Child Relative Family member Neighbor
Decision making		
	Do your husband/father consult you or any other female for house hold decision matters? like	<ul style="list-style-type: none"> No Household related matters Crops related matters Livestock related matters Both household and farming related matters Other, if any
	Can you spend as much money as you want?	Yes No.
	Can you go to the hospital on your own?	Yes No.
	Do you consult about your children's educational decisions?	Yes No.
	Who takes Marital decision	<ul style="list-style-type: none"> Head of HH Male family members Female family members Elder family members only
INTERVENTION DETAIL		
	DO YOU HAVE THE KNOWLEDGE OF WATERCOURSE LINING/ WST INTERVENTION/SCHEME CARRIED OUT IN YOUR VILLAGE:	Yes No.
	Are there water user associations?	Yes No.
	Any member of your household is the member of WUAs	Yes No.
	If yes, relation with WUAs member	
	Can women join them?	Yes No.

SOCIAL & GENDER QUESTIONNAIRE	
Are women members of water user associations?	Yes No.
Does the scheme is beneficial for women?	Yes No.
If yes, what are the benefits:	<ul style="list-style-type: none"> • Increase in Income generation • Provides greater availability and stability of Food supplies • Reduction in malnutrition • Social gathering/social bounding among women • Saved travel and waiting time for water collection for domestic use • Any other, Specify-----
Is the scheme beneficial for your agriculture:	Yes No.
If yes, explain how?	<ul style="list-style-type: none"> • Increase in crops production • Cropping intensity • Time savage in irrigation • Dispute among farmers resolved • Reduction in cost of production • Any other, Specify-----
Is the scheme beneficial for your livelihood?	Yes No.
If yes, explain how?	<ul style="list-style-type: none"> • Improved life style • Awareness/knowledge • Health issues
Is the scheme beneficial for social bonding among women?	Yes No.
If yes, explain how?	<ul style="list-style-type: none"> • WUAs meeting • Washing clothes activities • Livestock bathing
Is the scheme beneficial to decrease the women's efforts towards water:	Yes No.
If yes, explain how?	<ul style="list-style-type: none"> • Saved travel for water collection • Conflicts resolution • Easy access
Workload reduces after intervention	Yes No.
If yes, explain how?	<ul style="list-style-type: none"> • Availability of water for domestic purpose(washing clothes) • Availability of drinking water for livestock • Easy access of water for bathing animals • Time saving • Leisure time
Income	
*If women is working in women related Q than ask otherwise write NA(Not applicable)	
Daily expenditure before intervention	

SOCIAL & GENDER QUESTIONNAIRE		
	Daily expenditure after intervention	
	Weekly expenditure	
	Monthly expenditure	
	Female income Monthly	
	Male income monthly	
	Income before intervention	
	Income after intervention	
	Crops Knowledge	
	Is water sufficient for irrigation after intervention?	Yes No.
	Did you face any problem before intervention regarding crops production	
	If yes then what problem you faced?	<ul style="list-style-type: none"> • Income • Less production • Land holding • Cost of production • Wastage of time/more time consumed • Spoil/damage crops • Lack of awareness about fertilizers
	Do you think crops production increases after intervention?	Yes No.
	If yes then how much	

ANNEX - U: ANALYSIS OF STATISTICAL TABULATION OF SOCIAL GENDER MONITORING TOOLS

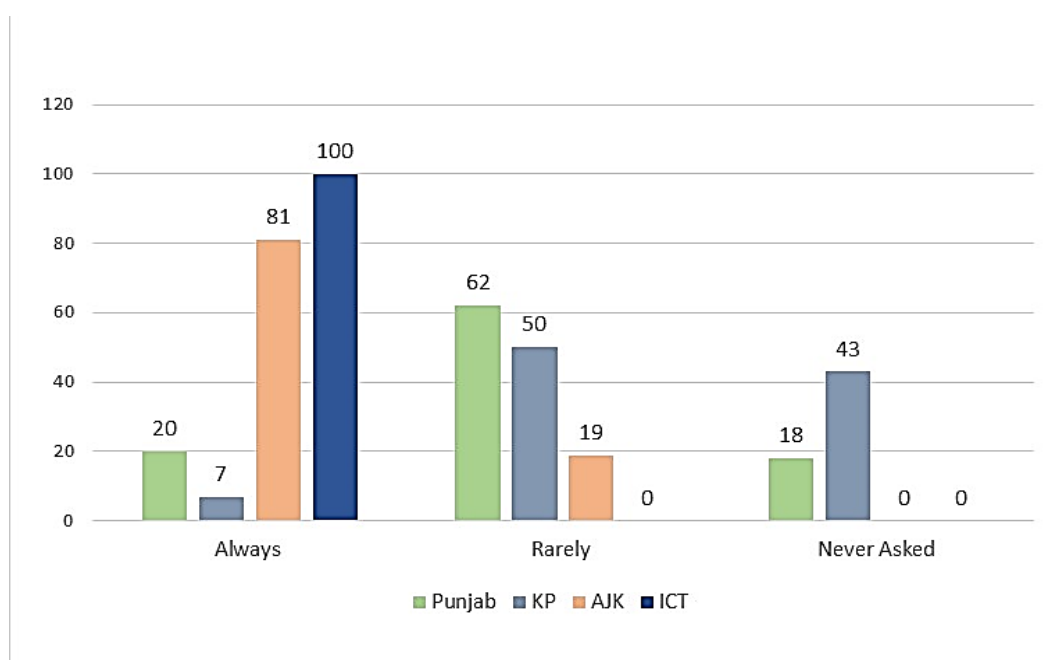
Faced problems regarding irrigation water

Zone/Unit	Total Respondent	Yes (%)	No (%)	Don't Know (%)
Punjab	40	50	45	5
KP	118	25	41	34
Balochistan	0	-	-	-
AJK	16	25	75	0
ICT	1	0	100	0
GB	0	-	-	-
Overall	175	40	45	24

Above **Table**, shows that farmers were facing problems regarding irrigation. In Punjab 50% were facing problem regarding irrigation while in KPK and AJK about 20% of the farmers are facing problems. In Islamabad no one shared their problems as all farmers belong to good families. Water related problem affected the crop production also. most of the water is lost due to seepage from the water courses which affects all agricultural activities.

