



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

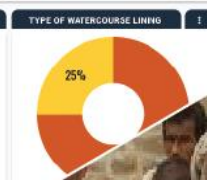
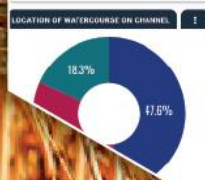
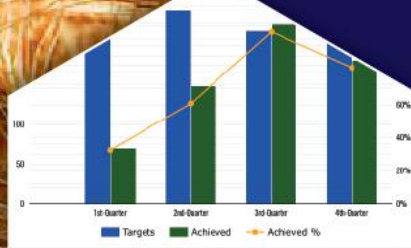
NATIONAL PROGRAM FOR IMPROVEMENT OF WATERCOURSES IN PAKISTAN PHASE-II: (NPIWC-II)

MONITORING, EVALUATION AND IMPACT EVALUATION CONSULTANTS



MONTHLY MONITORING REPORT

DECEMBER 2023



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



In Association with **S&S Associates**



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

Monitoring, Evaluation and Impact Evaluation (ME&IE) Consultants
For

National Program for Improvement of Watercourses in Pakistan Phase-II (NPIWC-II)

MONTHLY MONITORING REPORT

DECEMBER 2023

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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
FMFSR	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 Report for the month of December 2023” comprises 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 the objectives and scope of work of the ME&IE Consultants for the project. Since the ME&IE Consultants are going to monitor implementation of all criteria set, procedures defined, and timeline agreed for implementation of various components. All these are reproduced in this report as ready reference to devise / design M&E strategy, methodology, procedures for monitoring and impact assessments of the project interventions.

The monitoring strategy 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). This current MMR covers the period from 1st December 2023 to 31st December 2023.

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

- Regular Monitoring of Interventions in The Field
- Baseline and Endline Impact survey Field visits
- 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
- Data entry, cleaning, validation
- Submitted the MMR for the Month of November 2023.
- Meetings of ME&IE Consultants with Stakeholders about Project Progress / Issues

Chapter-4 highlights the quarterly work plan for the period of 1st October 2023 to 31st December 2023. The work plan consists of following activities:

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

The detailed time span for the 4th quarter of year 2023 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 Reporting Period

No.	Activities Planned for the Reporting Quarter		Status	
1	Pre-Field Activities			
	1.1	Refresher Training of Field Staff for Baseline and Impact Survey	Completed	
	1.2	Internal Meetings of ME&IE Consultants' Zonal Offices for development of Methodology for endline 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 and Endline Impact survey Fild visits	In Progress	
	2.4	Online data entry in android-based application	In Progress	
3	ICT Assignment:			
	3.1	Development / Improvement of website of NPIWC-II	In Progress	
	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 on regular basis	
	4.2	Meeting of DTLs with respective DTL of NWMC	Meetings conducted on regular basis	
	4.3	Internal Meetings of ME&IE Consultants	Weekly meetings conducted on regular basis	
5	Deliverables:			
	5.1	Monthly Monitoring Reports (MMRs)	33 rd MMR (Sep 2023)	Submitted
			34 th MMR (Oct 2023)	Submitted
			35 th MMR (Nov 2023)	Submitted
	5.2	Quarterly Monitoring & Evaluation Report (QM&ER)	QM&ER Jul-Sep 2023	Submitted
	5.3	Mid-Term Monitoring and Impact Evaluation Report (Consolidated)	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 followings 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

Following is the project 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:

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

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

- per watercourse per annum).
- iii) Construction of 14,932 water storage tanks with 60% subsidy through cost sharing arrangements with the expectation to save about 50% 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 generation of employment.
- vii) Self-sufficiency in food through utilization of water saved 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 manual and operational guidelines.

1.2.3 Project Beneficiaries

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

beneficiaries are expected to be around 3.336 million households. However, net beneficiaries are expected to be 1.668 million.

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

1.2.4 Project Components

The NPIWC-II project comprises four components.

C1: ORGANIZATION OF WATER USERS ASSOCIATIONS:

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

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

C2: WATERCOURSE IMPROVEMENTS:

47,278 Watercourses are planned to be improved /reconstructed and lined adopting the following criteria:

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

C3: CONSTRUCTION OF WATER STORAGE TANKS:

The project will construct 14,932 Water Storage Tanks (WSTs). Following will be the benefits of WSTs:

- i) Store water during the rainy season and times of no use in the commands of perennial / non-perennial canals for subsequent irrigations at the critical crop growth stages,
- ii) Provide flexibility for storage of plentiful canal and rainfall runoff water for its more expedient use subsequently,
- iii) Collect, store and filter water from:
 - Small Dams, springs, streams, mullahs etc.
 - Rainfall runoff over agricultural catchment during rainy season
 - Tube-wells and dug wells of low flows
 - Tail-waters from agricultural fields

- iv) Regulate the flows so that it can be used efficiently when needed at large flow rates.

C4: PROVISION OF LASER LAND LEVELING UNITS:

Provision of 11,610 Laser Land Leveling (LLL) units to the farmers; the component is strengthening LLL services in the country through provision of LLL Units to farmers / service providers on 50% subsidized rates.

