



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

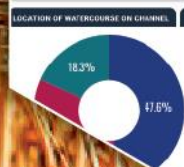
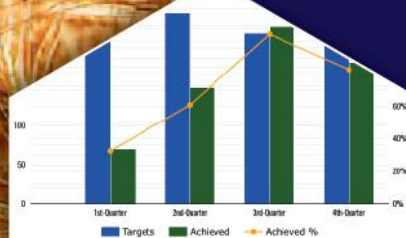
NATIONAL PROGRAM FOR IMPROVEMENT OF WATERCOURSES IN PAKISTAN PHASE-II: (NPIWC-II)

MONITORING, EVALUATION AND IMPACT EVALUATION CONSULTANTS



MONTHLY MONITORING REPORT

JULY 2023



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



EASE-PAK

ADA
Consultants Inc.

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

July 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
IAs	Implementing Agencies
ICR	Interim Completion Report
ICT	Islamabad Capital Territory
IRR	Internal Rate of Return
ICT	Information & Communication Technology
JV	Joint Venture
KP	Khyber Pakhtunkhwa
LLL	Laser Land Leveler
LPS	Liter per Second
M&E	Monitoring and Evaluation
MAF	Million Acre Feet
ME&IE	Monitoring Evaluation and Impact Evaluation
MIS	Management Information System
MNFSR	Ministry of National Food Security and Research

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

EXECUTIVE SUMMARY

The “Monitoring Report for the month of July 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, Baluchistan, 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 July 2023 to 30th September 2023.

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

- Submitted the MMR for the Month of June 2023.
- Validation of Baseline and Impact Survey
- Impact Survey field visits of WCs & WSTs
- Regular Monitoring of Interventions in the Field
- 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
- Preparation of Baseline survey Phase-I&II Consolidated Report
- Preparation for 3rd-Phase Baseline Survey
- Data entry, cleaning, validation
- Meetings of ME&IE Consultants with Stakeholders about Project Progress / Issues

Chapter-4 highlights the quarterly work plan for the period of 1st July 2023 to 30th September 2023. The work plan consists of following activities:

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

The detailed time span for the 3rd 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	Validation of Baseline and Impact Survey	In Progress	
	1.2	Preparation for 3rd-Phase Baseline Survey (Finalization of MTs)	In Progress	
	1.3	Internal Meetings of ME&IE Consultants' Zonal Offices for development of Methodology for 3rd Phase Baseline Survey	In Progress	
	1.4	Training of Field Staff for Impact Survey and 3rd-Phase Baseline Survey	In Progress	
2	Field Activities:			
	2.1	Regular Monitoring of Interventions in the field	In Progress	
	2.2	Field Visits for Impact Survey	In Progress	
	2.3	Data collection of the interventions in the field	In Progress	
	2.4	Baseline Survey Stage III	Pending	
	2.5	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. Development & Launching of Dashboard for Client Offices	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)	30 th MMR (June 2023)	Submitted
			31 st MMR (July 2023)	Report in hand
	5.2	Quarterly Monitoring & Evaluation Report (QM&ER)	QM&ER April-June 2023	Under process
	5.3	Consolidation Report of Baseline Survey Phase-1&II	Under preparation	
	5.4	Consolidation Report of Midterm Impact Survey	Under preparation	

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 (CSRD), 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 benefitted due to Water Users' Associations (WUAs) in terms of cooperative management of irrigation water. Moreover, 14,932 farmers will be directly benefitted from Water Storage Tanks and 11,620 as recipients of

Laser Land Leveling Units. Thus, total gross direct beneficiaries are expected to be around 3.336 million households. However, net beneficiaries are expected to be 1.668 million.

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

1.2.4 Project Components

The NPIWC-II project comprises four components.

C1: ORGANIZATION OF WATER USERS ASSOCIATIONS:

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

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

C2: WATERCOURSE IMPROVEMENTS:

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

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

C3: CONSTRUCTION OF WATER STORAGE TANKS:

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

- 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,
- Provide flexibility for storage of plentiful canal and rainfall runoff water for its more expedient use subsequently,
- 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

- 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**.