Consulted in farming decision

Zone/Unit	Total respondent	Always (%)	Rarely (%)	Never asked (%)
Punjab	40	20	62	18
KP	118	7	50	43
Balochistan	0	-	-	-
AJK	16	81	19	0
ICT	1	100	0	0
GB	0	-	-	-
Overall	175	17	50	33

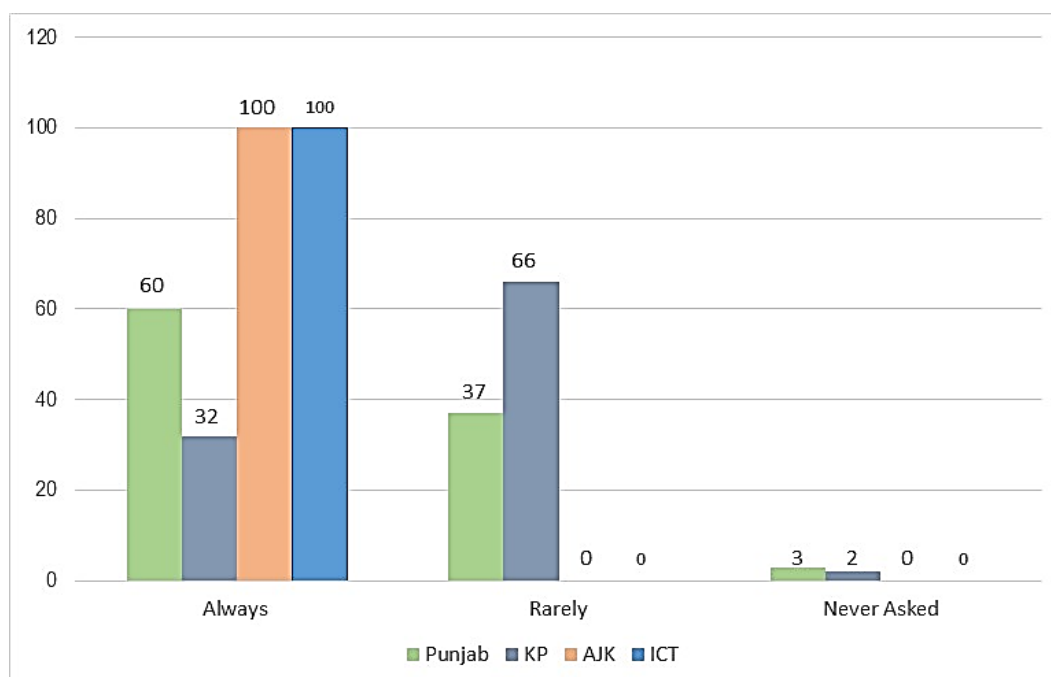


Status of the Consulted in farming decision in percentage

Above **Table and Figure**, depicts that 30/175 which is equal to 17% of women said yes they are taken on board but 87/175 i.e. 33% said no they have never participated in any decision making which is alarming, it describes real situation of social & cultural barriers. Although more than 60% women in rural areas work in agricultural sector, in spite of taking part in all activities they were not consulted in any farm related activity. this shows that women are not empowered in rural areas due to men dominance and supremacy.

Consulted on spending income at household

Zone/Unit	Total respondent	Always (%)	Rarely (%)	Never asked (%)
Punjab	40	60	37	3
KP	118	32	66	2
Balochistan	0	-	-	-
AJK	16	100	0	0
ICT	1	100	0	0
GB	0	-	-	-
Overall	175	45	53	2

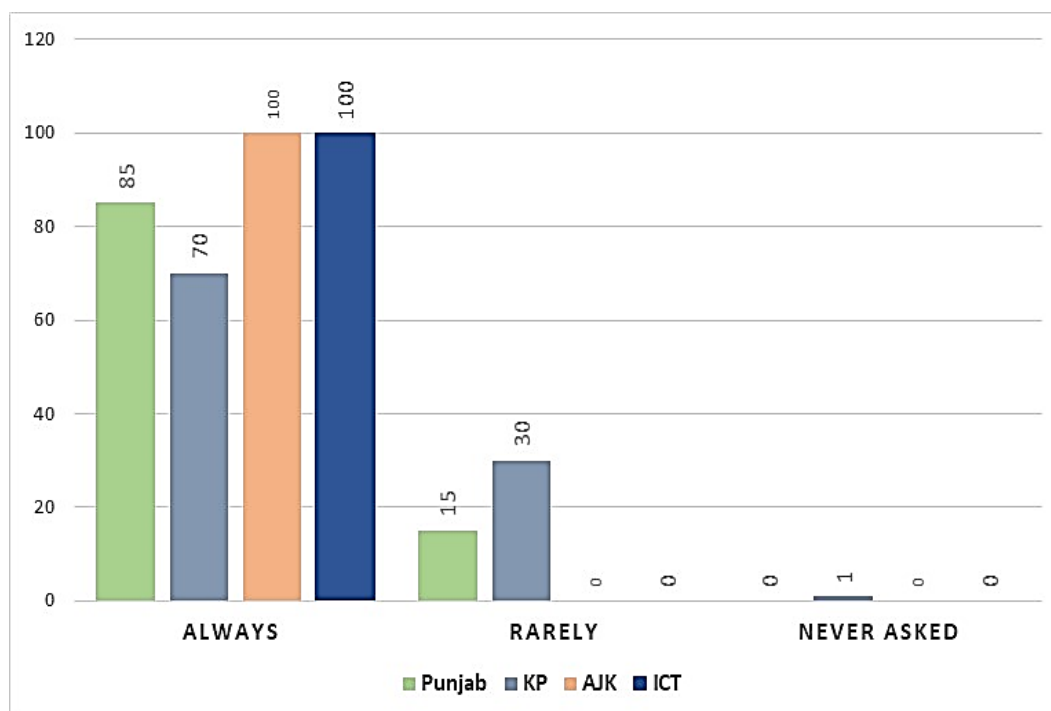


The status of Consulted on Spending Income at Household in Percentage

Above **Table and Figure**, shows that Baseline data clearly and vibrantly explain that 45% of women are take part in spending income at the household level but 93/175 i.e. 53% a rarely consulted by male members while making expenditures at home level. And 2% were never consulted which is not very alarming as compare to the consulted participation. this set of data explained that women are consulted in one or other way at house level so we can say that to some extent they are empowering in between the boundary of the home.

