



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

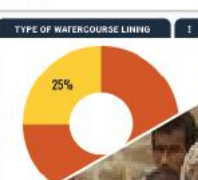
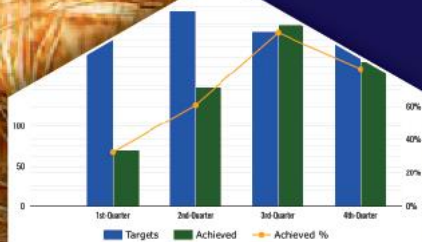
NATIONAL PROGRAM FOR IMPROVEMENT OF WATERCOURSES IN PAKISTAN PHASE-II: (NPIWC-II)

MONITORING, EVALUATION
AND IMPACT EVALUATION
CONSULTANTS



MONTHLY MONITORING REPORT

OCTOBER 2022



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



In Association with S&S Associates



Federal Project Management Unit (FPMU)
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)

MONTHLY MONITORING REPORT
OCTOBER 2022

CONTENTS

EXECUTIVE SUMMARY	1
CHAPTER-1: PROJECT INTRODUCTION	3
1.1 PROJECT PROFILE	3
1.2 PROJECT DESCRIPTION	3
1.2.1 Project Development Objectives	3
1.2.2 Project Objectives – General & Quantitative	3
1.2.3 Project Beneficiaries	4
1.2.4 Project Components	4
1.2.5 Project Targets	5
CHAPTER 2: SCOPE AND SERVICES OF ME&IE CONSULTANTS	7
2.1 OBJECTIVES OF CONSULTING SERVICES	7
2.2 SCOPE OF CONSULTING SERVICES	7
2.3 MONITORING STRATEGY OF CONSULTANTS	8
2.4 FRAMEWORK AND RESULTS-BASED MONITORING (RBM) INDICATORS	10
CHAPTER 3: CONSULTANTS' ACTIVITIES DURING THE REPORTING MONTH	11
3.1 SUBMISSION OF MONTHLY MONITORING REPORT (MMR)	11
3.2 SUBMISSION OF BASELINE SURVEY REPORT PHASE-II	11
3.3 START OF IMPACT SURVEY PHASE-I	11
3.4 ISLAMABAD NATIONAL OFFICE MEETINGS	11
3.5 REGULAR MONITORING / FIELD VISITS BY ME&IE CONSULTANTS	12
3.6 SUMMARY OF ACTIVITIES ISLAMABAD ZONE – OCT 2022	12
3.7 UPDATED PROGRESS OF ME&IE CONSULTANTS – ISLAMABAD ZONE	12
3.8 REGULAR MONITORING/FIELD VISITS BY ZONAL OFFICE PUNJAB	16
3.9 ACTIVITIES BY ZONAL OFFICE KP	21
3.10 PROGRESS OF BALOCHISTAN ZONE – OCTOBER 2022	22
3.11 ICT ASSIGNMENT	29
3.12 MONITORING / DATA COLLECTION ON SOCIAL AND GENDER COMPONENT	31
CHAPTER 4: QUARTERLY WORK PLAN-ACTIVITIES (OCTOBER TO DECEMBER 2022)	32
CHAPTER 5: ISSUES / BOTTLENECKS	34

LIST OF TABLES

Table: -ES-1: Compliance Status of Tentative Work Plan during Reporting Period	2
Table 2.1: Monitoring Strategy for ME&IE Activities	8

LIST OF FIGURES

Figure 1.1: NPIWC-II Project WCs Improvement, WSTs, and LLL Targets in Pakistan.	5
Figure 1.2: Zone-Wise WCs Improvement, WSTs, and LLL Target	6

LIST OF ANNEXURES

ANNEX - A: TENTATIVE QUARTERLY WORK PLAN (OCTOBER TO DECEMBER 2022)	37
ANNEX - B: MATRIX OF RESPONSIBILITIES.....	38
ANNEX - C: MONITORING LOG-FRAME	40
ANNEX - D: DELIVERABLES/REPORTING REQUIREMENTS	46
ANNEX - E: WATERCOURSE DATA SUBMISSION SUMMARY OF AJK ZONE.....	47
ANNEX - F: WATER STORAGE TANK DATA SUBMISSION SUMMARY OF AJK ZONE.....	48
ANNEX - G: WATERCOURSE DATA SUBMISSION SUMMARY OF KP ZONE	49
ANNEX - H: WATER STORAGE TANK DATA SUBMISSION SUMMARY OF KP ZONE.....	51

ACRONYMS

ADA	Assistant Director Agriculture
AES	Agriculture Extension Services
AF	Acre-Feet
AJK	Azad Jammu & Kashmir
AOSM	Adjustable Orifice Semi-Module
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
ODK	Open Data Kit
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 “Monitoring Report for the month of October 2022” comprises of five chapters:

Chapter-1 describes the detailed introduction and description of the project. The Government of Pakistan is implementing a project entitled “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 and Gilgit Baltistan (GB), Azad Jammu & Kashmir (AJ&K) as well as Islamabad Capital Territory (ICT). The present project is beneficial for the country.

The NPIWC-II comprises four components to be implemented in Punjab, KP, Balochistan, GB, AJ&K, 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 monitoring 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 followed by ME&IE Consultants is briefly described in Table-2.1. The strategy has been finalized and implemented in close coordination with the client and active participation of the beneficiaries as well as the project stakeholders.

Chapter-3 explains purpose of Monthly Monitoring Report (MMR). This current MMR covers the period from 1st October 2022 to 31st October 2022.

This chapter also covers the activities of ME&IE Consultants, carried out during the reporting period which are summarized below:

- Submission of MMR for the previous Month (September 2022)
- Data Analysis in progress and Submitted the synopsis of Baseline Survey Report Phase-II
- Regular Monitoring of Interventions in the Field
- Data acquisition from Client, Data entry, Data cleaning, Data processing and analysis
- Meetings of ME&IE Consultants with Stakeholders about Project Progress / Issues
- Data collection of interventions for MIS/GIS database
- Dashboard data collection and data entry

Chapter-4 highlights the quarterly work plan for the period of 1st September 2022, to 31st December 2022. The work plan is consisting of following activities:

- Pre-field Activities
- Field Activities
- ICT Assignment
- Coordination Meetings
- Deliverables

The detail time span for 4th Quarter of the year 2022 is provided in the Tentative Work Plan **Annex-A**.

Chapter-5: Issues / problems faced by the consultants during the reporting period of the assignment are described in this Chapter.

Table: -ES-1: Compliance Status of Tentative Work Plan during Reporting Period

No.	Activities Planned for the Reporting Quarter		Status	
1	Pre-Field Activities			
	1.1	Preparation for 2 nd Phase Baseline Survey	Complied	
	1.2	Internal Meetings of ME&IE Consultants	Complied	
	1.3	Training of Field Staff for 2 nd Baseline Survey	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 Phase-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 cleaned & processed for uploading on Dashboard pertaining to the Project Interventions	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)	20 th MMR (Aug. 2022)	Submitted
			21 st MMR (Sep. 2022)	Submitted
			22 nd MMR (Oct. 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	2 nd Annual Monitoring & Evaluation Report	(July 2021 – June 2022)	Submitted
	5.4	Baseline Survey Report Phase-II (First Draft)	Submitted	

CHAPTER-1: PROJECT INTRODUCTION

1.1 PROJECT PROFILE

This section covers the following detail of the project:

Project Name:	National Program for Improvement of Watercourses in Pakistan Phase-II (NPIWC-II)
Project Areas:	Punjab, Khyber Pakhtunkhwa, 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: Federal Project Management Unit (FPMU), i. DGA OFWM Punjab ii. DG OFWM KP iii. DGA OFWM Balochistan iv. Director Irrigation and Small Dams, AJ&K v. Director WM, GB vi. Director Agriculture Extension Services (AES) ICT
Project Period:	5 Year (2019-2024)
Total Project Cost:	Rs. 154,542.355 million (Umbrella PC-1, including Sindh)
ME&IE Consultancy Period:	4 years
ME&IE Consultant:	JV of G3 Engineering Consultants (Pvt.) Ltd., EASE PAK Engineering services (Pvt.) Ltd., Centre for Social Research and Development (CSR), ADA Consultants Inc. Canada, and S&S Associates.
ME&IE Consultant Mobilized:	November 20, 2020

1.2 PROJECT DESCRIPTION

Project description includes the project development objectives, project objectives, project benefits, project components, etc.

1.2.1 Project Development Objectives

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

1.2.2 Project Objectives – General & Quantitative

Following are the project's general and quantitative objectives:

a) 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.

b) Quantitative Objectives' Outputs and Impacts:

The quantitative objectives' outputs and impacts 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--- (Amended 2001) 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 watercourses' 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].

- iii) Construction of 14,932 water storage tanks with 60 percent subsidy, cost sharing, with the expectation to save about 50 percent irrigation water for wheat and about 68 percent of irrigation water for paddy.

Project impacts

- i) Reduction in Water Logging and salinity in project areas to the extent of 10%.
- ii) Cropping intensity is expected to increase by 5-20%.
- iii) Crop's yield is estimated to increase by 10-15%.
- iv) Equity in water distribution increased by about 30%.
- v) Reduction in water disputes/thefts and litigation amongst the Farmers over water distribution by about 80%.
- vi) Help poverty reduction through generation of employment.
- vii) Self-sufficiency in food through utilization of water saved for edible oil seed production.