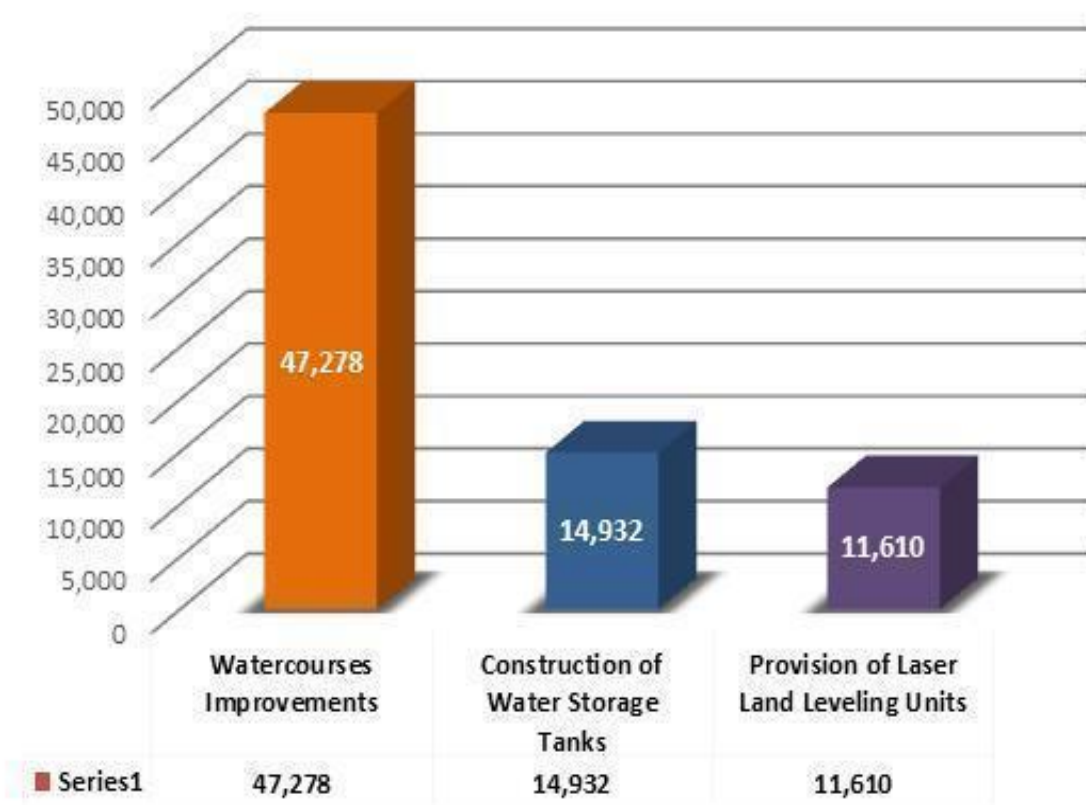


Figure 1.1: NPIWC-II Project WCs, WSTs, and LLL Targets in Pakistan

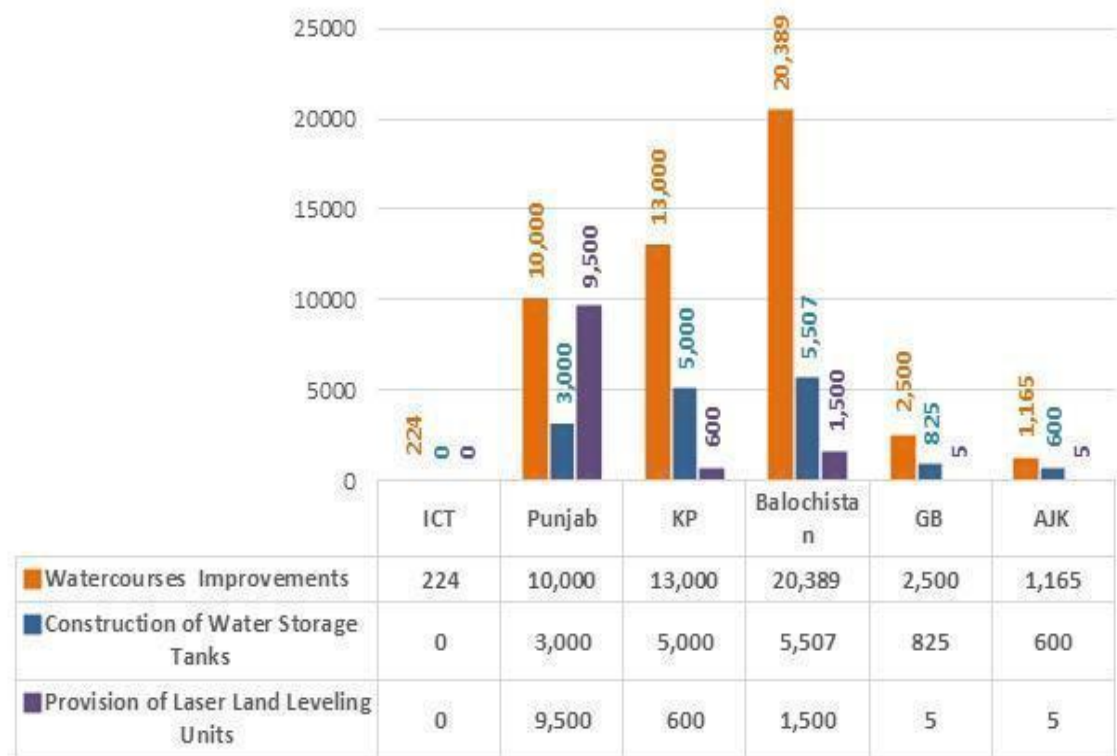


Figure 1 2: Zone-Wise WCs Improvement, WSTs, and LLL Target

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: 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 preselected. 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, Endline 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/	<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

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

Sr. No.	Monitoring Activity	ME&IE Team Responsible	Monitoring Strategy
			<ul style="list-style-type: none"> Data on variables such as crop yields, irrigated area, cropping pattern, cropping intensity, farm income and employment will be collected and analyzed The difference between before and after situations minus natural growth will be assumed as economic benefits to the agriculture.
6	Impact evaluation-on the economy	Team Leader, Agricultural Economist and Socio-Economic Expert	<ul style="list-style-type: none"> The results of the baseline and impact surveys will be used to quantify impact on the economy Additional food produced due to the project will be estimated. It is benefitted towards food security Project costs and benefits will be compared in economic and financial terms to carry out economic and financial analysis. Parameters like IRR, NPV and BCR will be estimated.
7	Impact evaluation-on the stakeholders	Team Leader, Agricultural Economist and Socio-Economic Expert	Analysis as in serial 6 will be carried out 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

Sr. No.	Monitoring Activity	ME&IE Team Responsible	Monitoring Strategy
			<ul style="list-style-type: none"> 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 ME&IE Consultants field teams also carried out midterm Impact survey field visits of Watercourses and WSTs interventions during the reporting month. 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 thirtieth MMR (June 2023). While the thirty first MMR (the Report in hand) for the month of July 2023 (1st July 2023 to 31st July 2023) will be submitted in stipulated time i.e., in the 1st week of the current month.