Consulted in making household decisions

Zone/Unit	Total respondent	Always (%)	Rarely (%)	Never asked (%)
Punjab	40	85	15	0
KP	118	70	30	1
Balochistan	0	-	-	-
AJK	16	100	0	0
ICT	1	100	0	0
GB	0	-	-	-
Overall	175	76	23	1

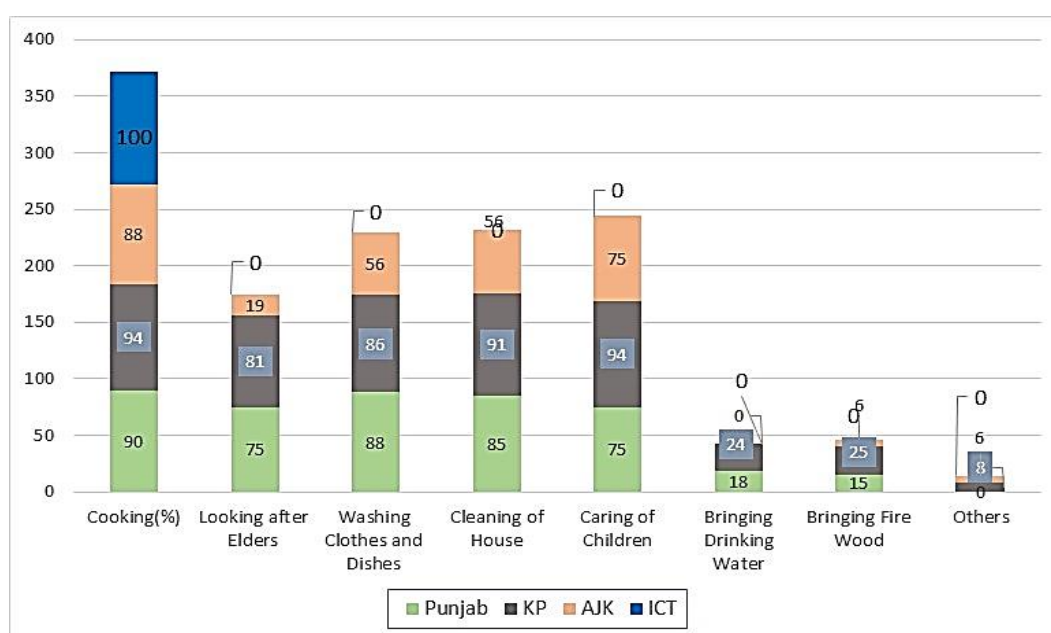


The status of the Consulted in Making Household Decisions in Percentage

Above **Table and Figure**, explain while making decisions at the household level i.e. 76% and 41/175 also consulted rarely at the household level it explain that most of the house-level decisions were made by females. This shows that 76% of women always made decisions and participated in all aspects 23% were consulted rarely. Only 1% reported that they are not consulted so we can easily say that women are empowered are household level to make decisions. We can say women are consulted in typical house hold affairs like food and clothing.

Household activities (Multiple activities)

Zone/Unit	Total respondent	Cooking(%)	Looking after elders (%)	Washing clothes and dishes (%)	Cleaning of house (%)	Caring of children (%)	Bringing drinking water (%)	Bringing fire wood (%)	Others (%)
Punjab	40	90	75	88	85	75	18	15	0
KP	118	94	81	86	91	94	24	25	8
Balochistan	0	-	-	-	-	-	-	-	-
AJK	16	88	19	56	56	75	0	6	6
GB	0	-	-	-	-	-	-	-	-
ICT	1	100	0	0	0	0	0	0	0
Overall	175	92	74	83	86	88	20	21	6

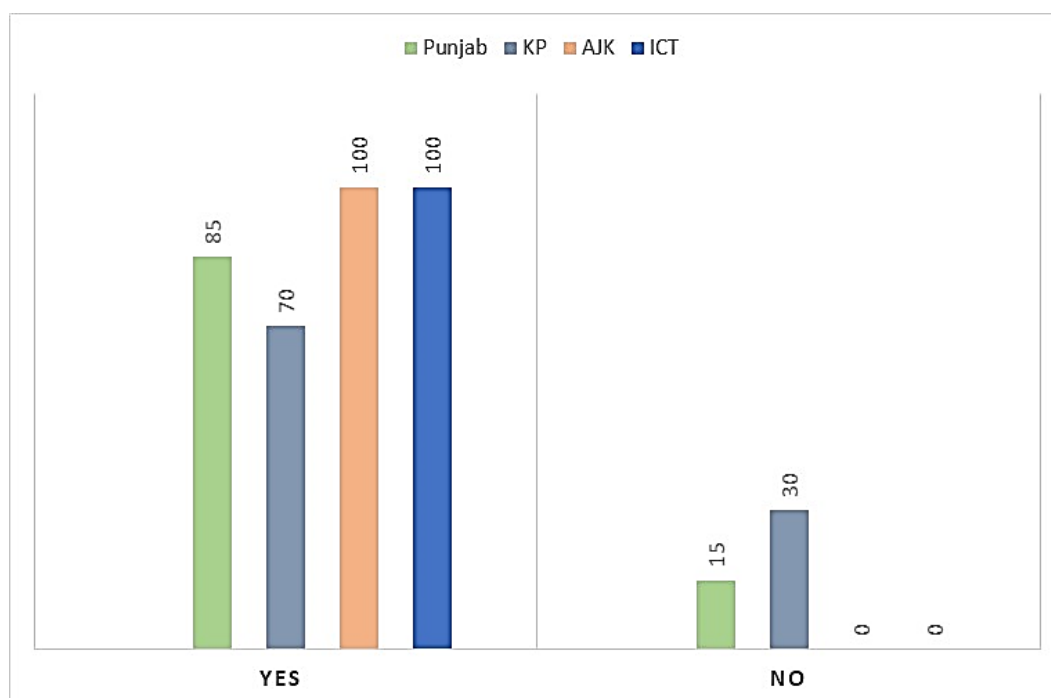


The status of the Household Activities (Multiple Activities) in percentage

Above **Table and Figure**, explains that all women participate in cooking & looking after elders and other household chores. In water-related activities, it varies from province to province showing that 24% women in KP fetch water and 25% collect wood. While in Punjab 18% of female fetch water and 15% collects woods. In AJK females are not involved in fetching water activity. While going through the exhausting list of household activities we can easily say the female workload is more than 14 hours a day after counting all activities, we can get a crystal clear and vivid picture. From dawn to sunset 14 hours and the normal day of a rural female starts at 04 AM and finish at 07 PM. Rural women shoulder a disproportionate amount of unpaid work and house hold duties which is neither recognized nor remunerated. The household activity chart depicts that 100% women of the ICT are involved in only activity and that is cooking. The result of KPK shows that the women of this province are most likely to involve in all household activity be it bringing fire woods and drinking water or doing house hold chores. As women of KPK are more likely to spend their time at home and the activity evolves around it.

