



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

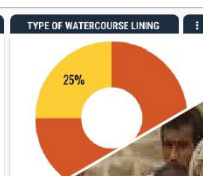
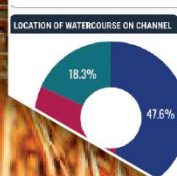
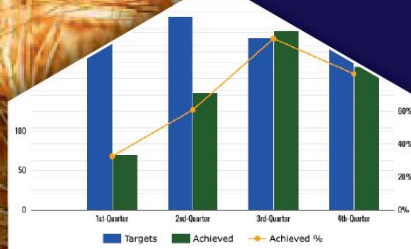
NATIONAL PROGRAM FOR IMPROVEMENT OF WATERCOURSES IN PAKISTAN PHASE-II: (NPIWC-II)

MONITORING, EVALUATION AND IMPACT EVALUATION CONSULTANTS



MONTHLY MONITORING REPORT

MAY 2024



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



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

MAY 2024

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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
FFFMS	Framework for Federal Financial Management System
FOs	Farmers Organizations
FPMU	Federal Project Management Unit
FTI	Field Team In charge
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
IAAs	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 and Evaluation Report for May 2024” 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), Baluchistan 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 on the objectives and scope of work of the ME&IE Consultants for the project. The ME&IE Consultants are going to monitor the implementation of all criteria set, procedures defined, and timeline agreed for implementation of various components. All these are reproduced in this report as a 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 the purpose of the Monthly Monitoring Report (MMR). The current MMR covers the period from 1st May 2024 to 31st May 2024.

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

- Regular Monitoring of the Interventions in the Field
- Baseline & Endline Impact survey field visits
- Data entry, Data cleaning, Data processing & data analysis.
- Monitoring of online data collection and Data entry.
- Data collection of interventions in MIS/GIS database.
- Submitted the MMR for April 2024.
- Submitted the QM&ER for Jan-March 2024.
- Meetings of ME&IE Consultants with the respective Stakeholders about Project Progress / Issues in hand and its prospects.

Chapter-4 highlights the quarterly work plan for the period of 1st April 2024 to 30th June 2024. The work plan consists of the following activities:

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

The detailed time for the 4th quarter of year 2023-2024 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 1: Compliance Status of Tentative Work Plan during the Reporting Period

No.	Activities Planned for the Reporting Quarter		Status	
1	Pre-Field Activities			
	1.1	Refresher Training of Field Staff for Baseline Survey & End Line Impact Survey	Completed	
2	Field Activities:			
	2.1	Regular Monitoring of Interventions in the field	In Progress	
	2.2	Data collection of the interventions in the field	In Progress	
	2.3	Baseline & Endline Impact survey Fild visits	In Progress	
	2.4	Online data entry in android-based application	In Progress	
3	ICT Assignment:			
	3.1	Improvement of website of NPIWC-II	Accomplished	
	3.2	Monitoring online data collection and Data entry	In Progress	
	3.3	Monitoring Android based Mobile Application under implementation by field staff.	In Progress	
	3.4	Data collection of interventions in MIS/GIS database	In Progress	
	3.5	Capacity Building Trainings / Refresher of Departments	In Progress	
	3.6	Data Cleaning.	In Progress	
4	Coordination			
	4.1	Meetings of TL, ME&IE Consultants with NPC regarding Project Progress / Issues	Meetings conducted regularly	
	4.2	Meeting of DTLs with respective DTL of NWMC	Meetings conducted regularly	
	4.3	Internal Meetings of ME&IE Consultants	Weekly meetings conducted on regular basis	
5	Deliverables:			
	5.1	Monthly Monitoring Reports (MMRs)	39 th MMR (Mar 2024)	Submitted
			40 th MMR (Apr 2024)	Submitted
			41 st MMR (May 2024)	Report in Hand
	5.2	Quarterly Monitoring & Evaluation Report (QM&ER)	QM&ER Jan-Mar 2024	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 Baluchistan
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 07, 2020

1.2 PROJECT DESCRIPTION

Project description includes the following i.e., 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

The following are the project's general and quantitative:

1) General Objectives:

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

- i) Social mobilization through capacity building of WUAs/ FOs,
- ii) Minimization of conveyance and field application losses,
- iii) Reduction in Water Logging and salinity,
- iv) Equity in water distribution,
- v) Reduction in water disputes/thefts/litigation,
- vi) Motivation/participation of farmers,
- vii) Poverty reduction through employment generation, and
- viii) Increase in crop yield/self-sufficiency in food.

2) Quantitative Objectives' Outputs and Impacts:

The quantitative objectives' outputs and impacts of the Project are as under:

Project outputs

- i) Mobilization through capacity building of Water Users Associations/Farmers Organizations in improved water management techniques and their registration under On-Farm Water Management and Water User Associations Ordinance [Act] 1981 and organization of 47,278 WUAs.
- ii) Reconstruction/renovation and remodeling of 47,278 watercourses, involving complete earthen renovation, partial lining of critical reaches (50% of the total watercourse length as decided in the high-level meeting), and installation of water control structures. It is expected to save around 5.82 MAF per annum (approx. saving of 123 acre-feet (AF) per watercourse per annum).
- iii) Construction of 14,932 water storage tanks

with a 60% subsidy through cost-sharing arrangements with the expectation to save about 50% of irrigation water for wheat and about 68% of irrigation water for paddy crops.

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 the generation of employment.
- vii) Self-sufficiency in food through water-saving, including 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 farmers for optimal utilization of water resources in the shape of technical manuals and operational guidelines.

1.2.3 Project Beneficiaries

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

Taking family size at five, the 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 a community-driven implementation approach. Following are the scope of WUAs:

- i) Provide a right of way for constructing a 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 by 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.

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 canals and rainfall runoff water for its more expedient use subsequently,
- iii) Collect, store and filter water from:
- Small Dams, springs, streams, nullahs, 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 the provision of LLL Units to farmers/service providers at 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**. The targets for each Province / Zone (excluding Sindh) are presented in **Figure-1.2**.

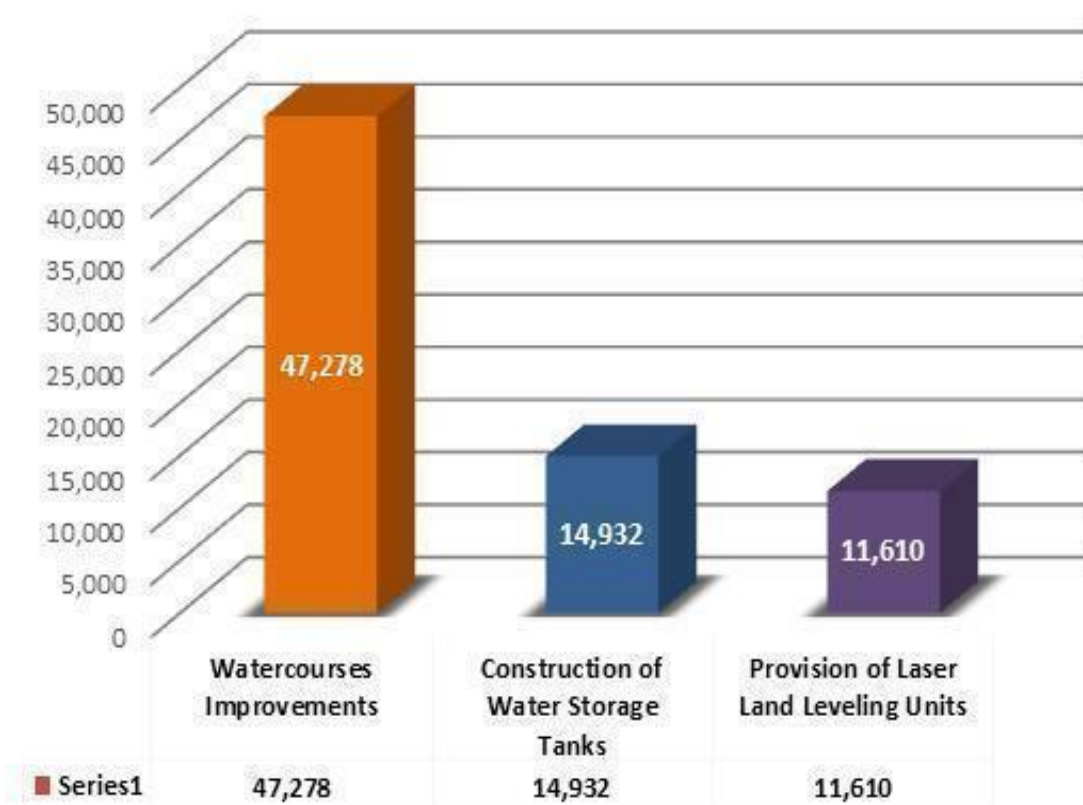


Figure 1.1: NPIWC-II Project WCs, WSTs, and LLL Targets in Pakistan

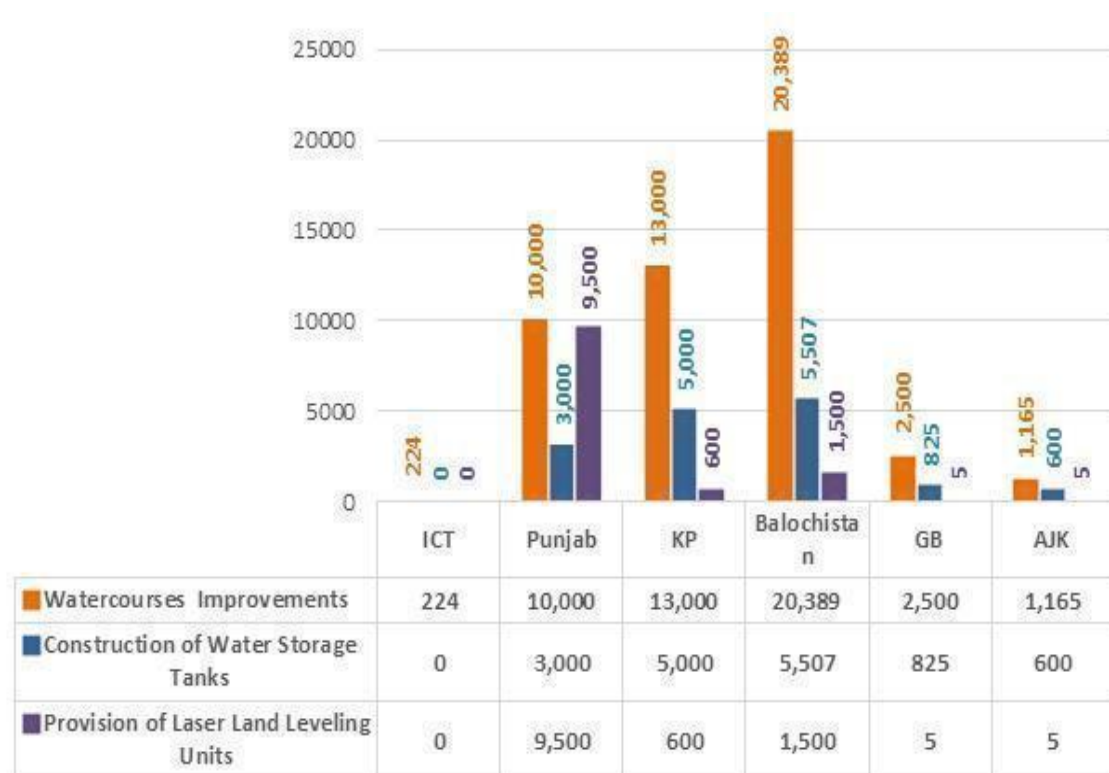


Figure 1 2: Zone-Wise WCs Improvement, WSTs, and LLL Target

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 a "Geographical Information System" (GIS) focused on 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 the ME&IE Consultants' services is to carry out M&E of project impacts to ensure the 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 end-line surveys for the project activities/interventions in all the project areas,
- ii. Develop monitoring strategy, framework, and Result-Based Monitoring (RBM) indicators,
- iii. Preparation of monthly, quarterly, and annual monitoring, evaluation, and validation reports of the project activities,
- iv. Assessing the water saving per annum on watercourses, water storage tanks, and field levels as well as aggregate due to the project interventions,
- v. Assessing the improvement in water availability due to the provision of conveyance system,
- vi. Assessing the economic benefits to agriculture in terms of changes in yields, irrigated area, cropping pattern, cropping intensity, farm income, and employment in command area of watercourses and water storage tanks,
- vii. Assessing the extent of community mobilization, financial and administrative sustainability of water users' associations, and

- ensuring the maintenance of watercourses, water storage tanks, and laser land Levelers,
- viii. The 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 Levelers database, etc. (while the project's IT staff will maintain the website),
- xi. Provide technical support for the development of a custom-designed mobile application (Android-based) to capture on-site project progress and geo-tagged photos. It should be synchronized with the central MIS/GIS database and application for instant reporting and feedback to the management.

The said requirement is based on the following functional features:

- Development of a GIS database with all spatial layers related to activities being undertaken under the project
- Give technical assistance for up-dation/up-gradation of water management GIS database.
- Development of web-based GIS application as a dashboard interface for comprehensive representation of all spatial and tabular information: custom-designed web GIS application be developed for large LED screens, should be self-operative and represent project data on multiple layouts of an application interface.
- Development of an 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.
- The application should generate custom-designed reports and analyses as per user-defined requirements.
- The application should generate alerts (SMS, email, web notifications) to the user on the non-conformance of the project's key indicators; the application should have the provision to custom define alert levels and desired notifications.

2.3 MONITORING STRATEGY OF CONSULTANTS

The monitoring strategy planned to be followed by ME&IE Consultants is briefly described in **Table-2.2**.

However, detailed methodology and procedures to

carry out the ME&IE of the project interventions were explained in Chapter 6 of the Inception Report.

Table 2.2: Monitoring Strategy for ME&IE Activities

Sr. No.	Monitoring Activity	ME&IE Team Responsible	Monitoring Strategy
1	Baseline, midline, and End line 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 a sample basis. Data will be collected by field teams on pre-designed data collection tools through an Android application on TABs. Baseline and impact surveys will be carried out in phases as target watercourses are not pre-selected. Baseline will be carried out before launching the interventions and the impact one year (two crop seasons) after the completion of the intervention. The midterm study will review the project progress in the middle of the project implementation. The end line 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 the 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, End line Report at the end of end line Survey, Draft Assignment Completion Report at completion of the physical works, Final Assignment Completion Report at completion of works and financial transactions. It will also include the full economic benefit of the project (NPIWC-II) on the agriculture sector as well as on the GDP of Pakistan, Special Reports, as and when asked by the client.
3	Water saving assessment	Irrigation Agronomist, Field Team/Engineers	<p>Water Saving on Watercourses:</p> <ul style="list-style-type: none"> Water flow will be measured on sample watercourses selected for the baseline and impact surveys The flow will be measured at four points of the selected watercourses: close to water outlet, head reach, middle reach and tail reach. The measurements will be done through current meters.

Sr. No.	Monitoring Activity	ME&IE Team Responsible	Monitoring Strategy
			<ul style="list-style-type: none"> Based on water savings on sample watercourses, total water savings will be estimated for all project watercourses. The savings will be reported per watercourse, per annum, and aggregate for the project in LPS and Acre feet.
			<p>Water Savings on WSTs</p> <ul style="list-style-type: none"> Since WSTs will be filled and emptied continuously, the water savings will be assessed based on 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 The difference will be water saving due to laser land leveling
			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 surveys same forms will be used and the 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 agriculture.
6	Impact evaluation-on the economy	Team Leader, Agricultural Economist and Socio-Economic	<ul style="list-style-type: none"> The results of the baseline and impact surveys will be used to quantify the impact on the economy Additional food produced due to the project will be estimated. It is benefitted towards food security

Sr. No.	Monitoring Activity	ME&IE Team Responsible	Monitoring Strategy
		Expert	<ul style="list-style-type: none"> Project costs and benefits will be compared in economic and financial terms to carry out economic and financial analysis. Parameters like IRR, NPV, and BCR will be estimated.
7	Impact evaluation on the stakeholders	Team Leader, Agricultural Economist, and Socio-Economic Expert	Analysis as in serial 6 will be carried out concerning 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 quality of construction, material, functioning, and beneficiaries' satisfaction, etc.
9	Process monitoring	Field Teams of Agriculture Dept., 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 Costumed 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. The Consultants also carried out different in-house activities related to ME&IE assignment:

3.1 SUBMISSION OF MONTHLY MONITORING REPORT (MMR)

As per contractual obligation, the consultants have submitted fortieth MMR (April 2024). While the forty first MMR (the Report in hand) for May 2024 (1st May 2024 to 31st May 2024) is being submitted.

The Monthly Monitoring Report (MMR) explains the understanding of all activities to be carried out as per TORs of ME&IE consultants' assignment and their completion within the 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. Spot checking, baseline and Impact survey, ICT assignments including monitoring of online data collection in the field, and development / improvement of project's dashboard & website, etc. Consultants of the ICT Team also remained in contact with Clients' officials to enter data in the Dashboard and provided assistance when and where was required by the client. All the activities of the current month complied 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 ACTIVITIES OF ICT UNIT – MAY 2024

A summary of the noteworthy activities that ME&IE consultants of ICT- Unit, National Office Islamabad monitored and evaluated during the month of May 2024. The detailed deliberations are presented as follows:

- The Muzaffarabad, Neelum, and Haveli districts of AJK were visited to conduct Baseline-III, Endline Impact Evaluation, regular monitoring, and spot checks. The activities included two WST schemes in Muzaffarabad District, one watercourse and two WST schemes in Haveli District, and two watercourse schemes in Neelum District of AJK.
- Participated in the training sessions on android based app in respect of filling of Monitoring Tools

(questionnaire) regarding baseline, impact and monitoring of the Project interventions.

- Data cleaning, Data processing & data analysis.
- Submitted the deliverable report, MMR for the month of April-2024 after editing, verifying, and processing through the respective stakeholders.
- Admin and Financial liabilities were supervised by the Team Leader and Deputy Team Leader of the ICT-Unit as well as National Office at Islamabad.
- Participated in the National dialogue of "Pakistan Development Summit" arranged by the MoP&D, Islamabad.
- Participated and contributed in a capacity building of 04 days training workshop arranged by 'Federal Project Management Unit, Ministry of National Food Security & Research'.

3.2.1 Overall Progress:

The ongoing monitoring of the project aims to conduct regular monitoring in AJK, ICT zone as well as remaining field visits of baseline and Endline impact assessments. To date, ME & IE consultants' ICT zone have successfully covered overall up to 17% Sample of the targeted population in ICT – Zone that constituted 5% sample in each district of AJK as well as Punjab Barani zones. The ICT-Unit consultants are focusing on the remaining districts of Azad Jammu and Kashmir (AJK) to ensure the comprehensive coverage while maintaining at least 5% sample size of the targeted sampling frame.

Updated Achievements:

Baseline and Impact Assessments completed in all designated districts by achieving a 5% target from the stipulated sampling frame. Regular Monitoring Visits were consistently conducted as per the informed and shared schedule with the cooperating departments as well as the beneficiaries.

From inception to date, the ME&IE Consultants ICT field team conducted baseline vis-a' vis impact surveys of **46** watercourses in AJK (39) & ICT (7) as well as baseline vis-a'-vis impact surveys of **22** water storage tanks in AJK and **19** in Potohar region of Punjab Zone. The details about those schemes have already been presented in the tabular and graphic forms in the previous MMRs.