1.2.5 Project Targets

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

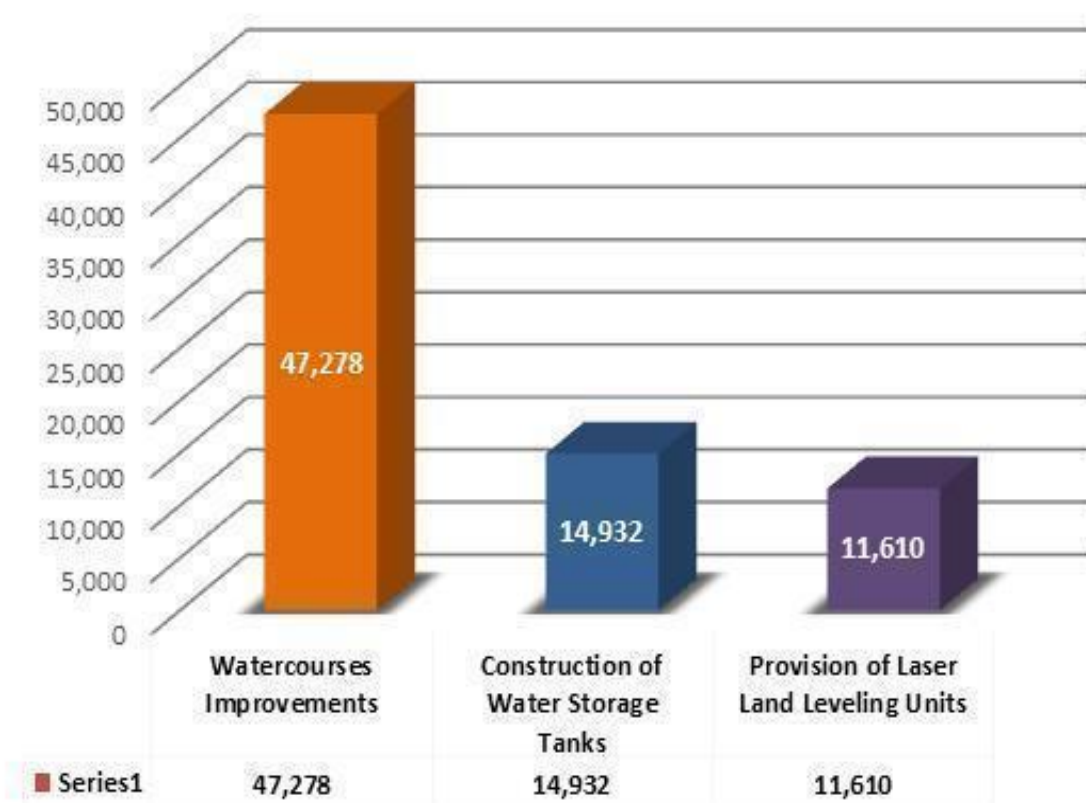


Figure 1.1: NPIWC-II Project WCs, WSTs, and LLL Targets in Pakistan

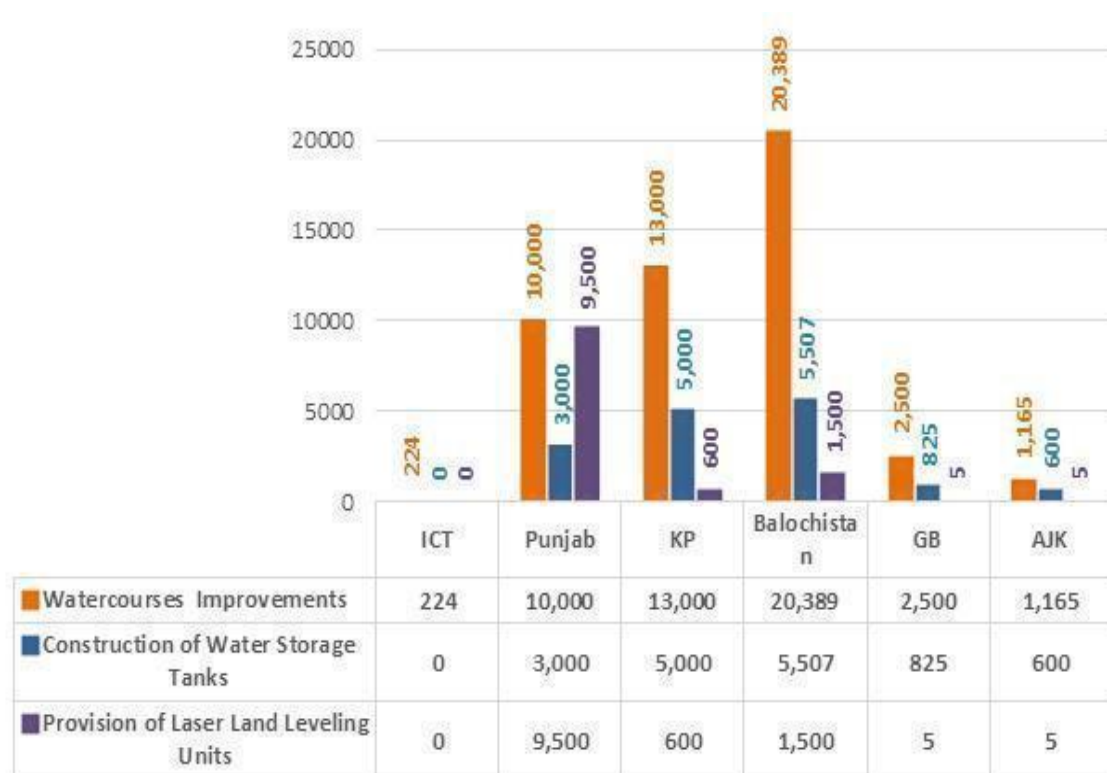


Figure 1 2: Zone-Wise WCs Improvement, WSTs, and LLL Target

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 "Geographical Information System" (GIS) focused for NPIWC-II to monitor progress on project interventions and to carry out an effective monitoring process. The MIS is helping decision makers to make informed decisions.

2.1 OBJECTIVES OF CONSULTING SERVICES

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

2.2 SCOPE OF CONSULTING SERVICES

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

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

- ensuring the maintenance of watercourses, water storage tanks and laser land Levelers,
- viii. Economic impact of project interventions,
- ix. Carry out the impact evaluation of the project intervention on the economy and stakeholders,
- x. Develop a website containing information on facilities and services, applications, procedures, watercourses, water storage tanks and laser Levelers database, etc. (while the project'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 application interface.
- Development of a MIS application as an integral part of web GIS to maintain information on facilities and services, applications, procedures, watercourses database, etc.
- Development of a custom designed mobile application (Android) to capture on-site project progress, geo-tagged photos; should be synchronized with the central MIS/GIS database and application for instant reporting and feedback to the management.
- Application should generate custom designed reports and analysis as per user- defined requirements.
- Application should generate alerts (SMS, email, web-notifications) to the user on the non-conformance of project's key indicators; the application should have the provision to custom define alerts levels and desired notifications.

2.3 MONITORING STRATEGY 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 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 Endline surveys	Team Leader, Socio-Economic Expert, Agricultural Economist and Deputy Team Leader of the respective Province/Unit.	<ul style="list-style-type: none"> Baseline and impact surveys will be carried out on 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 of 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 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 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. Based on water savings on sample watercourses, total water

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

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

2.4 FRAMEWORK AND RESULTS-BASED MONITORING (RBM) INDICATORS

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

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

CHAPTER 3: CONSULTANTS' ACTIVITIES DURING THE REPORTING MONTH

As a regular part of the ME&IE assignment, routine field visits & monitoring of project interventions in the field remained continued by ME&IE consultants. 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 thirty fifth MMR (November 2023). While the thirty sixth MMR (the Report in hand) for the month of December 2023 (December 1, 2023 to December 31, 2023) is being submitted.

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

3.2 ACTIVITIES ICT UNIT – DECEMBER 2023

The monitoring report for the month of December 2023 presented in the proceeding sections that provides a brief overview of the significant actions attempted by the ICT-UNIT, ME&IE consultants:

- Scheduled regular meetings were held with the stakeholders including Coordinating/Client, cooperating, and internal technical personals, as well as, the Administration and Finance departments of the Zonal and National Offices

in order to complete the manned targeted deliverables, on time.

- Baseline and impact survey field visits of 5 WST schemes in chakwal and one in Jhelum district.
- Submitted the MMR Nov-2023 after editing, verifying, and processing through the input of 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.
- Assisted to the Team Leader of the project in preparation of the updated progress of the project that was presented to the Federal Secretary, Ministry of Food Security and Research in the office of the National Project Coordination of the NPIWC-II project.

3.2.1 Overall Progress:

The up-dated activities of the ME&IE consultants of the Islamabad Unit is that they have almost completed their targets of Baseline and Impact surveys, independent as well as the consolidated reports, Midline Impact survey as well as the routine regular monitoring and spot checking activities in collaboration with cooperating field operational departments, viz., OFWM, Water Users Associations and beneficiaries of the targeted schemes (i.e., WC, WST). From inception to date, the ME&IE Consultants ICT field team conducted baseline vis-a'-vis impact surveys of **43** watercourses in AJK & ICT as well as baseline vis-a'-vis impact surveys of more than 18 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.

3.2.2 Quarterly Work and Visit Plan – Islamabad Unit

The ME&IE consultant's ICT & AJK Units have revised the tentative visit schedule for conducting the regular monitoring, spot checking and impact surveys/case studies. These surveys will be focused on the sampled households who have the intention and currently enjoying the benefits from the targeted schemes of WC, WST, and Laser Land Levelers. The quarterly work plan (Jan to March - 2024) is given in the matrix below:

Tentative Field Survey Schedule for the Sampled Schemes during the Current Quarter (January - March 2024)

Sr. No	Date	Zone	district	Village	Scheme	Purpose
1	2-Jan-24	ICT	ICT	MauzaNilor	WC	Regular Monitoring /Spot check/ End Line Impact survey
2	3-Jan-24	ICT	ICT	Chak Shehzad	WC	Regular Monitoring /Spot check/ End Line Impact survey
3	4-Jan-24	ICT	ICT	MauzaChirah	WC	Regular Monitoring /Spot check/ End Line Impact survey
4	8-Jan-24	Punjab	Rwp	Chakri	WST	Regular Monitoring /Spot check/ End Line Impact survey
5	9-Jan-24	Punjab	Rwp	Mahota	WST	Regular Monitoring /Spot check/ End Line Impact survey
6	10-Jan-24	ICT	ICT	ChakShehzad	WC	Regular Monitoring /Spot check/ End Line Impact survey
7	11-Jan-24	Punjab	Rwp	Gandian	WST	Regular Monitoring /Spot check/ End Line Impact survey
8	16-Jan-24	Punjab	Rwp	Salmon	WST	Regular Monitoring /Spot check/ End Line Impact survey
9	17-Jan-24	AJK	Muzaffarabad	TehriyanBala	WST	Regular Monitoring /Spot check/ End Line Impact survey
10	23-Jan-24	AJK	Muzaffarabad	Knoor	WC	Regular Monitoring /Spot check/ End Line Impact survey
11	24-Jan-24	AJK	Muzaffarabad	Musa Agarr	WC	Regular Monitoring /Spot check/ End Line Impact survey
13	25-Jan-24	AJK	Mirpur	Bung	WC	Regular Monitoring /Spot check/ End Line Impact survey
14	6-Feb-24	AJK	Jehlum	Chakhama	WC	Regular Monitoring /Spot check/ End Line Impact survey
15	7-Feb-24	AJK	Jehlum	Langla	WC	Regular Monitoring /Spot check/ End Line Impact survey
16	12-Feb-24	AJK	Jehlum	Kohorian	WST	Regular Monitoring /Spot check/ End Line Impact survey
16	19-Feb-24	AJK	Kotli	Koirata	WC	Regular Monitoring /Spot check/ End Line Impact survey
17	20-Feb-24	AJK	Kotli	Nainsukh	WST	Regular Monitoring /Spot check/ End Line Impact survey
18	26-Feb-24	AJK	Poonch	Topa Tower Kheriyan	WC	Regular Monitoring /Spot check/ End Line Impact survey
19	27-Feb-24	AJK	Poonch	WC-Kanyann	WC	Regular Monitoring /Spot check/ End Line Impact survey
	5-March-24	AJK	Poonch	Mangar	WC	Regular Monitoring /Spot check/ End Line Impact survey
20	6-March-24	AJK	Bhimber	Khol 1	WC & WST	Regular Monitoring /Spot check/ End Line Impact survey
21	7-March-24	AJK	Bhimber	W/C Sakrana	WC & WST	Regular Monitoring /Spot check/ End Line Impact survey
22	12-March-24	Punjab	Texila	Ghazi khohli	WST	Regular Monitoring /Spot check/ End Line Impact survey
23	19-March-24	AJK	Muzaffarabad	Mishtimba	WST	Regular Monitoring /Spot check/ End Line Impact survey
24	26-March-24	AJK	Muzaffarabad	Nora seri	WC	Regular Monitoring /Spot check/ End Line Impact survey
25	27-March-24	AJK	Muzaffarabad	Percha	WC	Regular Monitoring /Spot check/ End Line Impact survey