Participation in farming activities

Zone/Unit	Total Respondent	Yes (%)	No (%)
Punjab	40	85	15
KP	118	70	30
Balochistan	0	-	-
AJK	16	100	0
GB	0	-	-
ICT	1	100	0
Overall	175	76	23



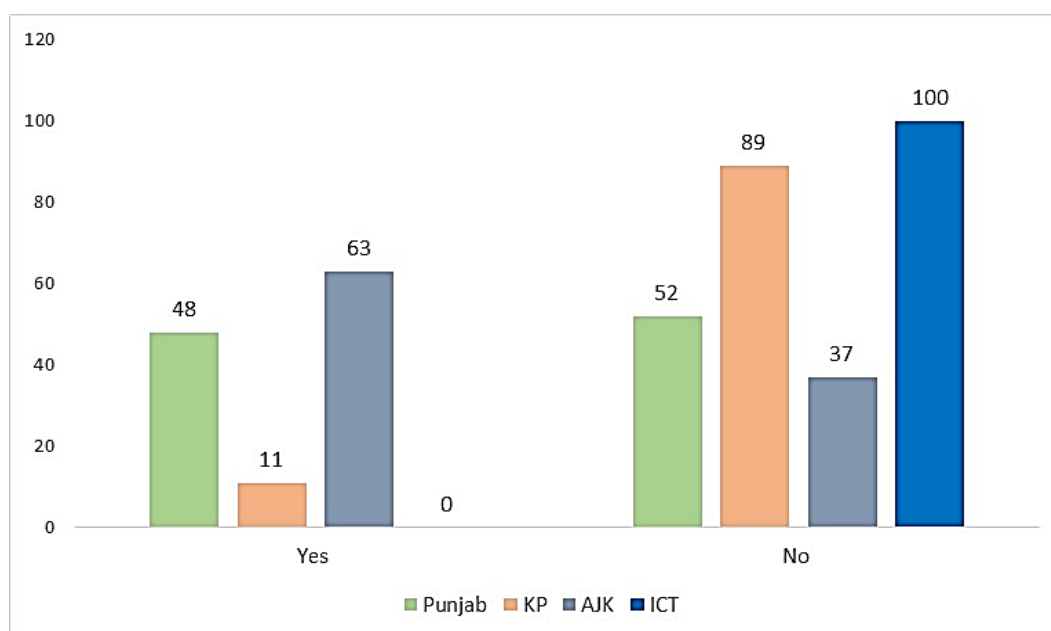
The status of the Participation in farming activities in percentage

Above **Table and Figure** compared to the rural women work and participation in on farm activities the data depicts total different picture, it might be due to small sample size that only 76% said that they work in field and participate in agricultural activities and in ICT only one women answered and said no it means that economically she belongs to affluent family. In Punjab 15% and in KP 30% said no that they don't participate in any farming or agricultural /irrigational activities .it is proposed to have focus group discussions with female farmers to collect real time information about their participation.

The above chart clearly depicts that the women of Punjab & AJK province are chief contributor in the agricultural activity and their participation in the agricultural activity is significantly high as compared to the women of other provinces. The cultural constraints cannot be neglected as it is one of the major factors that affects the involvement of the women of KPK province in the agricultural activity.

Knowledge about Water User Associations

Zone/Unit	Total Respondent	Yes (%)	No (%)
Punjab	40	48	52
KP	118	11	89
Balochistan	0	-	-
AJK	16	63	37
GB	0	-	-
ICT	1	0	100
Overall	175	24	76

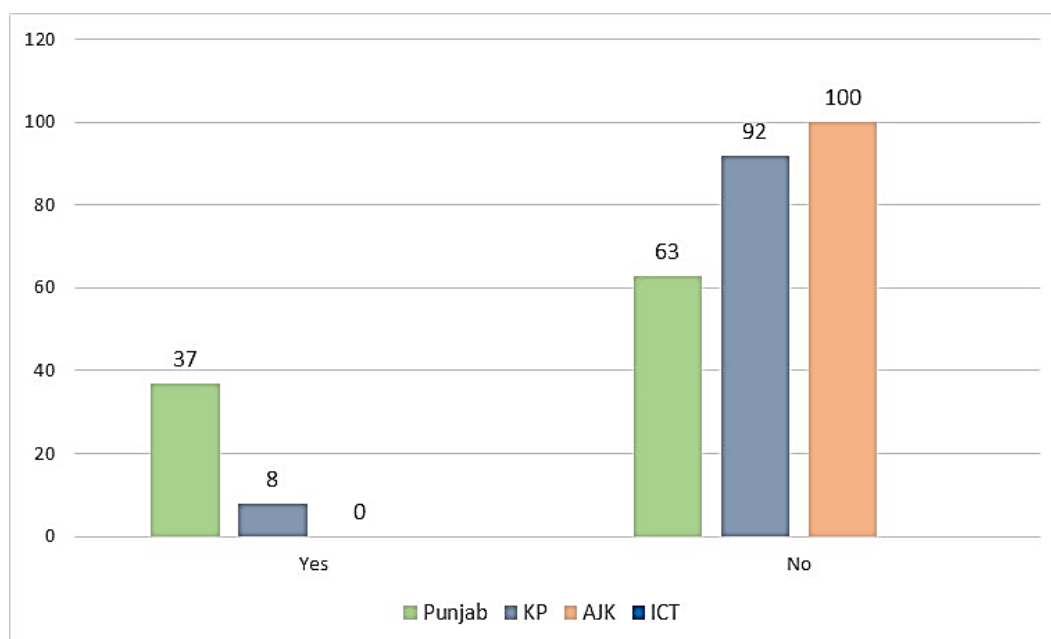


The status of the Knowledge about Water User Associations in Percentage

Above **Table and Figure** shows that WUAs is major component NPIWC-II and female information in this matter is less than 24% which shows that they have no information regarding WUAs, it clearly that they very less information regarding WUAs. They are not referred in any water related activity. It means that they are never consulted in any water-related activities or in process of establishment of association. It identified the gaps in social mobilization process. Water management capacities should be looked into, technical skills and trainings should be imparted by outreach extension staff to engage more women in program activities.