Project indirect benefits to industry/economic activities

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

Awareness support to farmers

- i) Motivating farmers through an awareness campaign for watercourse improvement.
- ii) Providing technical material to the 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 beneficiaries of the project 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 be benefitted due to Water Users' Associations (WUAs) in terms of cooperative management of irrigation water. Moreover, 14,932 farmers will be directly benefitted 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 project comprises four components.

C1: ORGANIZATION OF WATER USERS ASSOCIATIONS:

Establishment/ reactivation of Water Users Associations (WUAs) through community driven implementation approach. Following are the scope of WUAs:

- 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 adopting the following criteria:

- 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.
- iv)

C3: CONSTRUCTION OF WATER STORAGE TANKS:

The project will construct 14,932 Water Storage Tanks (WSTs). Following will be the benefits of 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, Nallahs 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 at large flow rates.

C4: PROVISION OF LASER LAND LEVELING UNITS:

Provision of 11,610 Laser Land Leveling (LLL) units to the farmers; the component is strengthening LLL

services in the country through provision of LLL Units to farmers/ service providers on 50% subsidized rates.

1.2.5 Project Targets

Project aims at achieving the targets for 5 years starting from the year 2019-20 to 2023-24, presented in **Figure-1.1**. Whereas, the targets for each Province/Zone (excluding Sindh) are presented in **Figure-1.2**.

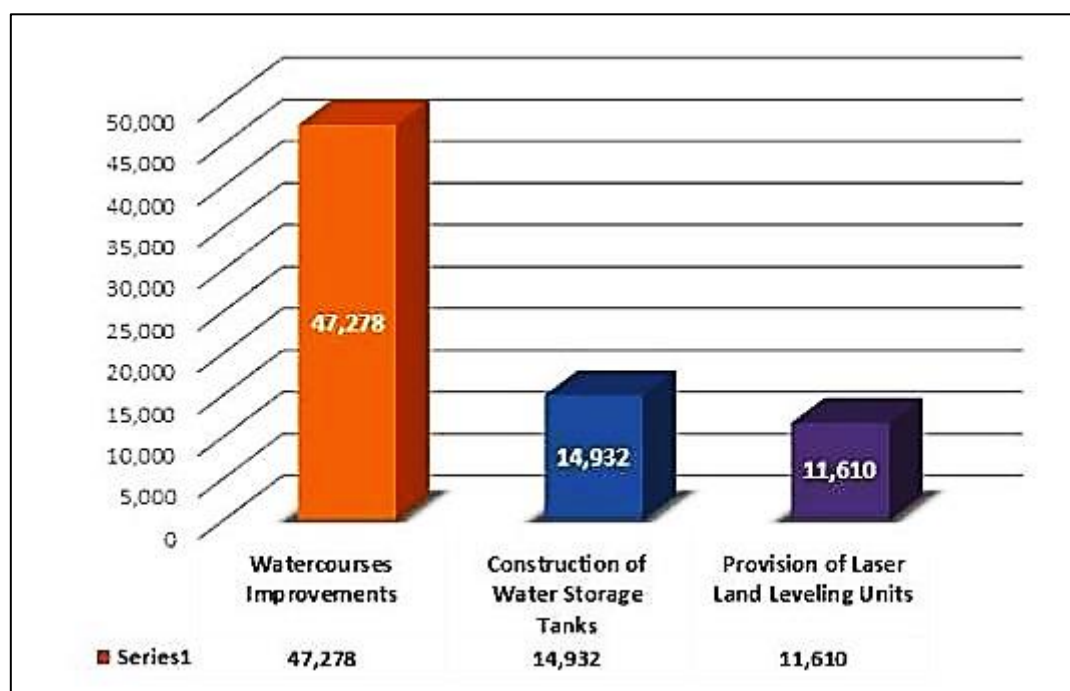


Figure 1.1: NPIWC-II Project - WCs Improvement, CWSTs, and LLL Targets in Pakistan.

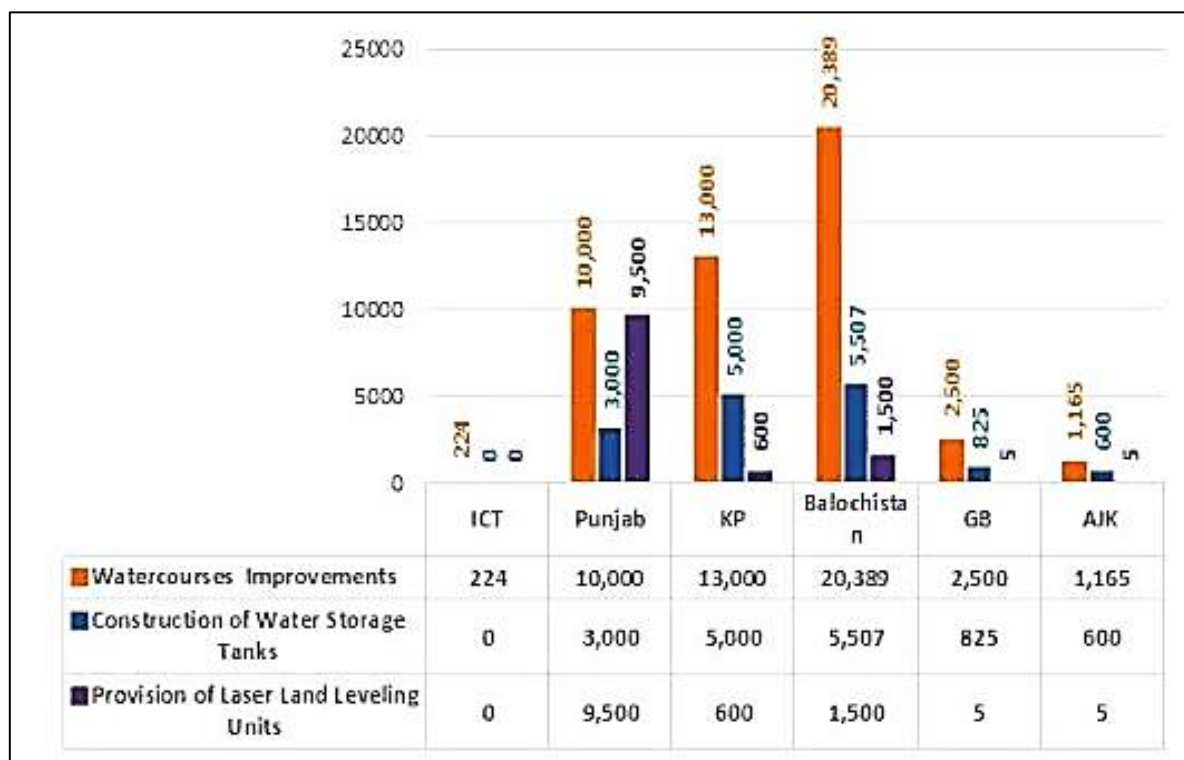


Figure 1.2: Zone-Wise WCs Improvement, WSTs, and LLL Target

CHAPTER 2: SCOPE AND SERVICES OF ME&IE CONSULTANTS

The ME&IE Consultants' services are designed to be provided through a multi-disciplinary team of qualified professionals. All the firms in the joint venture have rich experience in the field of monitoring and evaluations (M&E). 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 consultants are developing a "State-of-the-Art Management Information System" (MIS) with "Geographical Information System" (GIS) focused for NPIWC-II to monitor progress on project interventions and to carry out an effective monitoring process. The MIS is helping decision makers to make informed decisions.

2.1 OBJECTIVES OF CONSULTING SERVICES

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

2.2 SCOPE OF CONSULTING SERVICES

The ME&IE Consultants are responsible for monitoring, evaluation and impact evaluation (ME&IE), and in this context are carrying out the following activities:

- i) Undertake baseline, midline and endline 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 to the extent of community mobilization, financial and administrative

- sustainability of water users' associations and ensuring the maintenance of watercourses, water storage tanks and provision of 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, laser land Levelers database, etc. (while the project staff will maintain the website), and
- 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.

The monitoring strategy planned to be followed by ME&IE Consultants is briefly described in **Table-2.1**. However, detailed methodology and procedures to carry out the ME&IE of the project interventions were explained in Chapter 6 of the Inception Report.

2.3 MONITORING STRATEGY OF CONSULTANTS

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 the respective Province/Unit.	<ul style="list-style-type: none"> Baseline and impact surveys will be carried out on 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 the completion of the physical works, Final Assignment Completion Report at the 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.

			<ul style="list-style-type: none"> The measurements will be done through current meters. 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 periodically 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 leveled: <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 Expert	<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 benefitted towards food security Project costs and benefits will be compared in economic and

			<p>financial terms to carry out economic and financial analysis.</p> <ul style="list-style-type: none"> 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 land leveling units, the interventions will be spot checked for ensuring the quality of construction, material, functioning, 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 processed 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 are further being enhanced and refined in consultation with the client as well as the stakeholders.

The improvement of indicators is a continuous process throughout the project implementation in the light of real and on ground situations.