3.2.3 Meetings/Coordination ICT-Zone/ National Office, Islamabad

The consultants of the NPIWC-II project including Team Leader, Director (JV-G3) and IT Expert had the meeting as well as briefed the updated progress of the project to the Federal Secretary, Food Security & Research in the office of NPC, Islamabad. For the briefing of the above meeting and presentation, a series of in-house meetings were managed pertaining to appraise the updated progress of the project. Moreover, a comprehensive discussion brought under consideration to prepare ourselves to address forthcoming surveys and report writing by envisioning the prospective concerns/ observations already raised by the Project Board of Management and the Steering Committee of the Project entrusted to look after the quantity and quality of the targeted surveys and reports including Baseline, regular and spot checking, and End-line. Additionally, small-scale and large-scale upcoming concerns and opportunities were brought up during the proceedings of the meetings.

Date	27-12-2023
Venue	ICT-Unit/ National Office, Islamabad
Participants	
<ol style="list-style-type: none"> 1. Dr. Usman Mustafa, Team Leader 2. Dr. Ikram Saeed, DTL, ICT-Unit 3. Mr. Manzoor Kassi, DTL, Balochistan 4. Mr. Shumail, IT Expert. 	
Meeting Agenda/Points discussed	
<ul style="list-style-type: none"> o Discussion on field visit plan for four main purposes: <ol style="list-style-type: none"> i. Regular Monitoring ii. Spot Checks iii. Potential Case Studies, and iv. Baseline & End-Line Impact o Opportunity Sampling of watercourses and water storage tanks for Baseline-III survey. o Revisiting field visit plan and budget estimates according to the proposed sites of the prospective schemes/ activities as well as manpower strength employed to conduct the above mentioned surveys. o Project Progress Review meetings and development of strategies to overcome the expected bottlenecks realized in the way of proposed plan to cater them amicably for achieving the targeted activities of the project, etc. 	



ME&IE Consultants' Meeting in the National Office at Islamabad

Some of the Challenges & Mitigation Measures Adopted and Discussed as under:

• Some of the Constraints are:

The proposed field visits could not be fully managed as per the planned schedule, and hence postponed in the light of revised visit/ work schedule as discussed in the earlier section of this report. Some of the hindrances are mentioned herewith:

- Updated list of schemes as well as the targeted sample beneficiaries for the on-going and in-process schemes were not supplied by the respective stakeholders, which is a prerequisite for determining the sample size out of the sampling frame.

Some of the specific Suggestions to Manage the targeted Field as well as National Office Plans:

- a. Access to the Sampling frame list to work out targeted sample size about the sampled interventions for the potential schemes including WCs and WSTs as well as PLLs from the respective stakeholders,
- b. Funds availability to carry out the proposed field tour advances,
- c. First aid box, and basic necessities like, umbrella, water with cooler must be provided to the field teams to combat emergency situation, and
- d. Tablet may be provided with all required IT gadgets (android) to the Field team members for compilation of coordinates as well as online data transfer to the IT-Team.

3.3 ACTIVITIES PUNJAB ZONE – DECEMBER 2023

During the month of December 2024 baseline & endline field survey activity 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 also performed indoor following activities pertained to

The consultants generally remained busy in the usual functions as under.

- Pre-Field Activities- Planning stage
- Field Activities-Collection of data/information from project area.
- Post Field Activities-Review of accumulated data and its validation
- Meeting with Stakeholders/Beneficiaries
- Internal meetings / Capacity building sessions.

3.3.1 Pre-Field Activities

The main Pre-Field Activities were the review of the Consultants past performance and designing strategy for the incoming field survey. The achievements/covered interventions surveyed during. Monitoring. Baseline and impact were reviewed. The sample size in Partially Barani zone and Irrigated Cotton Zone would be comparatively higher in the next survey for proper representation of each area.

3.3.2 Field Activities

During the month under review, the Punjab field teams remained busy with baseline and endline impact field surveys as well as monitoring and spot checking of Watercourses and Water storage tanks in following districts.

District	WC	WST	PLL
Bahawalpur	1	0	0
Chiniot	2	1	0
Chakwal	0	5	0
Dera Ghazi Khan	6	0	0
Faisalabad	6	1	0
Jhang	1	1	0
Jhelum	0	1	0
Kasur	3	0	0
Lahore	1	1	0
Rahim Yar Khan	7	2	0
Rajanpur	5	1	0
Sahiwal	2	0	0
Sargodha	3	0	0

District	WC	WST	PLL
Toba Tek Singh	1	1	0
Grand Total	38	14	0

3.3.3 Post Field Activities

These activities were related to the Review/validation of the accumulated available data/field data viz Water User Associations Improvement of water Courses and Construction of Water Storage Tank/Ponds Intervention Such the Data Collected earlier Were validated for PMIS Dash Board.

3.3.4 Coordination/Meetings with Stakeholders/Beneficiaries

The coordination meetings with stakeholders / beneficiaries of the project were necessary to know the operational Status of OFWM and collection of required information/data. It was a regular practice of ME&IE consultants. Being followed every month.

During the month ME&IE consultants could hold the following physical meeting with field staff of OFWM.

Meeting held with AD (Agri) OFWM Chak Jhumra

Date: 26, December 2023

Venue: Office of the Assistant Director (OFWM) Chak Jhumra. District Faisalabad

Participants:

- Mr. Muhammad Khurshid Mufti Assistant Director OFWM Chak Jhumra
- Mr. Muhammad Yousaf Bhatti
- Deputy Team Leader ME&IE Consultants Punjab zone Lahore
- . Later on, Dr. Zahid Hussain Assistant Director Agri, Extension and M. Usman Cheema Agri. Officer also accompanied

Discussions/Decisions

- The consultants briefed on current activities of the project in the vicinity and asked the AD some details.
- The AD explained the position that in the field at the moment two independent projects namely Punjab Resilient and Inclusive Agriculture Transformation (PPRIAT) and National Program for Improvement of Water Courses_2 (NPIWC_2)
- Each project has its own interventions while operating in the same areas.
- Both participants agreed to have such meetings in the future



The Deputy Team Leader Muhammad Yousaf Bhatti had a Meeting with Mr. M. Khurshid Mufti Assistant Director OFWM ChakJhumra



Group photo Mr. M khurshid Mufti AD OFWM ,Dr Zahid Hussain ADA Extension. M. Yousaf Bhatti DTL ME&IE Consultants and M. Usman Agri. Officer Chak Jhumra

3.3.5 Internal Meeting / Capacity Building

The Team Leader conducted regular meetings with Field Team in- charges/ Field staff to update the project activities. In these meetings, various suggestions were given for the improvement of monitoring tools. Other issues faced by the field teams regarding data collections were also discussed. Moreover, in order to combat these issues few training sessions were held in the premises of the office in order to do capacity building of the field teams. These sessions were held under the supervision of DTL and other Core team members.

3.4 ACTIVITIES KP ZONE – DECEMBER 2023

The ME/IE Consultants are committed to achieving the project objectives well in time. So It is important to keep cordial relations with all the stakeholders including the OFWM Department, beneficiaries of the NPIWC-II, (those farmers who availed water course/water storage tanks construction or improvement facility of the NPIWC-II project), and other relevant departments engaged in agricultural development activities. Keeping

in view the mandate and the available resources in mind the consultants KP zone confined their activities to the OFWM Directorate, Agriculture Secretariat, and other office work. What follows next is the activities performed by the KP zonal office staff in Peshawar during December 2023.