Data Collection:

Quality data and allied information were collected from all sampled districts of the project area, ensuring valid and reliable information to realize the

impact assessments based on the respective baselines.

Future Focus:

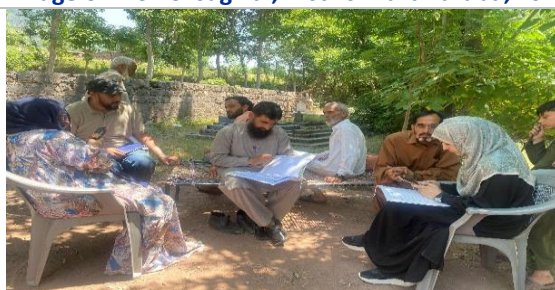
The future focus of the ME&IE consultants will be to bridge the gap that existed in the past surveys by overcoming at least 5% sample size from the targeted sampled schemes to carry out the baseline & impact assessment and regular monitoring activities in the targeted districts of AJK.

3.2.2 Field Visits to AJK

Date of Visit:	27-05-2024
Scheme:	Water Storage Tank
WUA Chairman Name:	Ehtesham Yagub
Name of village:	Jagwal
District :	Muzaffarabad
Union council	Thotha Langrpura
Source of irrigation:	Spring
Shape of WST	Square
Length,width	14X14 Sq feet
Command area of WSP	13 Acres
No of beneficiaries:	11
Reduction in water disputes/thefts	<i>No problems related to water theft</i>



Image of WST of Jagwal, Distric Muzaffarabd, AJK



ME&IE field team with beneficiaries, collecting data on Android app

The ME&IE consultants' field team visited AJK to conduct regular monitoring surveys as well as the remaining baseline-III, and impact assessment respectively. The ICT field team visited three

districts, i.e. Muzaffarabad, Haveli and Neelum Valley during the current period of MMR.

WST Jagwal

The water storage tank Jagwal monitored and observed to be well maintained. The field team monitored WST which was filled with water thus no leakage / damage found anywhere. In Total, 11 farmers' land was getting benefitted through this intervention. Before the intervention, only few crops were cultivated by most of the farmers and the minimum yield of the crops were also harvested however, after this intervention number of cultivated crops increased i.e., increase in cultivation of seasonal vegetables, also increase in yield found in wheat and maize crops. There was no impact observed on the change in acreage, however, before the intervention most of the cultivable land was not been used for cultivation due to shortage of irrigation water but after the construction of the WST enough water was available for cultivating the crops.

During the field team visit, meticulous observations were made regarding the structural integrity, water quality, and operational efficiency of the WST.

Moreover, the impact survey yielded the tangible benefits derived from the water storage tank, such as increased access to clean water, improved agricultural productivity, and enhanced community resilience to water-related challenges. Through interviews and data collection, the report elucidates the transformative effects of the tank on cultivable land. According to the beneficiaries, the WST intervention facilitated in supplying a reliable and consistent flow of water, ensuring communities have the access to clean water even during dry spells or water scarcity periods.

Farmers were using water from storage tanks for irrigation, thereby fetching improved crop yields, sustaining livestock rearing leading to supporting agricultural livelihoods. With access to reliable water sources, farmers can now diversify their crops by cultivating a wider range of multiple crops during the crop calendar in a year. This can also lead to increased income opportunities and food security for farming households.

WST in Lower Subri

Inspected the physical condition of the tank, including monitoring of its walls, base, and any associated infrastructure such as pipelines or valves; thus, the monitoring team ensured that there was

no signs of damage or deterioration that could compromise its functionality.

Before the onset of the project's intervention due to the improper irrigation system status, farmers were constrained to a specific cropping cycle, cultivating only limited crops with conventional varieties and very limited diversification of crops being cultivated. Off-season cropping was impractical due to lack of technological knowhow as well as access, resulting in underutilization of agricultural land resources that lead to yield minimum economic opportunities.

Farmers reported a significant increase in crop productivity after the construction of the water storage tank. This intervention ensured reliable access of water for irrigating the crops. Moreover, they have been able to cultivate different seasonal crops throughout the year, leading to higher yields and improved water profitability.

The availability of water from the storage tank has facilitated to the beneficiaries in crop diversification. Many farmers have adopted new crop varieties leading to more revenue generation and sustainable in arresting food security agricultural system. The use of water from the storage tank for irrigation has contributed to improved crop quality and marketable surplus by ensuring the sure supply of water at the critical crop growth stages. After the adoption of the WST intervention the Farmers have reported that they are harvesting good crops with fewer instances of wilting or stunted growth and shriveled seed leading to fetching better prices upon access to water from the storage tank has empowered farmers economically by increasing their incomes and reducing dependency on intermittent rainfall patterns. Consequently, many farmers have been able to invest in farm inputs, farm machinery and equipment, and adoption of other good agricultural practices leading to improved standards of living.

WC Dhaki Nalla to Muhallah Ziyarat Karka

ME&IE field team visited the project area, interviews were taken from 6 beneficiaries comprises of 2 each from head, middle and tail of the sampled WC schemes.

The WC was monitored by the monitoring team, length of the WC was measured and it was according to the sanctioned lining length. The WC was well maintained in terms of operations and management. The water in the WC was clean and was in flowing smoothly. The irrigation water source of the WC is Nalla.

Before the WC intervention, the farmers has difficulty in irrigating their crop lands as there was no proper system of irrigation as the area is hilly and they had to hardly manage to irrigate the crops.

After lining of the WC improvement, the farmers have the opportunity to irrigate the crops properly.

Farmers reported a significant increase in crop production since the improvement of the WC. As a result of reliable access to water for irrigation of the crops, the farmers have been able to cultivate seasonal crops consecutively, leading to higher crop yields with quality grains that fetched them higher marketing margins.

WUA Chairman Name:	Pervez Iqbal
Name of village:	Lower Subri
District :	Muzaffrabad
Union council	Chathardomeel
Source of irrigation:	Spring
Shape of WST	Square
Length,width	14X14 Sq.feet
Command area of WSP	10.625 Acres
No of beneficiaries	11
Reduction in water disputes/thefts	No problems related to water theft



Image of WST at Lower Subri



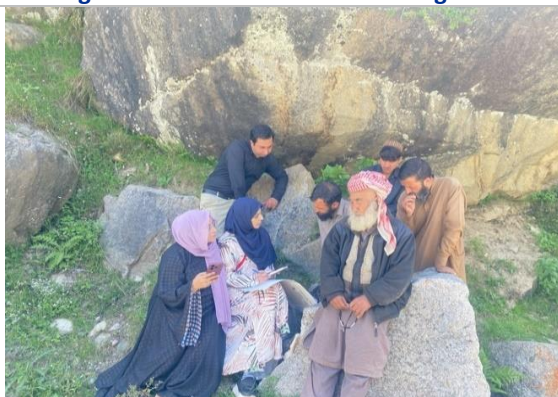
Field Team Monitoring of WST at Lower Subri

Date of Visit:	28-05-2024
Scheme:	Water course
WUA Chairman Name:	Mahyud din
Name of village:	Dhaki Nalla to Muhalla Ziyarat Karka

District:	Neelum
Union council	Athmuqam
Source of irrigation:	Nalla
Type of WC	Rectangular
Command area of WC	69 Acres
No of beneficiaries:	20



Image of WC in District Neelum village Karka



Field team taking Interviews of the beneficiaries



Field team monitoring the length of the WC at District Neelum

Date of Visit:	28-05-2024
Scheme:	Water course
WUA Chairman Name:	Nisaar Hussain
Name of village:	Salkhala
District:	Neelum
Union council:	Athmuqam

Source of irrigation:	Nalla
Type of WC:	Rectangular
Command area of WC	40 Acres
No of beneficiaries:	20



Image of Watercourse at village Salkhala



Standing Wheat crop at District Neelum Village Salkhala



Field team with OFWM staff at WC, Salkhala, AJK

WC in Nalla Salkhala to Darbagu

ME&IE field team visited the sampled area of the project; interviews were taken from 6 beneficiaries represented 2 each from head, middle and tail of the WC.

The WC was monitored by the monitoring team, length of the WC was measured and it was observed according to the sanctioned lining length. The WC was well maintained through following the standard O&M protocols. The water flow in the WC was

smooth with good quality status. The irrigation water source of the WC is Nalla.

Before the intervention of WC, the farmers were facing difficulty in irrigating their crop lands as there was no proper system of irrigation as the area is hilly and they had to hardly manage to irrigate the respective crops.

After lining of the WC improvement, the farmers were satisfied since they can irrigate the crops properly.

Farmers reported a significant increase in crop production after the construction of the water storage tank. Having reliable access to water for irrigating their crops, they have been able to cultivate crops throughout the year, leading to higher yields and improved profitability.

Farmers reported good crops with lesser probability of crop failure due to wilting or stunted growth, leading by fetching better prices at markets.

Access to water from the storage tank has provided good opportunity to the farmers in earning increased crop produce incomes and also facilitated in reducing exclusive dependency on rainfall water. Consequently, farmers have been able to invest more in farm inputs, equipment/ tools, and other good agricultural practices leading to yielding higher income from the crops, a catalyst towards improved standards of living amongst the beneficiaries.

Moreover, increase in crop production along with addition in number of cultivating crops was reported by the beneficiaries to the monitoring field consultants.

On 29th May 2024, the field team visited one Watercourse and 2 WST schemes in the Haveli district of AJK for Baseline and Impact surveys.

3.2.3 ME&IE consultants Meetings and Trainings:

Meeting and lecturing to the trainees on May 23, 2024 about monitoring and evaluation (M&E) of the Project, NPIWC-II was a dynamic and insightful experience. Project, NPIWC-II, a critical initiative aimed at improving community infrastructure and welfare, requires meticulous tracking and assessment to ensure its success and sustainability. The session began with an introduction to the fundamental concepts of monitoring and evaluation, emphasizing their importance in project management. Dr. Usman Mustafa, Team Leader of the NPIWC-II, Project explained that monitoring involves the ongoing collection and analysis of data to ensure that the project activities are being

implemented as against planned. This includes tracking progress, identifying any deviations, and making necessary adjustments to stay on predetermined course of activities. Evaluation, on the other hand, is the systematic assessment of a project's design, implementation and outcomes against the stipulated targets and time frame. It aims at to determine the relevance, efficiency, effectiveness, impact, and sustainability of the project.



ME&IE Consultants Lecturing to the trainees

IN PAKISTAN DEVELOPMENT SUMMIT

Dr. Ikram Saeed, Deputy Team Leader, ICT-Zone, National Office, Islamabad accompanied with Dr. Usman Mustafa, Team Leader, NPIWC-II Project for the participation in Pakistan Development Summit. It was held on 15th May 2024 at Pak-China Friendship Centre, Islamabad and hosted by the Ministry of Planning Development & Special Initiatives. The main goal of this summit was hovering around 5Es. Whereas, 5Es are spelled out as under:

1. **Exports:** enterprise (s) & employment;
2. **Equity:** ethics & empowerment;
3. **Energy:** affordable & efficient;
4. **Environment:** water & food security; and
5. **E-Pakistan:** empowering youth

The deliberations on the above topics were carried out during whole day. The participants of this summit were representing the public and private organizations of the country. In brief, the Federal Minister of Planning Development and Special Initiatives, Prof. Ahsan Iqbal concluded that the success of any development plan is highly correlated with the following four pre-requisites:

- 1) Peace;
- 2) Political stability;
- 3) Continuity of policy; and 4) Continuous reforms.



Theme of Pakistan Development Summit

Date	28-05-2024
Venue	Department of Irrigation and Small Dams, AJK.

Participants

- Mr. Ajaz Hussain Khawaja, Director General, Irrigation & Small Dams, AJK.
- Mr. M. Awais, Assistant Director, District Neelum, Irrigation & Small Dams, AJK.
- Mr. Rasheed Ahmed Zehri, FTI, ICT- Unit, Islamabad.
- Ms. Sana Gull, ME&IE Officer, ICT-Unit.
- Ms. Hafiza Maryam, ME&IE Officer ICT-Unit.

Meeting Agenda/Points discussed:

- Summarizing the ongoing activities of the NPIWC-II, Project.
- Areas to be visited for remaining baseline-III, impact and regular monitoring surveys.
- Discussed about the expected impacts on the project areas as well as beneficiaries after launching the interventions.



ME&IE Consultants with DG, Dept of Irrigation and Small Dams, Muzaffarabad, AJK

3.3 ACTIVITIES OF PUNJAB ZONE – MAY 2024

During the month of May 2024, impact field visits of LLLs were carried out by the ME&IE consultants field teams. The field teams also coordinated with OFWM Field Staff and other stakeholders in the project. The consultants performed the following activities:

- Pre – Field Activities
- Field activities
- Post Field Activities
- Meeting with Stakeholders/Beneficiaries

3.3.1 Pre-Field Activities

Deputy team leader held several meetings with the field team members to review and scrutinize the accumulated data collected from the field and target for the current survey of baseline/ impact and monitoring of the project interventions, viz., water courses, water storage tanks/ ponds and provision.

Before starting the LLLs Field Activities, ICT Department, Mr. Shumail Provided Comprehensive Refresher course / Updated the ODK working system, it provided in-depth knowledge to the field team. The DTL and AE held meetings with Field teams in this regard.



Planning Meeting held at the Zonal office in Lahore

They Initiated field Visits Immediately without any further delay they provided a complete rather comprehensive lecture on the upcoming field survey. DTL provided in-depth knowledge starting from sampling methodology, data collection instruments, use of the Android-based system, and other ICT technologies.

The participants were fully satisfied. Toward the end of the training session, it is emphasized that the field team should highlight the Positive aspects of the project in upcoming Reports and Videos based on reality.

Keeping in view the hot weather conditions and available financial resources it was decided to confine the current field survey to the provision of laser land levelers intervention, in line the following strategy was developed for the upcoming survey.

The monitoring / Field survey pertained to the provision of laser land levelers during the month under review. The data collection activities for this intervention were carried out by two field teams under the supervision and guidance of the deputy team leader Punjab zone Lahore.

The field activities were carried out as per the assigned targets. The field task was assigned to two teams. The composition of two teams along with the target was as under:

FIELD TEAM COMPOSITION

Team-1

1	Dr. Muhammad Abdul Quddus	(AE)
2	Awais Jahangir	(FTI)
3	Mr. Umer Farooq Hammad	(FO)
4	Mr. Bilal Sohail	(FO)
5	Mr. Abdul Rauf Saad	(FO)

Team-2

1	Muhammad Rizwan Suleman	(FTI)
2	Mr. Sohail Ahmad	(FO)
3	Mr. Irfan Qamar	(FO)

Both teams were assigned target for the purpose of Monitoring / evaluation as under:

TARGETS OF PLL ME&IE CONSULTANTS CURRENT SURVEY.

Sr. #	Team #	Ecological Zone	District	Target
1	1	Irrigated (Rice Zone)	Lahore	5
			Kasur	6
			Narowal	7
Sub Total				18
2	2	Irrigated (Mixed Zone)	Pakpattan	9
			Jhang	7
			Chiniot	8
3		Irrigated (Cotton Zone)	Layyah	8
Sub Total				32
Total				50

3.3.2 Field Activities

- 4 From inception to the reporting month, the ME&IE Consultants' Punjab field team conducted baseline vis-a' vis impact surveys on a total of **250** watercourses. In addition, they completed baseline and impact surveys for **80** water storage tanks (**61** by Punjab field team and **19** of Potohar Region by ICT Field team) and conducted impact assessments on **219** PLL interventions.

The following field visits were made in connection with the monitoring and collection of data relevant to land leveler usage from 26th May 2024 to 31st May 2024. The achievements of field teams were as under.

Sr. #	Team #	Ecological Zone	District	Target	Achievement
1	1	Irrigated (Rice Zone)	Lahore	5	6
			Kasur	6	6
			Narowal	7	7
Sub Total				18	19
2	2	Irrigated (Mixed Zone)	Pakpattan	9	11
			Jhang	7	11
			Chiniot	8	15
3		Irrigated (Cotton Zone)	Layyah	8	15
Sub Total				32	52
Total				50	71

Team 1

Scheme 1.

Name of Service Provider	Liaqat Ali Khan
Father Name	Mooj khan
Tehsil & District	Lahore
Address	Kala Nawa, Manga Mandi
Area Owned Levelled	4.5 Acres
Others Land Levelled	400 Acres



Agri Economist Interviewing the service provider

Scheme 2.

Name of Service Provider	Abid Abbass
Father Name	Ghulam Shabir
Tehsil & District	Lahore
Address	Mohala Cha Raistian Wala Manga Hathar
Area Owned Levelled	5 Acres
Others Land Levelled	350 Acres



Interview in progress with the service provider

Scheme 3.

Name of Service Provider	Karamat Ali
Father Name	Muhammad Yasin
Tehsil & District	Lahore
Address	Jhugin Baloki Manga Hathar
Area Owned Levelled	7 Acres
Others Land Levelled	300 Acres



M&E Consultants interviewing the service provider

Scheme 4.

Name of Service Provider	Asghar Ali
Father Name	Inayat Ali
Tehsil & District	Lahore
Address	Jhugin Baloki Manga Hathar
Area Owned Levelled	2 Acres
Others Land Levelled	100 Acres



Interview in progress with the service provider

Scheme 5.

Name of Service Provider	Muhammad Boota
Father Name	Hassan Muhammad
Tehsil & District	Lahore
Address	Bath Lodhary

Area Owned Levelled	5 Acres
Others Land Levelled	200 Acres



M&E Consultants interviewing the PLL Beneficiary

Scheme 6.

Name of Service Provider	Faqeer Hussain
Father Name	Muhammad Ismail
Tehsil & District	Lahore
Address	Warah Abdullah Manga Hathar
Area Owned Levelled	4 Acres
Others Land Levelled	100 Acres



M&E Consultants interviewing the Beneficiary of PLL

Scheme 7.

Name of Service Provider	Faizullah
Father Name	Allah Bukhsh
Tehsil & District	Kasur
Address	Bediyan Kalan
Area Owned Levelled	12.5 Acres
Others Land Levelled	300 Acres



Beneficiary of PLL with M&E Consultants

Scheme 8.

Name of Service Provider	Naeem Ullah
Father Name	Rehmat Ullah
Tehsil & District	Kasur
Address	Mahalam Kalan
Area Owned Levelled	25 Acres
Others Land Levelled	50 Acres



Beneficiary of PLL with M&E Consultants

Scheme 9.

Name of Service Provider	Abdul Raoof
Father Name	Muhammad Abdullah
Tehsil & District	Kasur
Address	Ghanda Singh Wala
Area Owned Levelled	12 Acres
Others Land Levelled	100 Acres



Interviewing M&E Consultants to the service provider

Scheme 10.

Name of Service Provider	Muhammad Rasheed
Father Name	Sardar Sooba
Tehsil & District	Kasur
Address	Chor Pura
Area Owned Levelled	8 Acres
Others Land Levelled	300 Acres



Interview by M&E Constants in progress with the service provider

Scheme 11.

Name of Service Provider	Liaqat Ali
Father Name	Abdul Razzaq
Tehsil & District	Kasur
Address	Tolo Wala
Area Owned Levelled	4 Acres
Others Land Levelled	200 Acres



Beneficiary of PLL with M&E Consultants

Scheme 12.

Name of Service Provider	Muhammad Israel
Father Name	Khillu khan
Tehsil & District	Kasur
Address	Nand Ka Takia
Area Owned Levelled	15 Acres
Others Land Levelled	5 Acres



Interview by M&E Constants in progress with the service provider

Scheme 13.