CHAPTER 3: CONSULTANTS' ACTIVITIES DURING THE REPORTING MONTH

As a regular part of the ME&IE assignment, routine field visits & monitoring of project interventions in the field remained continued by ME&IE consultants, during the reporting month. Consultants also carried out different in-house activities related to ME&IE assignment:

3.1 SUBMISSION OF MONTHLY MONITORING REPORT (MMR)

Monthly Monitoring Report (MMR) explains the understanding towards all activities being carried out as per TORs of ME&IE assignment and their completion within stipulated time frame. The activities include but are not limited to pre-field/ in-house activities, field monitoring activities i.e., monitoring of project interventions, ICT assignments including monitoring of online data collection in the field, and development/ improvement of project dashboard, website, etc. The Consultants of ICT Team, also remained in contact with the Clients' officials for entering data in Dashboard and provided assistance when and where was required by client. All the activities of the current month were in compliance with the quarterly work plan of the consultants. Hence, the main objective of the Monthly Monitoring Report is to update the Client about the activities carried out by the ME&IE Consultants during the reporting month. Reporting is an integral part of the monitoring and evaluation framework.

3.2 SUBMISSION OF BASELINE SURVEY REPORT PHASE-II

The ME&IE field teams collected data from the field as well as from the client offices for Baseline Survey-II. The data was collected through android based application and transferred to project MIS system. Experts carried out the analysis of the collected data and prepared draft report. The Draft Report of Baseline Survey Phase-II was submitted to the NPC on 26th August 2022 and it was presented by TL on 13th October 2022 before the reviewers' panel in the office of Deputy Project Coordinator. The final baseline-II report is being revised in the light of the comments conveyed by the committee/ stakeholders.

3.3 START OF IMPACT SURVEY PHASE-I

The ME&IE field teams collected data from the field for Impact Survey against the baseline-1. The data was collected through android based application and being in the process to transfer to project MIS system. ME&IE consultants are still engaged in data collection in some of the zones which was delayed due to catastrophic floods in some of the zones, as well as the process of data cleaning is underway enabling to attempt the analysis of the collected data for drafting the report.

3.4 ISLAMABAD NATIONAL OFFICE MEETINGS

Date	12 th October 2022
Venue	Zoom Meeting
Participants	
<ul style="list-style-type: none"> Ch. Saifullah Ejaz, Authorized Representative of JV of G3 Consultants Hafiz Abdul Rauf, PBOM, ME&IE Consultants. Dr. Usman Mustafa, Team Leader Dr. M. Abdul Quddus Malik Agri. Economist Dr. Ikram Saeed, Deputy Team Leader ICT Zone Mr. M. Yousaf Bhatti, Deputy Team Leader Punjab Zone Dr. Humayoun Khan, Deputy Team Leader Khyber Pakhtunkhwa Zone Mr. Rizwan Ahmed, Deputy Team Leader Balochistan Zone Mr. Rizwan Saleem, IT Specialist, ME&IE Consultants. Madam Muniza Tarar, Social & Gender Specialist FTIs of all Zonal Offices Shumail Mahmood, ICT Expert 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> 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. A new task related to re-entry of all the data being entered during the baseline 2 was advised to field teams. 	

3.5 REGULAR MONITORING / FIELD VISITS BY ME&IE CONSULTANTS

Routine/regular monitoring of the interventions remained in progress during the reporting month. Detail of data collection and regular field monitoring by field teams of Zonal Offices is given below:

3.6 SUMMARY OF ACTIVITIES ISLAMABAD ZONE – OCT 2022

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

- Updated Progress of ME&IE Consultants, Islamabad Zone includes;
- Data entry, validation of baseline-II survey by the field team members via ODK in revised and updated questionnaire, Monitoring tools carried out under the guidance of DTL;
- Assisted in data validation report writing of draft baseline-2;
- Coordination in managing and holding meetings via face to face as well as on line through means of Zoom, emails, WhatsApp, social media and telephonically;
- Prepared work plan and implemented for field visits but could not completed as per given schedule due to occurrence of catastrophic floods and landslides in some of the targeted areas where this zone team is supposed to accomplish baseline-2 and impact surveys, in all the areas of ICT-Zone jurisdiction including ICT areas, AJ&K and partly Punjab pothwar areas.
- Design and developed the Quarterly Work Plans – Islamabad Zone;
- Drafted and assisted in the write up of the MMR report for the month of September for the ICT-

Zone as well as consolidated the same for all respective provincial zones of Pakistan.

- Worked on the compilation of the quarterly monitoring progress report starting with effect from July through September, 2022.
- Formulation of Quarterly Work Plan (October to December 2022) – Islamabad Zone.

3.7 UPDATED PROGRESS OF ME&IE CONSULTANTS – ISLAMABAD ZONE.

Overall Progress:

The ME&IE Consultants, Islamabad had carried out first baseline survey of 6 Watercourses and 2 WST during June 2021, while another 8 watercourses and 4 WST during July and August months of 2021 for baseline 2. These were a total of 20 interventions during the year 2021.

As per TORs ME&IE had 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 during August through September 2022 on the basis of First & Second Baseline Survey. The ME&IE has monitored a total of 10 interventions (06 Watercourses and 4 Water Storage Tanks). Baseline-I and Baseline-II has been submitted and baseline-II has been validated by the team. The remaining field activities for impact survey will be continued during the month of November 2022. Though it is delayed due to floods/ land sliding/ political rallies partially in the targeted areas of the project.

Total activities, District-wise portrayed in the matrix format as below:

Sr. #	District	First Phase Baseline		Second Phase Baseline		Midline/Impact Survey		Regular Monitoring / Spot Checking		Total
		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
4	Kalar Kahar	-	1	-	-	-	-	-	-	1
5	Kalar Saidan	-	-	-	2	-	2	-	2	6
6	Taxila	-	-	-	1	-	-	-	1	2
7	Bhimber	-	-	9	-	-	-	2	-	11
8	Kotli	-	-	2	1	-	-	-	1	4
9	Mirpur	2	-	6	-	-	-	1	-	9
10	MuzaffarAbad	2	-	3	3	2	-	5	4	19
Sub-Total		6	2	25	14	6	4	13	13	83

Activities being carried out against total target as a whole and during the month of September 2022

Main Theme	Activity	Areas	Total Project Targets	Total Achieved by Last Month	This Month Targets against TS	This Month achievements
Baseline and Midline	Baseline, Watercourses	Islamabad		7	-	-
		Kashmir		26	-	-
	Baseline, WST	Islamabad		-	-	0
		Kashmir		8	-	-
		Rawalpindi		12		
	Baseline LLL	Kashmir		-		
	Midline, Watercourses	Islamabad		4		
		Kashmir		4	-	-
	Midline, WST	Islamabad		-		
		Kashmir		-		
		Rawalpindi		4		
	Midline LLL	Kashmir		-		
Monitoring activities	Water Users Association	Islamabad				
		Kashmir				
		Rawalpindi				
	Watercourse	Islamabad				
		Kashmir		3	-	-
	Water Storage Tank	Kashmir		4	-	-
		Rawalpindi				
	Laser Land Leveling	Kashmir				
Coordination Meetings	Meeting with OFWM		Need Based	-	Need Based	-
	Meeting with any Other		Need Based	-	Need Based	-
Training of Monitoring teams	Orientation of ICT Team for Baseline Tools		1	2	-	-
	Orientation of ICT Team on Android based data collection system		1	2	-	-

Achievements against Outputs

Islamabad team worked on data entry reporting and validation in the month of October.

Output 1: Baseline/Impact Survey of Watercourses and Water Storage Tanks

During the reported month, Islamabad Zonal team did not visit any watercourse or water storage tank for baseline or mid line activity. However, By this month, the data of visited watercourses / WST in baseline II of AJ&K, ICT & Rawalpindi division were re-entered in android application.

Output 2: Monitoring of the selected watercourses;

The field team could not conduct regular monitoring in the reporting month due to data verification and re-entry to the dashboard system.

Output 3: Coordination Meetings

During the current reporting month of October 2022, coordination and meetings have been carried out with OFWM department of ICT AJK & Rawalpindi. The purpose of the coordination with them was to share midline survey plan and to ensure their staff availability while conducting Impact survey. The department of Small Dams and Irrigation Mirpur & Muzaffrabad divisions as well as

OFWM Dept. of Islamabad are very co-operative in the process of conducting field surveys.

Output 4: Capacity Building of ME&IE Consultants and OFWM staff on Android Application

Monitoring tools were modified during the month. The questionnaire tools were updated and were practiced again by the field team.

The ICT team shared the primary Data for updates and validation regarding baseline II under the candid supervision of DTL, Islamabad.

During the reported month, Islamabad Zonal team did not visit any watercourse or water storage tank for baseline or mid line activity.

During the month of September 2022, a four days workshop was carried out by the ME&IE Consultants at National Office, Islamabad. The main objective of the workshop was to train the FTI/M&E Experts on revised MTs.

After the training on MTs, all provinces were asked to feed the data into new MTs on android system. It was also decided that after feeding the data, all DTLs will validate the data on the Dashboard.