Heard about NPIWC-II Project

Zone/Unit	Total Respondent	Yes (%)	No (%)
Punjab	40	48	52
KP	118	36	64
Balochistan	0	-	-
AJK	16	94	6
ICT	1	100	0
GB	0	-	-
Overall	175	45	55

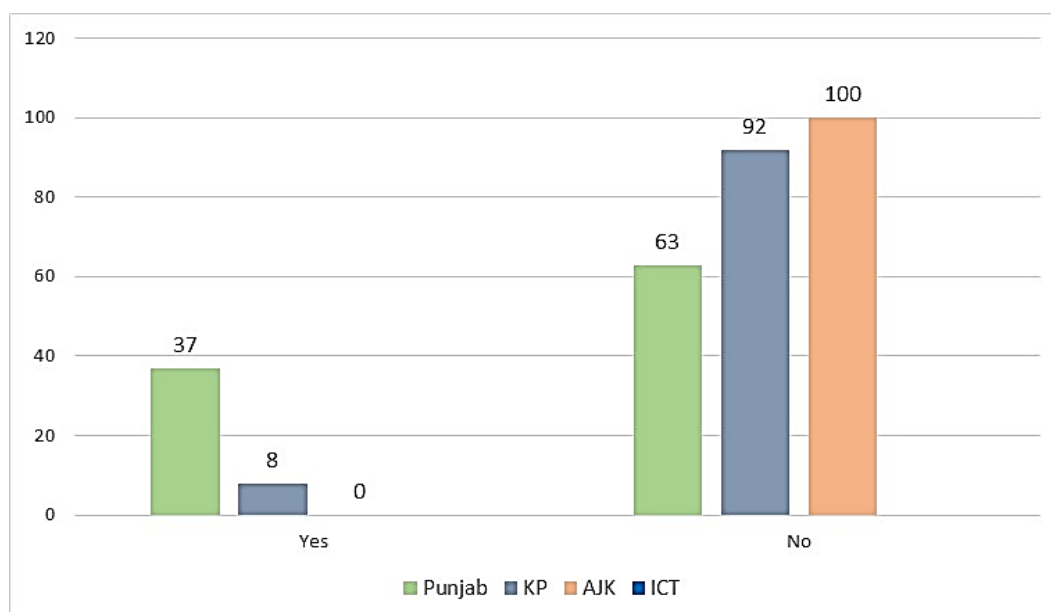


The status of the Heard about NPIWC-II Project in percentage

Above **Table and Figure**, according to the information collected, only 45% women responded that they have information regarding the project which is less than 50%. We recommend that the social mobilization process may look into and gaps identified in social mobilization process. Communication strategy and outreach communication should be improved.

Member of WUAs

Zone/Unit	Total Respondent	Yes (%)	No(%)
Punjab	19	37	63
KP	13	8	92
Balochistan	0	-	-
AJK	10	0	100
ICT	0	-	-
GB	0	-	-
Overall	42	19	81

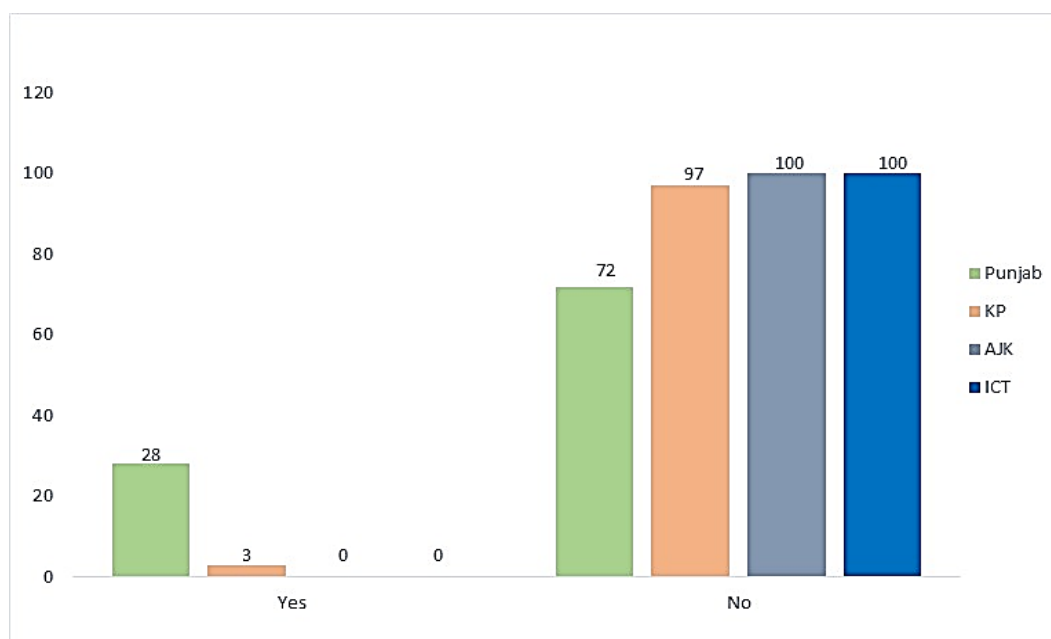


The status of the Member of WUAs in Percentage

Above **Table and Figure**, WUAs is only in 03 provinces. 42 females answered about WUAs 37% females were member of WUAs in Punjab while in KPK only 8% were members of WUAs. Data shows in the table that most of the females were not member of WUAs and they knew that their husband and other family members are WUAs members, which clearly shows the cultural and social barriers of the region.