Major activities of ME&IE Consultants, KP Zone include:

- ❖ Meetings (Formal and Informal)
- ❖ Monitoring of data
- ❖ Baseline and Impact survey field visits
- ❖ Verification of WC and WSTs through Google Earth
- ❖ Writing of MMR of November 2023
- **Informal Meetings:** As a routine activity many meetings were held with OFWM Department's relevant officials when and where required to update ME/IE consultants' staff about the ongoing activities of the OFWM Department related to NPIWC-II project. These meetings/contacts were held both physically and telephonically for the collection of relevant information about undergoing schemes. Mostly these meetings were informal. As per the ME&IE discussions with the OFWM Department official, it was found that schemes were mostly completed under the NPIW-II program. New schemes for the construction/improvement of water courses and water storage tanks will be initiated after the release of funds by the authorities.
- **Formal meetings:** No formal meetings were held during December 2023.
- **Field visits:** The KP zone field teams remained busy with baseline and end-line impact field surveys as well as monitoring and spot checking of Watercourses and Water storage tanks in KP zone.
- **Monitoring of data:** Training has been imparted to the officials of the OFWM Department for data entry to the Dashboard. Now they are directly entering the data on the Android application. The ICT Manager KP zone strictly monitors data entries and makes necessary rectifications by guiding the concerned staff of the various districts of KP
- **Verification of WC and WSTs through Google Earth:** ME/IE consultants KP zone made verification of all watercourse, and water

storage tank schemes coordinate through Google Earth and identified incorrect coordinates.

- **Writing of MMR of November 2023:** Drafted MMR of KP Zone for November 2023.

3.4.1 Description of Progress:

During December 2023 the OFWM Department staff extended all possible help to the ME/IE consultants. Close contacts through meetings/Telephone calls with different cadre officials of OFWM department were held regarding the ongoing activities under the NPIW-II during the current reporting month. The purpose of these meetings was to collect the GPS location-based data for dashboard completion and visits of teams to different destinations for baseline surveys. The OFWM directorate extended their usual support and provided all the relevant information. The ME&IE Consultants, KP made frequent visits to the directorate of OFWM for acquainting themselves with the on-going schemes under the NPIW-II by the concerned department. During these meetings general discussions were also made about the perceptions of the OFWM Department officials and of the farmers about these schemes. As per the OFWM Departments officials most of the farmers were satisfied with the benefits of these schemes in terms of increase of crop productivity, cropping intensities and time saving.

FIELD SURVEYS:

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 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 190 watercourses in KP and 40 in GB. Moreover, the consultants had completed baseline vis-a-vis impact surveys of 72 water storage tanks in KP and 15 in GB. Impact assessment field visits of 05 PLL interventions were also carried out in KP. During December 2023 the following districts were visited for baseline and Impact survey of watercourses and water storage tanks.

District	WC	WST	PLL
Battagram	2	0	0
Chitral	6	1	0
Hangu	3	0	0

District	WC	WST	PLL
Karak	4	2	0
Khyber	2	1	0
Kohat	0	1	0
Lakki Marwat	3	1	0
Lower Dir	2	0	0
Lower Mohmand	2	3	0
Mardan	1	2	0
Swabi	2	0	0
Tank	4	1	0
Upper Dir	6	2	0
Upper Mohmand	1	2	0
Grand Total	38	16	0

Data Entry and GPS validation: During December 2023, KP field Teams entered and validated the GPS locations for hundreds of schemes of KP province. The activity was distributed among different team members with help from the ICT team of KP. The OFWM directorate extended their usual support and provided all the relevant information.

3.4.2 Capacity Building of OFWM Staff on Android Application

The ICT team of the ME/IE consultants' have trained the officials of OFWM in Southern, Central and Northern zones for entering data directly to the Dashboard through android applications. Now they are able to enter the data directly to the dashboard from their offices. However, some time when they were stuck somewhere in this exercise, the ME/IE Consultants continuous support was provided to OFWM officials on telephone for any issue while operating the android system and/or data collection process. In this regard the ICT team always paid visits to the Directorate of OFWM KP and assessed the understanding of field staff for utilization of android application to collect the data of GPS coordinates. It was found that there was some negligence from staff of OFWM in the collection of GPS coordinates, which was planned to overcome.

The gaps were filled in the understanding of the field teams of OFWM and ensured that they may follow the principles of the data collection in near future for better data gathering.

3.4.3 Limitations/Hurdles of ME/IE Consultants facing in achieving the required Targets

All the staff members are very devoted and hard-worker towards fulfilling their responsibilities. Similarly, the OFWM staff is extending all possible

help and cooperation towards the ME/IE Consultant KP Zone in providing the required information. Overall, ME&IE Consultants' progress has been a little slow in achieving their goals due to client-side financial constraints.

3.4.4 Key Challenges

As already reported in the MMRs of 2023, certain limitations were noted during meetings with OFWM staff members. These are:

- 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.

3.4.5 General Recommendations:

In order to meet the targets well time following recommendations are forwarded.

- 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.
- First aid box, basic necessities (umbrella) must be provided to field team in order to meet any emergency situation

3.4.6 Quarterly Work Plan – KP Zone

The ME&IE Consultants, KP is committed to accomplishing all deliverables on due dates.

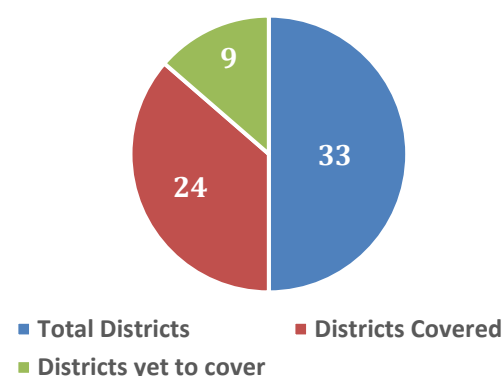
3.5 ACTIVITIES DONE BY BALOCHISTAN ZONE – DECEMBER 2023

3.5.1 Updated Progress of ME&IE Consultants – Balochistan Zone

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 **219** sites were visited during the baseline surveys i.e., **113** Watercourses and **106** 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 2023-24 in which **219** sites (**113** Watercourses and **106** Water Storage Tanks) have

been visited so far. Regular monitoring/spot-checking is another important activity of ME&IE Consultants in which more than **250** sites of 24 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.

No. of Districts Covered by ME&IEC - Balochistan



Summary of ME&IEC Field Activities - Balochistan

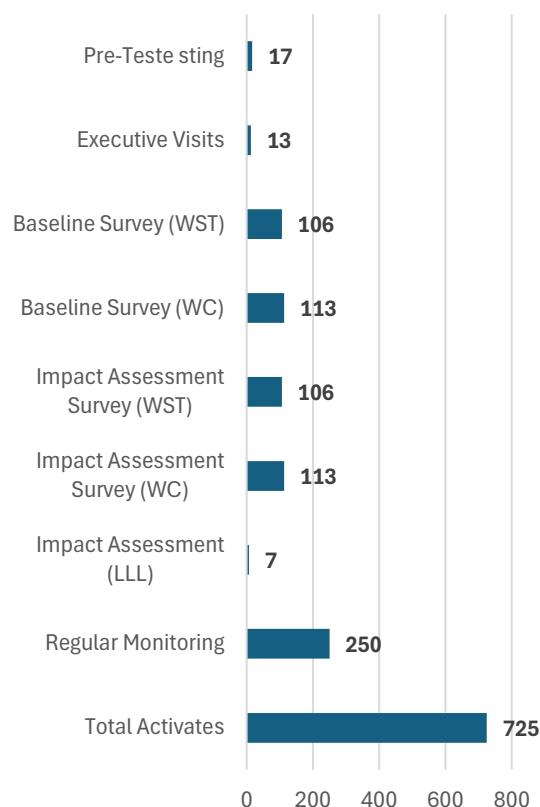


Table-3.2 Summary of Field Activities, District-wise

Sr. #	District	Baseline Survey		Impact Assessment Survey		Impact Survey (LLL)
		WC	WST	WC	WST	
1	Barkhan	3	3	3	3	-
2	Dera Bugti	5	2	5	2	-
3	Duki	2	2	2	2	-
4	Harnai	2	1	2	1	-
5	Jaffarabad	7	1	7	1	4
6	Jhal Magsi	2	4	2	4	-
7	Kachi	5	10	5	10	-
8	Kalat	13	9	13	9	-
9	Khuzdar	3	7	3	7	-
10	Killa Abdullah	5	3	5	3	-
11	Killa Saifullah	4	4	4	4	-
12	Kohlu	3	2	3	2	-
13	Loralai	7	7	7	7	-
14	Mastung	5	8	5	8	-
15	Musakhail	1	1	1	1	-
16	Nasirabad	9	6	9	6	-
17	Nushki	2	1	2	1	-
18	Pishin	10	9	10	9	-
19	Quetta	4	15	4	15	-
20	Sherani	2	2	2	2	-
21	Sibi	3	3	3	3	-
22	Sohbatpur	10	1	10	1	3
23	Zhob	2	1	2	1	-
24	Ziarat	4	4	4	4	-
Sub-Total		113	106	113	106	7

3.5.2 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 Office of Water and Flood Management (OFWM) staff has been extremely supportive, demonstrating a commendable level of responsiveness. Their cooperation has provided the necessary data, covering the fiscal year 2020-21 comprehensively.