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 BASELINE SURVEY I&II CONSOLIDATED REPORT

In the light of the Client's comments on Baseline Phase-I & II Reports, the Consolidated Report of Baseline Phase-I&II is under preparation.

3.3 VALIDATION OF BASELINE AND IMPACT SURVEY


Data validation of Baseline and Impact survey continued during this month.

3.4 ACTIVITIES ICT UNIT –JULY 2023

3.4.1 OVERALL PROGRESS:

The key activities performed by the ME&IE consultants of ICT-Unit during the current month are highlighted in the succeeding paragraphs:

- The ME&IE Consultants, Islamabad field team visited 18 Watercourses and 4 WSTs interventions during the reporting month to conduct midterm impact survey. The detailed visiting schedule is given as **Annex-E**, while the pictorial view of Impact survey field visits is given as **Annex-F**.
- The tentative Baseline-III survey plan could not meet due to non- provision of complete list of sampling frame. Thus, the survey plan will be rescheduled upon the availability of list from client.
- Capacity building of the Field team ME&IE consultants carried out through imparting in the training workshops for three days on the topic, "Monitoring and Evaluation Techniques" at PMMI, Islamabad..
- The integrated MMR report for the month of June 2023 was compiled, edited, verified and delivered to the relevant stakeholders.
- Quarterly report for the months from April to June 2023 has prepared, finalized and ready to be submitted.
- Revised Tentative Quarterly Visit Plan of the ME&IE Consultants of ICT- Unit for appraising the targeted Schemes (WC/WST) and to conduct impact evaluation and baseline-III as well as regular monitoring/ spot checking schedule was prepared.
- Annual report (July 2022 - June 2023) has been compiled and finalized for further submissions.
- In addition to the technical responsibilities of the National Office, Islamabad, the Team Leader of the Project and the Deputy Team Leader of the ICT-Unit oversaw and took care of the administrative and financial liabilities manned under their respective jurisdiction.

Date	31-07-2023
Venue	Agri. Complex, Islamabad
Participants	
i.	Engr. Ghufuran Shehzad, Dty. Dir. AE, ICT- Zone.
ii.	Dr. Ikram Saeed, DTL, ICT-Unit, National Office
iii.	Mr. Rasheed Ahmed Zehri, FTI, ICTMs. Sana Gull, ME & IE Officer, ICT.
iv.	Ms. Hafiza Maryam Iqbal, ME & IE Officer, IC
v.	Ms. Sana Gul, ME&IE Officer, ICT-Unit
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> • Debriefing on the status of WC improvements and its O&M aspects. • Discussion on field visit plan for next surveys. • Meeting held with deputy Director, Agri. Extension for seeking the basic data that required before initiating the baseline survey. • Sharing data and list of new interventions with beneficiaries initiated during 2022-23. 	
	
<p>ME&IE Consultants in discussion with Deputy Director Agri. Extension at ICT Agriculture Complex, Islamabad</p>	

3.4.2 CAPACITY BUILDING OF THE ME&IE PROFESSIONALS OF THE ICT-UNIT, ISLAMABAD

The ME&IE consultants including two female officers and one male FTI participated in a training workshop on "Monitoring and Evaluation Techniques" sponsored by PPMI, Islamabad and arranged at its Institute. It was three days training with effect from 19-21 July 2023.

The purpose of training was to train participants in the concepts of Monitoring and Evaluation Techniques and its role towards Project Development. The training was aiming at to enhance the current skills and enhance new learning. Hopefully the aim of the training is to motivate the learners that will benefit towards increasing the productivity as well as the quality of their working

i.e., refreshing the knowledge and skills helping in sharpening the concepts of monitoring and evaluation abilities amongst the participants.

The main areas covered in the training workshop were as follows:

- Development of result-based management indicators.
- Framework of ME& IE for federal Government.
- Preparation of PC- III.
- Analyzing real-World Project Monitoring.

Moreover, the training workshop was also contained topics of participatory development, participatory planning, the functions of local government representatives, and the various abilities and characteristics necessary and sufficient for successful participative planning.

The teaching mode of the trainers was lively and interactive by employing power point presentations. Most of the instructors were trying their best to make sure that each participant may understand better and able to communicate and apply at his work place. The participants were fully at their lib to interact for enhancing their comprehension to the subject matter by asking questions as well as participating in the lively discussion individually and collectively in the class sessions. The resource instructors who were entrusted to impart training were very competent as well as experienced representing the public and private institutions in the town. The training sessions were very much relevant to the jobs that is manned under M&E Moreover, in order to ensure this, trainers engaged participants in discussions and kept the forum open for feedback, queries and suggestions.



ME&IE Field Team consultants, ICT-Unit, Islamabad participating during the training sessions

At the end of training, the participants shared their knowledge with the colleagues learned in the training to recap the whole training course.

Having identified the intended results in a clear, workable and realistic way, helps the participants to build capacity, because it clarifies the participants what they need to concentrate on, what resources they need to put up when for what purpose they are supposed to be looking forward.

3.5 ACTIVITIES PUNJAB ZONE – JULY 2023

3.5.1 Consultants Activities during the Reporting Month

The consultant's activities remained as per conduction of their usual functions.

- Pre – Post Field Activities
- Field Activities
- Meeting with Stakeholders/Beneficiaries
- Any other relevant assignment of the project.

3.5.2 Pre-Field Activities

Deputy team leader had a number of meetings with the field team members and reviewed the various issues relating to the tasks to be completed prior to

actual field operations. The key activities performed by the ME&IE consultants of Punjab Zone is as follows:

- Revised sample size of Improvement of Watercourse Intervention
- Target completed so far (2022 – 23)
- Remaining number of interventions to be covered in the upcoming baseline survey – III.