The number of MTs and interventions are summarized as mentioned below:

MTs	WC	WST	Total
MT-01: Basic Profile	26	15	41
MT-02: Beneficiary Feedback	26	-	26
MT-03: Farming Household	26	15	41
MT-04: Input Prices	26	15	41
Total	104	45	149

Justification for not meeting the targets

The project activities have been planned, however due to changes in android application and feeding data in it, the field activities were postponed until the finalization of the data.

Team has planned appropriate visit execution during the month of November with the support of IT team with appropriate data management in android system as well on Dash Board.

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 warrants 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 telephone call.
- There may be chances that there may not be time to coordinate formally with Directorate, thus, they may understand that they have to facilitate monitoring team out of the way for their activities.
- Public holidays can hinder the activities like the water management which are not bound with the routine activities rather a dynamic nature.

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 providing at least 2-3 days' prior field visit.
- Each member of field team must have their official identity card when the team visits the field or the office of OFWM.
- It would be better that with android based application, field teams may fill all the data on prescribed forms, for better data management.

Lessons Learned

1. It would be good that formal system through letters/emails may be followed with all the stakeholders in a way that sufficient timing may be given to the stakeholders for their planning to meet

- their mutual needs and demands of the ME&IE as well as the clients.
2. ME&IE teams may follow visits according to the mutually and exclusively agreed plans with the respective stakeholders, because abrupt change of plans may yield inefficiencies in the quantity and quality of data results and on the top induces bad reputation.

QUARTERLY WORK PLAN – ISLAMABAD ZONE

The Islamabad team started Midline Survey in July 2022 as per work plan and collected the required

data. Data collection, but unfortunately it could not be completed as per plan due to heavy rain and non-accessibility. However, remaining sites of Midline survey will be surveyed in the month of October 2022.

The ME&IE Consultants, Islamabad is committed to accomplish all deliverables on due dates.

A comprehensive tentative Quarterly Work Plan for next quarter is being attached as an Annexure-2.

3.8 REGULAR MONITORING/FIELD VISITS BY ZONAL OFFICE PUNJAB

Overall Progress

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:

Total activities, District-wise

Sr. #	District	First Phase Baseline		Second Phase Baseline			Midline Survey		Regular Monitoring / Spot Checking		Total
		WC	WST	WC	WST	LLL	WC	WST	WC	WST	
1	Kasur	2	2	1			2	2			9
2	Okara	4	1				4	1			10
3	Gujranwala	7	1				7	1			16
4	Gujrat	-	1				-	1			2
5	Muzaffargarh	6	2				6	-			14
6	Sahiwal								6	1	7
7	Sheikhupura			5					1	1	7
8	Nankana Sahib								-	2	2
9	Hafizabad			4	1				9	3	17
10	MB Din								1	2	3
11	Multan								9	6	15
12	Faisalabad			1	1						2
13	Sargodha			4	2						6
14	DG Khan			3	3	7					13
15	Bahawalnagar			10	3	11					24
16	Bhakkar			3	5	5					13
17	R.Y Khan			11	2	2					15
Total		19	7	42	17	25	19	5	26	15	175

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		Faisalabad	1	-	1	1

Sr. No.	Crop Ecological Zone	Sample District	ME&IE Achievements of WC			ME&IE Achievements of WST
			Total	Regular	Additional	
10	Irrigated Mix Zone	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

Table 1 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 sent 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.

Table – 2 below 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
		Gujranwala	7	1	6	1
		Gujrat	-	-	-	1
7		Kasur	2	1	1	2
Sub Total			9	-	7	4
11		Okara	4		4	1
Sub Total			4		4	1
	Irrigated Cotton Zone	Muzaffargarh	6	1	5	2
Sub Total			6		5	2
Total			19	3	16	11

Field Visits

Field Visits were not carried out by Punjab team during the reporting month. During the current month team remain busy in data entry in android as well meetings with DG Agricultural Office for data sharing and other facilitation.

Punjab team also facilitated the visit of NPC Mr. Asif Kakar and carried out few field visits with him.

Meeting with Stake holders

Meetings/Coordination of Me&IE Consultants With Stakeholders

It is one of the main components of field activities for ME&IE Consultants to meet and coordinate with stakeholders of the project especially the OFWM Field staff. The consultants were regularly in touch with field staff for getting information/data from the respective offices. During the month under review following meetings were held:
ME&IE Consultants meeting with OFWM, officers in head quarter field are being held as a regular feature for better understanding of the project activities. During the month under review following meetings were held.

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 Headquarter 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
v.	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 within 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.



Figure 3.13: 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.



Figure 3.14: 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 (Agri) 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



Figure 3.15: Meeting with DG Agriculture (OFWM) office with NPC

Mr. Alvi also discussed upcoming Baseline Survey Phase-III. DDA Okara shared the limitations and constraints they are facing in achieving the targets.

3.4.2.5 Internal Meeting

Internal Meeting/ Training of Field Team

The internal meetings were also held by the deputy team leader with the field staff as usual. In the meeting general issues relevant to the revised Monitoring Tools were discussed. The matter of shifting of zonal office premises was also one of the issues discussed in the meetings.



View of a Meeting of DTL with Field Teams

3.9 ACTIVITIES BY ZONAL OFFICE KP

During the month of September 2022, a four days workshop was carried out by the ME&IE Consultants at National Office, Islamabad. The main objective of the workshop was to train the FTI/M&E Experts on revised MTs.

After the training on MTs, KP team was advised to feed the data into new MTs on android system. It was also decided that after feeding the data, all DTLs will validate the data on the Dashboard. The KP team additional to this data entry and validation carried out meetings with officials as well; Details of activities are mentioned below:

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.

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

S. 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

3.10 PROGRESS OF BALOCHISTAN ZONE – OCTOBER 2022

UPDATED PROGRESS OF ME&IE CONSULTANTS - BALOCHISTAN.

The activities done by the Balochistan zone in the reporting month are listed below:

- Updated Summarized Progress of ME&IE Consultants, Balochistan Zone.
- Data collection for Dashboard, Balochistan Zone.
- Data feeding on revised/updated MTs/ODK.
- Meetings
- Update Quarterly Work Plan – Balochistan Zone.

Overall Progress:

The ME&IE Consultants (ME&IEC), Balochistan have monitored 17 Watercourses and 51 Water Storage Tanks in Baseline Survey activities. The total Baseline Survey / Bench Marked is 68. As per TORs ME&IEC are responsible to submit a midline survey report in the middle of the assignment, in this context ME&IE Consultants surveyed total 22 sites in Midline Survey and remaining sites of Midline Survey will be monitored in the month of November 2022. The Balochistan field teams are also conducting regular monitoring of ongoing / completed sites covering all financial years i.e., 2019-20, 2020-21, and 2021-22 on a monthly basis. The Balochistan field teams have so far monitored 73 watercourses and 88 Water Storage Tanks. A total of 161 sites have been monitored to date. The updated status of the total activities done is given in the below table:

Sr. No.	Type of Visit	No. of Visits
1	Pre-Testing Visits	16
2	Baseline Survey – 1	32
3	Baseline Survey – 2	36
4	Midline Survey / Impact Evaluation	22
5	Executive Monitoring Visits	11
6	Regular Monitoring/Spot Checking	161
Total Activities		278

Summary of total activities done, District-wise:

Sr. #	District	Pre-Testing		Executive Visits (NPC, DG, & other Stakeholders)		Baseline Survey / Bench Marked (First & Second)		Midline Survey / Impact Assessment		Regular Monitoring / Spot Checking		Total
		WC	WST	WC	WST	WC	WST	WC	WST	WC	WST	
1	Quetta	3	2				6		4	5	15	35
2	Pishin	3	1	2	5		8			2	9	30
3	Killa Abdullah					1	1			3	2	7
4	Ziarat						3			2	4	9
5	Mastung			1	1	1	5	1	2	5	8	24
6	Nushki	1	2	1						2	1	7
7	Sibi									1	3	4
8	Jhal Magsi					1	4			1	4	10
9	Kachhi						8			1	10	19
10	Naseerabad					2	4	2	1	14	6	29
11	Jaffarabad	1	1							3		5
12	Sohbatpur					7		3		14		24
13	Loralai					1	2	1	4	2	6	16
14	Duki									2	1	3

Sr. #	District	Pre-Testing		Executive Visits (NPC, DG, & other Stakeholders)		Baseline Survey / Bench Marked (First & Second)		Midline Survey / Impact Assessment		Regular Monitoring / Spot Checking		Total
		WC	WST	WC	WST	WC	WST	WC	WST	WC	WST	
15	Zhob	1	1							2	1	5
16	Kila-Saifullah					2	1	1	3	5	4	16
17	Musa khel									1	1	2
18	Sherani									2	2	4
19	Khuzdar					1	6			2	7	16
20	Kalat				1	1	3			4	4	13
Sub-Total		9	7	4	7	17	51	8	14	73	88	278

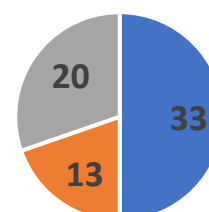
The beneficiaries list of F.Y. 2022-23 are under progress by the OFWM. As soon as OFWM initiates the works on F.Y. 2022-23 and finalizes the beneficiaries' lists, the ME&IEC, Balochistan will start the "Baseline Survey – 3" activities accordingly.

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 20 districts of 33 districts, the remaining 13 districts to be covered in upcoming months.