The detailed summary of the received data “Technical Sanction (TS)” till F.Y. 2020-21 is listed below:

This significant data forward 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 current F.Y. 2023-24 so that the ME&IE Consultants could update their field visits plan and complete remaining Baseline and impact field survey activities accordingly.

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

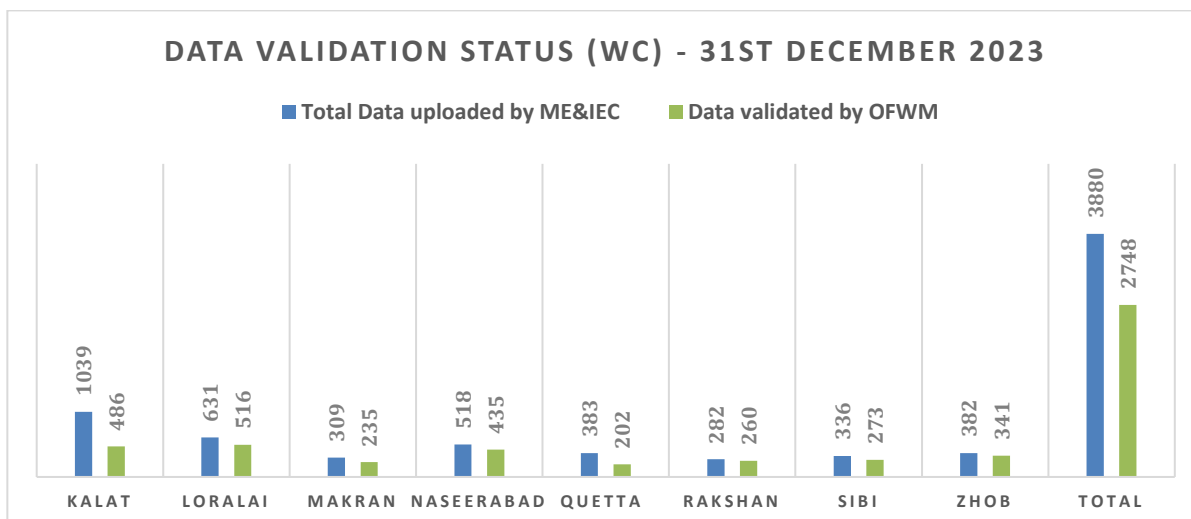
• **District-wise Progress of Dashboard, Balochistan (Watercourses)**

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	Jhal Magsi	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	Dera Bugti	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	Killa Saifullah	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

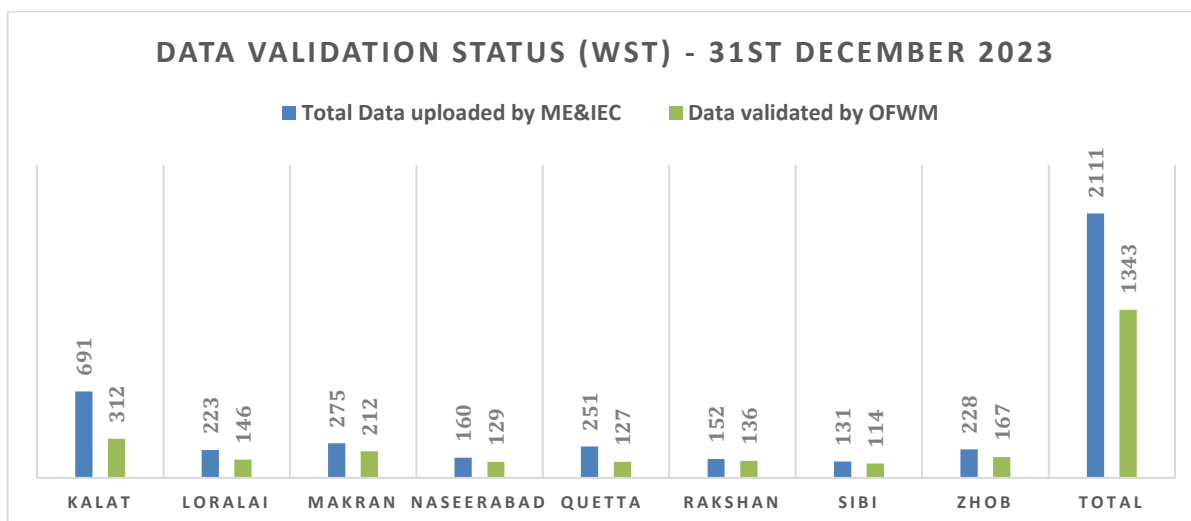
• **District-wise Progress of Dashboard, Balochistan (Water Storage Tanks)**

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	Jhal Magsi	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	Dera Bugti	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	Killa Saifullah	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)**



3.5.3 Meetings:

Date	7 th Dec. 2023
Venue	ME&IE Consultants, National Office, Islamabad.
Participants	
I.	Mr. Usman Mustafa, Team Leader, ME&IEC, NPIWC-II, Islamabad
II.	Mr. Akram Saeed, Deputy Team Leader, ME&IEC, NPIWC-II, Islamabad
III.	Mr. Manzoor Ahmed Kasi, DTL, ME&IE Consultants, NPIWC-II, Balochistan, Quetta
IV.	Mr. Shumail, IT Expert, ME&IE Consultants, NPIWC-II, Balochistan, Quetta
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> A meeting was held at the National Office in Islamabad. 	

- The Team Leader, Deputy Team Leader, ICT, and Mr. Shumail, IT Expert, participated in the meeting.
- The Deputy Team Leader, Balochistan shared the updated progress of the Balochistan zone, including the status of the Balochistan Dashboard.
- The DTL, Balochistan highlighted issues such as the non-availability of funds and vehicles for field activities.
- The forum discussed the planning regarding the 3rd baseline activities.
- The Team Leader assured the Deputy Team Leader, Balochistan of earlier settlements of the issues raised by him.



Figure-4.3: View of meeting with Mr. Imran, DD, FPMU, NPIWC-II held at Quetta Office

Date	21 st Dec, 2023
Venue	Office of the DG, Agriculture, GoB, Rani Bagh, Sariab Road, Quetta.
Participants	
1.	Mr. Saleh Baloch, DD, Kharan, OFWM.
2.	Mr. Manzoor Ahmed Kasi, DTL, ME&IE Consultants, NPIWC-II, Balochistan, Quetta
3.	Mr. Saleem, M&E Officer, ME&IE Consultants, NPIWC-II, Balochistan, Quetta
4.	Mr. Kamran, M&E Officer, ME&IE Consultants, NPIWC-II, Balochistan, Quetta
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> The meeting commenced with a comprehensive review of the updated progress within the Balochistan zone. The DTL, Balochistan provided a detailed overview of the ongoing projects, highlighting achievements, challenges, and areas requiring immediate attention. 	
Figure-4.3: View of meeting with Mr. Imran, DD, FPMU, NPIWC-II held at Quetta Office	

3.6 SOCIAL & GENDER REPORT FOR THE MONTH OF DECEMBER 2023

Gender and Social Component

In the month of December, most of the time is spent by teams in reviewing data and finding a way forward on how women should participate actively in all program components. During the last 3 years it was found that women are not actively participating in water user associations, laser land leveling and water storage ponds.

Women play a substantial role worldwide in the production of food. It is reported that more than half of the food produced in the developing world can be accounted for by women and that they constitute a majority of the workforce in agriculture. Women in Pakistan economies are actively involved in managing farm households, farm decision-making, and working as laborers in agriculture. They don't participate substantially in the construction and maintenance of irrigation systems.