Name of Service Provider	Khalid Mehmood
Father Name	Muhammad Tufail
Tehsil & District	Narowal
Address	Mahees Booby Walo
Area Owned Levelled	8 Acres
Others Land Levelled	50 Acres



Service provider with M&E Consultant

Scheme 14.

Name of Service Provider	Muhammad Shabir
Father Name	Muhammad Ramzan
Tehsil & District	Narowal
Address	Bhatti Wali
Area Owned Levelled	3 Acres
Others Land Levelled	500 Acres



Service provider describing the Future of PLL

Scheme 15.

Name of Service Provider	Muhammad Arif
Father Name	Elam Din
Tehsil & District	Narowal
Address	Dhola
Area Owned Levelled	6 Acres
Others Land Levelled	90 Acres



Service provider with M&E Consultants

Scheme 16.

Name of Service Provider	Adil Hussain
Father Name	Riasat Ali
Tehsil & District	Narowal
Address	Dongian
Area Owned Levelled	5.5 Acres
Others Land Levelled	500 Acres



Interview service provider with M&E Consultants

Scheme 17.

Name of Service Provider	Abdul Majeed
Father Name	Chahat Khan
Tehsil & District	Narowal
Address	Dhamthal
Area Owned Levelled	10 Acres
Others Land Levelled	200 Acres



Interview in progress with the service provider

Scheme 18.

Name of Service Provider	Tanveer Ahmad
Father Name	Sardar
Tehsil & District	Narowal
Address	Maan
Area Owned Levelled	4 Acres
Others Land Levelled	100 Acres



Interview in progress with the service provider

Scheme 19.

Name of Service Provider	Nisar Ahmad
Father Name	Taj Din
Tehsil & District	Narowal
Address	Maan
Area Owned Levelled	6 Acres
Others Land Levelled	200 Acres



Interview in progress with the service provider

Team 02

Scheme 1.

Name of Service Provider	Faiz Ahmad
Father Name	Muhammad Fazal
Tehsil & District	Pakpattan
Address	Village 41/SP
Area Owned Levelled	8 Acres
Others Land Levelled	350 Acres



A Group photo of M&E Consultants with service provider

Scheme 2.

Name of Service Provider	Mushtaq Ahmad
Father Name	Muhammad Chirag
Tehsil & District	Pakpattan
Address	Tina Sher kot
Area Owned Levelled	1.25 Acres
Others Land Levelled	Acres



A View of Data Collection on ODK from Service provider at Site

Scheme 3.

Name of Service Provider	Qutab sattar
Father Name	Muhammad Jamal
Tehsil & District	Pakpattan
Address	Pakpattan
Area Owned Levelled	6 Acres
Others Land Levelled	400 Acres



A Glimpse of Site Visit of Field Team with the beneficiary of the PLL unit

Scheme 4.

Name of Service Provider	Hafiz Mahtab Ahmad
Father Name	Mushqat Ahmad
Tehsil & District	Arifwala & Pakpattan
Address	Chak Okana
Area Owned Levelled	11 Acres
Others Land Levelled	250 Acres



A View of Monitoring of PLL at Site

Scheme 5.

Name of Service Provider	Hafiz Talib Hussain
Father Name	Faiz Ahmad
Tehsil & District	Pakpattan
Address	Ferozpur Chistian
Area Owned Levelled	12 Acres
Others Land Levelled	300 Acres



Inspection of PLL with the service provider

Scheme 6.

Name of Service Provider	Muhammad Younas
Father Name	Anayat Muhammad
Tehsil & District	Pakpattan
Address	Chak Opana
Area Owned Levelled	12.5 Acres
Others Land Levelled	300 Acres



Service provider Sharing his views about PLL

Scheme 7.

Name of Service Provider	Muneer Ahmad Chishti
Father Name	Nazar Muhammad
Tehsil & District	Pakpattan
Address	Nabwal
Area Owned Levelled	12.5 Acres
Others Land Levelled	350 Acres



Interviewing Beneficiary by the Team of M&E Consultants

Scheme 8.

Name of Service Provider	Zakar Hussain
Father Name	Muhammad Iqbal
Tehsil & District	Pakpattan
Address	Basit Ghulam Fareed
Area Owned Levelled	11 Acres
Others Land Levelled	90 Acres



Service provider sharing his Consent about the benefits of PLL

Scheme 9.

Name of Service Provider	Rashid Rasheed
Father Name	Rasheed Ahmad
Tehsil & District	Pakpattan
Address	Chak No. 40/SP
Area Owned Levelled	11 Acres
Others Land Levelled	65 Acres



A view of Visit to PLL unit by M&E Consultants along with Service Provider

Scheme 10.

Name of Service Provider	Abid Hussain
Father Name	Muhammad Din
Tehsil & District	Pakpattan
Address	Kani Pur
Area Owned Levelled	20 Acres
Others Land Levelled	400 Acres



View of PLL unit at the sitewith Service provider

Scheme 11.

Name of Service Provider	Ghulam Shabbir
Father Name	Mehar Faqeer Muhammad
Tehsil & District	Chaubara & Layyah
Address	Chak no 126/TDA
Area Owned Levelled	12.5 Acres
Others Land Levelled	400 Acres



A View of Service provider with the PLL unit

Scheme 12.

Name of Service Provider	Ghulam Jaffar
Father Name	Ghulam Hussain
Tehsil & District	Chaubara & Layyah
Address	Mouza Chah Siwaj-wala
Area Owned Levelled	8 Acres
Others Land Levelled	200 Acres



A Glimpse of data Collection from beneficiary of PLL

Scheme 13.

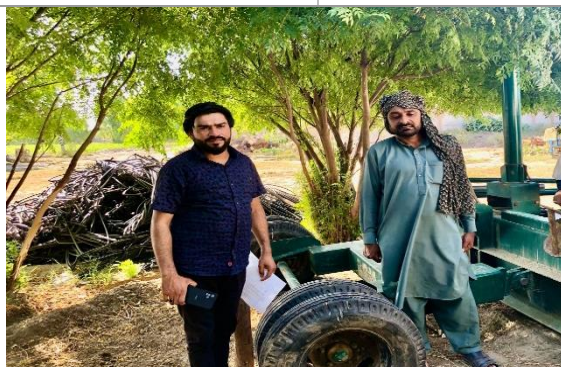
Name of Service Provider	Manzoor Hussain
Father Name	Waryam Khan
Tehsil & District	Chaubara & Layyah
Address	Mouza Nawan kot
Area Owned Levelled	250 Acres
Others Land Levelled	100 Acres



Service provider with the PLL unit along with Field Team

Scheme 14.

Name of Service Provider	Muhammad Imran
Father Name	Muhammad Ramzan
Tehsil & District	Chaubara & Layyah
Address	Chak No 275/TDA
Area Owned Levelled	10 Acres
Others Land Levelled	250 Acres



A view of PLL Unit with the service provider along with field Team

Scheme 15.

Name of Service Provider	Nasir Abbas Javed
Father Name	Lal Hussain Khan
Tehsil & District	Chaubara & Layyah
Address	-
Area Owned Levelled	250 Acres
Others Land Levelled	Nil



Beneficiary pictured with PLL along the field team

Scheme 16.

Name of Service Provider	Tariq Saeed
Father Name	Muhammad Saeed
Tehsil & District	Chaubara & Layyah
Address	Mouza Nawan Kot
Area Owned Levelled	5 Acres
Others Land Levelled	300 Acres



A View of Data Collection from Service provider along with OFWM officials

Scheme 17.

Name of Service Provider	Muhammad Asghar
Father Name	Malik Allah Baksh
Tehsil & District	Chaubara & Layyah
Address	Chaubara
Area Owned Levelled	5 Acres
Others Land Levelled	250 Acres



A view of M&E Team Conducting interview of Service provider

Scheme 18.

Name of Service Provider	Allah Ditta
Father Name	Ali Muhammad
Tehsil & District	Chaubara & Layyah
Address	Mouza Nawan Kot
Area Owned Levelled	5 Acres
Others Land Levelled	200 Acres



A Group Photo of Field Team while conducting interview of Service provider

Scheme 19.

Name of Service Provider	Muhammad Aslam
Father Name	Ghulam Akbar
Tehsil & District	Chaubara & Layyah
Address	Village 365/TDA
Area Owned Levelled	4 Acres
Others Land Levelled	300 Acres



A Glimpse of data Collection of field Team from Service provider

Scheme 20.

Name of Service Provider	Muhammad Amir
Father Name	Muhammad Ramzan
Tehsil & District	Chaubara & Layyah
Address	Chaubara & Layyah
Area Owned Levelled	12 Acres
Others Land Levelled	200 Acres



A view of PLL unit at Site

Scheme 21.

Name of Service Provider	Tahir Jameel
Father Name	Mubarik Ali
Tehsil & District	Chaubara & Layyah
Address	Chaubara
Area Owned Levelled	5.5 Acres
Others Land Levelled	600 Acres



Beneficiary pictured with PLL along the field team

Scheme 22.

Name of Service Provider	Muhammad Ashraf
Father Name	Muhammad Inayat
Tehsil & District	Chaubara & Layyah
Address	Village 444/TDA
Area Owned Levelled	10 Acres
Others Land Levelled	400 Acres



A view of Monitoring of PLL at Site

Scheme 23.

Name of Service Provider	Muhammad Tufail
Father Name	Noor Muhammad
Tehsil & District	Chaubara & Layyah
Address	Chak No. 314/Tda
Area Owned Levelled	6 Acres
Others Land Levelled	400 Acres



A discussion of M&E Team with beneficiary about the impact of PLL at his site

Scheme 24.

Name of Service Provider	Khizar Hayat Khan
Father Name	Haji Faiz Ullah Khan
Tehsil & District	Chaubara & Layyah
Address	Patti kavera
Area Owned Levelled	12.5 Acres
Others Land Levelled	Nil



A general discussion of M&E Team with service Provider of PLL impact at his site

Scheme 25.

Name of Service Provider	Muhammad Afzal
Father Name	Falak Sher
Tehsil & District	Chaubara & Layyah
Address	Village Pati kavera
Area Owned Levelled	12.5 Acres
Others Land Levelled	2000 Acres



The service provider giving interview to the field team

Scheme 26.

Name of Service Provider	Imtiaz Hanif
Father Name	Zulfqar Ahmed
Tehsil & District	Jhang
Address	Chak No. 450-Jb
Area Owned Levelled	12.5 Acres
Others Land Levelled	500 Acres



The service provider giving interview to the field team

Scheme 27.

Name of Service Provider	Ali Muhammad
Father Name	Ghulam Muhammad
Tehsil & District	Jhang
Address	-
Area Owned Levelled	8 Acres
Others Land Levelled	300 Acres



A general discussion of M&E Team with beneficiary of PLL at site about its Impact

Scheme 28.

Name of Service Provider	Muhammad Shafi
Father Name	Jeewan
Tehsil & District	Jhang
Address	Chah Kumhar Wala Balo Shahbal
Area Owned Levelled	6.75 Acres
Others Land Levelled	600 Acres



A Glimpse of Site Visit of M&E Team along With ADA OFWM Jhang for Monitoring of PLL

Scheme 29.

Name of Service Provider	Noor Muhammad
Father Name	Khan
Tehsil & District	Jhang
Address	Chak Kordyana Shomali
Area Owned Levelled	12 Acres
Others Land Levelled	75 Acres



A View of PLL Unit Site Visit by M&E Team

Scheme 30.

Name of Service Provider	Sarfaz Khan
Father Name	Muhammad Ameer
Tehsil & District	Jhang
Address	Chak Kordyana Shomali
Area Owned Levelled	8.5 Acres
Others Land Levelled	50 Acres



A Glimpse of data Collection of M&E Team from the PLL's beneficiary accompanying ADA. OFWM Jhang.

Scheme 31.

Name of Service Provider	Ghazanfar Ali Shah
Father Name	Haji Muhammad Ali
Tehsil & District	Jhang
Address	Moojdarya
Area Owned Levelled	12.5 Acres
Others Land Levelled	50 Acres



The Service provider giving interview regarding PLL

Scheme 32.

Name of Service Provider	Bilal Hussain
Father Name	Muhammad Ashraf
Tehsil & District	Jhang
Address	Mouza Nankana P/O Pakky Wala
Area Owned Levelled	1.5 Acres
Others Land Levelled	200 Acres



The service provider giving interview to the field team

Scheme 33.

Name of Service Provider	Nazar Abbas
Father Name	Lal
Tehsil & District	Jhang
Address	Chak No 449 J.B.
Area Owned Levelled	5 Acres
Others Land Levelled	300 Acres



The PLL unit at the site along with Service provider

Scheme 34.

Name of Service Provider	Muhammad Ameen
Father Name	Ali Bahader Khan
Tehsil & District	Jhang
Address	P/O Chak No. 715-Jb Chak No. 173-Jb
Area Owned Levelled	12.5 Acres
Others Land Levelled	500 Acres



The PLL unit at the site along with Service provider

Scheme 35.

Name of Service Provider	Abdul Ali
Father Name	Bashir Ahmad
Tehsil & District	Chiniot
Address	142/ JB
Area Owned Levelled	12.5 Acres
Others Land Levelled	200 Acres



M&E Consultants' Team along with ADA, OFWM Chiniot visiting the Service provider

Scheme 36.

Name of Service Provider	Riaz Ahmad
Father Name	Sher Muhammad
Tehsil & District	Chiniot
Address	Ahmad Abad
Area Owned Levelled	5 Acres
Others Land Levelled	100 Acres



A view of monitoring visit of PLL Unit with ADA, OFWM Chiniot along with Service provider

Scheme 37.

Name of Service Provider	Ijaz Hussain
Father Name	Riaz Hussain
Tehsil & District	Chiniot
Address	Rajoya
Area Owned Levelled	5.5 Acres
Others Land Levelled	200 Acres



General discussion of field Team with Service provider regarding Impact of PLL

Scheme 38.

Name of Service Provider	Shahid Imran
Father Name	Sikander Hayat
Tehsil & District	Chiniot
Address	Kot sher shah
Area Owned Levelled	4 Acres
Others Land Levelled	180 Acres



M&E Consultants along with ADA, OFWM visiting the Service provider

Scheme 39.

Name of Service Provider	Muhammad Ayub
Father Name	Gulzar Hussain
Tehsil & District	Chiniot
Address	Thata Thakar
Area Owned Levelled	12 Acres
Others Land Levelled	300 Acres



Field Team at PLL site accompanied with a female ADA, OFWM during the monitoring Visit

Scheme 40.

Name of Service Provider	Haq Nawaz
Father Name	Muhammad Mansha
Tehsil & District	Bawana and Chiniot
Address	249/JB Bawana
Area Owned Levelled	5 Acres
Others Land Levelled	250 Acres



The Service provider giving interview to the field team

Scheme 41.

Name of Service Provider	Thoba Khan
Father Name	Matal
Tehsil & District	Chiniot
Address	152/JB
Area Owned Levelled	10 Acres
Others Land Levelled	300 Acres



A view of PLL unit at the site along with Service provider

Scheme 42.

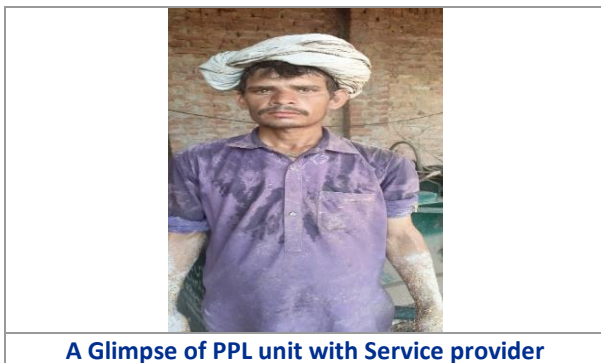
Name of Service Provider	Fazal Hussain Amir
Father Name	Shahadat Khan
Tehsil & District	Chiniot
Address	152/JB
Area Owned Levelled	8 Acres
Others Land Levelled	200 Acres



A Glimpse of Visit of M&E Team at PLL site along with a female, ADA OFWM, Chiniot

Scheme 43.

Name of Service Provider	Tariq Nawaz
Father Name	Muhammad Mansha
Tehsil & District	Chiniot
Address	145/JB
Area Owned Levelled	5 Acres
Others Land Levelled	200 Acres



A Glimpse of PPL unit with Service provider

Scheme 44.

Name of Service Provider	Muhammad Yousaf
Father Name	Gulzar Hussain
Tehsil & District	Chiniot
Address	Thata Thakar
Area Owned Levelled	12 Acres
Others Land Levelled	250 Acres



The PLL unit at the site along with Service provider and ADA, OFWM

Scheme 45.

Name of Service Provider	Sharafat Ali
Father Name	Allah Jiwaya
Tehsil & District	Chiniot
Address	Jhanb
Area Owned Levelled	25 Acres
Others Land Levelled	200 Acres



A Group photo of Service provider giving interview to the field team

Scheme 46.

Name of Service Provider	Sikander Hayat
Father Name	Sher Muhammad
Tehsil & District	Chiniot
Address	Kot Sher shah
Area Owned Levelled	8 Acres
Others Land Levelled	250 Acres



A Group photo of Service provider along with M&E team and ADA, OFWM, Chiniot

Scheme 47.

Name of Service Provider	Muhammad Riaz
Father Name	Sher Muhammad
Tehsil & District	Chiniot
Address	Guna Kalan, Tehsil Sialkot
Area Owned Levelled	9 acres
Others Land Levelled	100 acres



A Group photo of Service provider along with M&E team and ADA, OFWM, Chiniot

Scheme 48.

Name of Service Provider	Muhammad Ali
Father Name	Ahmad
Tehsil & District	Chiniot
Address	Thati Bala Raja
Area Owned Levelled	8 acres
Others Land Levelled	400 acres



A Anterior View of the Laser Unit at the site

Scheme 49.

Name of Service Provider	Gulzar Khan
Father Name	Mitha khan
Tehsil & District	Jhang
Address	Mauza Habib, Sarghoda Road
Area Owned Levelled	8 Acres
Others Land Levelled	200 Acres



A Group photo of Service provider along with M&E team and ADA, OFWM, Jhang

Scheme 50.

Name of Service Provider	Irshad Hussain
Father Name	Muhammad Shah
Tehsil & District	Jhang
Address	-
Area Owned Levelled	5 Acres
Others Land Levelled	500 Acres



A Posterior View of the Laser Unit at the site

Scheme 51.

Name of Service Provider	Muhammad Nawaz
Father Name	Farid Khan
Tehsil & District	Chiniot
Address	132/JB
Area Owned Levelled	8.5 Acres
Others Land Levelled	350 Acres



The service provider giving interview to the field team

Main Findings of Survey regarding Monitoring Evaluation of the Precision Land Leveling

The field teams of ME&IE Consultants have certain observations. While monitoring/evaluating the operations of the intervention in the field. The observation regarding the "Impact assessment" of the intervention was the results of "before" and "after" the use of the laser land leveler in the field or a comparison of "with use" and "without use" of the laser unit on a farm of a user.

The main findings regarding monitoring of the intervention are:

1. Majority of service providers have started to rent out the laser units to the neighboring farms for leveling of fields. The rate for leveling is charged per acre and per hour basis that varies depending upon the nature of the soil.
2. Most of the service providers for Laser Units keep no record for its usage. Majority of Farmers had no proper Logbook / record of renting lasers. For estimating the benefits of this intervention, they have to depend upon their recall memory.
3. It was also noticed that some Laser provider Companies were delaying the supply of laser units as per committed schedule to the farmers.
4. The service providers/farmers have certain complaints which need an immediate attention of the OFWM department.