Wash Clothes at Washing PAD

Zone/Unit	Total Respondent	Yes (%)	No(%)
Punjab	40	28	72
KP	118	3	97
Balochistan	0	-	-
AJK	16	0	100
GB	0	-	-
ICT	1	0	100
Overall	175	8	92

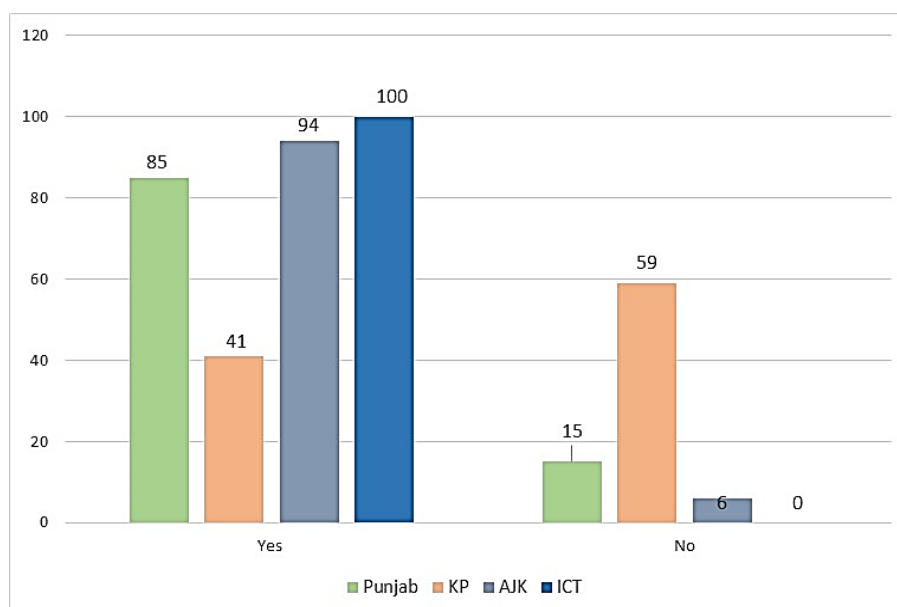


The status of the Wash Clothes at Washing PAD in Percentage

Above **Table and Figure**, washing PADs are constructed to facilitate the villagers in washing their household clothes and utensils. Mostly houses in rural areas don't have tap water or any such facility, which enables them to wash their clothes easily. Out of 175 female beneficiaries only 8% percent female were washing clothes in washing PAD while 92% female didn't have any such facility at their watercourses. Data clearly shows that most of these female belong to Punjab province and they take advantage of the watercourse for their day to day washing.

Sufficient Culverts for Crossing at Watercourse

Zone/Unit	Total Respondent	Yes (%)	No (%)
Punjab	40	85	15
KP	118	41	59
Balochistan	0	-	-
AJK	16	94	6
GB	0	-	-
ICT	1	100	0
Overall	175	56	44



The stauts of the (Sufficient Culverts for Crossing at Watercourse) in percentage

Above **Table and Figure**, Culverts are engineering structures over a watercourse mostly being used for crossing the watercourse. In villages, culverts are being given on the road where the watercourse shift from one end to another or it is usually given in a field or pedestrian way where pedestrians and tractors cross the watercourse. The above table shows that 56% of respondents out of 175 people responded that sufficient culverts are provided which facilitate their movement. While 44% responded that culverts were not sufficient according to their requirements.

ANNEX - V: SOCIAL & GENDER FIELD VISITS

Summary of Field Visits of Social & Gender Team in ICT Zone

Month	Zone/ Province	Name of scheme	UC/Tehsi I/District	Date of visit	Meeting/Field visit along with Govt Officials	Officials	Name of beneficiaries	Purpose of visit	Nature of intervention
Nov 22, Dec 22	PUNJAB	Chak- khushi	Kallar Kahar	15-11- 2022	Qaiser Mehmood A.D, OFWM	Ms. Abida Ms. Maryam & Ms. Sana	Syeda Bano	Midline	Water Storage Tank (WST)
		Manaq pur			Qaiser Mehmood A.D, OFWM	Ms. Abida Ms. Maryam & Ms. Sana	Mrs. Shamia	Midline	WST
	ICT	Sihala	ICT	18-11-22	Muhammad mobin, Sub Engineer Officer OFWM	Ms. Abida Ms. Maryam, Ms Sana	Mrs. Badam Zaree	Midline	Water course
	AJK	Lehri-6	Mirpur	26-12-22	Muhammad Ali Water Management Officer	Ms. Abida Ms. Maryam	Mrs Shazia	Midline	Water course
		New Sunian					Mrs Sadia Majid		

VISIT REPORT ON SOCIAL & GENDER ACTIVITIES IN ICT ZONE

1: MANAQ PUR, KALLAR KAHAR, WST:

Beneficiary Information

Mrs. Shamiya is 33 years old. Her husband Mr. Iqar Ali is 37 years old. She has 03 daughters. Mrs. Shamiya's family belongs to district Mardan KPK. They belong to the Pashtoon family. Both husband and wife are illiterate. But the couple is well aware of farming skills. In Mardan district, they have no farming activity chances available area. Mr. Iqar Ali has an expert in olive farming. According to Mrs. Shamiya, they have financial issues. They are living in a rented house and can't afford the rent and both husband and wife are jobless. Many days they faced starvation/have nothing to eat. It was very difficult for them to survive with 03 children without earning. According, to Shamiya they were facing problems with food expenditure due to this they are not eating/taking proper food. Children are never drinking milk and other healthy food.

Mrs. Shamiya's children are not going to school because they haven't enough money to spend on education as well as on health issues.

After Intervention

Mrs. Shamiya family decided to migrate to Sehala 07 months ago from Merdan. so, they decided to migrate to Sehala for income generation. Muhammad Khan is the owner of the olive farm. After the construction of WTS Mr. Muhammad Khan decided to hire He has given residence to the family. The owner of the farm needs to enhance his agricultural activities so he decided to hire labor for his olive farm. Muhammad Khan is giving Rs. 20,000 per month to the Iqar Ali family.

Mrs. Shamiya is also assisting her husband in farming activities. Mr. Iqar Ali and her wife also grow vegetables on the farm for personal use. Therefore, they saved money and time too. Mr. Iqar Ali is the only source of income in their home.



S&G specialist interviewing female folk at Manaq Pur WST, Kallar Kahar

2: NEW-SUNAIN WC:

Basic Information:

Mrs. Sadiya Majid is 46 years' old, an educated woman. Her husband is government officer.

Mrs. Sadiya Majid has good knowledge of agriculture and crops. She has her own non-cultivated land, but she is unaware about how much area she owns. She has knowledge of NPIWC-II project but she didn't know about WUAs.

Her husband is a very supportive spouse who usually encourages his wife in making decisions for the family. She is not restricted by her spouse; therefore, she is allowed to travel alone.