According to an estimate by the United Nations Development Programme (UNDP), US\$ 11 trillion worth of women's contribution remains invisible. The study, based on 31 countries, suggests that women work longer than men, and half of their work is on economic activities. However, most of the work is unpaid, and their contribution continues to be largely overlooked in agricultural policies and programs. Women should play a greater role in managing water since they have substantial involvement and stake in both domestic and agricultural water use. However, women perspectives and roles in water management are rarely taken into consideration in framing policies and programs

While reviewing different reports following are findings

When resources such as water get managed by people, membership and participation in the local institutions become essential in defining the rights over the resources. Women are often found lagging in participation in these institutions.

The participation of women in water user associations (WUAs) Pakistan, is often negligible despite the substantial involvement of women in agricultural production and decision-making. the traditional rather than democratic institutions control natural resources, they tend to carry-on the

power structure existing in the society where women are often ignored.

Decisions related to land-use and crops are often taken jointly by men and women, but irrigation water-related decisions seem to be mainly taken by men. At the community level, irrigation-related decisions are made in forums where women often have little representation. Even if women are members of such groups, they are typically from higher castes or wealthier households, and hence, the poorer and lower caste women are not represented.

Agricultural policies in most developing countries continue to be dominated by the impression that “farmers are men”, and the role of women is restricted to being housewives, homemakers, and helpers. Irrigation is perceived to be the domain of men, and they are considered to be the primary participants of programs and policies by government and development agencies. Even when women play a major role on the farm, they are kept away from the development programs. Water Acts in Pakistan do not address the strategic gender needs, and they largely ignore women.

- Several countries across the world are implementing the transfer of irrigation management from the government to the farmers with an anticipation that it will increase the impact and sustainability of the irrigation systems. Yet, self-governance through management by farmers needs good institutional design, in which participation and empowerment requires significant emphasis. Enhancing farmer participation through participatory processes, inclusive management choices, and regular meetings are crucial for deepening the reform process in natural resource management.

Women and National Water Policies

The National policies—do not give significant importance to the concerns related to gender.

The National Water Policy mentions the need for equity and social justice in water distribution and allocation. However, it does not mention women as a special group and covers only the economically disadvantaged sections (smaller farmers) and socially disadvantaged classes.

The National Water Policy mentions women only once while emphasizing appropriate roles for them in designing participatory water institutions. Though

the two most recent water policies mention women in their documents, all the three water policies do not look at the design from a gender perspective, and none of them gives concrete guidelines or recommendations to make the policies more gender neutral.

The National Policy for Women acknowledges the role played by women in agriculture and emphasizes legal provisions to ensure women’s rights to immovable property such as land. This recognition is expected to address the issues arising out of inadequate legal rights of land to women. The policy also recognizes that non-availability of water puts additional burden on women; hence, it recommends that the design of programs and projects must be done keeping in view women as significant water users. It also suggests the need for involvement and training of women in initiatives on conservation and utilization of water. Unlike the Water Policy, the National Policy for Women pitches for a gender perspective in water resource management strategies. This policy is expected to ensure better participation of women in various stages of water management such as planning, delivery, and maintenance of projects.

The requirements and preferences of women concerning economic activities are not given much attention during the formulation of the policies. Even though the needs of men and women for water are largely the same, their opinions and preferences in decisions such as the timing of irrigation might differ. It is argued that the differences in opinions and preferences might lead to different decisions, and these differences would be more pronounced in a female-headed household. The exclusion from decision-making related to water and irrigation can affect the women in terms of their health, livelihood, and well-being in general. As a result, to ensure greater equity in water access for work and incomes, it is essential to have a focus on gender while framing policies.

3.7 ICT TEAM ASSIGNMENTS

3.7.1 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	19-20	20-21	21-22	22-23	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-E**)

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	107	393	491	991

Total **911** Water Storage Ponds data have been received from Punjab zone and available live on GIS Dashboard. (Detailed Summary attached as **Annex-F**)

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-G**)

KP – WC Data Summary						
Division	2019-20	2020-21	2021-22	2022-23	2023-24	Overall
Bajaur	3	19	39	18	0	79
Bannu	75	35	94	28	0	232
D.I Khan	448	12	110	7	0	577
Hazara	86	68	147	45	0	346
Khyber	6	13	7	1	0	27
Kohat	98	40	57	28	13	236
Kurram	3	5	3	0	0	11
Malakand	182	178	474	62	0	896
Mardan	105	64	88	13	0	270
Mohmand	4	39	17	26	0	86
N.W Agency	2	3	5	1	0	11
Orakzai	0	1	0	0	0	1
Peshawar	141	89	73	38	0	341
S.W Agency	3	12	15	7	0	37
Overall	1156	578	1129	274	13	3150

So far, Total **3150** Watercourses data have been received from KP zone and available live on GIS Dashboard. By which 3028 Watercourses have been lined and remaining 86 watercourses are under progress on different stages like 1st Milestone, 2nd Milestone, and Work Order Issued. The remaining 36 Watercourses are pending with Work Order Approval. (Detailed Summary attached as **Annex-H**)

KP – WST Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
Bajaur	1	10	9	1	21
Bannu	13	10	23	2	48
D.I Khan	81	6	35	0	122
Hazara	28	47	82	12	169
Khyber	1	9	12	0	22
Kohat	27	17	32	14	90
Kurram	1	1	0	0	2
Malakand	74	97	193	9	373
Mardan	16	9	26	2	53
Mohmand	1	40	69	0	110
Orakzai	0	2	0	0	2
Peshawar	36	25	56	15	132
S.W Agency	0	15	15	2	32
N.W Agency	0	8	8	1	17
Overall	279	296	560	58	1193

Overall Water Storage Tank data submissions are **1193** of which **1114** WST have been completed and **55** are under progress. While **24** Water Storage Tanks Work Order Pending. (Detailed Summary attached as **Annex-I**)

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** PLL have been delivered and partial data received from KP zone and available live on GIS Dashboard. (Detailed Summary attached as **Annex-J**)

Balochistan – WC Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
Kalat	597	143	287	0	1027
Loralai	344	148	137	32	661
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	0	382
Overall	2147	694	1002	32	3875

Total **3875** Watercourses data has been received from Balochistan zone of which **3230** Watercourses have been lined, **247** Watercourses are pending at TS Stage and remaining **398** watercourses are under progress and. (Detailed Summary attached as **Annex-K**)

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 this stage the remaining **397** Water Storage Tanks are under progress. (Detailed Summary attached as **Annex-L**).

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** PLL have been delivered and partial data received from KP zone and available live on GIS Dashboard. (Detailed Summary attached as **Annex-M**)

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-N**)

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-O**)

AJK – WC Data Summary						
Division	2019-20	2020-21	2021-22	2022-23	2023-24	Overall
MZD	30	84	53	29	33	229
Poonch	33	32	30	8	29	132
Mirpur	37	96	72	21	62	288
Overall	100	212	155	58	124	649

A total of **649** Watercourses data has been received from AJK zone of which **528** Watercourses have been lined, **11** Watercourses are pending at TS & Work Order Stage, **110** watercourses are under progress. (Detailed Summary attached as **Annex-P**).

AJK – WST Data Summary						
Division	2019-20	2020-21	2021-22	2022-23	2023-24	Overall
MZD	35	56	61	9	23	184
Poonch	13	41	62	33	34	183
Mirpur	2	15	31	6	29	83
Overall	50	112	154	48	86	450

A total of **450** Water Storage Tank data has been received from AJK zone of which **366** Water Storage Tank have been lined, **9** Water Storage Tanks are pending at TS Stage, **75** Water Storage Tanks are under progress. (Detailed Summary attached as **Annex-Q**)

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 and available live on Dashboard. (Detailed Summary attached as **Annex-R**)

3.7.2 On-Going Data Validation & Cleaning

Data submission is an ongoing process & will continue till the end of the project. Zonal Field Staff of AJK, KP, and Balochistan is continuously feeding data through customized Android Application provided & trained by the ICT team of ME&IE consultants.

However, The ICT team is continuously cleaning and validating the received data and communicating mistakes to the concerned Zonal DDs/ADs for correction.

CHAPTER 4: QUARTERLY WORK PLAN- ACTIVITIES (OCTOBER 2023 TO DECEMBER 2023)

The ME&IE Consultants' activities initiating during the 4th Quarter of the year 2023 (1st October 2023 to 31st December 2023) are listed below. A tentative Work Plan for the 4th Quarter of the year 2023 (1st October 2023 to 31st December 2023) showing time span detail is given as **Annex-A**.