The service providing companies of laser land levelers are only performing the roles of supplying laser units ignoring the role of providing repair / maintenance services and supply of spare parts.

For the purpose of maintenance / repairs, farmers have to travel long distances to avail such facilities by the concerned company.

The important observations regarding impact assessment are:

1. Reduction in water losses during the field application was significant after the use of a laser.

Time saving in irrigating the field before leveled and after leveled has been significantly found.

2. Reduction in labor utilization in sowing, cultural practices, irrigating fertilizers, harvesting has also been seen.

3. Easily sown and grown evenly seed distribution linked with other practices provides a noticeable push for increase in yield per acre of major crops. Due to laser land leveler practice that improves the uniformity in crop germination and maturity. Income increases due to increase in yield per acre is expected to be higher than the cost incurred on leveling of the fields.

RECOMMENDATIONS:

1. Laser supplying companies delay the delivery of Laser units to farmers due to extra booking of units. Booking of maximum numbers should be fixed in accordance to their production capacity and allocate the area to companies for providing better after sale services.
2. After Sale service of laser supplying companies needs to be improved. Proper repair and maintenance should be provided at the doorstep of farmers / LLL Service providers or the district level.
3. Out of total payment, 10 % of Govt. share which is paid to laser supplying companies that should be withheld for two years for proper provision in lieu of after sale services. Warranty may also be extended from two to five years from delivery date for laser land leveler units
4. Farmers/LLL Service Providers should be trained for record keeping and a simple log book can be provided for this purpose.

4.3.1 Coordination / Meetings with Stakeholders / Beneficiaries

ME&IE consultants remained in regular contact with the Stakeholders / OFWM department regarding

data collection and gathering information required for Regular Monitoring/Impact. Consultants conducted meetings with relevant offices of the OFWM and other stakeholders.

The following meetings were held during this month:

4.3.1.1 Meetings of ME&IE Consultants Punjab Zone with Stakeholders

1. Meeting at Director General, OFWM Office

Date	May 10 ,2024
Venue	Director General, OFWM Office Davis Road, Lahore
Participants	
<ol style="list-style-type: none"> 1. Mr. Tahir Mehmood, Focal Person of DGA OFWM/ DDA Climate Change (OFWM) 2. Dr. Muhammad Abdul Quddus, Agri Economist, ME&IE Consultants National Office Islamabad 3. Mr. Muhammad Rizwan Suleman, Focal Person to DGA, OFWM, ME&IE Consultants, Punjab Zone Lahore 	
Meeting Agenda/Points Discussed:	
<ol style="list-style-type: none"> 1. As per the previous Meeting held at the DG office, it comes to our knowledge that the PMIS Dashboard is not functional at D.G. office. On request of Focal Person DGA, OFWM login Credentials which were shared earlier vide letter no NPIWC II/ME&IE/NOISD/723-0269 dated July 19, 2023. 2. Focal Person of ME&IE Consultants have shared login Credentials again and the Dashboard is made operational at the DGA, OFWM office Punjab. Moreover, a short briefing was given to the Focal person DGA OFWM on various aspects of the Dashboard. The focal Person to DGA, OFWM office Punjab appreciates the efforts of ICT Specialist Mr. Rizwan Saleem regarding Dashboard and he further remarked that Mr. Rizwan Saleem has done a tremendous job regarding Dashboard and Emphasized that we need to speed up the process and update the data as soon as possible. 3. Focal Person to DGA, OFWM made a Commitment that they will share data of all interventions of completed and ongoing schemes regarding the dashboard up to Feb. 2024 by the Next week. 4. Focal Person of the DGA office, Mr. Tahir Masood, and the Focal Person of the ME&IE Consultant M. Rizwan Suleman have mutually decided that after one week of provision of data 	

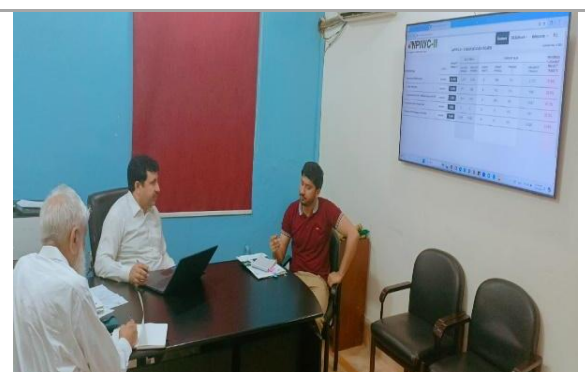
from the DGA Office ME&IE Consultant will incorporate this data on the Dashboard within a week and held a Meeting regarding Updated Data on Dashboard.

5. Focal Person of ME&IE Consultants, M. Rizwan Suleman, briefed about the ongoing activities of consultants, and constraints, as well as shared the overall performance and achievements. Moreover, the Focal Person of

ME&IE Consultants shared Ecological zone-wise lists of Achievements of all interventions (viz., Watercourses, Water Storage Tanks/Ponds and Laser Land Leveler Units) of ME&IE Consultants. The focal Person of DGA, OFWM appreciated the coordination of ME&IE Consultants.

6. Furthermore, for smooth operation Focal Person of ME&IE Consultants and the Focal Person of DGA OFWM have consensus that they will remain in Close Coordination with each other.

7. Focal person of ME&IE Consultants shared their plan regarding the upcoming field Survey with the Focal Person of the DGA OFWM office. The focal Person of the DGA office assured full Cooperation to Field Teams from their good office.



Meeting with Focal Person to DGA (OFWM) Regarding PMIS Dashboard

2. Meeting with Deputy Director Agriculture, OFWM, Lahore

Date	27-05-2024
Venue	DDA (OFWM) Office, Lahore
Participants	
1.	Malik Mushtaq DDA Agri. (OFWM) Lahore
2.	Mr. Sami Ullah Naizi, ADA Agri. (OFWM), Tehsil Lahore City.
3.	Umer Farooq Hammad, FTE, ME&IE Consultants
4.	Abd Ur Raoof Saad, FTE, ME&IE Consultants
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> Discussion regarding the progress of Laser Land 	

Levelers in the District, Lahore.



Meeting in progress of Laser Land Levelers in the District Lahore, Tehsil Lahore City

3. Meeting with Assistant Director Agriculture OFWM, Narowal

Date	30-05-2024
Venue	ADA (OFWM) Office Narowal
Participants	
1.	ADA, Agri. (OFWM), Tehsil Narowal
2.	Mr. Muhammad Qasim.
3.	Umer Farooq Hammad, FTE ME&IE Consultants
4.	Abd Ur Raoof Saad, FTE, ME&IE Consultants
5.	Muhammad Bilal Sohail, FTE ME&IE Consultants
Meeting Agenda/Points discussed:	
Discussion regarding the progress of Laser Land Levelers in Tehsil Narowal. The constraints were also highlighted in the meeting.	



Meeting in progress of Laser Land Levelers' impact in District & Tehsil Narowal

4. Meeting with Deputy Director Agriculture OFWM, Jhang

Date	29-05-2024
Venue	DDA (OFWM) Office,, Jhang
Participants	
1.	Tariq Mehmood Deputy Director of Agriculture (OFWM) District and Tehsil Jhang
2.	Amir Mehmod Assistant Director of Agriculture

(OFWM) Tehsil, Jhang

3. Muhammad Rizwan Suleman, FTI, ME&IE Consultants, NPIWC-II
Sohail Ahmad, FTE, ME&IE Consultants, NPIWC-II

Meeting Agenda/Points discussed:

- Progress of the project activities.
- Basic Data Collection of PLL units
- Issues faced by the farmer regarding PLL



Meeting in progress of Laser Land Levelers in the District & Tehsil Jhang

5. Meeting with Deputy Director Agriculture and ADA, OFWM Chiniot

Date	30-05-2024
Venue	DDA & ADA (OFWM) Office Chiniot

Participants

1. Hameed Ullah Sharif Deputy Director of Agriculture (OFWM) Chiniot
2. Tayyaba Seemab Assistant Director (OFWM), Chiniot
3. Muhammad Rizwan Suleman, FTI ME&IE Consultants, NPIWC-II
4. Sohail Ahmad FTE ME&IE Consultants NPIWC-II

Meeting Agenda/Points discussed:

- Discussion regarding the progress of Laser Land Levelers in District & Tehsil Chiniot
- Seek the cooperation/coordination of field staff



Meeting in progress of Laser Land Levelers in the District & Tehsil Chiniot

4.3.2 Post Field Activities

The ME&IE consultants' teams remained busy in data collection / Validation of PLL data intervention on the PMIS Dashboard. Such data has been collected from various districts/divisions as under:

Table-1 List of Validated PLL Data on PMIS Dashboard

Division	District	Status
Lahore	Lahore	Complete
	Kasur	Complete
Faisalabad	Jhang	Complete
	Chiniot	Complete
Gujranwala	Narowal	Complete
Sahiwal	Pakpattan	Complete
D.G Khan	Layyah	Complete

4.4 ACTIVITIES OF KP ZONE – MAY 2024

It is mandatory for the ME&IE Consultants to keep close coordination with the OFWM Department Khyber Pakhtunkhwa for the on-going schemes under the NPIWC-II in the province. For this purpose, the ME&IE Consultants, KP Zone frequently paid visits to the Client's office. Both formal and informal meetings were held with the OFWM Department officials during the month under reference. Moreover, digital contacts both telephonically and electronically were also used. The focus of these meeting was mainly on the data entry to the Dashboard and training to OFWM official by the ICT Specialist of the ME&IE Consultants. Whenever, the client faced any difficulty in the data entry to the Dashboard, the ICT Specialist offered his services to them.

In pursuance to this presentation to the DG, OFWM, KP on April 22, 2024, the ICT team of the ME&IE Consultants in consultation with the Focal Person of the NPIW-II, Mr. Hayat arranged four trainings in four different Zones of KP as follows:

- Central Zone
- Southern Zone
- Abbottabad Zone
- Swat Zone

Data verification and data cleaning activities were also performed. Where necessary, visits were also paid to the concerned departments

The activities conducted by ME&IE consultants during the month of May were different from the previous months on the basis that ME&IE Consultants imparted trainings to a large number of OFWM officials throughout the KP province. The following activities were carried out in the month of May 2024.

Major Activities of the ME&IE Consultants, KP:

- ❖ Meetings with Client (Formal and Informal)
- ❖ Training to the OFWM Officials by the ME/IE Consultants
- ❖ Regular field monitoring
- ❖ Data verification and cleaning of baseline and impact surveys
- ❖ Internal Meeting of DTL with the Field Staff
- ❖ Refresher training of FTIs and FTEs
- ❖ Coordination meeting with PMU KP
- ❖ Monitoring of data
- ❖ Verification of WC and WSTs through Google Earth
- ❖ Data entry, Data cleaning, Data processing & data analysis.

❖ Writing of MMR of April 2024

Meetings were held with OFWM Officials in continuation of the 28th March Meeting at OFWM office.

The meetings were held on 1st, 17th, 18th and 22nd April, 2024 in the response of 28th March meeting where it was requested by client to correct any ambiguity in data and dashboard and provide refresher training for their field staff.

The field team supported the ICT team in verification of geographic coordinates of Watercourses and Water Storage tanks through google earth and other mechanisms.

Drafted KP's MMR report for the month of April 2024.

What follows next is details of activities carried out during the month of May 2024.

4.4.1 Updated progress of ME&IE Consultants - KP

Meetings with OFWM Department KP: During the month of May, 2024, both formal and informal meetings were held with OFWM Department KP. Apart from these, a coordination meeting was also attended by ME&IE Consultants called by Project Management Unit (PMU) KP on May 23, 2024.

1. Dashboard Data Update:

- During these meetings, the emphasis of the Focal Person of NPIWC-II KP was mainly on the current status of dashboard data and the need for regular updates with timely and accurate data for decision-making purposes. The ME&IE Consultants of KP reiterated their commitment towards all kind of support in this regard. However, it was emphasized that the data updating process is the responsibility of OFWM staff through Android application and G3 can assist in this process.
- To correct any errors or discrepancies in the existing data to maintain accuracy, reliability and significance of comprehensive data reflection for assessing performance and identifying trends. It was assured that the relevant person from ME&IE Consultants of KP will ensure to correct all data issues.

2. Deputing the ICT Specialist for training of OFWM Staff. Zone-wise Refresher Training to OFWM Staff:

3. During the meetings held in the previous month it was decided that the ME&IE Consultants will

depute an ICT Specialist to conduct refresher training sessions for OFWM (On-Farm Water Management) staff on data entry procedures. The ME&IE Consultants honored its commitment and imparted trainings in four zones of KP to the OFWM Department staff as follows:

- **Central Zone (Peshawar) April 29-30, 2024**
- **Southern Zone (DI Khan) May 2-3, 2024**
- **Abbottabad Zone (Abbottabad) May 7-8 2024**
- **Swat Zone. (Mingora) May 9-10, 2024.**

Meetings with OFWM Department KP: During the month of May, 2024, both formal and informal meetings were held with OFWM Department KP. Apart from these, a coordination meeting was also attended by ME&IE Consultants called by Project Management Unit (PMU) KP on May 23, 2024.

4. Dashboard Data Update:

- During these meetings the emphasis of the Focal Person of NPIWC-II KP was mainly on the current status of dashboard data and the need for regular updates with timely and accurate data for decision-making purposes. The ME&IE Consultants of KP reiterated their commitment towards all kind of support in this regard. However, it was emphasized that the data updating process is the responsibility of OFWM staff through Android application and G3 can assist in this process.
- To correct any errors or discrepancies in the existing data to maintain accuracy, reliability and significance of comprehensive data reflection for assessing performance and identifying trends. It was assured that the relevant person from ME&IE Consultants KP will ensure to correct all data issues.

5. Deputing of ICT Specialist for training of OFWM Staff:

Zone-wise Refresher Training to OFWM Staff: During the meetings held in the previous month it was decided that the ME&IE Consultants will depute an ICT Specialist to conduct refresher training sessions for OFWM (On Farm Water Management) staff on data entry procedures.

Participants of the refresher trainings

1. Mr. Shumail Mehmood- ICT specialist M&E Consultants (Resource Person)
2. Mr. Kaiser Khan – Field Engineer M&E Consultants

3. Mr. Muhammad Hayat – Focal Person OFWM NPIWC II
4. Mr. Muhammad Haris – Tech Support OFWM
5. Mr. Mehboob Alam – GIS Specialist OFWM
6. Respective Staff of Each Zone
 - In all of the above mentioned four zone the Resource Person (Mr. Shumail Mehmood) started the training with a detailed overview of the android application and went through each field to discuss how to enter the correct information/data in the Dashboard.
 - An interactive session was held with trainees and took a hands-on job approach to elaborate on the information input in the App.
 - As the training session came to an end the individual progress of each district was discussed and districts staff and pointed out the pending schemes. In their respective zones
 - Practical exercises were done by all participants to learn how to make data entry and to rectify and update the data in the App.
 - Different queries from the participants were cleared on the spot.
 - The same activity was kept continued with more focus on progress made by each district.
 - Dashboard was demonstrated to the participants to give them a better idea of how their given data is reflected on several forums at Directorate as well as at National level



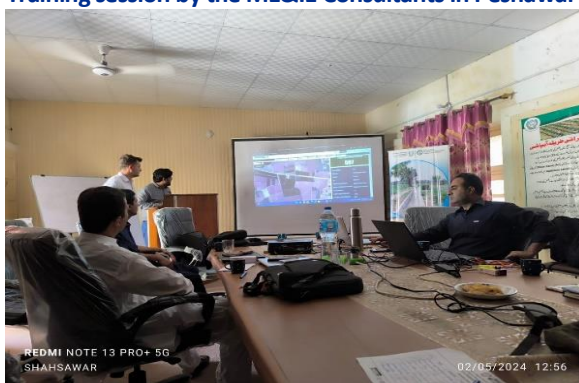
Training session by ME&IE Consultants in Peshawar



Training session by the ME&IE Consultants in Peshawar



Training session by ME&IE Consultants in Mingora Swat



Training session by the ME&IE Consultants KP in DI Khan



Training session by ME&IE Consultants in Mingora Swat



Training session by the ME&IE Consultants of KP in DI Khan

Zoom Meeting of the Key Staff Members with Director G3

A zoom meeting was called on May 17, by the Director G3 at 2.30 pm of all the key staff of the ME&IE Consultants.

Participants:

1. Ch. Saifulla Ejaz, CEO (Chairperson)
2. Dr. Usman Mustafa TL, ME/IE Consultants
3. Yousaf Bhatti, DTL Punjab
4. Prof. Dr. Humayun Khan DTL KP
5. Dr. Ikram Saeed, DTL, ICT-Zone Islamabad
6. Manzoor Kasi, DTL Baluchistan
7. Rizwan Saleem ICT team Islamabad
8. Shomail Mehmood, ICT Team Islamabad

Agenda of the meeting was thoroughly discussed. All the DTLs showed their concerned about the shortage of logistic support in their respective zonal offices. The CEO ensured that the management will try to provide all possible support to the zonal offices within the existing meager resources.

Internal Staff meeting with Mr. Shomail Mehmood ICT Specialist Islamabad

In follow-up of the May 17, an internal meeting was called on May 18, by the DTL to discuss the preparation for the Baseline-III. It was decided that instead of waiting for the funds from the



Training session by ME&IE Consultants in Abbottabad

management, the field survey should be launched with the available small amount of fund with the office. All of the field team members were of the view that before launching of the survey refresher training should be arranged for the field teams.



Internal Staff meeting with Shomail Mehmood, ICT Specialist for arranging the refresher trainings

The matter was discussed with Mr. Shomail Mehmood, ICT specialist and he agreed to impart the training to the field team members.

Refresher Training of FTIs and FTEs

In pursuance to the internal meeting held on May 18, 2024 at the zonal office Peshawar, refresher training for the field teams was arranged in the ME&IE Consultant's office, Peshawar. To ensure the objective pertaining to minimize mistakes in the data collection services, Mr. Shomail, ICT Specialist, National office Islamabad were acquired. Two sessions (morning and afternoon) were taken by the resource person with the field teams. During morning session, the detailed presentation was made by the mentor while the afternoon session was mainly focused for addressing the questions raised by the field teams.

FIELD ACTIVITIES:

The monitoring / Baseline pertains to Various interventions of the project viz improvement of watercourses, water user associations, construction of water storage tanks and laser land levelers. Such surveys are carried out from time to time as a part of regular activity of ME&IE Consultants.

From inception to date the KP field team of ME&IE Consultants conducted baseline vis-a-vis impact surveys of **205** watercourses in KP and **40** in GB. Moreover, the consultants had completed baseline vis-a-vis impact surveys of **79** water storage tanks in KP and **15** in GB. Impact assessment field visits of **05** PLL interventions were also carried out in KP.



Meeting with WMO of the field team before going to the field



Interviewing the beneficiary in district Khyber during the BLS-III

Coordination Meeting with PMU KP

A coordination meeting was called on May 23, 2024 by the Project Management Unit Peshawar. The PMU usually call coordination meeting after each quarter of the year for reviewing the progress of the projects running in the KP by OFWM Department, Agriculture Extension Department, and Agriculture Engineering Department KP. The ME&IE consultants KP zone attended this meeting.