Year wise Physical Target and Achievements of various Interventions in Punjab

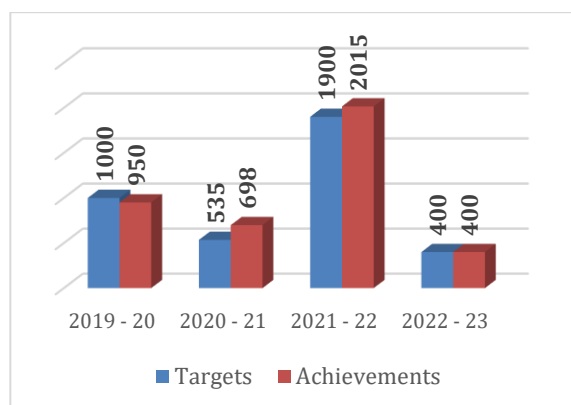
The main point for discussion was of review the past performance and strategy for the future working. The OFWM of Data / Information reviewed the target and achievement of ME&IE consultants for future field activities.

Table 3. 1: Year wise Physical Target and Achievements of various Interventions in Punjab

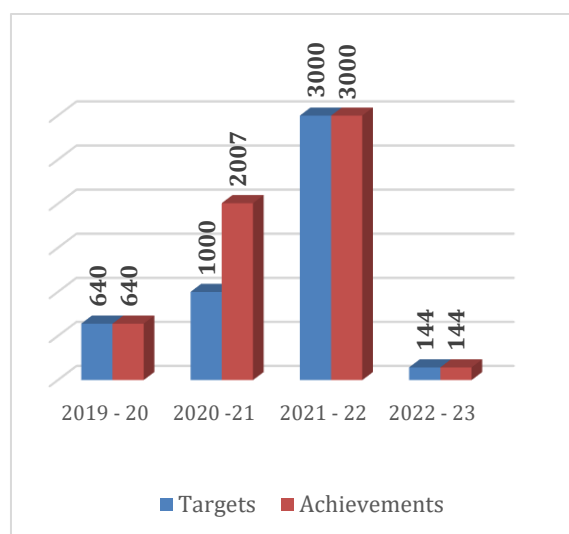
Sr. No	Components / Interventions	PC-I Total Targets	2019-20	2020-21	2021-22	2022-23	Total
1	Improvement of Unimproved Watercourses upto 50% (No.)	2,500	150	117	310	70	647
2	Additional Lining of Partially Improved Watercourses upto 50% (No.)	7,500	800	581	1,705	330	3,416
3	Provision of LASER Land Leveling Units (No.)	9,500	640	2,060	3,000	144	5,844
4	Construction of On Farm Water Storage Tanks/ Ponds (No.)	3,000	101	300	500	120	1,021

Source: OFWM, Lahore

The target for the year 2023 – 24 are under process and have not been finalized yet. The achievement against such target, are shown as under.



Target and Achievements of Improvement of Watercourses Intervention



Target and Achievements of Water Storage Tanks / Pounds Intervention

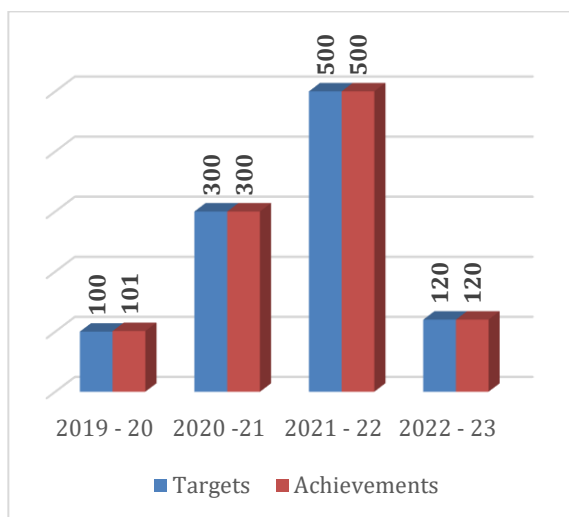


Figure 3. 1: Target and Achievements of Provision of Laser Land Leveler Intervention

3.5.3 Field Activities

During the reporting month the ME&IE Consultants, Punjab zonal field teams visited 52 Watercourses and 18 WSTs interventions during the reporting month to conduct midterm impact survey. The detailed visiting schedule is given as **Annex-E**, while the pictorial view of Impact survey field visits is given as **Annex-F**.

The tentative Baseline-III survey plan could not meet due to non- provision of complete list of sampling frame. Thus, the survey plan will be rescheduled upon the availability of list from client.

3.5.4 Coordination/ Meeting with Stakeholder/ Beneficiaries

The coordination meeting with stakeholder/beneficiaries of the project are necessary to discuss field operational activities. It is a regular practice of ME&IE consultant's to coordinate with stakeholders and to hold such meetings with the beneficiaries. During the period under review the coordination was confined to telephonic conversation rather than physical meetings. Such efforts were necessary to strengthen the relationship between consultants and stakeholders particular the field staff of OFMW.

A meeting at Director General Agri (OFWM) was held, with Focal person of D.G office, as under.