No. of Districts Covered by ME&IEC - Balochistan



■ Total Districts
■ Districts yet to be covered
■ Covered / Monitored Districts

STATUS OF DATA RECEIVED FOR DASHBOARD (BALOCHISTAN)

The NPIWC-II, dashboard, Balochistan zone is in progress. The beneficiary data of Watercourse and Water Storage Tanks for Financial Years i.e 2019-20, 2020-21, and 2021-22 received 76% and 80% respectively. The DG, OFWM gave necessary direction to all DDs in this regard and the Deputy Directors are giving a very positive response. As far as concern the issuance of Technical Sanctions, the maximum number of TS are ready and yet to be issued. The ME&IE Consultants are closely in touch with OFWM staff to get remaining/missing data and hopefully the required data would be received soon.

The dashboard implementation phase consists of three stages:

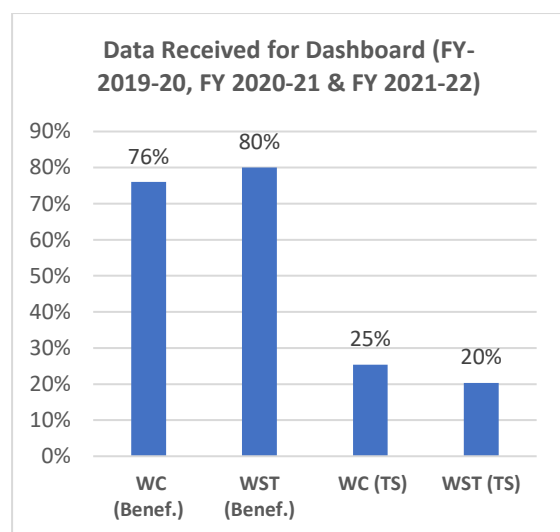
Stage I - Digitize and Migrate the Data:

- 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

Stage III - Training and Capacity Building:

The summary sheet of data received as stated below:



Sr No .	Districts	Year 2019-20			
		WC		WST	
		Benef . Data	TS Dat a	Benef . Data	TS Dat a
16	Killa Saifullah	✓	✓	✓	✓
17	Kohlu	✓	✓	✓	✓
18	Lasbela	✓	✓	✓	✓
19	Loralai	✓	✓	✓	✓
20	Mastung	✓	✓	✓	✓
21	Musakhail	✓	✓	✓	✓
22	Nasirabad	✓			
23	Nushki	✓	✓	✓	
24	Panjgoor	✓		✓	
25	Pishin	✓	✓	✓	✓
26	Quetta	✓	✓	✓	
27	Sherani	✓	✓	✓	✓
28	Sibi	✓	✓	✓	✓
29	Sohbatpur	✓			
30	Surab / SS Abad	✓	✓	✓	✓
31	Washuk	✓	✓	✓	✓
32	Zhob	✓	✓	✓	
33	Ziarat	✓	✓	✓	✓
Date Received (%)		97%	76%	76%	61%

The detail of data received from OFWM, year-wise and intervention wise is given in below tables:

Sr No .	Districts	Year 2019-20			
		WC		WST	
		Benef . Data	TS Dat a	Benef . Data	TS Dat a
1	Awaran	✓	✓		
2	Barkhan	✓			
3	Chaghi	✓	✓	✓	✓
4	Dera Bugti				
5	Dukki	✓	✓	✓	✓
6	Gawadar	✓			
7	Hernai	✓	✓	✓	✓
8	Jaffarabad	✓	✓		
9	Jhal Magsi	✓	✓	✓	✓
10	Kachhi	✓	✓	✓	✓
11	Kalat	✓	✓	✓	✓
12	Kech	✓			
13	Kharan	✓		✓	
14	Khuzdar	✓	✓	✓	✓
15	Killa Abdullah	✓	✓	✓	✓

Sr No .	Districts	Year 2020-21			
		WC		WST	
		Benef . Data	TS Dat a	Benef . Data	TS Dat a
1	Awaran	✓		✓	
2	Barkhan				
3	Chaghi	✓		✓	
4	Dera Bugti	✓		✓	
5	Dukki			✓	
6	Gawadar			✓	
7	Hernai	✓		✓	
8	Jaffarabad	✓		✓	
9	Jhal Magsi	✓		✓	
10	Kachhi	✓		✓	
11	Kalat	✓		✓	
12	Kech			✓	
13	Kharan	✓		✓	
14	Khuzdar	✓		✓	
15	Killa Abdullah	✓		✓	
16	Killa Saifullah	✓		✓	
17	Kohlu	✓		✓	
18	Lasbela	✓		✓	

Sr No .	Districts	Year 2020-21			
		WC		WST	
		Benef . Data	TS Dat a	Benef . Data	TS Dat a
19	Loralai	√		√	
20	Mastung	√		√	
21	Musakhail			√	
22	Nasirabad	√		√	
23	Nushki	√		√	
24	Panjgoor			√	
25	Pishin	√		√	
26	Quetta			√	
27	Sherani			√	
28	Sibi	√		√	
29	Sohbatpur	√		√	
30	Surab / SS Abad			√	
31	Washuk	√		√	
32	Zhob	√		√	
33	Ziarat			√	
Date Received (%)		70%	0%	97%	0%

Sr No .	Districts	Year 2021-22			
		WC		WST	
		Benef . Data	TS Dat a	Benef . Data	TS Dat a
23	Nushki	√		√	
24	Panjgoor				
25	Pishin	√		√	
26	Quetta	√		√	
27	Sherani	√		√	
28	Sibi	√		√	
29	Sohbatpur	√		√	
30	Surab / SS Abad	√		√	
31	Washuk				
32	Zhob	√		√	
33	Ziarat			√	
Date Received (%)		61%	0%	67%	0%

Sr No .	Districts	Year 2021-22			
		WC		WST	
		Benef . Data	TS Dat a	Benef . Data	TS Dat a
1	Awaran	√		√	
2	Barkhan				
3	Chaghi	√		√	
4	Dera Bugti				
5	Dukki	√		√	
6	Gawadar				
7	Hernai			√	
8	Jaffarabad	√		√	
9	Jhal Magsi				
10	Kachhi	√		√	
11	Kalat	√		√	
12	Kech	√		√	
13	Kharan	√		√	
14	Khuzdar	√		√	
15	Killa Abdullah				
16	Killa Saifullah	√		√	
17	Kohlu				
18	Lasbela	√		√	
19	Loralai				
20	Mastung	√		√	
21	Musakhail				
22	Nasirabad				

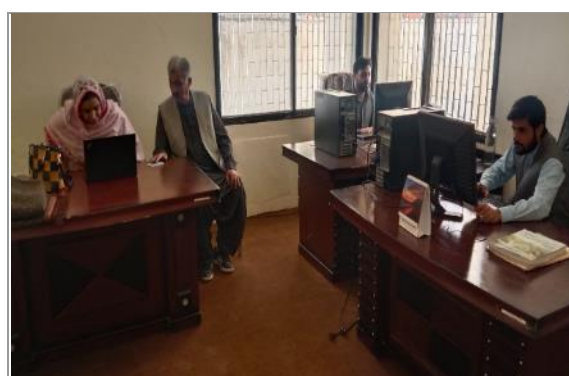


Figure-4.1: The M&E Staff are working on Dashboard, data feeding and compiling.

DATA FEEDING ON REVISED MTs/ODK

In the month of September 2022, four days workshop was conducted by the ME&IE Consultants at National Office, Islamabad. The main objective of the workshop was to train the FTI/M&E Experts on new/revised MTs.

After the successful implementation/finalization of new/revised MTs, all provinces are asked to feed the data into new MTs. It was also decided that after feeding the data, all DTLs will validate the data on the Dashboard.

Owing to this practice all field staff got familiar with new/revised MTs. All field staff give their input with full commitment and complete the task in the stipulated time.

The number of MTs and interventions are summarized as mentioned below:

MTs	WC	WST	Total
MT-01: Basic Profile	59	75	134
MT-02: Beneficiary Feedback	12	40	52
MT-03: Farming Household	18	40	58
MT-04: Input Prices	13	40	53
Total	102	195	297

The detail of data feeded by the field staff and number of schemes uplodated on Dashboard are summarized in below tables:

Watercourses:

MT-01: Basic Profile			
Sr. #	Names	Desig.	Nos.
1	Mr. Basit	M&E Officer	13
2	Mr. Arsalan	M&E Officer	4
3	Mr. Umair	M&E Officer	14
4	Mr. Naseeb	FTI/M&E Expert	15
5	Mr. Saleem	M&E Officer	13
Total			59

MT-02 Beneficiary Feedback			
Sr. #	Names	Desig.	Nos.
1	Mr. Naseeb	FTI/M&E Expert	11
2	Mr. Saleem	M&E Officer	1
Total			12

MT-03: Farming Household			
Sr. #	Names	Desig.	Nos.
1	Mr. Umair	M&E Officer	5
2	Mr. Naseeb	FTI/M&E Expert	3
3	Mr. Saleem	M&E Officer	10
Total			18

MT-04: Input Prices			
Sr. #	Names	Desig.	Nos.
1	Mr. Umair	M&E Officer	1
2	Mr. Naseeb	FTI/M&E Expert	11
3	Mr. Saleem	M&E Officer	1
Total			13