Data Entry and GPS Validation:

During the reported months, KP Teams entered and validated the GPS locations for hundreds of schemes of KP province. The activity was distributed among different team members with the help of ICT team of KP. OFWM directorate extends their usual support and provided all the relevant information.

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

During the current reporting month, formal/informal support was provided to OFWM officials. However, continuous support was provided to OFWM officials on telephone for any issue while operating android system and/or data collection process.

4.4.2 Key Challenges & Mitigation Measures Adopted.

Some Limitations:

- Due to overall economic situation & liquidity crunches prevailing in the country currently, funds release delays were evident leading to slowing down progress of overall project.

4.4.3 Suggestions:

For the Smooth operations of field activities following are suggested.

- There should be a proper modus operandi for meetings and consistent follow-up among stakeholders to ensure smooth functioning of all aspects and timely resolutions of any impeding hindrances.
- Exposure of Dashboard with its broader perspective and application may present amongst the relevant authorities for its importance and further release of funds for the project activities.

4.5 ACTIVITIES DONE BY BALOCHISTAN ZONE – MAY 2024

4.5.1 Updated Progress of ME&IE Consultants – Balochistan

The ME&IE Consultants, Balochistan, have monitored **17** sites during the pre-testing of Monitoring Tools in different months. A total of **13** sites were monitored during executive visits with high officials. The ME&IE Consultants, Balochistan have conducted three baseline surveys, the first was conducted in 2021, the second was conducted in 2022 and the third was in 2023-24. A total of **351** sites were visited during the baseline surveys i.e., **203** Watercourses and **148** Water Storage Tanks. The ME&IEC, field teams visited **07** sites of PLL out of 34 total sites; the percentage of monitored sites is 20%. The Impact Assessment Survey was conducted in the 2022-23 and 2024 in which **351** sites (**203** Watercourses and **148** Water Storage Tanks) have been visited so far. Regular monitoring/spot-checking is another important activity of ME&IE Consultants in which more than **385** sites of different districts have been visited/monitored till the reporting month. In regular monitoring, ME&IE Consultants monitored ongoing / completed sites covering till date. The district wise updated status of the total activities done is given in the table below:

Table-3.1 District-wise Summary of M&E Consultants Field visits till May 2024

Sr. #	District	Baseline Survey		Impact Assessment Survey		Impact Survey (LLL)
		WC	WST	WC	WST	
1	Quetta	4	15	4	15	-
2	Pishin	10	9	10	9	-
3	Killa Abdullah	5	3	5	3	-
4	Ziarat	4	4	4	4	-
5	Mastung	9	8	9	8	-
6	Nushki	6	3	6	3	-
7	Sibi	3	3	3	3	-
8	Jhal Magsi	2	4	2	4	-
9	Kachhi	5	10	5	10	-
10	Naseerabad	9	6	9	6	-
11	Jaffarabad	7	1	7	1	4
12	Sohbatpur	10	1	10	1	3
13	Loralai	17	7	17	7	-
14	Dukki	2	2	2	2	-
15	Zhob	4	4	4	4	-
16	Kila-Saifullah	12	6	12	6	-
17	Musa khel	11	2	11	2	-
18	Sherani	4	2	4	2	-
19	Khuzdar	8	7	8	7	-
20	Kalat	13	9	13	9	-
21	Pangur	8	8	8	8	-

Sr. #	District	Baseline Survey		Impact Assessment Survey		Impact Survey (LLL)
		WC	WST	WC	WST	
22	Awaran	8	4	8	4	-
23	Barkhan	3	3	3	3	-
24	Chaghi	4	3	4	3	-
25	Dera Bugti	5	2	5	2	-
26	Gwadar	2	1	2	1	-
27	Harnai	2	1	2	1	-
28	Kech	6	5	6	5	-
29	Kharan	4	2	4	2	-
30	Kohlu	3	2	3	2	-
31	Lasbela	10	8	10	8	-
32	Surab	2	2	2	2	-
33	Washuk	1	1	1	1	-
Sub-Total		203	148	203	148	7

4.5.2 Updated Status of Technical Sanctions.

The DG of OFWM issued numerous Technical Sanctions (TS) for different zones in January 2024. The details of TS issuance district-wise are mentioned below:

Details of TS information were shared with Mr. Shumail in May. 2024.

S. No,	District	Year
1	MosaKhail	21-22
2	Harnai	21-22
3	MosaKhail	22-23
4	Washuk	21-22
5	Chaghi	22-23
6	Zhob	21-22
7	Lasbella	21-22
8	Quetta	22-23
9	Kharan	22-23
10	Sherani	21-22
11	Sibi	22-23
12	Harnai	22-23
13	Panjgor	21-22
14	Pishin	21-22

4.5.3 Updated Status of Dashboard, Balochistan

The DTL, Balochistan zone has diligently undertaken several visits to the DG, OFWM Office, and these efforts have attained positive results, with the OFWM staff responding positively and cooperatively.

Furthermore, the On-Farm Water Management (OFWM) staff has been extremely supportive, demonstrating a commendable level of responsiveness. Their cooperation has been instrumental in providing the necessary data,

covering with effect from the fiscal year 2020-21 comprehensively.

The significant data have been forwarded in achieving our objectives for the Dashboard of Balochistan.

The worthy DG, OFWM, Balochistan is requested to direct the concerned officials to expedite the data validation process of the last three financial years i.e. 2019-20, 2020-21, and 2021-22, and provide the necessary support and resources they require. It is also requested give the necessary direction to all DDs and concerned staff to upload the beneficiary data on "Dashboard, Balochistan" through the Android Based data application of the F.Y. 2022-23 and 2023-24.

The updated progress of Dashboard, Balochistan, district-wise is stated below:

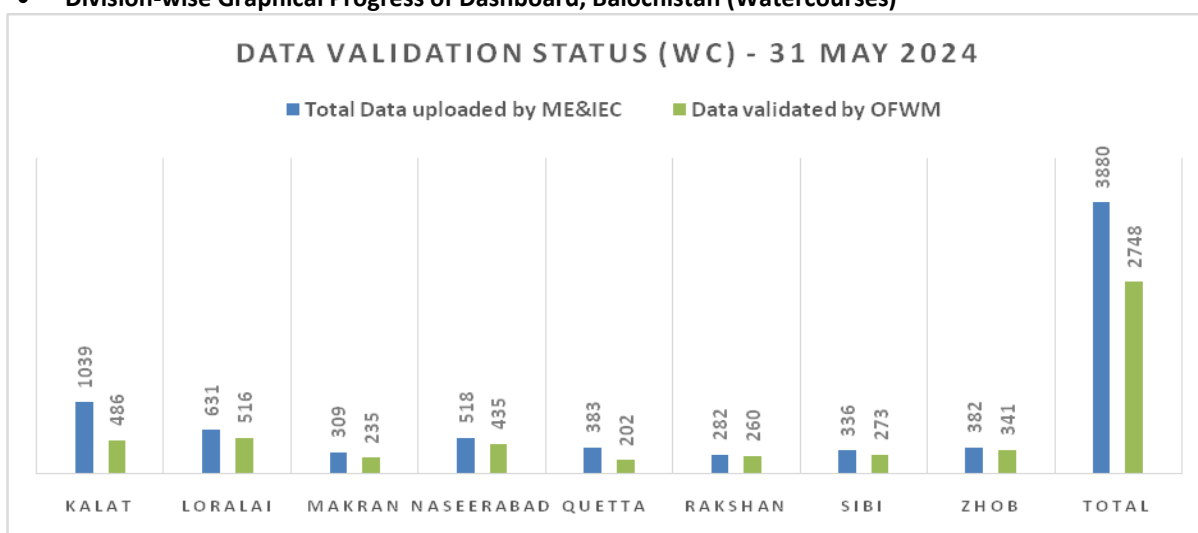
• District-wise Progress of Dashboard, Balochistan (Watercourses)

Division	District	2019-20		2020-21		2021-22		TOTAL	
		Total Data uploaded by ME&IEC	Validated by OFWM	Total Data uploaded by ME&IEC	Validated by OFWM	Total Data uploaded by ME&IEC	Validated by OFWM	Total Data uploaded by ME&IEC	Validated by OFWM
Kalat	Awaran	140	76	22	22	0	0	162	98
Kalat	Kalat	97	0	28	28	158	123	283	151
Kalat	Khuzdar	139	0	17	0	9	6	165	6
Kalat	Lasbela	110	0	35	0	44	35	189	35
Kalat	Mastung	102	93	30	1	66	60	198	154
Kalat	Surab	20	20	11	11	11	11	42	42
Total		608	189	143	62	288	235	1039	486
(%)		31%		43%		82%		47%	
Loralai	Barkhan	61	0	0	0	3	0	64	0
Loralai	Duki	27	27	15	15	1	1	43	43
Loralai	Loralai	158	157	47	43	132	130	337	330
Loralai	Musakhail	100	99	86	44	1	0	187	143
Total		346	283	148	102	137	131	631	516
(%)		82%		69%		96%		82%	
Makran	Gwadar	12	0	11	0	0	0	23	0
Makran	Kech	68	68	20	20	44	44	132	132
Makran	Panjgur	124	73	25	25	5	5	154	103
Total		204	141	56	45	49	49	309	235
(%)		69%		80%		100%		76%	
Nasirabad	Jaffarabad	53	53	32	32	56	56	141	141
Nasirabad	JhalMagsi	16	0	6		5	0	27	0
Nasirabad	Kachi	81	81	18	18	3	3	102	102
Nasirabad	Nasirabad	52	0	35	35	82	82	169	117
Nasirabad	Sohbatpur	14	14	20	20	45	41	79	75
Total		216	148	111	105	191	182	518	435
(%)		69%		95%		95%		84%	
Quetta	Killa Abdullah	106	0	2	0	2	0	110	0
Quetta	Pishin	99	97	39	2	52	52	190	151
Quetta	Quetta	41	25	10		33	26	84	51
Total		246	122	51	2	87	78	384	202
(%)		50%		4%		90%		53%	
Rakhshan	Chaghi	49	49	28	28	0	0	77	77
Rakhshan	Kharan	23	23	3		55	55	81	78
Rakhshan	Nushki	38	38	25	25	40	39	103	102
Rakhshan	Washuk	18	0	2	2	0	0	20	2
Total		128	110	58	55	95	94	281	259
(%)		86%		95%		99%		92%	
Sibi	DeraBugti	34	0	0	0	65	65	99	65
Sibi	Harnai	23	0	19	15	0	0	42	15
Sibi	Kohlu	41	41	17	17	0	0	58	58
Sibi	Sibi	33	33	6	6	25	25	64	64
Sibi	Ziarat	54	54	17	15	2	2	73	71
Total		185	128	59	53	92	92	336	273
(%)		69%		90%		100%		81%	
Zhob	KillaSaifullah	158	124	38	38	39	39	235	201
Zhob	Sherani	19	18	8	8	39	38	66	64
Zhob	Zhob	55	55	23	20	3	1	81	76
Total		232	197	69	66	81	78	382	341
(%)		85%		96%		96%		89%	
GRAND TOTAL		2165	1318	695	490	1020	939	3880	2747
(%)		61%		71%		92%		71%	

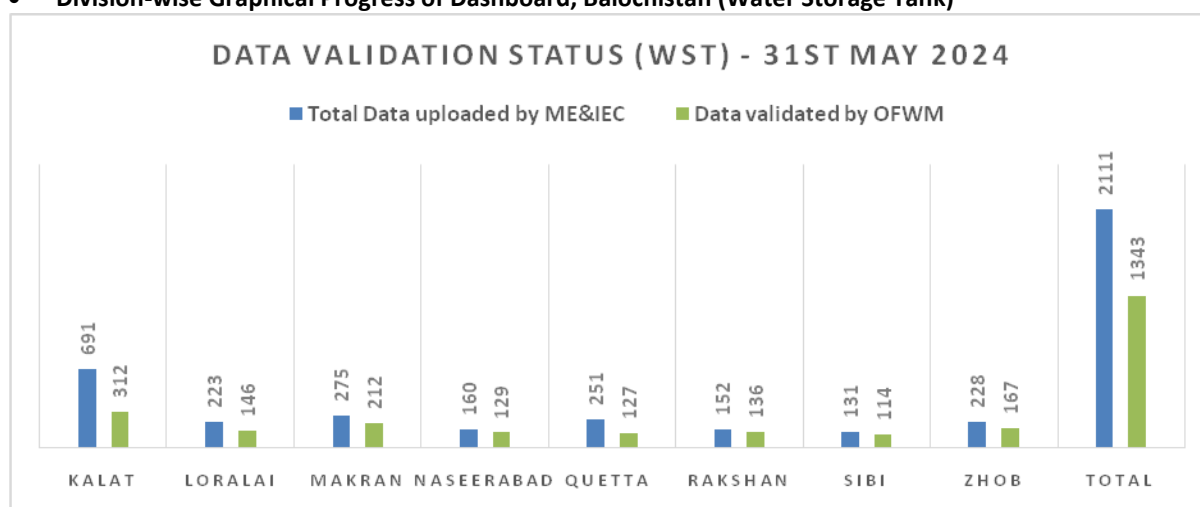
• **District-wise Progress of Dashboard, Balochistan (Water Storage Tanks)**

Division	District	2019-20		2020-21		2021-22		TOTAL	
		Total Data uploaded by ME&IEC	Validated by OFWM	Total Data uploaded by ME&IEC	Validated by OFWM	Total Data uploaded by ME&IEC	Validated by OFWM	Total Data uploaded by ME&IEC	Validated by OFWM
Kalat	Awaran	12	12	27	27	48	0	87	39
Kalat	Kalat	20	2	32	32	127	65	179	99
Kalat	Khuzdar	20	0	30	0	89	68	139	68
Kalat	Lasbela	20	0	24	0	106	45	150	45
Kalat	Mastung	20	18	32	2	55	12	107	32
Kalat	Surab	3	3	9	9	17	17	29	29
Total		95	35	154	70	442	207	691	312
(%)		37%		45%		47%		45%	
Loralai	Barkhan	15	0	0	0	39	6	54	6
Loralai	Duki	7	7	9	9	13	13	29	29
Loralai	Loralai	22	22	32	3	59	59	113	84
Loralai	Musakhail	11	11	16	16	0	0	27	27
Total		55	40	57	28	111	78	223	146
(%)		73%		49%		70%		65%	
Makran	Gwadar	3	0	4	0	0	0	7	0
Makran	Kech	29	18	24	0	46	46	99	64
Makran	Panjgur	18	18	29	25	122	105	169	148
Total		50	36	57	25	168	151	275	212
(%)		72%		44%		90%		77%	
Nasirabad	Jaffarabad	0	0	8	8	9	9	17	17
Nasirabad	JhalMagsi	7	0	0	0	23	0	30	0
Nasirabad	Kachi	18	18	24	24	40	40	82	82
Nasirabad	Nasirabad	0	0	8	8	9	9	17	17
Nasirabad	Sohbatpur	4	4	8	8	2	1	14	13
Total		29	22	48	48	83	59	160	129
(%)		76%		100%		71%		81%	
Quetta	Killa Abdullah	22	0	34	0	0	0	56	0
Quetta	Pishin	22	22	36	33	61	61	119	116
Quetta	Quetta	9	9	17		50	32	76	41
Total		53	31	87	33	111	93	251	127
(%)		58%		38%		84%		51%	
Rakhshan	Chaghi	10	10	23	23	14	14	47	47
Rakhshan	Kharan	3	3	12		14	14	29	17
Rakhshan	Nushki	9	9	23	23	30	30	62	62
Rakhshan	Washuk	4		10	10	0	0	14	10
Total		16	12	45	33	44	44	152	136
(%)		75%		73%		100%		89%	
Sibi	DeraBugti	11	11	0	0	28	28	39	39
Sibi	Harnai	3	3	6	6	12	0	21	9
Sibi	Kohlu	9	9	18	18	0	0	27	27
Sibi	Sibi	8	8	5	5	10	5	23	18
Sibi	Ziarat	4	4	6	6	11	11	21	21
Total		35	35	35	35	61	44	131	114
(%)		100%		100%		72%		87%	
Zhob	KillaSaifullah	30	20	32	32	56	56	118	108
Zhob	Sherani	4	4	6	6	15	15	25	25
Zhob	Zhob	15	10	24	24	46		85	34
Total		49	34	62	62	117	71	228	167
(%)		69%		100%		61%		73%	
GRAND TOTAL		382	245	545	334	1137	747	2111	1343
(%)		64%		61%		66%		64%	

• **Division-wise Graphical Progress of Dashboard, Balochistan (Watercourses)**



• **Division-wise Graphical Progress of Dashboard, Balochistan (Water Storage Tank)**



4.5.4 Meetings:

Date	20 th May 2024
Venue	ME & IE Zonal Office Quetta
Participants	I. Mr. Manzoor Ahmed (DTL Balochistan) II. Mr. Saleem, FTI, ME&IEC, NPIWC-II. III. Mr. Naseeb Jan FTI ME & IEC NPIWC-II IV. Mr. Shumail Mehmood Master Trainer (IT V. Specialist) Date of Training:- 20, 21, and 24 th of May
Meeting Agenda/Subject:	Training About ODK and MTs Overview.
Training Objectives:	- The training aimed to enhance the skills of existing MTs by introducing and elaborating on the usage of the ODK mobile application. The focus was on efficient data collection and management

techniques using this technology.

Day 1: 20th May 2024*

- Introduction to ODK Mobile Application*
- Overview of the application's interface and functionalities.
- Importance of mobile data collection in field operations.

Practical Demonstration.

- Step-by-step guide on setting up the ODK application.
- Demonstration of form creation and data entry processes.
- Hands-on Session
- Participants practiced creating and filling out forms under supervision.

Day 2: 21st May 2024

Advanced Features of ODK

- Utilizing advanced data collection tools within the application.
- Customizing forms to suit specific data collection needs.

Data Management and Analysis.

- Techniques for efficient data management using ODK.
- Importing and exporting data for analysis.

Group Activities.

- Collaborative exercises to reinforce learning.
- Scenario-based problem-solving using ODK.

Day 3: 24th May 2024

Review and Q&A Session

- Recap of key points covered in the previous sessions.
- Addressing participants' queries and clarifications.

Case Studies

- Discussion on real-world applications and success stories using ODK.

Evaluation and Feedback.

- Participants completed a practical test to assess their understanding.

Feedback session to gather participants' insights and suggestions for future training.

Participant Feedback

- Mr. Manzoor Ahmed (DTL Balochistan): Found the hands-on sessions particularly beneficial for understanding the practical applications of ODK.
- Mr. Naseeb Jan (FTI): Appreciated the detailed explanations and the opportunity to engage in collaborative problem-solving dialogues.
- Mr. Saleem Ahmed (FTI): Valued the advanced features segment, which will help in customizing data collection processes more effectively.

Conclusion.

- The training conducted by Mr. Shumail was highly effective in enhancing the participants' skills in using the ODK mobile application. The elegant briefing and structured sessions ensured that the participants were able to grasp both the basic and advanced functionalities of the application. The feedback from the participants was overwhelmingly positive, indicating the success of the training program.