Date:	July 25, 2023
Venue	Director General OFWM Office Davis Road, Lahore
Participants:	
Mr. Tahir Mehmood. Focal Person of DGA OFWM/ DDA Headquarters (OFWM) DDA Climate Change	
i. Muhammad Yousaf Bhatti, Deputy Team Leader ME&IE Consultants Punjab zone Lahore	
ii. Mr. Awais Jahangeer, Focal Person to DGA OFWM, ME&IE Consultants Punjab Zone Lahore	
Discussions/Decisions	
i. Deputy Team Leader, ME&IE Consultants briefed about the ongoing activities of consultants, He shared the overall performance and achievements. Focal Person of DGA OFWM appreciated the efforts of ME&IE Consultants.	
ii. Focal Person to DGA OFWM office ME&IE Consultants shared the plan for upcoming field visits for the impact and baseline-3 survey of Watercourses, Water storage ponds and Laser Land Leveler all over the Punjab.	
iii. Focal Person to DGA OFWM office ME&IE Consultants requested for the coordinates of completed watercourses under NPIWC-II to update on PMIS Dashboard. On this matter Focal Person of DGA OFWM responded that coordinates will be provided in next 2 days.	
iv. Focal Person of DGA OFWM. Shared the intervention wise performance and achievements of the project till 30-06-2023 which is excellent even there was lot of limitations like financial constraints.	
v. Focal Person to DGA OFWM Office ME&IE Consultants requested for the data relevant to Laser Land Leveler to highlight the financial contribution by the government and the economic impact of activity. Focal Person of DGA OFWM ensured his full cooperation for the matter and showed hi consent to provide the data at earliest.	



View of the Meeting held in Directorate General (Agri) OFWM Office Lahore

3.5.5 Impact of Laser Land Level Intervention Case Study of 2 Respondents)

Levelling of uneven land for irrigation purpose is a traditional practice such the long land levelled through manual efforts, using bullock drawn wooden leveler (Kara) or tractor drawn steel leveler. The laser land leveler was introduced in the country during 1985. The laser land leveler has comparatively better capacity of land levelling. Provision of laser land leveler, to the farmers under the umbrella of NPIWC – II is one of the appropriate option for enhancing the water productivity at farm level.

The team interviewed the service provider who had received the delivery of laser land leveler unit at least one year earlier. No doubt the identification of the service provider, location of the respondent could not be contacted out with cooperation /coordination of field staff of OFWM.

It has become a popular option of land levelling because it was an appropriate technique for water saving as well.

In the project this intervention is being provided to the farmer at subsidized rate of maximum Rs 250,000 regardless the price of the unit.

One of the main responsibility of ME&IE consultants was to conduct Monitoring and Impact survey of “Provision of Laser Land Leveler” intervention two respondent were randomly selected and interviewed in this connection as under.

Respondent 1

Name of Service Provider	Mubarak Ali
Father Name	Ghulam Ali
Area Owned Levelled	5 Acres
Tehsil & District	Sheikhupura
Address	Ghanga
Other Area Levelled	500 Acres



ME&IE consultants team interviewing the service provider Mubarak Ali

Respondent 2

Name of Service	Aitzaz Hussain
Father Name	Nazir Ahmad
Area Owned Levelled	5 Acres
Tehsil & District	Shahkot Nankana
Address	Kari wala
Other Area Levelled	500 Acres



ME&IE consultants team interviewing the service provider Imtiaz Hussain



A view of Laser Land Leveler in operation in Village Kariwala

Both the service providers were small farmers, just holding 5 acre of land each. They also belong to same ecological zone i.e. irrigated rice zone. Their response to the team regarding quality of laser unit price and availability of spare parts were satisfactory.

However they suggest that repairing/maintenance workshop of concerned supplier company should be available in respective district headquarter.

As a result of the data / Information gathered from service providers/beneficiaries and their perception,

the main point of impact of the intervention could be summarized as under:

1. Land use intensity – no impact
2. Cropping pattern - cropping intensity cropping pattern no change but a slight increase in cropping intensity was observed
3. Yield per acre in this ecological zone i.e. (irrigated rice zone) two major crops sown were i.e. wheat and rice Average increase in yield of these crops was observed between 25 to 30% due to increase in yield was obviously possible.
 - Uniform distribution of irrigation, water in the field even seed germination and growth of the crops.
 - Reduction in labor utilization in inter cultural practices and harvesting of the crop
 - Providing moisture environment in the field.
4. It was also learned that at 1 to1-5 hour time in irrigation was saved. In terms of water saving it was estimated between 35 to 40 %
5. Overall impact / benefits to the besides the users of intervention includes, employment opportunity. The service providers has to hire at least one person as helper/driver on part time or full time, based at farm lev

3.6 ACTIVITIES KP ZONE – JULY 2023

3.6.1 Updated Progress – July 2023

The following are the activities performed by the KP zonal office staff Peshawar during the month of July 2023.

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

- Meetings
- Monitoring of data
- Impact Survey field visits
- Writing of MMR of June 2023

3.6.2 Meetings:

Frequent routine meetings were held with the OFWM Department relevant official to discuss various issues raised from time to time to the ME/IE Consultants. This is the normal activity of every month. These meetings were held both physically and telephonically for collection of relevant information of undergoing schemes. As per the ME&IE discussions with the OFWM Department official, it was found that schemes were mostly completed under NPIW-II program. New schemes for construction/improvement of water courses and water storage tanks will be initiated after the release of funds by the authorities. In addition to these, formal meetings were also held with special agendas.

Date	July 24, 2023
Venue	Office of the Focal Person of NPIWC-II
Participants	
i.	Mr. Hayat Khan, Focal Person NPIWC-II
ii.	Dr. Humayun Khan, DTL ME/IE consultants KP Zone
iii.	Mr. Fawad Ahmad, Manager ICT ME/IE consultants KP Zone
iv.	Mr. Haris, Engineer OFWM Department
Meeting Agenda/Points discussed:	
Agenda of the meeting was to discuss the observations raised by FPMU on the data entered to the Dashboard, where some of the schemes were shown as stuck-up cases. The problem was discussed in detail, and it was found that the stuck-up cases were reported due to the non-entry of some of the data by the data entry operator. The Focal Person directed the concerned district directors to rectify the mistakes in the data entry to the dashboard on top priority. The meeting was	

adjourned with a vote of thanks by the Focal Person of NPIWC-II project.