Before Intervention

Mr Sadiya told that before the construction of watercourse they were not getting the enough water supply for crops. Water is main issue in their area.

The production of crops was not increased because of shortage of water. She described that they were purchasing wheat from market for their personal use. They were spending a large amount of money to buy wheat before this project's interventions.

She told that the taste of naan was not good, children and husband always complained about the taste.

Impact o Intervention:

Mrs. Sadiya is very grateful to team and described that they are using wheat of their own farm which is healthier and taste was also good. It saved a lot of their money. Their workload has decreased in terms of visiting markets for purchasing Wheat.



S&G Specialist interviewing female folks.

3: LEHRI-6 WC:

Permanent Hired labor (PHL) of Lehri_6 allowed his wife to give interview to S&G specialist.

Basic Information:

Akber Khan is a permanent hired labor, who is working on owner's land (Allah Ditta). His wife Mrs. Shazia is 35 years' old, who belongs from district Mardan. She is Pashtoon and her family migrated to Lehri 6 village about 3 years ago. Her husband didn't find a good opportunity of job in Mardan, so they decided to move from Mardan to Mirpur.

Mrs. Shazia is landless women. She told that in our culture, female is not given any piece of land from the descendants.

Before Intervention:

Mrs. Shazia and her husband, Mr. Akber khan both are illiterate. Mr Akbar and his family involved in farming activities. Mrs. Shazia is a very supportive wife who always support her husband in the chores of farming operations.

Mr. Akber khan has two wives and 11 children and not even a single child has enrolled in school/Madresa.

Before introduction of interventions only Mr. Akber was earning Rs. 25000/ per month which was very insufficient to fulfil their family needs.

Water scarcity is main issue in their area. The production of crops was not increased due to shortage of water. She added that before intervention they were spending a lot of money on purchasing vegetables and food grains from the market.

Impact of Interventions:

After launching of the interventions, she realized that they can grow more vegetables because there is no problem of availability of sufficient water to irrigate crops.

She gives majority of her time to farming activities starting from sowing to picking. Now, she is very happy because females from the neighboring villages have started visiting their home for buying fresh vegetables.

She told that previously she was very worried about her house expenditures, since she is second wife and her husband income is not sufficient to fulfil

their needs. She is very gratifying on her role while contributing financially towards arresting the household expenditures.



S&G Specialist interviewing women folks at Lehri-6 Mirpur

Mrs. Shazia told that she was earning 500-700 PKR per day from selling the vegetables. She is very satisfied and confident after her contribution towards lessening in household expenditures. Mrs. Shazia explains that they are consuming their own farm vegetables which saved their expenditures and time.

After increasing the income, she is planning to enroll their children in school. The addition in the income empowered them to buy the uniform, books and other school related stuff for their children. Thus, Mr. Mrs. Shazia explains that they are consuming their own farm vegetables which saved their expenditures and time.

After increasing the income, she is planning to enroll their children in school. The addition in the income empowered them to buy the uniform, books and other school related stuff for their children. Thus, Mr. Akber appreciated that the project interventions have increased their farm income.

According to Mrs. Shazia, she is the role model for other women who interested to increase their income. Specially those women who are illiterate and wanted to do something in order to improve their living standers.



PHL is working on vegetable farm at Lehri 6 Mirpur.

4: SIHALA WC:

Beneficiary Information

Mrs. Badam Zari is 29 years old. Her husband Mr. Nizar Khan (PHL of beneficiary Misbahudin at Sihala) is 32 years old. She has 03 daughters. Mrs. Badam Zari family belongs to district Sawabi KPK. They belong to the Pashtoon family. Both husband wife is literate.

Before Intervention

Mrs. Badam Zari told that they shifted to Sihala district after marriage. According to Mr. Nizar Khan they were living in rented house, due to their financial constrain, they were unable to afford rented house. So they decided to move Sihala.

Impact of intervention

Mr. Nizar Khan family is very happy with the land owner. After the construction of WTS owner hired him because he needs to enhance his agricultural activities. She is also assisting her husband in farming and dairy farm activities, she is well aware about the agricultural practices. Mrs. Badam told that the land owner has given her home as well as he bares all the expenditure of school of their children because they haven't enough money to spend on education. Previously no children enrolled in school. She is very happy that her children are enrolled in private school. Mrs. Badam is also work as maid in owner's house. Mrs. Badam communicated that owner is very supportive and cooperative man. Land owner is giving them crops, vegetables and dairy products. According to Mrs. Badam they are very lucky because they are not spending money on their children school expenditures and house rent.

Mrs. Badam is very happy because she can save money. Mrs. Badam Zari told that landowner giving Rs. 25000/- per month to her husband and she is getting Rs. 10,000/- per month. Previously her husband is working as peon in private company and getting Rs. 15000/- per moth which were insufficient to fulfill their family desires. She told that now her children drinking milk and utilizes other dairy products. She told now her children are healthy and active.

Mrs. Badam Zari and her husband is very satisfied with intervention. Mrs. Badam Zari told that previously she was not doing anything regarding income generation. Now she is much confident that she is assisting husband in income generation. Now she is planning to start kitchen gardening activities.



S&G specialist interviewing female folks at Sihala WC.

SOCIAL AND GENDER COMPONENT - FOCUS GROUP DISCUSSION AND KEY INFORMANT INTERVIEWED IN DISTRICT KALAT BALUCHISTAN

Interviewed by Ms Mahgul Noor, M&E Expert,
District Kalat.