Recommendations

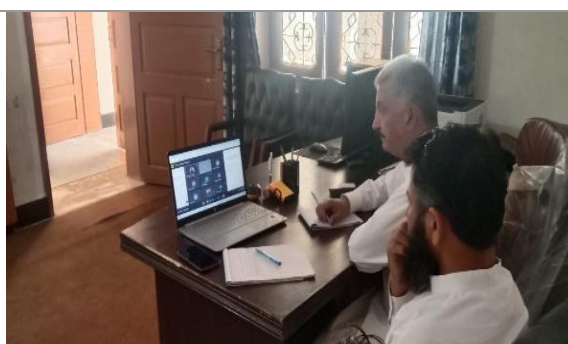
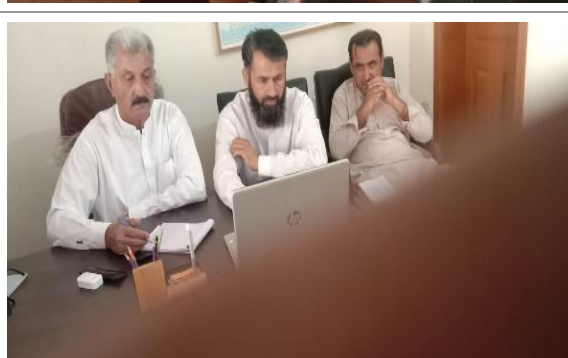
- Follow-up Training: To ensure continuous improvement, follow-up sessions could be organized focusing on specific challenges faced by the participants.

Resource Materials:

- Providing additional resource materials and guides for ODK could further aid participants in their ongoing use of the application.

Peer Learning Sessions:

- Encouraging participants to share their experiences and best practices could foster a collaborative learning environment.



View of meeting with Mr. Shumail Mehmood Master trainer, Manzoor Ahmed DTL, Naseeb Jan, and Saleem Ahmed, NPIWC-II held in Office

4.6 SOCIAL & GENDER IMPACT REPORT – MAY 2024

The Water Courses Program in Dera Ghazi Khan (DG Khan) has had a significant impact on the region, leading to:

1. **Increased crop yields:** Improved irrigation systems and water management practices have resulted in higher crop yields and better product quality.
2. **Socio-economic improvement:** Farmers have seen an increase in their income, leading to improved livelihoods and socio-economic status.
3. **Labour opportunities:** The program has created new job opportunities in agriculture, irrigation management, and related sectors.
4. **Poverty reduction:** By increasing agricultural productivity and income, the program has contributed to poverty reduction in the region.
5. **Food security:** Improved crop yields have enhanced food security in the region, ensuring a stable food supply for the local population.
6. **Empowerment of farmers:** The program has empowered farmers, particularly women, by providing them with training and resources to manage their farms effectively.
7. **Improved water management:** The program has promoted efficient water use and management practices, reducing waste and conserving this valuable resource.
8. **Environmental benefits:** The program has also led to environmental benefits, such as reduced soil erosion and improved soil fertility.
9. **Increased access to markets:** Farmers have gained better access to markets, enabling them to sell their produce at competitive prices.
10. **Community development:** The program has contributed to community development, fostering collaboration and social cohesion among farmers and other stakeholders.



The Water Courses Program has been a significant success in DG Khan, demonstrating the impact of

targeted interventions in agriculture and water management on rural development and poverty reduction.

Female farmers in Dera Ghazi Khan (DG Khan) face several challenges, including:

1. **Limited access to resources:** Women have limited access to land, credit, technology, and markets, making it difficult for them to improve their agricultural productivity.
2. **Socio-cultural barriers:** Gender roles and expectations restrict women's participation in farming, and they often require permission from male family members to engage in agricultural activities.
3. **Lack of training and education:** Women farmers in DG Khan often receive limited formal education and training, which hinders their ability to adopt new farming techniques and technologies.
4. **Gender-based violence:** Women farmers may face harassment and violence, which can discourage them from pursuing farming activities.
5. **Limited mobility and access to markets:** Women's restricted mobility and access to markets limit their ability to sell their produce and negotiate fair prices.
6. **Dependence on male family members:** Women often rely on male family members for farm-related decisions, which can limit their autonomy and decision-making power.
7. **Limited access to credit and financial services:** Women farmers face challenges in accessing credit and financial services, making it difficult for them to invest in their farms.
8. **Gender bias in inheritance:** Women often face challenges in inheriting land and property, which can limit their ability to own and manage farms.
9. **Limited representation in farmers' organizations:** Women farmers have limited representation in farmers' organizations, which can restrict their ability to advocate for their rights and interests.
10. **Cultural and religious barriers:** Women farmers may face cultural and religious barriers that restrict their ability to work outside the home or interact with men, limiting their ability to engage in farming activities.

Village Birmine, Tehsil Kot Chuuta, DG Khan



Field Group Discussion with Two Communities in Command
Choti Bala (May 28th, 2024)

Sr.No	Name	Designation	Cell No.
1	شیر علی	CNIC	32102-45242780
2	الو مال		32104-0696514-0
3	خزینہ مال		32104-04942308
4	الو بیگم		32102-6378729-8
5	منیر علی مال		32102-3435845-8
6	لحقت بی		32104-0614465-0
7	آصفہ بی		32104-0638820-8
8	اشرف مال		32102-0749506-0
9	زیرہ مال		32102-0915921-8
10	سیر علی بی		32104-0405104-6



4.7 ICT TEAM ASSIGNMENTS

4.7.1 Implementation of MIS Dashboard

The Dashboard has been implemented in Punjab, KP, Balochistan, AJK and ICT zones:

The progress of Interventions is live on the Dashboard application.

Punjab – WC Data – Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
Bahawalpur	167	197	326	15	705
D.G Khan	154	78	263	1	496
Faisalabad	88	61	203	35	387
Gujranwala	63	28	109	1	201
Gujrat	44	30	125	0	199
Lahore	72	42	134	7	255
Multan	168	81	311	2	562
Sahiwal	94	86	222	0	402
Sargodha	100	95	357	3	555
Overall	950	698	2050	64	3762

A total of **3762** Watercourses' data have been received from Punjab zone and available live on GIS Dashboard. (Detailed Summary attached as **Annex-F**)

Punjab – WSP Data Summary				
Division	2019-20	2020-21	2021-22	Overall
Bahawalpur	23	46	91	160
D.G Khan	27	30	25	82
Faisalabad	24	48	57	129
Gujranwala	0	4	2	6
Gujrat	2	10	29	41
Lahore	0	9	5	14
Multan	16	25	26	67
Rawalpindi	0	174	194	368
Sahiwal	9	15	15	39
Sargodha	6	32	47	85
Bahawalpur	23	46	91	160
Overall	130	439	582	1151

Total **1151** Water Storage Ponds data have been received from Punjab zone and available live on GIS Dashboard. (Detailed Summary attached as **Annex-G**)

Punjab – PLL Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
Bahawalpur	81	324	305	78	788
D.G Khan	50	297	190	100	637
Faisalabad	93	378	274	99	844
Gujranwala	49	231	263	17	560
Gujrat	30	106	122	16	274
Lahore	64	271	258	95	688
Multan	102	273	194	79	648
Sahiwal	71	188	231	98	588
Sargodha	78	266	247	38	629
Rawalpindi	22	76	75	15	188
Overall	640	2410	2159	635	5844

So far, Total **5844** PLL data have been received from Punjab zone and available live on GIS Dashboard. All PLL units have been delivered and currently there's no under progress PLL unit as per received data. (Detailed Summary attached as **Annex-H**)

KP – WC Data Summary						
Division	2019-20	2020-21	2021-22	2022-23	2023-24	Overall
Bajaur	3	19	39	18	4	83
Bannu	68	29	94	28	0	219
D.I Khan	412	9	93	7	0	521
Hazara	86	69	152	67	4	378
Khyber	6	13	7	1	0	27
Kohat	94	39	57	28	18	236
Kurram	2	4	1	0	0	7
Malakand	182	179	479	65	16	921
Mardan	105	64	88	26	23	306
Mohmand	4	40	17	30	0	91
N.W Agency	2	3	5	1	0	11
Orakzai	0	1	0	0	0	1
Peshawar	139	87	77	36	0	339
S.W Agency	3	10	15	7	0	35
Overall	1106	566	1124	314	65	3175

So far, Total **3175** Watercourses data have been received from KP zone and available live on GIS Dashboard. By which **3020** Watercourses have been lined and remaining **96** watercourses are under progress on different stages like 1st Milestone, 2nd Milestone, and Work Order Issued. The remaining **59** Watercourses are pending with Work Order Approval. All the above figures have been revised due to rectification in data. (Detailed Summary attached as **Annex-I**)

KP – WST Data Summary						
Division	2019-20	2020-21	2021-22	2022-23	2023-24	Overall
Bajaur	1	10	9	1	0	21
Bannu	12	10	23	2	0	47
D.I Khan	80	6	35	0	0	121
Hazara	28	47	84	13	1	173
Khyber	1	9	12	0	0	22
Kohat	14	17	32	14	0	77
Kurram	1	1	0	0	0	2
Malakand	74	97	195	11	8	385
Mardan	16	9	26	4	11	66
Mohmand	1	40	69	0	0	110
Orakzai	0	2	0	0	0	2
Peshawar	35	23	54	14	0	126
S.W Agency	0	15	15	2	0	32
N.W Agency	0	8	8	1	0	17
Overall	263	294	562	62	20	1201

Overall Water Storage Tank data submissions are **1201** of which **1116** WST have been completed and **52** are under progress. While **33** Water Storage Tanks Work Order Pending. All the above figures in

WST have been revised due to rectification in data.
(Detailed Summary attached as **Annex-J**)

KP – PLL Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
D.I Khan	0	0	50	0	50
Overall	0	0	50	0	50

So far, Total **50** PLLs have been delivered and partial data received from KP zone and available live on GIS Dashboard. (Detailed Summary attached as **Annex-K**)

Balochistan – WC Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
Kalat	597	143	287	0	1027
Loralai	344	148	137	37	666
Makran	204	56	49	0	309
Nasirabad	216	111	191	0	518
Quetta	244	50	87	0	381
Rakhshan	126	58	82	0	266
Sibi	184	59	88	0	331
Zhob	232	69	81	3	385
Overall	2147	694	1002	40	3883

Total **3883** Watercourses data has been received from Balochistan zone of which **3236** Watercourses have been lined, **253** Watercourses are pending at TS Stage and remaining **394** watercourses are under progress. (Detailed Summary attached as **Annex-L**)

Note: The Watercourses data from Balochistan Zone was last updated on October 17, 2023. However, since then, there has been no further data input received from Balochistan Zone enumerators via the Android Application. There is still a significant amount of pending data on their end. That needs to be submitted promptly to address the backlog on the PMIS Dashboard.

Balochistan – WST Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
Kalat	95	154	442	0	691
Loralai	54	57	111	11	233
Makran	50	57	168	0	275
Nasirabad	29	48	83	0	160
Quetta	53	87	111	0	251
Rakhshan	26	68	58	7	159
Sibi	35	34	61	9	139
Zhob	49	61	117	0	227
Overall	391	566	1151	27	2135

A total of **2135** Water Storage Tank data has been received from Balochistan zone of which **1636** Watercourses have been lined, **102** Water Storage

Tank at TS Stage and remaining **397** Water Storage Tanks are under progress. (Detailed Summary attached as **Annex-M**)

Note: The Water Storage data from Balochistan Zone was last updated on October 24, 2023. However, since then, there has been no further data input received from Balochistan Zone's enumerators via the Android Application. There is still a significant amount of pending data on their end. That needs to be submitted promptly to address the backlog on the PMIS Dashboard.

Balochistan – PLL Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
Kalat	0	4	0	0	4
Makran	0	11	0	0	11
Nasirabad	0	16	0	0	16
Quetta	0	1	0	0	1
Sibi	0	2	0	0	2
Overall	0	34	0	0	34

So far, Total **34** PLLs have been delivered and partial data received from KP zone and available live on GIS Dashboard. (Detailed Summary attached as **Annex-N**)

GB – WC Data Summary				
Division	2019-20	2020-21	2021-22	Overall
Gilgit	180	236	29	445
Skardu	108	231	25	364
Overall	288	467	54	809

A total of **809** completed schemes data have been received and live on Dashboard. (Detailed Summary attached as **Annex-O**)

GB – WST Data Summary				
Division	2019-20	2020-21	2021-22	Overall
Gilgit	83	95	22	200
Skardu	35	82	11	128
Overall	118	177	33	328

A total of **328** completed Water Storage Tanks data have been received and live on Dashboard. (Detailed Summary attached as **Annex-P**)

AJK – WC Data Summary						
Division	2019-20	2020-21	2021-22	2022-23	2023-24	Overall
MZD	30	83	53	29	44	239
Poonch	33	32	30	8	44	147
Mirpur	37	96	72	21	84	310
Overall	100	211	155	58	172	696

A total of **696** Watercourses data has been received from AJK zone of which **538** Watercourses have been lined, **28** Watercourses are pending at TS & Work Order Stage, **130** watercourses are under progress. (Detailed Summary attached as **Annex-Q**).

AJK – WST Data Summary						
Division	19-20	20-21	21-22	22-23	23-24	Overall
MZD	35	56	61	9	29	190
Poonch	13	41	62	34	87	237
Mirpur	2	15	31	6	40	94
Overall	50	112	154	49	156	521

A total of **521** Water Storage Tank data has been received from AJK Unit of which **387** Water Storage Tank have been lined, **19** Water Storage Tanks are pending at TS Stage, **115** Water Storage Tanks are under progress. (Detailed Summary attached as **Annex-R**)

ICT – WC Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
ICT	0	20	14	7	41
Overall	0	20	14	7	41

A total of **41** completed Watercourses data have been received from ICT-Unit and available live on Dashboard. (Detailed Summary attached as **Annex-S**).

4.7.2 Refresh Training Session

The ICT team conducted refresher training workshops in the KP zone from April 29th, 2024, to May 10th, 2024. These workshops were organized across four zones, with relevant districts participating according to the zone division. Each zone's training and progress workshops had a fixed duration of two days, as requested by the OFWM Department. During these sessions, the team reviewed the progress district-wise, identifying any missing or incomplete data, and provided guidance to enumerators for input. Additionally, a refresher session on the usage of the android application for data collection was delivered to enhance their digital data collection capabilities.

4.7.3 On-Going Data Validation & Cleaning

The data submission process is ongoing and will persist until the project concludes. Zonal Field Staff in KP and AJK are consistently inputting data via customized Android Application which has been provided and trained by the ICT team of ME&IE consultants. Concurrently, the ICT team is continuously engaged in cleaning and validating the received data, and any errors are promptly communicated to the respective Zonal DDs/ADs for correction.

CHAPTER 4: QUARTERLY WORK PLAN- ACTIVITIES (APRIL 2024 TO JUNE 2024)

The ME&IE Consultants' activities initiating during the 4th Quarter of the year 2023-2024 (1st April 2024 to 30th June 2024) are listed below. A tentative Work Plan for the 4th Quarter of the year 2023-2024 (1st April 2024 to 30th June 2024) showing period detail is given as **Annex-A**.

4.1 PRE-FIELD-ACTIVITIES

- Refresher Training of Field Staff for Baseline & End Line impact Survey

4.2 FIELD ACTIVITIES

- Regular Monitoring of Interventions in the field
- Data collection of the interventions in the field
- Field activities regarding Endline Impact surveys
- Online data entry in Android-based application

4.3 ICT ASSIGNMENT

- Improvement/Updation of website of NPIWC-II
- Monitoring online data collection and data entry
- Monitoring Android based Mobile Application under implementation by field staff.
- Data collection of interventions in MIS/GIS database
- Capacity Building Trainings / Refresher of Departments
- Data entry, Data cleaning, Data processing & data analysis.

4.4 COORDINATION

- Meetings of TL with NPC and OFWM Departments regarding Project Progress / Issues
- Meeting of DTLs with respective DTL of P C & concerned OFWM Departments
- ME&IE Consultants Internal Meetings

4.5 DELIVERABLES

- Monthly Monitoring Reports
- Quarterly Monitoring & Evaluation Report (QM&ER)

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

Document	Status
Draft Inception Report	Submitted
Final Inception Report	Submitted
Monthly Monitoring Report-First (DEC 2020-JAN 2021)	Submitted
Monthly Monitoring Report-Second (FEB 2021)	Submitted
Monthly Monitoring Report-Third (MAR 2021)	Submitted

Document	Status
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
Annual Monitoring & Evaluation Report (1 st)	Submitted
Monthly Monitoring Report-Seventh (JULY)	Submitted
Monthly Monitoring Report-Eighth (AUG 2021)	Submitted
Baseline Survey Report-I	Submitted
Monthly Monitoring Report-Ninth (SEPTEMBER 2021)	Submitted
Quarterly Monitoring & Evaluation Report-Third (JULY - SEPTEMBER 2021)	Submitted
Monthly Monitoring Report-Tenth (OCTOBER 2021)	Submitted
Monthly Monitoring Report-Eleventh (NOVEMBER 2021)	Submitted
Monthly Monitoring Report-Twelfth (DECEMBER 2021)	Submitted
Quarterly Monitoring & Evaluation Report-Fourth Quarter year 2021 (OCTOBER – DECEMBER 2021)	Submitted
Monthly Monitoring Report-Thirteenth (JANUARY 2022)	Submitted
Monthly Monitoring Report-Fourteenth (FEBRUARY 2022)	Submitted
Monthly Monitoring Report-Fifteen (MARCH 2022)	Submitted
Quarterly Monitoring & Evaluation Report-First Quarter year 2022 (JANUARY – MARCH 2022)	Submitted
Monthly Monitoring Report-Sixteen (APRIL 2022)	Submitted
Monthly Monitoring Report-Seventeenth (MAY 2022)	Submitted
Monthly Monitoring Report-Eighteenth (JUNE 2022)	Submitted
Quarterly Monitoring & Evaluation Report-2 nd Quarter year 2022 (APRIL – JUNE 2022)	Submitted
Annual Monitoring & Evaluation Report (2 nd) Jul 2021-June 2022	Submitted
Monthly Monitoring Report-	Submitted

Document	Status
Nineteenth (JULY 2022)	
Monthly Monitoring Report-Twentieth (AUGUST 2022)	Submitted
Monthly Monitoring Report-Twenty First (SEPTEMBER 2022)	Submitted
Quarterly Monitoring & Evaluation Report-3 rd Quarter year 2022 (JUL – SEP 2022)	Submitted
Monthly Monitoring Report-Twenty Second (OCTOBER 2022)	Submitted
Monthly Monitoring Report-Twenty Third (NOVEMBER 2022)	Submitted
Monthly Monitoring Report-Twenty Fourth (DECEMBER 2022)	Submitted
Monthly Monitoring Report-Twenty Fifth (JANUARY 2023)	Submitted
Monthly Monitoring Report-Twenty Sixth (FEBRUARY 2023)	Submitted
Monthly Monitoring Report-Twenty Seventh (March 2023)	Submitted
Monthly Monitoring Report-Twenty-eighth (April 2023)	Submitted
Quarterly Monitoring & Evaluation Report- 2023 (JAN – MAR 2023)	Submitted
Monthly Monitoring Report-Twenty-Ninth (May 2023)	Submitted
Monthly Monitoring Report-Thirtieth (June 2023)	Submitted
Monthly Monitoring Report-Thirty First (July 2023)	Submitted
Monthly Monitoring Report-Thirty Second (August 2023)	Submitted
Monthly Monitoring Report-Thirty Third (September 2023)	Submitted
Quarterly Monitoring & Evaluation Report- (Jul – Sep 2023)	Submitted
Monthly Monitoring Report-Thirty Fourth (October 2023)	Submitted
Monthly Monitoring Report-Thirty Fifth (November 2023)	Submitted
Monthly Monitoring Report-Thirty Sixth (December 2023)	Submitted
Quarterly Monitoring & Evaluation Report-2 nd Quarter year 2023-24 (Oct – Dec 2023)	Submitted
Monthly Monitoring Report-Thirty Seventh (January 2024)	Submitted
Monthly Monitoring Report-Thirty Eighth (February 2024)	Submitted
Monthly Monitoring Report-Thirty Ninth (March 2024)	Submitted
Quarterly Monitoring & Evaluation	Submitted

Document	Status
Report-3 rd Quarter year 2023-24 (Jan – Mar 2024)	
Monthly Monitoring Report-Fortieth (April 2024)	Submitted
Monthly Monitoring Report-Forty First (May 2024)	Report in hand
Baseline Survey Report - II	Submitted
Baseline Survey Report-II (Updated version WC)	Submitted
Baseline Survey Report -II (Draft version of WSTs)	Submitted
Mid-Line Monitoring & Impact Evaluation Report	Submitted
Consolidated Baseline Survey Report (Phase-I&II)	Submitted
Special Reports submitted: 1) Monitoring Tools 2) Survey Manual on MTs 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. 5) Survey Methodology & Questionnaires for Baseline Survey Phase-II 6) Baseline-End Line Manual Survey Manual 7) Android Application PMIS Dashboard Manual 8) Survey Manual on MTs (Updated) 9) Water Saving Through NPIWC-II Project Interventions 10) Special Report on Monitoring and Impact Evaluation of Precision (Laser) Land Leveling 11) Monitoring, Evaluation, and Impact Analysis of The Project “NPIWC-II”.	Submitted

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

4.6 MATRIX OF RESPONSIBILITIES

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

CHAPTER 5: ISSUES / BOTTLENECKS

The ME&IE Consultants are continuously facing the following issues and constraints for timely instigating the activities:

- Due to non-availability of NWMC (NESPAK) deliverables / reports, ME&IE Consultants are facing problems to monitor & evaluate the working of NWMC. In this regard, the cooperation and coordination of NWMCs as well as the relevant Directorates are required.
- Non-availability of Technical Sanctions of the watercourses.
- Non-availability of complete up-to-date inventory / data of all interventions from the Client, Provincial Agricultural Departments (OFWM) & NWMCs (NESPAK) till to date.
- Irregularity in the fund releases is also one of the key difficulties in the completion of the required project assignments/tasks, on time.
- While reviewing Dashboard during our in-house exercise, we have witnessed some stuck-up cases. Following are different levels/stages in terms of days and area of jurisdiction:

<u>Days</u>	<u>Departments</u>
100 to 119	District
120 to 149	Division
150 to 164	NPC/DDPC

As some of the cases have crossed the third level which is execution agency DG, therefore, you are hereby intimated for your intervention to sort out these stuck ups.