Meeting of ME/IE Consultants with Mr. Hayat Khan, Focal Person NPIWC-II, OFWM Department, KP

Coordination Meeting regarding NPIWC-II & NP-ECABA Project activities in KP with PMU Peshawar:

Date	July 26, 2023
Venue	Conference Hall of OFWM Directorate Peshawar
Participants	
i.	Mr. Muhammad Asad, Dy. Director PMU Peshawar
ii.	Mr. Saeed ur Rehman, Program Coordinator PMU Peshawar
iii.	Dr. Humayun Khan DTL, ME/IE Consultants
iv.	NESPAK Consultants Peshawar
v.	Project Director NPIWC-II
vi.	Project Director NP-ECABA
vii.	Dy. Director Agriculture Extension KP
viii.	DG Agri. Engg. KP, Peshawar
ix.	Abdul Hanan, Federal PMU Islamabad
x.	Mr. Fawad Ahmad Manager ICT Me/IE consultants KP Zone
Meeting Agenda/Points discussed:	

Agenda of the meeting was to review/verify the:

- Physical and financial progress review of various projects
- Verification and validation status of various projects
- Updates on previous coordination / JRM Decisions
- Observations of the recent field visit of PMU

The above agenda items were thoroughly discussed by the participants. Details of the meeting will be forwarded after the issuing of minutes of the meeting by the PMU Peshawar.

Pictures of the meeting are placed below.



Coordination meeting with PMU KP Peshawar

Monitoring of data: Trainings have been imparted to the officials of the OFWM Department for data entry to the Dashboard. Now they are directly entering the data on android application. The ICT Manager KP zone strictly monitors data entries and make necessary rectification 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 watercourses, and water storage tank schemes coordinate through Google Earth and identified incorrect coordinates.

During the reporting month the OFWM Department staff as usual extend all possible help towards the ME/IE consultants. Close contacts though meetings/Telephone calls with different cadre officials of OFWM department were held regarding the ongoing activities under the NPIWC-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. OFWM directorate extends their usual support and provided all the relevant information. The ME&IE Consultants, KP made frequent visits to the directorate of OFWM for acquainting their-selves about the on-going schemes under the NPIW-II by the concerned department. During these meetings general discussion were also made about the perceptions pf the OFWM Department officials and of the farmers about these schemes. As per the OFWM Departments officials most of the farmers were satisfied from the benefits of these schemes in terms of increase of crop productivity, cropping intensities and time saving.

3.6.3 Field surveys

Monitoring / Validation of Baseline and Impact 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.

During the reporting month the ME&IE Consultants, KP Zonal field teams visited 42 Watercourses and 15 WSTs interventions during the reporting month to conduct midterm impact survey. The detailed visiting schedule is given as **Annex-E**, while the pictorial view of Impact survey field visits is given as **Annex-F**.

The tentative Baseline-III survey plan could not meet due to non- provision of complete list of sampling frame. Thus, the survey plan will be rescheduled upon the availability of list from client.

3.6.4 Data Entry and GPS validation

During the month of July 2023, KP Teams entered and validated the GPS locations for hundreds of schemes of Baluchistan and KP province. The activity was distributed among different team members with help

of ICT team of KP. OFWM directorate extends their usual support and provided all the relevant information.

3.6.5 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, But some time they stuck somewhere in this exercise the ME/IE Consultants continuous support was provided to OFWM officials on telephone for any issue while operating android system and/or data collection process. In this regard the ICT team paid a number of visits to Directorate of OFWM KP and assess 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 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 principals of the data collection in near future for better data gathering.

3.7 ACTIVITIES DONE BY BALOCHISTAN ZONE – JULY 2023

- Updated progress of ME&IE Consultants, Balochistan by July 2023.
- Targets of F.Y. 2022-23
- Updated status of Data Validation – Dashboard Balochistan and
- Success Story
- Meetings
- Tentative Work Plan, Balochistan Zone.

3.7.1 Updated Progress Of ME&IE Consultants – Balochistan

The ME&IE Consultants, Balochistan, have monitored 17 sites during the pre-testing of Monitoring Tools in different months. A total of 13 sites were monitored during executive visits with high officials. The ME&IE Consultants, Balochistan have conducted two baseline surveys, the first was conducted in 2021 and the second was conducted in 2022. A total of 149 sites were monitored during the baseline surveys i.e., 61 Watercourses and 88 Water Storage Tanks. The ME&IEC, field teams monitored 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 in which 149 sites have been monitored so far. Regular monitoring/spot-checking is another important activity of ME&IE Consultants in which 181 sites of different districts have been monitored until the reporting month. In regular monitoring, ME&IE Consultants monitored ongoing / completed sites covering all financial years i.e., 2019-20, 2020-21, and 2021-22. The Balochistan field teams have so far monitored 77 Watercourses and 101 Water Storage Tanks in regular monitoring. The Department's beneficiaries list of F.Y. 2022-23 is in progress. As soon as the Department initiates the works on F.Y. 2022-23 and finalizes the beneficiaries' lists, the ME&IEC, Balochistan will start the "Baseline Survey – 3" activities accordingly. The updated status of the total activities done is given in the below table:

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

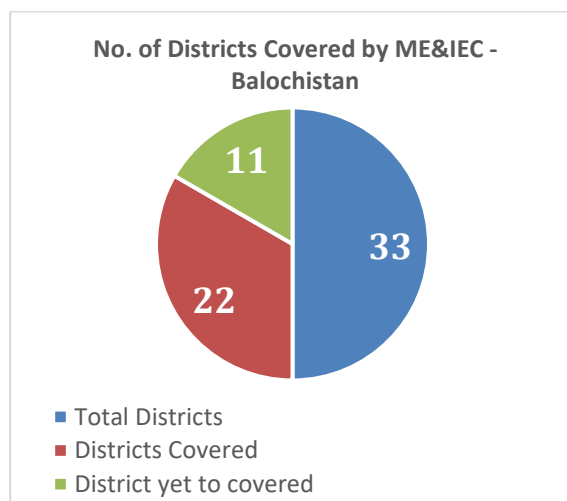


Figure 3. 2: No of Districts Covered by ME &IEC – Balochistan

3.7.2 Field Visits, Balochistan Zone:

Field Visit 1 on 07-07-2023

Monitored by Manzoor Ahmed, DTL Balochistan.

Scheme	WST
Farmer Name	Tamas Khan
Name of village:	Sangar
Union council:	Sangar
Chairman WUA:	Tamas Khan
District:	Noshki
Tehsil	Noshki
Source of irrigation:	Tube Well
Shape of water storage	Rectangular
Size of water storage tank:	60 x 60
Depth of WST:	4.5 Feet
Command area of water	15 Acre
No of beneficiaries:	05
Quality of work	Good
Cropping intensity	Yes 40%
Crops yield increased	Yes 20%
Equity in water	Yes
Reduction in water	Yes
Poverty reduction	Yes
Cement industry, bricks	Yes
Overall feedback of	Former was happy
General Observations	Crop intensity



Field Visit Pics

Field Visit 2 on 07-07-2022

Scheme:	WC
Name of Farmer:	Mohammad Yousaf
Name of village:	Gaznali
Union council:	Gaznali
Chairman WUA:	Mohammad Yousaf
District:	Noshki
Tehsil	Qazi Abad II
Source of irrigation:	Tube Well
Total length of	3800ft
Estimated length of	3800ft
Command area of	20 Acre
No of beneficiaries:	05
Quality of Work	Satisfactory
Cropping intensity	Yes
Crops yield increased	Yes
Equity in water	Yes
Poverty reduction	Yes
Cement industry, bricks	Yes
Overall feedback of	.
General Observations	Work was found satisfactory.



Field Visit Pics

Field Visit 3 on 07-07-2022

Scheme:	WC
Name of Farmer:	Zafar Ahmed
Name of village:	Gaznali
Union council:	Gaznali
Chairman WUA:	Zafar Ahmed
District:	Noshki
Tehsil	Qazi Abad II
Source of irrigation:	Tube Well
Total length of	3800ft
Estimated length of	3800ft
Command area of	22 Acre
No of beneficiaries:	05
Quality of Work	Satisfactory
Reduction in Water	NA
Cropping intensity	Yes
Crops yield increased	Yes
Equity in water	Yes
Reduction in water	NA
Poverty reduction	Yes
Cement industry, bricks	Yes
Overall feedback of	Farmer was satisfied
General Observations	Water saved





Field Visit Pics



Field Visit Pics

Field Visit 4 on 07-07-2022

Scheme:	WC
Name of Farmer:	Ghulam Raza
Name of village:	Teeri
Union council:	Shireen Aab
Chairman WUA:	Ghulam Raza
District:	Mastung
Tehsil	Sheikhan II
Source of irrigation:	Tube Well
Total length of	2000ft
Estimated length of	2000ft
Command area of	30 Acre
No of beneficiaries:	05
Quality of Work	Satisfactory
Cropping intensity	Yes
Crops yield increased	Yes
Equity in water	Yes
Poverty reduction	Yes
Cement industry, bricks	Yes
Overall feedback of	Former was happy and
General Observations	The cultivated land



3.7.3 Success Story:

The Profound Impact of RCC Pipe in Gazanli Village, District Noshki, Rakhshan Division



Addressing the pressing water scarcity issue and implementing effective water management strategies have emerged as critical imperatives in Pakistan. The Balochistan has faced a significant challenge due to the drastic depletion of freshwater resources over the past decade, signaling an alarming trend. It has become increasingly evident that adopting efficient water management techniques, such as Pakka Watercourses, RCC Pipes, and the construction of Water Storage Tanks, is imperative, especially considering that over 90 percent of water is utilized for irrigation.

Watercourses serve as communal channels for distributing water among stakeholders through a weekly rotation system known as "warabandi." These community watercourses interconnect with farmers' fields via an intricate network of channels and ditches. Losses in these watercourses are estimated at around 40 percent, primarily resulting from spillage, seepage, side leakage, and evaporation.

These losses lead to a significant shortage of irrigation water at the farm level, particularly in tail reaches, compelling farmers to resort to groundwater for irrigation.

However, the groundwater in most areas of Balochistan is unsuitable for crop irrigation, leading to soil degradation. To curb water losses and enhance conveyance efficiency on farms, the lining of watercourses and the implementation of the RCC Pipe Scheme have proven to be a highly feasible solution. This approach not only reduces conveyance losses but also improves conveyance efficiency by up to 80 percent, offering a range of additional benefits.

In 2019, the Agriculture Department's On-Farm Water Management (OFWM) wing in Balochistan initiated NPIWC-II activities. The diligent efforts of the OFWM Balochistan staff, under the guidance of the esteemed Director General, OFWM Balochistan, are aimed at timely completion of all interventions.

The enhancement of watercourses is a community-driven endeavor conducted through a participatory approach that actively engages Water Users Associations (WUAs), established and registered for each watercourse. This community-based development model is empowering impoverished and small landholders to uplift their living standards.