Visit Date	10 th Nov 2022
LOCATION	
Province	Balochistan
Division	Kalat

District	Kalat
Tehsil	Sadar Kalat
Union council?	Hassan lalo
Village	Hassan lalo
Watercourse Location?	N/A it was a water storage tank
Canal area/Non canal area	Non canal area
PERSONAL INFORMATION	
Name of respondent	Haneefa
Husband/Father Name?	Mir Muhmmad
Age of the respondent (Years)?	35
Does any member of your household have a mobile telephone?	Yes
Do you have own cell phone	No
Contact number	N/A
CNIC?	Yes
Caste & Social group	Raysayani
Does your household have access to the internet at home?	No
Rent house/own	This house is farmer's house, they work as a tenant

Total No. of HH interviewed by M&E Experts in District Kalat

Name	Marital status	Relation with HH	Gender (F/M)	Age (years)	Education level	Profession
Mir Muhmmad	Married	Husband	Male	38	Uneducated	
Haneefa	Married	Wife	Female	35	Uneducated	Housewife
Dur Muhmmad	Single	Son	Male	22	Uneducated	Jobless
Ghulm Muhmmd	Single	Son	Male	20	Uneducated	Jobless
Murad Bi Bi	Single	Daughter	Female	21	Uneducated	Jobless
Yaseen	Single	Son	Male	18	Uneducated	Jobless
Rafia	Single	Daughter	Female	12	Uneducated	Jobless
Asif	Single	Son	Male	8	Uneducated	Jobless
Mudasir	Single	Son	Male	5	Uneducated	Jobless
Sakima	Single	Daughter	Female	3 months		

Questions	Answer
What is your mother language?	• Brahavi
Main energy source for the household (cooking, heating etc? <i>[tick once]</i>)	• Wood
Drinking water facilities	• Well
Transportation	• Bicycle
What household activities are performed by you?	<ul style="list-style-type: none"> • Cooking • Looking after elders • Washing clothes and dishes • Cleaning of house • Caring of Children • Bringing drinking water • Bringing fire wood • Bathing livestock • Feeding livestock
Have you hired any maid for household activities?	No
If no, reason why	• Cultural issues / not allowed outsider to work
Do you have livestock?	Yes
Do you have milking animal?	Yes
If yes, dairy products for sale	No
Do women own the animals they tend, and do they have control over or access to the income derived from the sale of meat and milk, etc.?	No
Dairy product for your own use	Yes
If own use, What dairy products you make from milk?	<ul style="list-style-type: none"> • Desi Ghee • Yogurt
Women & Agriculture	
Do you participate in farming activities?	No
Do you participate in Non-farming activities?	Yes

Questions	Answer
If yes than, tick activities	Watering to Livestock Poultry rearing Milking animals Preparing milk products Bringing fodders for animals
What field tasks are traditionally performed by women, and which by men?	Women task Not willing to answer this question.
Do you have knowledge regarding crops	No
If yes than, did you use any new variety after w/c lining, if yes than explain	N/A
Do you know which crops you are sowing/cultivation now?	No
If yes, give the names of the crops.	N/A
Are female receiving same amount as compare to male labour?	Don't know
Who receives land income from crop production?	Male
What constraints prevent women from growing and marketing cash crops?	Don't know
What percentage of farming households are headed by women in your area?	Don't know
Are women included in processing or marketing cooperatives or in communal projects?	No
Do you have any health facility in your area?	No
Is there a govt school in your village?	No
Do your children go to school?	No
If no, what is the reason	There is no school in area.

Questions	Answer
Decision making	
Do your husband/father consult you or any other female for house hold decision matters? Like	No
Can you spend as much money as you want?	No
Can you go to the hospital on your own?	No
Do you consult about your children's educational decisions?	No
Who takes the Marital decision	<ul style="list-style-type: none"> Male family members
Are you consulted in spending income at your household?	<ul style="list-style-type: none"> Never
Are you consulted in making household decisions?	<ul style="list-style-type: none"> Never
Are you consulted in spending income at your household?	<ul style="list-style-type: none"> Never
Water User Association (WUAs) details	
Do you the knowledge of Watercourse lining/ WST intervention/scheme carried out in your village:	Don't know
Does the scheme is beneficial for women?	Yes
If yes, what are the benefits:	<ul style="list-style-type: none"> Saved travel and waiting time for water collection for domestic use Washing cloths
Is the scheme beneficial for your agriculture:	Yes
If yes, explain how?	<ul style="list-style-type: none"> Increase in crops production Time savage in irrigation
Is the scheme beneficial for your livelihood?	Yes
If yes, explain how?	<ul style="list-style-type: none"> Health issues
Is the scheme beneficial for social bonding among women?	Yes

Questions	Answer
If yes, explain how?	<ul style="list-style-type: none"> Washing clothes activities Livestock bathing
Is the scheme beneficial to decrease the women's efforts towards water:	Yes
If yes, explain how?	<ul style="list-style-type: none"> Saved travel for water collection Easy access
Workload reduces after intervention	Yes
If yes, explain how?	<ul style="list-style-type: none"> Availability of water for domestic purposes (washing clothes) Availability of drinking water for livestock Easy access of water for bathing animals Time-saving
Crops Knowledge	
Is water sufficient for irrigation after intervention?	Yes
Did you face any problem before intervention regarding crops production	Don't know
If yes then what problem you faced?	<ul style="list-style-type: none"> Wastage of time/more time consuming
Do you think crops production increases after intervention?	don't know
If yes than how much	N/A
Are Culverts sufficient for crossing at the watercourse	Yes No N/A
Have you heard about the NPIWC-II project?	Don't know
Landownership	
Do you own a piece of agricultural land?	No
Do your family/husband own a piece of agri land or work as tenant?	<ul style="list-style-type: none"> Worked as a tenant

Economic Evaluation:

Don't have information about it

Households Expenditure Detail:

Don't have information about it

How do you assess the economic situation of your household?	Very poor, there is sometimes even not enough food available
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Additional income & priorities
respondent should give priority numbers from 1 (very important), 2 (a bit less important) to 3 (less important)

Item	Priority		
	Very important	A bit less important	less important
Better food	1		
Better clothes	1		
Repair, rebuilt house			3
Better health services	1		
Better schools (clothing, books) for children	1		
Better water/sanitation / sewerage system			3
Electricity supply	1	2	
Buy car or motorbike			3
Open shop or start business	1		
Start professional training / studies			3
Buy livestock	1		
Hire farm staff			0
Buy livestock goods/equipment	1		
Buy seeds/trees			0
Buy agricultural goods/equipment/technologies			0
Helping others			0
Any other please specify			

Do you have irrigation/non-irrigation agriculture land?

No

Do you face any problems in agriculture in the present scenario producing good quality & quantity of crops (during seeding, sowing, plantation, harvesting, and post-harvesting activities [tick once

Don't know

General information

1. They work as a tenant; former pay them monthly 12000/=.
2. They have livestock one cow, and 10 sheep.
3. They didn't have basic facilities of electricity and gas for house hold activates.
4. There is no health facility in area they face a lot of problems for basic treatment.
5. There is no school and madressa, their children don't go any school.
6. They don't have washroom, for washroom they go outside which is completely unhygienic.