We have already pointed out the Stuck-Up Cases of NPIWC II Watercourses through our office letter No. NPIWC-II / ME&IE / NOISD / 0623-0256 submitted to your office dated 15 June 2023. Your prompt action is required in this matter.

It is also important to mention that when ME&IE Consultants pointed out certain stuck-up cases to FPMU, a quick response was observed from FPMU vide its Letter dated 12 July 2023 and raised the issue with executing agencies to settle the issue on a priority basis.

ANNEXES A to S

ANNEXURE A: TENTATIVE WORK PLAN FOR THE QUARTER OF 2024 (APR-JUN 2024)

TENTATIVE WORK PLANNED FOR THE QUARTER (April 2024 To June 2024)												Legend													
												Activity starts	↓												
												Activity Ends	↓												
												Activity Span	---												
No.	ACTIVITIES											3 Months-Year 2024 (Weeks)													
												April				May				June					
												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	Refresher Trainings of Field Staff for Endline Impact Surveys																							
2	Field Activities																								
	2.1	Regular Monitoring of Interventions in the field																							
	2.2	Data collection of the interventions in the field																							
	2.3	Field activities regarding Endline Impact surveys																							
	2.4	Online data entry in android-based application																							
3	ICT Assignment																								
	3.1	Improvement/Updation 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	Capacity Building Trainings / Refresher of Departments																							
	3.6	Data entry, Data cleaning, Data processing & data analysis.																							
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 & Evaluation Report (Jan-Mar 2024)										↓	↓												

ANNEXURE B: MATRIX OF RESPONSIBILITIES

MATRIX OF RESPONSIBILITIES

LEGEND	
●	Primary Responsibility
○	Secondry Responsibility
○	Assistance

SR. NO.	DELIVERABLE / ACTIVITIES	NPC-FPMU	Agriculture Dept. (CEWM)	Project Consultants	ME&IE Consultants
1	Provision of Pre-requisite data of project components for starting of Field Activities: <ul style="list-style-type: none"> • Organization of Water Users Associations, • Watercourses Improvement, • Water Storage Tanks, • Laser Land Levelers, 	○	●	-	-
2	Certification of operational documents of the project, <ul style="list-style-type: none"> • Design, cost estimates, completion reports of watercourses, • Design, cost estimates, completion reports of water storage tanks, 	○	○	●	-
3	Undertake baseline, midline and endline surveys of the project activities/interventions in all the project areas.	-	-	-	●
4	Develop monitoring strategy, framework and Result Based Monitoring (RBM) indicators,	-	-	-	●
5	Assessing the water saving per annum on watercourse and water storage tanks as well as aggregate due to the project interventions.	-	-	-	●
6	Assessing the improvement in water availability due to provision of conveyance system.	-	-	-	●
7	Assessing the economic benefits to the agriculture in terms of increase in yield, irrigated area, cropping pattern, cropping intensity, fam 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	-	-	-	●

ANNEXURE C: MONITORING LOG-FRAME

Project Sub-components	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.	i. Community mobilization at 47,278 watercourses	i. Total 47,278 WUAs reactivated / established/registered	i. Right of way of 47,278 watercourses available ii. Skilled and unskilled labor required for watercourse improvement available iii. Construction material for civil works of watercourses procured iv. Alternate arrangement for water conveyance during construction made v. Watercourse improved	i. Disputes among the water users settled ii. Farmers branched improved iii. Water allocation made amicably iv. Maintenance of watercourses, WST and laser units done v. Cooperation among farmers increased	i. 47,278 watercourses improved and 15 percentage points conveyance losses reduced ii. Litigation among farmers reduced	i. 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 labor, and	i. Establishment of 47,278 Water users' associations (WUAs); ii. Registration of	i. 47,278 WCAs established; ii. 47,278 WCAs registered; iii. 47,278 watercourses	i. Conveyance losses for improved watercourses decreased by about 15	i. Increase in cropping intensity on improved watercourses by 5-24%;	i. Increase in farm income; ii. Increase in employment for farm	i. The water flow measurements will be carried out at before

60% funded by project.	<p>47,278 WUAs;</p> <p>iii. Improvement and realignment of earthen section of 47,278 watercourses;</p> <p>iv. Lining of up to 50% length of 47,278 watercourses either by:</p> <p>v. Precast concrete parabolic lining (PCPL) segments, or</p> <p>vi. Rectangular brick masonry, or any other method as approved by the project</p>	improved and lined;	<p>percentage points.</p> <p>ii. 1.654 million households benefited from the activity;</p> <p>iii. 11.347 million acres served with improved watercourses</p>	<p>ii. Increase in crop yields.</p> <p>iii. Increase in irrigated area</p> <p>iv. Increase in agriculture output per unit of water by about 37%</p>	<p>labor;</p> <p>iii. Reduction in poverty;</p> <p>iv. Enhanced food security for the country.</p>	<p>and after watercourse improvement on 2-5% sample basis;</p> <p>ii. Agriculture survey before and after watercourse improvement on 2-5% sample basis;</p> <p>iii. The survey will determine:</p> <p>iv. Cropping pattern before and after the improvement;</p> <p>v. Cropping intensities before and after improvement;</p> <ul style="list-style-type: none"> ● Before and after crop yields; ● Before and
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							after employment ;
							vi. 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.
C3: Construction of Water Storage Tanks (WSTs)	i. Construction of 14,932 water storage tanks	i. 14,932 small farmers mobilized to construct water storage tanks for irrigation ii. They agree to contribute 40% of the cost iii. Agree to first construct the tank with	i. 14,932 WSTs constructed ii. 14,932 WSTs operated and maintained	i. Water which was otherwise largely going to be wasted is saved i. Irrigation provided at critical stages of the crops ii. Flexibility achieved for irrigation	i. More area irrigated ii. Increased cropping intensities	i. Increased crop yields ii. Increased total crop output quantum iii. Increased farm income iv. Increased farm employmen	i. 2-5% sample of WSTs will be surveyed iii. A data collection form will be designed to measure water saving due to WSTs iv. The forms used for

		his/her own funds and then received subsidy at 40% on issuance of FCR				t	baseline and impact surveys in case of watercourse s will also be used for WSTs v. Same data analysis will be carried out here as in case of watercourse s.
C4: Provision of Land Leveling Units	i. 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.	i. 11,610 laser units provided to farmers / service providers; ii. Farmers trained in using the units.	i. 11,610 farmers / service providers received PLL units; ii. Farmers / service providers received training in using the units.	i. Land leveled on Farmers' / service providers' farms; vi. Land leveled on fellow farmers on rent; vii. Total 3.483million acres leveled by 11,610 units.	i. Water application efficiency increased at field level; viii. Even germination of seed. ix. Field application losses reduced by 10 percentage points x. Water productivity increased by 24%	i. Increased area under irrigated crops; ii. Enhanced crop yields iii. Increased farm income	i. The land leveling 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

							<p>agriculture sample surveys.</p> <p>xi. 2-4% sample units will be visited by ME&IE Consultants teams after one years of delivery</p> <p>xii. The unit will be verified</p> <p>xiii. Area treated during the year will be collected</p> <p>xiv. Farmers' feedback collected on quality of the unit, quality of the after-sale service, etc.</p>
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ANNEXURE 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	End line Survey Report	10	At the end of the End line 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

ANNEXURE E: ECOLOGICAL ZONE WISE ACHIEVEMENTS OF M&E CONSULTANT OF VARIOUS INTERVENTIONS IN PUNJAB ZONE

Ecological Zone Wise Achievement of Watercourses by ME&IE Consultants Till 30-05-2024					
Ecological zone	Districts	W.C Completed By OFWM till 30-06-2024	Sample Size 5% ME&IE Consultants	Achievement of ME&IE Consultants	Remaining Part
Partial Irrigated Barani Zone	Bhakkar	183	9	11	-2
	Mianwali	146	7	4	3
Sub Total		329	16	15	1
Irrigated (Rice Zone)	Gujranwala	101	5	7	-2
	Hafizabad	85	4	10	-6
	Gujrat	35	2	6	-4
	Narowal	16	1	1	0
	Sialkot	84	4	5	-1
	Mandi Bahu Din	79	4	4	0
	Lahore	23	1	2	-1
	Kasur	83	4	6	-2
	Sheikhupura	99	5	8	-3
	Nankana Sahib	50	3	3	0
Sub Total		655	33	52	-19
Irrigated (Mixed Zone)	Sahiwal	145	7	8	-1
	Okara	136	7	15	-8
	Pakpatan	121	6	6	0
	Faisalabad	130	7	9	-3
	Jhang	99	5	5	0
	Chiniot	34	2	3	-1
	Toba Tek Singh	124	6	6	0
	khushab	80	4	8	-4
	Sargodha	146	7	8	-1
Sub Total		1015	51	68	-17
Irrigated (Cotton Zone)	Multan	153	8	9	-1
	DG Khan	118	6	9	-3
	Bahawalpur	154	8	9	-1
	Bahawalnagar	220	11	22	-11
	Rahim Yar Khan	331	17	18	-1
	Lodhran	154	8	15	-7
	khanewal	123	6	7	-1
	Rajanpur	119	6	6	0
	Muzaffargarh	133	7	6	1
	Layyah	126	6	8	-2
	Vehari	132	7	6	1
Sub Total		1763	88	115	-27
Grand Total		3762	188	250	-62

Ecological Zone Wise Achievement of WSTs by ME&IE Consultants Till 30-05-2024

Ecological zone	Districts	W.S.T Completed By OFWM till 30-06-2023	Sample Size 5% ME&IE Consultants	Achievement of ME&IE Consultants	Remaining Balance
Barani	Rawalpindi	71	4	4	0
	Attock	79	4	6	-2
	Jhelum	63	3	2	1
	Chakwal	155	8	7	1
Sub Total		368	18	19	-1
Partial Irrigated Barani Zone	Bhakkar	19	1	5	-4
	Mianwali	3	0	1	-1
Sub Total		22	1	6	-5
Irrigated (Rice Zone)	Gujranwala	1	0	1	-1
	Hafizabad	13	1	3	-2
	Gujrat	27	1	2	-1
	Narowal	0	0		0
	Sialkot	4	0	1	-1
	Mandi Bahu Din	2	0	2	-2
	Lahore	2	0	1	-1
	Kasur	7	0	2	-2
	Sheikhupura	2	0	2	-2
	Nankana Sahib	3	0	2	-2
Sub Total		61	3	16	-13
Irrigated (Mixed Zone)	Sahiwal	5	0	1	-1
	Okara	19	1	1	0
	Pakpatan	15	1	1	0
	Faisalabad	35	2	2	0
	Jhang	31	2	2	0
	Chiniot	8	0	1	-1
	Toba Tek Singh	55	3	3	0
	khushab	28	1	2	-1
	Sargodha	35	2	2	0
Sub Total		231	12	15	-3
Irrigated (Cotton Zone)	Multan	17	1	5	-4
	DG Khan	33	2	3	-1
	Bahawalpur	42	2	1	1
	Bahawalnagar	51	3	3	0
	Rahim Yar Khan	67	3	4	-1
	Lodhran	14	1	1	0
	khanewal	22	1	2	-1
	Rajanpur	10	1	1	-1
	Muzaffargarh	21	1	2	-1
	Layyah	18	1	1	0
	Vehari	14	1	1	0
Sub Total		309	15	24	-9
Grand Total		991	50	80	-30

Ecological Zone Wise Achievement of LLL Units by ME&IE Consultants Till 30-05-2024					
Ecological zone	Districts	Total No of Laser Land Levelling units Delivered By OFWM till 30-06-2023	Sample Size 5% ME&IE Consultants	Achievement of ME&IE Cosultants	Remaining Balance
Partial Irrigated Barani Zone	Bhakkar	191	10	5	5
	Mianwali	146	7	0	7
	Sub Total	337	17	5	12
Irrigated (Rice Zone)	Gujranwala	235	12	7	5
	Hafizabad	188	9	5	4
	Gujrat	115	6	6	0
	Narowal	139	7	7	0
	Sialkot	196	10	5	5
	Mandi Bahu Din	163	8	0	8
	Lahore	97	5	6	-1
	Kasur	240	12	10	2
	Sheikhupura	228	11	7	4
	Nankana Sahib	140	7	5	2
	Sub Total	1741	87	58	29
Irrigated (Mixed Zone)	Sahiwal	208	10	8	2
	Okara	203	10	7	3
	Pakpatan	180	9	11	-2
	Faisalabad	275	14	11	3
	Jhang	253	13	17	-4
	Chiniot	159	8	15	-7
	Toba Tek Singh	206	10	8	2
	khushab	118	6	8	-2
	Sargodha	219	11	6	5
	Sub Total	1821	91	91	0
Irrigated (Cotton Zone)	Multan	139	7	8	-1
	khanewal	187	9	7	2
	Vehari	199	10	8	2
	Lodhran	149	7	7	0
	Bahawalpur	257	13	0	13
	Bahawalnagar	282	14	11	3
	Rahim Yar Khan	264	13	2	11
	DG Khan	123	6	7	-1
	Rajanpur	123	6	0	6
	Muzaffargarh	235	12	0	12
	Layyah	166	8	15	-7
	Sub Total	2124	106	65	41
Grand Total		6023	301	219	82

ANNEXURE F: PUNJAB - WATERCOURSE DATA SUBMISSION – SUMMARY

Division	District	Completed	Under Progress				Overall
			1st Milestone	2nd Milestone	Work Order Issued	Work Order Pending	
Bahawalpur	Bahawalnagar	220	0	0	0	0	220
Bahawalpur	Bahawalpur	154	0	0	0	0	154
Bahawalpur	Rahim Yar Khan	331	0	0	0	0	331
Bahawalpur Total		705	0	0	0	0	705
Dera Ghazi Khan	Dera Ghazi Khan	118	0	0	0	0	118
Dera Ghazi Khan	Layyah	126	0	0	0	0	126
Dera Ghazi Khan	Muzaffargarh	133	0	0	0	0	133
Dera Ghazi Khan	Rajanpur	119	0	0	0	0	119
Dera Ghazi Khan Total		496	0	0	0	0	496
Faisalabad	Chiniot	34	0	0	0	0	34
Faisalabad	Faisalabad	130	0	0	0	0	130
Faisalabad	Jhang	99	0	0	0	0	99
Faisalabad	Toba Tek Singh	124	0	0	0	0	124
Faisalabad Total		387	0	0	0	0	387
Gujranwala	Gujranwala	101	0	0	0	0	101
Gujranwala	Narowal	16	0	0	0	0	16
Gujranwala	Sialkot	84	0	0	0	0	84
Gujranwala Total		201	0	0	0	0	201
Gujrat	Gujrat	35	0	0	0	0	35
Gujrat	Hafizabad	85	0	0	0	0	85
Gujrat	Mandi Bahauddin	79	0	0	0	0	79
Gujrat Total		199	0	0	0	0	199
Lahore	Kasur	83	0	0	0	0	83
Lahore	Lahore	23	0	0	0	0	23
Lahore	Nankana Sahib	50	0	0	0	0	50
Lahore	Sheikhupura	99	0	0	0	0	99
Lahore Total		255	0	0	0	0	255
Multan	Khanewal	123	0	0	0	0	123
Multan	Lodhran	154	0	0	0	0	154
Multan	Multan	153	0	0	0	0	153
Multan	Vehari	132	0	0	0	0	132
Multan Total		562	0	0	0	0	562
Sahiwal	Okara	136	0	0	0	0	136
Sahiwal	Pakpattan	121	0	0	0	0	121
Sahiwal	Sahiwal	145	0	0	0	0	145
Sahiwal Total		402	0	0	0	0	402
Sargodha	Bhakkar	183	0	0	0	0	183
Sargodha	Khushab	80	0	0	0	0	80
Sargodha	Mianwali	146	0	0	0	0	146
Sargodha	Sargodha	146	0	0	0	0	146
Sargodha Total		555	0	0	0	0	555
Grand Total		3762	0	0	0	0	3762