4.1 PRE-FIELD-ACTIVITIES

- Refresher Training of Field Staff for Baseline and Impact Survey
- Internal Meetings of ME&IE Consultants' Zonal Offices for development of Methodology for endline impact Survey

4.2 FIELD ACTIVITIES

- Regular Monitoring of Interventions in the Field
- Data collection of the interventions in the field
- Baseline and Endline Impact survey Field visits
- Online data entry in android based application

4.3 ICT ASSIGNMENT

- Development / Improvement 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 Cleaning.

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
Quarterly Monitoring & Evaluation Report-First (JAN-MAR 2021)	Submitted
Monthly Monitoring Report-Fourth (APR 2021)	Submitted
Monthly Monitoring Report-Fifth (MAY 2021)	Submitted
Monthly Monitoring Report-Sixth (JUNE 2021)	Submitted
Quarterly Monitoring & Evaluation Report-Second (APR-JUN 2021)	Submitted
Monthly Monitoring Report-Seventh (JULY)	Submitted
Monthly Monitoring Report-Eighth (AUG 2021)	Submitted
Annual Monitoring & Evaluation Report (1 st)	Submitted
Baseline Survey Report-I	Submitted
Monthly Monitoring Report-Ninth (SEPTEMBER 2021)	Submitted
Quarterly Monitoring & Evaluation Report (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 (MARCH 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

Document	Status
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-Nineteenth (JULY 2022)	Submitted
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
Quarterly Monitoring & Evaluation Report-1 st Quarter year 2023 (JAN – MAR 2023)	Submitted
Monthly Monitoring Report-Twenty-eighth (APRIL 2023)	Submitted
Monthly Monitoring Report-Twenty-Ninth (MAY 2023)	Submitted
Monthly Monitoring Report-Thirtieth (JUNE 2023)	Submitted
Quarterly Monitoring & Evaluation Report-2 nd Quarter year 2023 (APR – JUN 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
Monthly Monitoring Report-Thirty Forth (OCTOBER 2023)	Submitted
Monthly Monitoring Report-Thirty Fifth (NOVEMBER 2023)	Submitted
Quarterly Monitoring & Evaluation	Submitted

Document	Status
Report-3 rd Quarter year 2023 (JUL – SEP 2023)	
Quarterly Monitoring & Evaluation Report-4 th Quarter year 2023 (OCT – DEC 2023)	Report in hand
Annual Monitoring & Evaluation Report (3 rd) 2022-23	Submitted
Baseline Survey Report -I	Submitted
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) (Draft)	Submitted
Baseline (Phase I&II) Consolidated Report - Final	Submitted
Mid-Term Monitoring and Impact Evaluation Report	Submitted
Special Reports submitted:	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-Endline Manual Survey Manual	
7) Android Application PMIS Dashboard Manual	
8) Survey Manual on MTs (Updated)	

* The Yellow highlighted deliverables mentioned above were submitted during the reporting period as specified in the QM&ER.

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

4.6 MATRIX OF RESPONSIBILITIES

The Matrix of Responsibilities is placed at **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 term 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 third level which is execution agency DG, therefore, you are hereby intimated for your personal intervention to sort out these stuck ups.

We have already pointed out 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 has been observed from FPMU vide its Letter dated 12 July 2023 and raise the issue with executing agencies to settle the issue on priority basis.

ANNEXES A to R

ANNEXURE A: TENTATIVE QUARTERLY WORK PLAN (OCTOBER TO DECEMBER 2023)

TENTATIVE WORK PLANNED FOR THE QUARTER (October 2023 To December 2023)												Legend	
												Activity starts	↓
												Activity Ends	↓
												Activity Span	---
No.	ACTIVITIES	3 Months-Year 2023 (Weeks)											
		October				November				December			
		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 Training of Field Staff for Baseline & Endline Impact Surveys												
1.2	Internal Meetings of ME&IE Consultants' Zonal Offices for development of Methodology for Endline Survey												
2	Field Activities												
2.1	Regular Monitoring of Interventions in the field												
2.2	Baseline Survey Phase-III & Impact field survey visits												
2.3	Online data entry in android-based application												
3	ICT Assignment												
3.1	Development / Improvement of website of NPIWC-II												
3.2	Monitoring online data collection and Data entry												
3.3	Monitoring Android based Mobile Application under implementation by field staff.												
3.4	Data collection of interventions in MIS/GIS database												
3.5	Capacity Building Trainings / Refresher of Departments												
3.6	Data Cleaning.												
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 (July-Sep 2023)	↓	↓										
5.3	Midterm Monitoring & Impact Evaluation Report (Consolidated)	↓	↓										

ANNEXURE B: MATRIX OF RESPONSIBILITIES

MATRIX OF RESPONSIBILITIES

LEGEND	
●	Primary Responsibility
○	Secondary Responsibility
○	Assistance

SR. NO.	DELIVERABLE / ACTIVITIES	NPC-FPMU	Agriculture Dept. (CEWMI)	Project Consultants	ME&IE Consultants
1	Provision of Pre-requisite data of project components for starting of Field Activities: • Organization of Water Users Associations, • Watercourses Improvement, • Water Storage Tanks, • Laser Land Levelers,	○	●	-	-
2	Certification of operational documents of the project, • Design, cost estimates, completion reports of watercourses, • Design, cost estimates, completion reports of water storage tanks,	○	○	●	-
3	Undertake baseline, midline and endline surveys of the project activities/interventions in all the project areas.	-	-	-	●
4	Develop monitoring strategy, framework and Result Based Monitoring (RBM) indicators,	-	-	-	●
5	Assessing the water saving per annum on watercourse and water storage tanks as well as aggregate due to the project interventions.	-	-	-	●
6	Assessing the improvement in water availability due to provision of conveyance system.	-	-	-	●
7	Assessing the economic benefits to the agriculture in terms of increase in yield, irrigated area, cropping pattern, cropping intensity, farm income and employment in command area of watercourses and water storage tanks.	-	-	-	●
8	Assessing the extent of community mobilization, financial and administrative sustainability of Water Users' Associations and ensuring the maintenance of watercourses, water storage tanks and laser land levelers.	-	-	-	●
9	Economic Impact of project interventions.	-	-	-	●
10	Carryout impact evaluation of the project investment on the economy and stakeholders.	-	-	-	●
11	Preparation of Monthly, Quarterly and Annual Monitoring, Evaluation and Validation Reports of the project activities.	-	-	-	●
12	Develop a website containing information of facilities and services, applications, procedures, watercourses, water storage tanks, and laser levelers database etc. (Maintaining website should be the responsibility of project staff).	-	-	-	●
13	Provide technical support for the development of a custom-designed mobile application (Android) to capture on-site project progress, geo tagged photos; should be synchronized with the central MIS/GIS database and application for instant reporting and feedback to the	-	-	-	●

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 60%	i. Establishment of 47,278 Water users' associations (WUAs); ii. Registration of 47,278	i. 47,278 WCAs established; ii. 47,278 WCAs registered; iii. 47,278 watercourses improved and lined;	i. Conveyance losses for improved watercourses decreased by about 15 percentage	i. Increase in cropping intensity on improved watercourses by 5-24%; ii. Increase in	i. Increase in farm income; ii. Increase in employment for farm labor; iii. Reduction in	i. The water flow measurements will be carried out at before and after watercourse improvement

Project Sub-components	Targets	Activities	Outputs	Outcome-1	Outcomes-2	Goals / Impact	Methodology for measuring results
	funded by project.	<p>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>		<p>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>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>poverty;</p> <p>iv. Enhanced food security for the country.</p>	<p>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 after employment; <p>vi. The difference between before and after will be considered the</p>

Project Sub-components	Targets	Activities	Outputs	Outcome-1	Outcomes-2	Goals / Impact	Methodology for measuring results
							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 his/her own funds and then received subsidy at 40% on issuance of FCR	i. 14,932 constructed WSTs ii. 14,932 operated and maintained WSTs	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 employment	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 baseline and impact surveys in case of watercourses will also be used for WSTs v. Same data analysis will be carried out here as in case of

Project Sub-components	Targets	Activities	Outputs	Outcome-1	Outcomes-2	Goals / Impact	Methodology for measuring results
							watercourses.
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 agriculture sample surveys. xi. 2-4% sample units will be visited by ME&IE Consultants teams after one years of delivery xii. The unit will be verified xiii. Area treated during the year will be

Project Sub-components	Targets	Activities	Outputs	Outcome-1	Outcomes-2	Goals / Impact	Methodology for measuring results
							collected xiv. Farmers' feedback collected on quality of the unit, quality of the after-sale service, etc.