Figure-4.2: The field teams working of data feeding on new MTs/ODK

Water Storage Tanks

MT-01: Basic Profile			
Sr. #	Names	Desig.	Nos.
1	Mr. Basit	M&E Officer	17
2	Mr. Umair	M&E Officer	15
3	Mr. Naseeb	FTI/M&E Expert	22
4	Mr. Saleem	M&E Officer	21
Total			75

MT-02 Beneficiary Feedback			
Sr. #	Names	Desig.	Nos.
1	Mr. Basit	M&E Officer	12
2	Mr. Umair	M&E Officer	5
3	Mr. Naseeb	FTI/M&E Expert	8
4	Mr. Saleem	M&E Officer	15
Total			40

MT-03: Farming Household			
Sr. #	Names	Desig.	Nos.
1	Mr. Basit	M&E Officer	12
2	Mr. Umair	M&E Officer	5
3	Mr. Naseeb	FTI/M&E Expert	8
4	Mr. Saleem	M&E Officer	15
Total			40

MT-04: Input Prices			
Sr. #	Names	Desig.	Nos.
1	Mr. Basit	M&E Officer	10
2	Mr. Umair	M&E Officer	5
3	Mr. Naseeb	FTI/M&E Expert	10
4	Mr. Saleem	M&E Officer	15
Total			40



Figure-4.3: Data feeding on new MTS/ODK

MEETINGS

During the reporting months different meetings were held by the ME&IEC, Balochistan with client and other stakeholders.

The detail of meetings is given below:

Date	03 Oct. 2022
Venue	Office of the DG, OFWM, Balochistan
Participants	<ul style="list-style-type: none"> Mr. Abdul Wali, Deputy Director, Technical, OFWM, Balochistan, Quetta. Mr. Rizwan Ahmed, DTL, ME&IE Consultants, NPIWC-II, Balochistan.
Meeting Agenda/Points discussed:	<ul style="list-style-type: none"> 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. 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	<ul style="list-style-type: none"> Mr. Khalid Mehmood, DTL, NWMC, NPIWC-II, Balochistan. Mr. Rizwan Ahmed, DTL, ME&IE Consultants, NPIWC-II, Balochistan.

Meeting Agenda/Points discussed:	<ul style="list-style-type: none"> A meeting was held with DTL, NWMC to discuss the project interventions. 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	<ul style="list-style-type: none"> Mr. Behram Malghani, Agriculture Officer, OFWM, Balochistan, Quetta. Mr. Rizwan Ahmed, DTL, ME&IE Consultants, NPIWC-II, Balochistan.
Meeting Agenda/Points discussed:	<ul style="list-style-type: none"> 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. The Agriculture Officer shared some missing data of F.Y. 2019-20. The Agriculture rest assure to DTL, ME&IE Consultants to provide all desired data with coordination of concerned DDs ASAP.

Date	5th October, 2022
Venue	Office of the DG OFWM, Balochistan
Participants	<ul style="list-style-type: none"> Mr. Abdul Wahab, DG OFWM, Balochistan Mr. Manzoor Ahmed Kasi, FTI/M&EE/Focal Person Mr. Hamza H. Qureshi, M&EO
Meeting Agenda/Points discussed:	<ul style="list-style-type: none"> Discussed about the Data required for Dashboard. Directions to DDA Headquarter about the Acquisition of Data.



Figure-4.4: Meeting with Mr. Abdul Wahab, Director General, OFWM, Balochistan in his good office

Date	08 Oct. 2022
Venue	Office of the DTL, ME&IE Consultants, Arbarb Karam Khan Road, Quetta.
Participants	
<ul style="list-style-type: none"> Mr. Khalid Mehmood, DTL, NWMC, NPIWC-II, Balochistan. Mr. Rizwan Ahmed, DTL, ME&IE Consultants, NPIWC-II, Balochistan. 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> The DTL, ME&IE Consultants welcomed to DTL, NWMC in his new office and discussed different project related issues. 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	10th October, 2022
Venue	Office of the DDA Technical, Balochistan
Participants	
<ul style="list-style-type: none"> Mr. Behram Khan, DDA Technical Mr. Manzoor Ahmed Kasi, FTI/M&EE/Focal Person Mr. Hamza H. Qureshi, M&EO 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> Taking District wise Beneficiaries list for F.Y 2021-2022 	
	
Figure-4.5:	

Date	13th October, 2022
Venue	Office of the DG OFWM, Balochistan
Participants	
<ul style="list-style-type: none"> Mr. Aminullah Bugti, DDA OFWM, Dera Bugti Mr. Gohar Magsi, DDA OFWM, Jhal Magsi Mr. Manzoor Ahmed Kasi, FTI/M&EE/Focal Person Mr. Hamza H. Qureshi, M&EO 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> Discussion about the Beneficiaries lists with respect to the dashboard of F.Y 2020-2021 and 2021-2022. 	
	
Figure-4.6: Meeting with DDs, OFWM.	

QUARTERLY WORK PLAN – BALOCHISTAN ZONE

The Balochistan field works badly suffered in last months due to heavy rains and flood. The remaining sites of Midline survey will be surveyed in the month of November 2022.

The beneficiary list of new schemes/target for the Financial Year 2022-23 is in progress by the Department. The ME&IE Consultants have planned to start the Baseline Line Survey (Phase-III) of F.Y. 2022-23 from November 2022 subject to finalization of beneficiary list by OFWM Department, Balochistan.

The ME&IE Consultants will continue their regular monitoring / spot checking in each month with Baseline and Midline Survey.

The ME&IE Consultants, Balochistan is committed to accomplish all deliverables on due dates.

A comprehensive tentative Quarterly Work Plan for next quarter is being attached as an Annexure-1.

3.11 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 October 2022 activities completed by ICT Team are summarized below.

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.

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.

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	3	204
Poonch	37	38	78	1	154
Mirpur	38	107	88	28	261
Overall	107	241	239	32	619

So far, Total 619 Watercourses data from AJK zone has been received and available live on Dashboard by which 373 Watercourse has been completed & 156 watercourses are under progress. Due to farmers unwillingness 90 Work Orders have been cancelled till now. Detailed summary attached as (Annex-E).

AJK Zone - Water Storage Tank Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
MZD	35	61	73	2	171
Poonch	15	46	140	16	217
Mirpur	2	16	64	10	92
Overall	52	123	277	28	480

472 Water Storage Tank data received from AJK zone and is available live on Dashboard by which 278 Water Storage Tank has been completed and 131 WSTs are under progress. Due to un-willingness of farmers there 71 WST work orders have been cancelled till now. Detailed summary attached as **Annex-F**.

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

Division	2019-20	2020-21	2021-22	2022-23	Overall
Bajaur	3	18	30	7	58
Bannu	73	35	93	0	201
D.I. Khan	417	12	93	0	522
Hazara	84	56	146	18	304
Khyber Agency	6	13	6	0	25
Kohat	98	39	57	0	194
Kurram Agency	1	5	2	0	8
Malakand	178	167	398	1	744
Mardan	102	59	49	0	210
M. Agency	4	26	13	0	43

Division	2019-20	2020-21	2021-22	2022-23	Overall
Orakzai Agency	2	3	0	0	5
Peshawar	0	1	0	0	1
S.W. Agency	136	85	79	2	302
N. W Agency	3	12	13	0	28
Overall	1107	531	979	28	2645

KP zone currently 2645 total watercourses data live on Dashboard and by which 2384 schemes have been completed and 257 schemes are under progress due to un-willingness of farmers 04 Schemes work order has been cancelled till to date. Detailed Summary attached as **Annex-G**.

KP Zone - Water Storage Tank Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
Bajaur	1	9	6	0	16
Bannu	12	18	23	0	53
Dera Ismail Khan	79	6	19	0	104
Hazara	28	42	80	2	152
Khyber Agency	1	9	6	0	16
Kohat	29	17	32	0	78
Kurram Agency	1	1	0	0	2
Malakand	74	88	146	0	308
Mardan	15	8	18	0	41
M. Agency	1	36	4	0	41
Orakzai Agency	0	2	0	0	2
Peshawar	36	25	39	2	102
S.W Agency	0	15	14	0	29
N.W Agency	0	0	5	0	5
Overall	277	276	390	4	949

KP zone currently 949 total WST data live on Dashboard and by which 845 schemes have been completed and 103 WSTs are under progress. Detailed Summary attached as **Annex-H**.

ICT Watercourse 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 by which 31 have been completed and 3 watercourses are under progress.

The ICT team is continuously in process of cleaning and validating the received data and communicating mistakes to the concerned ADs for correction.

Baseline Data Cleaning & Preparation

The ICT Team continuously provides support to all Zone/Unit Field Teams during Baseline Survey Phase-II. The ICT team also involved in data cleaning and validation of Baseline data for Analysis.

3.12 MONITORING / DATA COLLECTION ON SOCIAL AND GENDER COMPONENT

be finalized after feedback from all DTLs. Moreover, a draft success study of the watercourse is prepared and will be shared after finalization.

In the month of October, the Gender and Social specialist prepared quarterly and monthly reports for further submission activities which were carried out. Different tools were designed and developed for Case studies and Focus group discussions. The Gender and Social specialist team had not conducted any field work in the month of October as the team was engaged in working on the data. Field activities were planned and will be conducted in the next couple of months.