ANNEXURE G: PUNJAB - WSP DATA SUBMISSION – SUMMARY

Division	District	Completed	Under Progress		Overall
			Work Order Issued	Work Order Pending	
Bahawalpur	Bahawalnagar	51	0	0	51
Bahawalpur	Bahawalpur	42	0	0	42
Bahawalpur	Rahim Yar Khan	67	0	0	67
Bahawalpur Total		160	0	0	160
Dera Ghazi Khan	Dera Ghazi Khan	33	0	0	33
Dera Ghazi Khan	Layyah	18	0	0	18
Dera Ghazi Khan	Muzaffargarh	21	0	0	21
Dera Ghazi Khan	Rajanpur	10	0	0	10
Dera Ghazi Khan Total		82	0	0	82
Faisalabad	Chiniot	8	0	0	8
Faisalabad	Faisalabad	35	0	0	35
Faisalabad	Jhang	31	0	0	31
Faisalabad	Toba Tek Singh	55	0	0	55
Faisalabad Total		129	0	0	129
Gujranwala	Gujranwala	2	0	0	2
Gujranwala	Sialkot	4	0	0	4
Gujranwala Total		6	0	0	6
Gujrat	Gujrat	26	0	0	26
Gujrat	Hafizabad	13	0	0	13
Gujrat	Mandi Bahauddin	2	0	0	2
Gujrat Total		41	0	0	41
Lahore	Kasur	7	0	0	7
Lahore	Lahore	2	0	0	2
Lahore	Nankana Sahib	3	0	0	3
Lahore	Sheikhupura	2	0	0	2
Lahore Total		14	0	0	14
Multan	Khanewal	22	0	0	22
Multan	Lodhran	14	0	0	14
Multan	Multan	17	0	0	17
Multan	Vehari	14	0	0	14
Multan Total		67	0	0	67
Rawalpindi	Attock	79	0	0	79
Rawalpindi	Chakwal	155	0	0	155
Rawalpindi	Jhelum	63	0	0	63
Rawalpindi	Rawalpindi	71	0	0	71
Rawalpindi Total		368	0	0	368
Sahiwal	Okara	19	0	0	19
Sahiwal	Pakpattan	15	0	0	15
Sahiwal	Sahiwal	5	0	0	5
Sahiwal Total		39	0	0	39
Sargodha	Bhakkar	19	0	0	19
Sargodha	Khushab	28	0	0	28
Sargodha	Mianwali	3	0	0	3
Sargodha	Sargodha	35	0	0	35
Sargodha Total		85	0	0	85
Overall		991	0	0	991

ANNEXURE H: PUNJAB - PLL DATA SUBMISSION – SUMMARY

Division	District	Delivered	Under Progress	Overall
Bahawalpur	Bahawalnagar	283	0	283
Bahawalpur	Bahawalpur	246	0	246
Bahawalpur	Rahim Yar Khan	259	0	259
Bahawalpur Total		788	0	788
Dera Ghazi Khan	Dera Ghazi Khan	127	0	127
Dera Ghazi Khan	Layyah	165	0	165
Dera Ghazi Khan	Muzaffargarh	225	0	225
Dera Ghazi Khan	Rajanpur	120	0	120
Dera Ghazi Khan Total		637	0	637
Faisalabad	Chiniot	160	0	160
Faisalabad	Faisalabad	257	0	257
Faisalabad	Jhang	236	0	236
Faisalabad	Toba Tek Singh	191	0	191
Faisalabad Total		844	0	844
Gujranwala	Gujranwala	232	0	232
Gujranwala	Sialkot	190	0	190
Gujranwala	Narowal	138	0	138
Gujranwala Total		560	0	560
Gujrat	Gujrat	114	0	114
Gujrat	Mandi Bahauddin	160	0	160
Gujrat Total		274	0	274
Lahore	Kasur	232	0	232
Lahore	Lahore	94	0	94
Lahore	Nankana Sahib	137	0	137
Lahore	Sheikhupura	225	0	225
Lahore Total		688	0	688
Multan	Khanewal	184	0	184
Multan	Lodhran	145	0	145
Multan	Multan	126	0	126
Multan	Vehari	193	0	193
Multan Total		648	0	648
Sahiwal	Okara	203	0	203
Sahiwal	Pakpattan	178	0	178
Sahiwal	Sahiwal	207	0	207
Sahiwal Total		588	0	588
Sargodha	Bhakkar	171	0	171
Sargodha	Khushab	111	0	111
Sargodha	Mianwali	140	0	140
Sargodha	Sargodha	207	0	207
Sargodha Total		629	0	629
Rawalpindi	Attock	188	0	188
Rawalpindi Total		188	0	188
Grand Total		5844	0	5844

ANNEXURE I: KP - WATERCOURSE DATA SUBMISSION – SUMMARY

Division	District	Completed	Under Progress			Pending		Overall
			1st Milestone	2nd Milestone	Work Order Issued	TS Pending	Work Order Pending	
Bajaur Agency	Bajaur	64	0	0	13	6	0	83
Bajaur Agency Total		64	0	0	13	6	0	83
Bannu	Bannu	97	0	0	0	0	0	97
Bannu	Lakki Marwat	122	0	0	0	0	0	122
Bannu Total		219	0	0	0	0	0	219
D.I. Khan	D.I. Khan	453	3	0	0	0	0	456
D.I. Khan	Tank	65	0	0	0	0	0	65
D.I. Khan Total		518	3	0	0	0	0	521
Hazara	Abbottabad	30	0	1	0	0	0	31
Hazara	Battagram	49	0	0	0	0	0	49
Hazara	Haripur	74	0	0	0	0	0	74
Hazara	Lower Kohistan	7	0	0	13	1	0	21
Hazara	Mansehra	129	0	14	0	0	0	143
Hazara	Torghar	40	0	0	1	0	0	41
Hazara	Upper Kohistan	9	0	0	0	8	0	17
Hazara	Kolai Pallas	2	0	0	0	0	0	2
Hazara Total		340	0	15	14	9	0	378
Khyber Agency	Khyber	20	0	0	5	2	0	27
Khyber Agency Total		20	0	0	5	2	0	27
Kohat	Hangu	59	0	0	5	0	0	64
Kohat	Karak	80	0	0	0	0	0	80
Kohat	Kohat	92	0	0	0	0	0	92
Kohat Total		231	0	0	5	0	0	236
Kurram Agency	Kurram	7	0	0	0	0	0	7
Kurram Agency Total		7	0	0	0	0	0	7
Malakand	Buner	109	0	0	0	1	0	110
Malakand	Chitral	94	0	0	0	0	0	94
Malakand	Lower Dir	109	0	2	25	4	1	141
Malakand	Malakand	106	0	0	1	1	0	108
Malakand	Shangla	54	2	1	1	1	1	60
Malakand	Swat	283	0	1	0	0	0	284
Malakand	Upper Dir	121	2	0	0	1	0	124
Malakand Total		876	4	4	27	8	2	921
Mardan	Mardan	150	0	0	2	0	0	152
Mardan	Swabi	130	0	2	1	21	0	154
Mardan Total		280	0	2	3	21	0	306
M. Agency	Upper Mohmand	66	0	0	0	0	0	66
M. Agency	Lower Mohmand	25	0	0	0	0	0	25
M. Agency Total		91	0	0	0	0	0	91
Orakzai Agency	Orakzai	1	0	0	0	0	0	1
Orakzai Agency Total		1	0	0	0	0	0	1
Peshawar	Charsadda	137	0	0	0	1	0	138
Peshawar	Nowshera	121	0	0	1	2	0	124
Peshawar	Peshawar	75	0	0	0	2	0	77
Peshawar Total		333	0	0	1	5	0	339
S.W Agency	S.W Agency	35	0	0	0	0	0	35
S.W Agency Total		35	0	0	0	0	0	35
N.W Agency	N.W Agency	5	0	0	0	6	0	11
N.W Agency Total		5	0	0	0	6	0	11
Overall		3020	7	21	68	57	2	3175

ANNEXURE J: KP - WST DATA SUBMISSION – SUMMARY

Division	District	Completed	Under Progress			Pending		Overall
			1st Milestone	2nd Milestone	Work Order Issued	TS Pending	Work Order Pending	
Bajaur Agency	Bajaur	17	0	0	1	0	3	21
Bajaur Agency Total		17	0	0	1	0	3	21
Bannu	Bannu	12	0	0	0	0	0	12
Bannu	Lakki Marwat	35	0	0	0	0	0	35
Bannu Total		47	0	0	0	0	0	47
Dera Ismail Khan	D.I Khan	83	1	1	5	0	0	90
Dera Ismail Khan	Tank	31	0	0	0	0	0	31
Dera Ismail Khan Total		114	1	1	5	0	0	121
Hazara	Abbottabad	18	1	0	0	0	0	19
Hazara	Battagram	26	0	0	4	0	0	30
Hazara	Haripur	40	0	0	0	0	0	40
Hazara	Kolai Pallas	2	0	0	2	0	0	4
Hazara	Lower Kohistan	0	0	0	0	0	1	1
Hazara	Mansehra	44	0	3	1	0	0	48
Hazara	Torghar	17	0	0	1	0	0	18
Hazara	Upper Kohistan	7	0	0	0	0	6	13
Hazara Total		154	1	3	8	0	7	173
Khyber Agency	Khyber	10	0	0	6	0	6	22
Khyber Agency Total		10	0	0	6	0	6	22
Kohat	Karak	72	0	0	0	0	0	72
Kohat	Kohat	5	0	0	0	0	0	5
Kohat Total		77	0	0	0	0	0	77
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	21	0	0	0	0	0	21
Malakand	Lower Dir	21	2	4	11	1	0	39
Malakand	Malakand	24	0	0	0	0	0	24
Malakand	Shangla	43	0	0	0	1	0	44
Malakand	Swat	163	0	0	0	0	1	164
Malakand	Upper Dir	47	1	1	0	0	1	50
Malakand Total		362	3	5	11	2	2	385
Mardan	Mardan	34	0	0	0	0	0	34
Mardan	Swabi	22	0	1	0	9	0	32
Mardan Total		56	0	1	0	9	0	66
Mohmand Agency	Lower Mohmand	31	0	0	0	0	0	31
Mohmand Agency	Upper Mohmand	79	0	0	0	0	0	79
Mohmand Agency Total		110	0	0	0	0	0	110
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	1	0	0	14
Peshawar	Nowshera	56	0	0	0	0	0	56
Peshawar	Peshawar	56	0	0	0	0	0	56
Peshawar Total		125	0	0	1	0	0	126
S.W Agency	S.W Agency	32	0	0	0	0	0	32
S.W Agency Total		32	0	0	0	0	0	32
N.W Agency	N.W Agency	8	0	0	5	0	4	17
N.W Agency Total		8	0	0	5	0	4	17
Overall		1116	5	10	37	11	22	1201

ANNEXURE K: KP - PLL DATA SUBMISSION – SUMMARY

Division	District	Delivered	Under Progress	Overall
D.I Khan	D.I Khan	50	0	50
Overall		50	0	50

ANNEXURE L: BALOCHISTAN - WATERCOURSE DATA SUBMISSION – SUMMARY

Division	District	Completed	Under Progress			Pending	Overall
			1st Milestone	2nd Milestone	TS Issued	TS Pending	
Kalat	Awaran	150	0	0	0	1	151
Kalat	Kalat	281	0	0	0	1	282
Kalat	Khuzdar	165	0	0	0	0	165
Kalat	Lasbela	154	0	0	35	0	189
Kalat	Mastung	191	0	0	6	1	198
Kalat	Surab	0	0	0	19	23	42
Kalat Total		941	0	0	60	26	1027
Loralai	Barkhan	64	0	0	0	0	64
Loralai	Duki	0	0	0	43	0	43
Loralai	Loralai	335	0	0	0	5	340
Loralai	Musakhail	187	0	0	0	32	219
Loralai Total		586	0	0	43	37	666
Makran	Gwadar	23	0	0	0	0	23
Makran	Kech	59	0	0	9	64	132
Makran	Panjgur	121	0	0	33	0	154
Makran Total		203	0	0	42	64	309
Nasirabad	Jaffarabad	141	0	0	0	0	141
Nasirabad	Jhal Magsi	27	0	0	0	0	27
Nasirabad	Kachi	4	0	0	97	1	102
Nasirabad	Nasirabad	55	0	0	86	28	169
Nasirabad	Sohbatpur	79	0	0	0	0	79
Nasirabad Total		306	0	0	183	29	518
Quetta	Killa Abdullah	110	0	0	0	0	110
Quetta	Pishin	186	0	0	0	1	187
Quetta	Quetta	83	0	0	1	0	84
Quetta Total		379	0	0	1	1	381
Rakhshan	Chaghi	77	0	0	0	0	77
Rakhshan	Kharan	26	0	0	2	40	68
Rakhshan	Nushki	4	0	0	61	36	101
Rakhshan	Washuk	18	0	0	0	2	20
Rakhshan Total		125	0	0	63	78	266
Sibi	Dera Bugti	99	0	0	0	0	99
Sibi	Harnai	42	0	0	0	0	42
Sibi	Kohlu	58	0	0	0	0	58
Sibi	Sibi	60	0	0	0	0	60
Sibi	Ziarat	71	0	0	1	0	72
Sibi Total		330	0	0	1	0	331
Zhob	Killa Saifullah	235	0	0	0	0	235
Zhob	Sherani	51	0	0	0	18	69
Zhob	Zhob	80	0	0	1	0	81
Zhob Total		366	0	0	1	18	385
Overall		3236	0	0	394	253	3883

ANNEXURE M: BALOCHISTAN - WST DATA SUBMISSION – SUMMARY

Division	District	Completed	Under Progress			Pending	Overall
			1st Milestone	2nd Milestone	TS Issued	TS Pending	
Kalat	Awaran	84	0	0	1	2	87
Kalat	Kalat	177	0	0	2	0	179
Kalat	Khuzdar	139	0	0	0	0	139
Kalat	Lasbela	105	0	0	39	6	150
Kalat	Mastung	99	0	0	8	0	107
Kalat	Surab	0	0	0	29	0	29
Kalat Total		604	0	0	79	8	691
Loralai	Barkhan	54	0	0	0	0	54
Loralai	Duki	0	0	0	29	0	29
Loralai	Loralai	113	0	0	0	0	113
Loralai	Musakhel	26	0	0	0	11	37
Loralai Total		193	0	0	29	11	233
Makran	Gwadar	7	0	0	0	0	7
Makran	Kech	35	0	0	18	46	99
Makran	Panjgur	46	0	1	121	1	169
Makran Total		88	0	1	139	47	275
Nasirabad	Jaffarabad	17	0	0	0	0	17
Nasirabad	Jhal Magsi	30	0	0	0	0	30
Nasirabad	Kachi	36	0	0	46	0	82
Nasirabad	Nasirabad	0	0	0	17	0	17
Nasirabad	Sohbatpur	14	0	0	0	0	14
Nasirabad Total		97	0	0	63	0	160
Quetta	Killa Abdullah	55	0	0	0	1	56
Quetta	Pishin	107	0	0	10	2	119
Quetta	Quetta	75	0	1	0	0	76
Quetta Total		237	0	1	10	3	251
Rakhshan	Chaghi	33	0	0	0	14	47
Rakhshan	Kharan	15	0	0	13	8	36
Rakhshan	Nushki	0	0	0	53	9	62
Rakhshan	Washuk	4	0	0	8	2	14
Rakhshan Total		52	0	0	74	33	159
Sibi	Dera Bugti	38	0	0	1	0	39
Sibi	Harnai	21	0	0	0	0	21
Sibi	Kohlu	35	0	0	0	0	35
Sibi	Sibi	23	0	0	0	0	23
Sibi	Ziarat	21	0	0	0	0	21
Sibi Total		138	0	0	1	0	139
Zhob	Killa Saifullah	117	0	0	0	0	117
Zhob	Sherani	25	0	0	0	0	25
Zhob	Zhob	85	0	0	0	0	85
Zhob Total		227	0	0	0	0	227
Overall		1636	0	2	395	102	2135

ANNEXURE N: BALOCHISTAN - PLL DATA SUBMISSION – SUMMARY

Division	District	Delivered	Under Progress	Overall
Kalat	Lasbela	4	0	4
Makran	Panjgur	5	0	5
Makran	Turbat	6	0	6
Nasirabad	Jaffarabad	12	0	12
Nasirabad	Jhal Magsi	1	0	1
Nasirabad	Sohbatpur	3	0	3
Quetta	Killa Abdullah	1	0	1
Sibi	Sibi	2	0	2
Overall		34	0	34

ANNEXURE O: GB - WATERCOURSES DATA SUBMISSION – SUMMARY

Division	District	Completed	Under Progress		Overall
			TS Issued	TS Pending	
Gilgit	Astore	44	0	0	44
Gilgit	Diamer	125	0	0	125
Gilgit	Ghizer	102	0	0	102
Gilgit	Gilgit	109	0	0	109
Gilgit	Hunza	35	0	0	35
Gilgit	Nagar	30	0	0	30
Gilgit Total		445	0	0	445
Skardu	Ghanche	113	0	0	113
Skardu	Kharmang	42	0	0	42
Skardu	Shigar	68	0	0	68
Skardu	Skardu	141	0	0	141
Skardu Total		364	0	0	364
Overall		809	0	0	809

ANNEXURE P: GB - WST DATA SUBMISSION – SUMMARY

Division	District	Completed	Under Progress		Overall
			TS Issued	TS Pending	
Gilgit	Astore	19	0	0	19
Gilgit	Diamer	50	0	0	50
Gilgit	Ghizer	45	0	0	45
Gilgit	Gilgit	60	0	0	60
Gilgit	Hunza	12	0	0	12
Gilgit	Nagar	14	0	0	14
Gilgit Total		200	0	0	200
Skardu	Kharmang	24	0	0	24
Skardu	Shigar	49	0	0	49
Skardu	Skardu	55	0	0	55
Skardu Total		128	0	0	128
Overall		328	0	0	328

ANNEXURE Q: AJK- WATERCOURSES DATA SUBMISSIONS – SUMMARY

Division	District	Completed	Under Progress			Pending		Overall
			1st Milestone	2nd Milestone	Work Order Issued	TS Pending	Work Order Pending	
MZD	MZD	103	0	0	13	7	0	123
	Jhelum	29	1	0	12	0	1	43
	Neelum	61	5	0	7	0	0	73
MZD Total		193	6	0	32	7	1	239
Poonch	Poonch	43	0	0	11	0	0	54
	Bagh	29	1	0	8	1	0	39
	Haveli	10	1	0	4	0	0	15
	Sudhnoti	23	0	0	14	0	2	39
Poonch Total		105	2	0	37	1	2	147
Mirpur	Mirpur	77	0	0	9	0	14	100
	Bhimber	121	0	0	36	0	0	157
	Kotli	42	0	0	8	0	3	53
Mirpur Total		240	0	0	53	0	17	310
Overall		538	8	0	122	8	20	696

ANNEXURE R: AJK - WST/WHs DATA SUBMISSIONS – SUMMARY

Division	District	Completed	Under Progress			Pending		Overall
			1st Milestone	2nd Milestone	Work Order Issued	TS Pending	Work Order Pending	
MZD	MZD	144	1	0	16	0	0	161
	Jhelum	24	0	0	1	2	0	27
	Neelum	0	0	0	1	1	0	2
MZD Total		168	1	0	18	3	0	190
Poonch	Poonch	58	0	1	14	0	0	73
	Bagh	48	0	0	31	0	0	79
	Haveli	29	0	0	5	2	0	36
	Sudhnoti	24	1	0	24	0	0	49
Poonch Total		159	1	1	74	2	0	237
Mirpur	Mirpur	12	0	0	4	0	0	16
	Bhimber	12	0	0	8	0	0	20
	Kotli	36	0	0	8	0	14	58
Mirpur Total		60	0	0	20	0	14	94
Overall		387	2	1	112	5	14	521

ANNEXURE S: ICT - WATERCOURSE DATA SUBMISSION – SUMMARY

Division	District	Completed	Under Progress				Overall
			1st Milestone	2nd Milestone	Work Order Issued	Work Order Pending	
ICT	ICT	41	0	0	0	0	41
Overall		41	0	0	0	0	41