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	Endline 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: 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	Rajapur	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 F: 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 G: 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 H: 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	60	0	0	13	6	0	79
Bajaur Agency Total		60	0	0	13	6	0	79
Bannu	Bannu	110	0	0	0	0	0	110
Bannu	Lakki Marwat	122	0	0	0	0	0	122
Bannu Total		232	0	0	0	0	0	232
D.I. Khan	D.I. Khan	507	3	0	0	0	0	510
D.I. Khan	Tank	67	0	0	0	0	0	67
D.I. Khan Total		574	3	0	0	0	0	577
Hazara	Abbottabad	30	0	0	0	0	0	30
Hazara	Battagram	49	0	0	0	0	0	49
Hazara	Haripur	73	0	0	0	0	0	73
Hazara	Lower Kohistan	7	0	0	13	1	0	21
Hazara	Mansehra	105	0	14	0	0	0	119
Hazara	Torghar	34	0	0	1	0	0	35
Hazara	Upper Kohistan	9	0	0	0	8	0	17
Hazara	Kolai Pallas	2	0	0	0	0	0	2
Hazara Total		309	0	14	14	9	0	346
Khyber Agency	Khyber	20	0	0	5	2	0	27
Khyber Agency Total		20	0	0	5	2	0	27
Kohat	Hangu	62	0	0	0	0	0	62
Kohat	Karak	82	0	0	0	0	0	82
Kohat	Kohat	92	0	0	0	0	0	92
Kohat Total		236	0	0	0	0	0	236
Kurram Agency	Kurram	10	0	0	0	1	0	11
Kurram Agency Total		10	0	0	0	1	0	11
Malakand	Buner	106	0	0	0	0	0	106
Malakand	Chitral	94	0	0	0	0	0	94
Malakand	Lower Dir	103	0	2	25	4	1	135
Malakand	Malakand	106	0	0	1	1	0	108
Malakand	Shangla	54	2	1	1	1	1	60
Malakand	Swat	282	0	0	0	0	0	282
Malakand	Upper Dir	111	0	0	0	0	0	111
Malakand Total		856	2	3	27	6	2	896
Mardan	Mardan	137	0	0	2	0	0	139
Mardan	Swabi	130	0	1	0	0	0	131
Mardan Total		267	0	1	2	0	0	270
M. Agency	Upper Mohmand	64	0	0	0	0	0	64
M. Agency	Lower Mohmand	22	0	0	0	0	0	22
M. Agency Total		86	0	0	0	0	0	86

Division	District	Completed	Under Progress			Pending		Overall
			1st Milestone	2nd Milestone	Work Order Issued	TS Pending	Work Order Pending	
Orakzai Agency	Orakzai	1	0	0	0	0	0	1
Orakzai Agency Total		1	0	0	0	0	0	1
Peshawar	Charsadda	135	0	0	0	0	0	135
Peshawar	Nowshera	127	0	0	1	2	0	130
Peshawar	Peshawar	73	0	0	1	2	0	76
Peshawar Total		335	0	0	2	4	0	341
S.W Agency	S.W Agency	37	0	0	0	0	0	37
S.W Agency Total		37	0	0	0	0	0	37
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		3028	5	18	63	34	2	3150

ANNEXURE I: KP - WST DATA SUBMISSION - SUMMARY

Division	District	Completed	Under Progress			Pending	Overall
			1st Milestone	2nd Milestone	Work Order Issued	Work Order Pending	
Bajaur Agency	Bajaur	17	0	0	1	3	21
Bajaur Agency Total		17	0	0	1	3	21
Bannu	Bannu	12	0	0	0	1	13
Bannu	Lakki Marwat	35	0	0	0	0	35
Bannu Total		47	0	0	0	1	48
Dera Ismail Khan	Dera Ismail Khan	83	1	1	5	0	90
Dera Ismail Khan	Tank	32	0	0	0	0	32
Dera Ismail Khan Total		115	1	1	5	0	122
Hazara	Abbottabad	18	0	0	0	0	18
Hazara	Battagram	26	0	0	4	0	30
Hazara	Haripur	40	0	0	0	0	40
Hazara	Kolai Pallas	2	0	0	2	0	4
Hazara	Lower Kohistan	0	0	0	0	1	1
Hazara	Mansehra	39	0	5	1	0	45
Hazara	Torghar	17	0	0	1	0	18
Hazara	Upper Kohistan	7	0	0	0	6	13
Hazara Total		149	0	5	8	7	169
Khyber Agency	Khyber	10	0	0	6	6	22
Khyber Agency Total		10	0	0	6	6	22
Kohat	Hangu	12	0	0	0	0	12
Kohat	Karak	73	0	0	0	0	73
Kohat	Kohat	5	0	0	0	0	5
Kohat Total		90	0	0	0	0	90
Kurram Agency	Kurram	2	0	0	0	0	2
Kurram Agency Total		2	0	0	0	0	2
Malakand	Buner	43	0	0	0	0	43
Malakand	Chitral	21	0	0	0	0	21
Malakand	Lower Dir	18	2	4	11	0	35
Malakand	Malakand	24	0	0	0	0	24
Malakand	Shangla	43	0	0	0	1	44
Malakand	Swat	163	0	0	0	1	164
Malakand	Upper Dir	39	1	1	0	1	42
Malakand Total		351	3	5	11	3	373
Mardan	Mardan	32	0	0	0	0	32
Mardan	Swabi	21	0	0	0	0	21
Mardan Total		53	0	0	0	0	53
Mohmand Agency	Lower	31	0	0	0	0	31

Division	District	Completed	Under Progress			Pending	Overall
			1st Milestone	2nd Milestone	Work Order Issued	Work Order Pending	
	Mohmand						
Mohmand Agency	Upper Mohmand	79	0	0	0	0	79
Mohmand Agency Total		110	0	0	0	0	110
Orakzai Agency	Orakzai	2	0	0	0	0	2
Orakzai Agency Total		2	0	0	0	0	2
Peshawar	Charsadda	13	0	0	1	0	14
Peshawar	Nowshera	71	0	0	0	0	71
Peshawar	Peshawar	44	0	0	3	0	47
Peshawar Total		128	0	0	4	0	132
S.W Agency	S.W Agency	32	0	0	0	0	32
S.W Agency Total		32	0	0	0	0	32
N.W Agency	N.W Agency	8	0	0	5	4	17
N.W Agency Total		8	0	0	5	4	17
Overall	0	1114	4	11	40	24	1193

ANNEXURE J: 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 K: 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	190	0	0	6	2	198
Kalat	Surab	0	0	0	19	23	42
Kalat Total		940	0	0	60	27	1027
Loralai	Barkhan	64	0	0	0	0	64
Loralai	Duki	0	0	0	43	0	43
Loralai	Loralai	335	0	0	0	0	335
Loralai	Musakhail	187	0	0	0	32	219
Loralai Total		586	0	0	43	32	661
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	3	0	0	98	1	102
Nasirabad	Nasirabad	52	0	0	89	28	169
Nasirabad	Sohbatpur	79	0	0	0	0	79
Nasirabad Total		302	0	0	187	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	3	0	0	61	37	101
Rakhshan	Washuk	18	0	0	0	2	20
Rakhshan Total		124	0	0	63	79	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	15	66
Zhob	Zhob	80	0	0	1	0	81
Zhob Total		366	0	0	1	15	382
Overall		3230	0	0	398	247	3875

ANNEXURE L: 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 M: 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 N: 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 O: 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 P: 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	26	2	0	12	0	0	40
	Neelum	59	5	1	1	0	0	66
MZD Total		188	7	1	26	7	0	229
Poonch	Poonch	41	0	0	6	0	0	47
	Bagh	29	0	0	8	1	0	38
	Haveli	10	1	0	4	0	0	15
	Sudhnoti	23	0	0	7	0	2	32
Poonch Total		103	1	0	25	1	2	132
Mirpur	Mirpur	77	0	0	6	0	0	83
	Bhimber	121	0	0	36	0	0	157
	Kotli	39	2	0	6	0	1	48
Mirpur Total		237	2	0	48	0	1	288
Overall		528	10	1	99	8	3	649

ANNEXURE Q: 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	19	0	0	3	0	0	22
	Neelum	0	0	0	1	0	0	1
MZD Total		163	1	0	20	0	0	184
Poonch	Poonch	54	0	1	11	0	0	66
	Bagh	44	0	0	20	0	0	64
	Haveli	28	0	0	0	0	0	28
	Sudhnoti	22	1	0	2	0	0	25
Poonch Total		148	1	1	33	0	0	183
Mirpur	Mirpur	12	0	0	3	0	0	15
	Bhimber	12	0	0	8	0	0	20
	Kotli	31	5	0	3	0	9	48
Mirpur Total		55	5	0	14	0	9	83
Overall		366	7	1	67	0	9	450

ANNEXURE R: 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