The following activities carried out were:

1. Propose study document was prepared along with a key informant interview questionnaire study document and questionnaire were prepared to carry out project components' impact on landless farmers and women of the program area.

The objectives of the study were 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 situations and issues of the less privileged population.

2. Tabulation tables were prepared with the help of monitoring tools for Gender-related information and which were shared with the information and communication technology team. The required data will be analyzed when tabulated data will be shared by the ICT team.

3. Gender team working on data collection 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 the cultural and social conditions of the area.

4. Developed a draft questionnaire for focus group discussions. The purpose of the questionnaire is to evaluate landless female farmers and other social issues. The questionnaire was shared with all DTLs. The questionnaire will be finalized after reviews of the entire DTLs.

5. Developed Case study format for landless female farmers and small farmers. The case study format will

CHAPTER 4: QUARTERLY WORK PLAN- ACTIVITIES (OCTOBER TO DECEMBER 2022)

The ME&IE Consultants' activities initiating during the 4th Quarter of year 2022 (1st October 2022 to 31st December 2022) are listed below. A tentative Work Plan for 4th Quarter of the year 2022 (1st October 2022 to 31st December 2022) showing time span detail is given as **Annex-A**.

Pre Field Activities

- i) Internal Meetings of ME&IE Consultants' Zonal Offices for development of Methodology for 2nd Phase Baseline Survey
- ii) Training of Field Teams for 2nd Phase of Baseline Survey

Field Activities

- iii) Regular monitoring of Interventions in the field
- iv) Data collection of the intervention in the field
- v) Baseline Survey Stage-II
- vi) Online data entry I android based application

ICT Assignment

- i) Development/improvement of website of NPIWC-II
- ii) Monitoring Android based Mobile Application under implementation by field staff
- iii) Data collection of interventions in MIS/GIS database
- iv) Data Cleaning, Development & Launching of Dashboard for Client Offices

Coordination

- i) Meeting of TL with NPC and OFWM Department regarding Progress / Issues
- ii) Meetings of DTLs with respective DTL of PC & concerned OFWM Department
- iii) ME&IE Consultants' Internal Meeting

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

Document	Status
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
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

Document	Status
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 (JANUARY – MARCH 2022)	submitted within stipulated time
Monthly Monitoring Report-Sixteen (APRIL 2022)	submitted within stipulated time
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
Annual Monitoring & Evaluation Report (2 nd) 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
Baseline Survey Report Phase-II	Submitted
MMR for the Month of October 2022	Report in hand to be submitted within stipulated time

Deliverables/Reporting Requirements are placed at **Annex-D**.

Matrix of Responsibilities

The Matrix of Responsibilities is placed at **Annex-B**.

CHAPTER 5: ISSUES / BOTTLENECKS























The ME&IE Consultants are continuously 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 baseline survey
- Non-availability of complete up-to-date inventory / data of all interventions from the Client, Provincial Agricultural Departments & NWMC (NESPAK) till to date.

ANNEXES A to K

ANNEX-A: TENTATIVE WORK PLAN

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 - B: MATRIX OF RESPONSIBILITIES

MATRIX OF RESPONSIBILITIES

SR. NO.	DELIVERABLE / ACTIVITIES	LEGEND			
		● Primary Responsibility	○ Secondary Responsibility	○ Assistance	
		NPC-PPMU	Agriculture Dept. (OEIWW)	Project Consultants	ME&IE Consultants
1	Provision of Pre-requisite data of project components for starting of Field Activities: • Organization of Water Users Associations, • Watercourses Improvement, • Water Storage Tanks, • Laser Land Levelers,	○	●	-	-
2	Certification of operational documents of the project, • 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

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

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

							<ul style="list-style-type: none"> ● 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	<p>a) 14,932 small farmers mobilized to construct water storage tanks for irrigation</p> <p>b) They agree to contribute 40% of the cost</p> <p>c) Agree to first construct the tank with his/her own funds and then received</p>	<p>a) 14,932 WSTs constructed</p> <p>b) 14,932 WSTs operated and maintained</p>	<p>a) Water which was otherwise largely going to be wasted is saved</p> <p>b) Irrigation provided at critical stages of the crops</p> <p>c) Flexibility achieved for irrigation</p>	<p>a) More area irrigated</p> <p>b) Increased cropping intensities</p>	<p>a) Increased crop yields</p> <p>b) Increased total crop output quantum</p> <p>c) Increased farm income</p> <p>d) Increased farm employment</p>	<p>a) 2-5% sample of WSTs will be surveyed</p> <p>b) A data collection form will be designed to measure water saving due to WSTs</p> <p>c) The forms used for baseline and impact surveys in case of watercourses</p>

		subsidy at 40% on issuance of FCR					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 50% by the project.	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 leveled on Farmers' / service providers' farms; b) Land leveled on fellow farmers on rent; c) Total 3.483million acres levelled by 11,610 units.	a) Water application efficiency increased at field level; b) Even germination of seed. c) Field application losses reduced by 10 percentage points d) Water productivity increased by 24%	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 agriculture sample surveys. b) 2-4% sample units will be visited by ME&IE Consultants teams after

							<p>one years of delivery</p> <p>c) The unit will be verified</p> <p>d) Area treated during the year will be collected</p> <p>e) Farmers' feedback collected on quality of the unit, quality of the after-sale service, etc.</p>
--	--	--	--	--	--	--	---

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: WATERCOURSE DATA SUBMISSION SUMMARY OF AJK ZONE

AJK - Watercourses Data Submissions – Summary

Division	District	Completed	Work Order Cancelled	Under Progress				Over all
				1st Milestone	2nd Milestone	Work Order Issued	Work Order Pending	
MZD	Muzaffarabad	55	5	8	8	18	13	107
	Jhelum	18	0	6	0	14	6	44
	Neelum	23	12	13	5	0	0	53
Muzaffarabad Total		95	96	17	27	13	32	204
Poonch	Poonch	31	12	7	1	0	1	52
	Bagh	24	14	1	0	0	0	39
	Haveli	6	9	0	0	2	7	24
	Sudhnoti	19	15	4	0	1	0	39
Poonch Total		80	80	50	12	1	3	154
Mirpur	Mirpur	66	1	0	0	7	27	102
	Bhimber	99	0	0	0	0	0	99
	Kotli	32	22	5	0	1	0	60
Mirpur Total		197	23	5	0	8	27	261
Overall		373	90	44	14	43	55	619

ANNEX - F: WATER STORAGE TANK DATA SUBMISSION SUMMARY OF AJK ZONE

AJK - WST/WHs Data Submissions Summary						
Division	District	Completed	Work Order Cancelled	Under Progress		Overall
				Work Order Issued	Work Order Pending	
Muzaffarabad	Muzaffarabad	120	3	8	13	144
	Jhelum	11	0	13	3	27
Muzaffarabad Total		131	3	21	16	171
Poonch	Poonch	45	19	6	15	85
	Bagh	33	18	3	0	54
	Haveli	15	16	3	15	49
	Sudhnoti	11	2	6	10	29
Poonch Total		104	55	18	40	217
Mirpur	Mirpur	7	0	4	10	21
	Bhimber	11	0	0	20	31
	Kotli	25	12	3	0	40
Mirpur Total		43	12	7	30	92
Overall		278	70	46	86	480

ANNEX - G: WATERCOURSE DATA SUBMISSION SUMMARY OF KP ZONE

KP - Watercourse Data Submission - Summary							
Division	District	Completed	Under Progress				Over all
			1st Milestone	2nd Milestone	Work Order Issued	Work Order Pending	
Bajaur Agency	Bajaur	46	5	2	5	0	58
Bajaur Agency Total		46	5	2	5	0	58
Bannu	Bannu	93	0	0	0	0	93
Bannu	Lakki Marwat	106	2	0	0	0	108
Bannu Total		199	2	0	0	0	201
D.I. Khan	D.I. Khan	482	2	0	0	0	484
D.I. Khan	Tank	38	0	0	0	0	38
D.I. Khan Total		520	2	0	0	0	522
Hazara	Abbottabad	24	2	1	0	0	27
Hazara	Battagram	38	3	0	0	0	41
Hazara	Haripur	58	0	15	0	0	73
Hazara	Lower Kohistan	7	0	0	13	0	20
Hazara	Mansehra	77	0	29	1	0	107
Hazara	Torghar	23	0	1	1	0	25
Hazara	Upper Kohistan	9	0	0	0	0	9
Hazara	Kolai Pallas	2	0	0	0	0	2
Hazara Total		238	5	46	15	0	304
Khyber Agency	Khyber	19	0	0	5	1	25
Khyber Agency Total		19	0	0	5	1	25
Kohat	Hangu	42	0	0	0	0	42
Kohat	Karak	67	0	1	0	0	68
Kohat	Kohat	84	0	0	0	0	84
Kohat Total		193	0	1	0	0	194
Kurram Agency	Kurram	8	0	0	0	0	8
Kurram Agency Total		8	0	0	0	0	8
Malakand	Buner	94	0	0	0	0	94
Malakand	Chitral	88	1	0	0	0	89

KP - Watercourse Data Submission - Summary							
Division	District	Completed	Under Progress				Over all
			1st Milestone	2nd Milestone	Work Order Issued	Work Order Pending	
Malakand	Lower Dir	68	5	6	11	0	90
Malakand	Malakand	76	0	1	4	1	82
Malakand	Shangla	39	0	0	0	0	39
Malakand	Swat	164	28	55	1	2	250
Malakand	Upper Dir	85	0	12	0	0	97
Malakand Total		614	34	74	16	3	741
Mardan	Mardan	124	0	0	2	0	126
Mardan	Swabi	81	0	0	2	1	84
Mardan Total		205	0	0	4	1	210
Mohmand Agency	Upper Mohmand	32	0	0	0	0	32
Mohmand Agency	Lower Mohmand	11	0	0	0	0	11
Mohmand Agency Total		43	0	0	0	0	43
Orakzai Agency	Orakzai	1	0	0	0	0	1
Orakzai Agency Total		1	0	0	0	0	1
Peshawar	Charsadda	126	0	0	13	0	139
Peshawar	Nowshera	76	0	0	13	4	93
Peshawar	Peshawar	64	0	0	5	0	69
Peshawar Total		266	0	0	31	4	301
S.W Agency	S.W Agency	27	0	0	1	0	28
S.W Agency Total		27	0	0	1	0	28
N.W Agency	N.W Agency	5	0	0	0	0	5
N.W Agency Total		5	0	0	0	0	5
Overall		2384	48	123	77	9	2641


ANNEX - H: WATER STORAGE TANK DATA SUBMISSION SUMMARY OF KP ZONE

KP - WST Data Submission - Summary								
Division	District	Completed	Work Order Cancelled	Under Progress				Overall
				1st Milestone	2nd Milestone	Work Order Issued	Work Order Pending	
Bajaur Agency	Bajaur	16	0	0	0	0	0	16
Bajaur Agency Total		16	0	0	0	0	0	16
Bannu	Bannu	11	0	0	0	0	0	11
Bannu	Lakki Marwat	34	0	0	0	0	0	34
Bannu	N.W Agency	8	0	0	0	0	0	8
Bannu Total		53	0	0	0	0	0	53
D.I. Khan	D.I. Khan	80	0	0	0	8	0	88
D.I. Khan	Tank	16	0	0	0	0	0	16
Dera Ismail Khan Total		96	0	0	0	8	0	104
Hazara	Abbottabad	18	0	0	0	0	0	18
Hazara	Battagram	23	0	0	0	4	0	27
Hazara	Haripur	40	0	0	0	0	0	40
Hazara	Kolai Pallas	2	0	0	0	2	0	4
Hazara	Lower Kohistan	0	0	0	0	0	1	1
Hazara	Mansehra	32	0	0	2	5	0	39
Hazara	Torghar	11	0	0	0	4	0	15
Hazara	Upper Kohistan	7	0	0	0	0	1	8
Hazara Total		133	0	0	2	15	2	152
Khyber Agency	Khyber	10	0	0	0	6	0	16
Khyber Agency Total		10	0	0	0	6	0	16
Kohat	Hangu	14	0	0	0	0	0	14
Kohat	Karak	60	0	0	0	0	0	60
Kohat	Kohat	4	0	0	0	0	0	4
Kohat Total		78	0	0	0	0	0	78
Kurram Agency	Kurram	2	0	0	0	0	0	2
Kurram Agency Total		2	0	0	0	0	0	2
Malakand	Buner	43	0	0	0	0	0	43
Malakand	Chitral	20	1	0	0	0	0	21
Malakand	Dir Lower	15	0	0	0	10	2	27
Malakand	Dir Upper	24	0	0	0	0	0	24
Malakand	Malakand	21	0	0	0	1	0	22
Malakand	Shangla	95	0	3	6	29	2	135

KP - WST Data Submission - Summary								
Division	District	Completed	Work Order Cancelled	Under Progress				Overall
				1st Milestone	2nd Milestone	Work Order Issued	Work Order Pending	
Malakand	Swat	33	0	1	0	1	1	36
Malakand Total		251	1	4	6	41	5	308
Mardan	Mardan	30	0	0	0	0	0	30
Mardan	Swabi	9	0	0	0	0	2	11
Mardan Total		39	0	0	0	0	2	41
Mohmand Agency	Mohmand	41	0	0	0	0	0	41
Mohmand Agency Total		41	0	0	0	0	0	41
Orakzai Agency	Orakzai	2	0	0	0	0	0	2
Orakzai Agency Total		2	0	0	0	0	0	2
Peshawar	Charsadda	13	0	0	0	1	0	14
Peshawar	Nowshera	57	0	0	0	0	0	57
Peshawar	Peshawar	25	0	0	0	3	3	31
Peshawar Total		95	0	0	0	4	3	102
S.W Agency	S.W Agency	29	0	0	0	0	0	29
S.W Agency Total		29	0	0	0	0	0	29
N.W Agency	N.W Agency	0	0	0	0	5	0	5
S.W Agency Total		0	0	0	0	5	0	5
Overall		845	1	4	8	79	12	949

Visit Reports of Punjab Teams

Site visit of a regular water course interventions

Date of Visit	18 – 10 – 22
Water course No	55380 – L
Type of Watercourse	Regular
Chak No/Village	Minhala
District and Tehsil	Lahore, Shalimar
Sanctioned Discharge	55 LPS
Designed Discharge	80 LPS
Culturable Command area	196 Acres
Total No of water users	10
Estimated lining Length	1530 M
	
<p>The Site visit to Watercourse by NPC along with Director Lahore division OFWM and ME&IE Consultants.</p>	

Observations

1. The Water User Association Chairman was a progressive farmer He was leading other farmers in the development and usage of the OFWM interventions. He has won the award for highest wheat production per acre in Lahore division.
2. Major crops grown were Maize, Wheat & Potatoes, where the yield parses(s) more than average.

Site visit of a WST Interventions

Date of Visit	18-10-2022
WST Owner:	Mr. Irfan Akram Butt

Name of village:	Bhasin
Tehsil & District:	Lahore
Source of irrigation:	Canal + Tube well
The shape of the water storage tank:	Rectangular
Size of water storage tank:	82.5 ft x 66 ft
Depth of WST:	5.5 ft
Command area of water storage tank:	5
No of beneficiaries:	1
Name of the Orchard	Vegetables



Site visit of NPC to Water storage tank along with the consultants and agriculture department officers

Observations

1. The owner of the Water storage tank was a progressive farmer and users of modern technology in agriculture.
2. WST completed two years ago yet the quality of Geomembrane was very good and in best possible use.
3. Farmer was growing the vegetables in the field which were provided with water from the Water

storage tank for irrigation purposes during the Water Shortage period.

Date of Visit	18-10-2022
Venue	OFWM Training Institute, Lahore
Owner of LLL	Tanveer Asad
Village	Pathana
Tehsil	Lahore Cantt
District	Lahore
Year of Allotment	2021 - 22



View of handing over ceremony of Laser Land Leveler to the service provider by NPC, Dr. Muhammad Asif Kakar at OFWM training institute Lahore.

Handing over a LLL Unit to a service provider

Observations

Mr. Muhammad Asif Kakar appreciated the efforts of Director, OFWM training institute in carrying smooth activities. The service provider was a small farmer. Mr. Muhammad Asif Kakar advised him, to work hard and act as role model in levelling the land of his fellow farmers.



Dr. Maqsood and Director training institute briefing to Mr. Asif Kakar NPC Coordinator about the Ongoing Training to Service Providers Mr. Muhammad Yousaf Bhatti ME&IE Consultants was also present.

Visit to training center of OFWM

Date of Visit 18-10-2022 (Venue OFWM Training Institute, Lahore)


NPC Mr Asif Kakar visited the Training Center and talked to farmers during the 4 Days ongoing training of service providers of Laser Land Leveler who came from Various districts of Punjab.

It was observed that OFWM training team was providing the best training environment, a good learning process and facilities were excellent Mr. Asif Kakar appreciated these.

Feedback from the farmers was outstanding and they were looking forward to this kind of training for their capacity building at the nearest places to their residential districts.

Visit to Pre-Cast Parabolic Segment Yard

Date of Visit	18-10-2022
Name of Yard	Al Wahab Engineering Works
Name of Owner	Engr. Jawad A. Javed
Year of Yard Established	2020
Tehsil	Lahore City
District	Lahore

Daily Segment Producing Capacity (No.)	180
Annually Segment Production Capacity (No.)	40000
Employment Generation No.	20
	
Yard Engineers briefing on the quality of PCPs	

The NPC showed interest in preparation of the segment and enquired about the quality. Team Leader NWM Consultants Dr. Ali Raza consultants responded about the quality.

Deputy Team Leader ME&IE Consultants asked about the backward linkages of the yard, the owner of the yard Eng. Mr. Jawad A. Javed explained the inputs linkages and related these to the various economic activities.

Activities of KP 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

S.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 table of data validation by DTL KP Zone Peshawar

S. #	Name	Water Course				Water Storage Tank				G. 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	Mehmood-ul Hasan	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

S. #	Name	Water Course				Water Storage Tank				G. Total
		MT-1	MT-3	MT-4	MT-5	MT-1	MT-2	MT-3	MT-4	
	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