Members of WUAs and other community members have been reaping the benefits and experiencing the positive impacts of watercourse provision under NPIWC-II. The village of Gazanli in Noshki district was grappling with substantial water loss due to seepage, side leakage, and spillage, resulting in severe water scarcity on their farms. Groundwater, being unsuitable for irrigation, had left a significant portion of land in Gazanli uninhabited, plunging the village's residents into dire economic conditions. In this context, the farmers of Gazanli village demanded the implementation of the RCC Pipe under NPIWC-II to tackle this pressing issue. These villagers irrigated an area of approximately 10 acres, and their situation was exacerbated by substantial losses caused by unlined watercourses. Meeting the irrigation needs of all fields was proving extremely challenging.

Upon discovering the government's watercourse improvement facility, the community sought assistance from OFWM staff. The OFWM team proposed the construction of an RCC Pipe to ensure a smooth water flow across the entire command area. With the Balochistan Government's approval for an

RCC Pipe under the FY 2020-21 National Program for Improvement of Watercourses in Pakistan, Phase-II, named after Mohammad Yousaf in response to their demand and feasibility assessment, the community availed this vital opportunity that has transformed their lives.



Prior to the RCC Pipe scheme's implementation, only 10 out of 40 acres were under cultivation in Gazanli village, yielding low incomes from wheat and onions. After the completion of RCC Pipe scheme, the cultivable land area expanded to 20 acres, cultivating cumin alongside vineyards. This expansion significantly increased income and improved livelihoods. Farmer Muhammad Yusuf expressed his aspiration to NPC Mr. Muhammad Asif, during his recent field visits of this scheme in the month of July 2023, advocating for water storage tank schemes to further expand cultivation.



Mr. Muhammad Yousaf, Chairman of the Water Users Association, and RCC Pipe shareholders highlighted the positive outcomes of the improved RCC Pipe Scheme, noting that conflicts and disputes had notably diminished.

Farmer Muhammad Yusuf expressed his elation, emphasizing that unlined drains had caused substantial irrigation challenges and wastage of time and water. However, after the RCC pipe availability, these issues had markedly decreased.

3.7.4 Updated Status Of Dashboard Balochistan.

The ME&IE Consultants expressed deep concern regarding the quite weak response from some Deputy Directors, OFWM concerning the data validation process for the Dashboard Balochistan. Despite multiple requests and telephone calls, it is disheartening to note that the necessary tasks have not been completed as yet.

The accurate and reliable representation of data on the Dashboard is of utmost importance to ensure informed decision-making and future planning regarding NPIWC-II sustainability. The delays and inadequate response from the DDs are hindering the progress of this critical initiative. We understand the complexities and challenges involved, but it is imperative that we prioritize the completion of this task as soon as possible for the benefit of the farmers of Balochistan.

The worthy DG, OFWM, Balochistan is requested to direct the concerned teams to expedite the data validation process and provide the necessary support and resources they require. It is also requested to give necessary direction to all DDs and concerned staff to fill the beneficiary data of current F.Y. 2022-23 so that the ME&IE Consultants could be finalized the field visits plan and start the 3rd Baseline activities accordingly.

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

Table 3: 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

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
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		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
(%)		61%		71%		92%		71%	

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

Table 4: •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

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	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%	

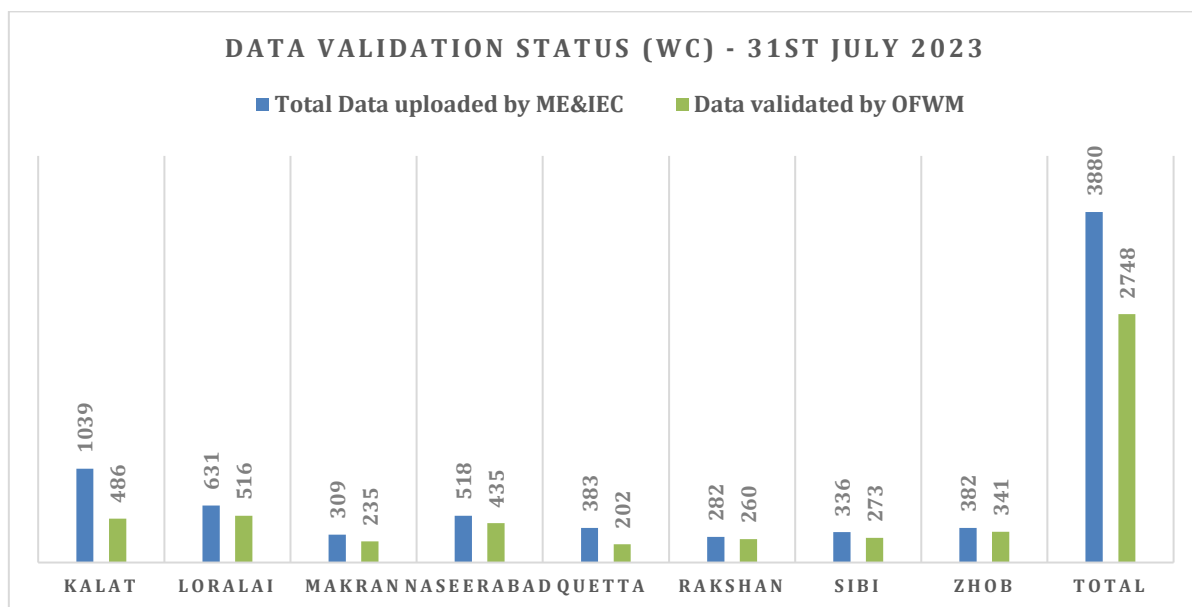


Figure 3. 3: Division-wise Graphical Progress of Dashboard, Balochistan (Watercourses)

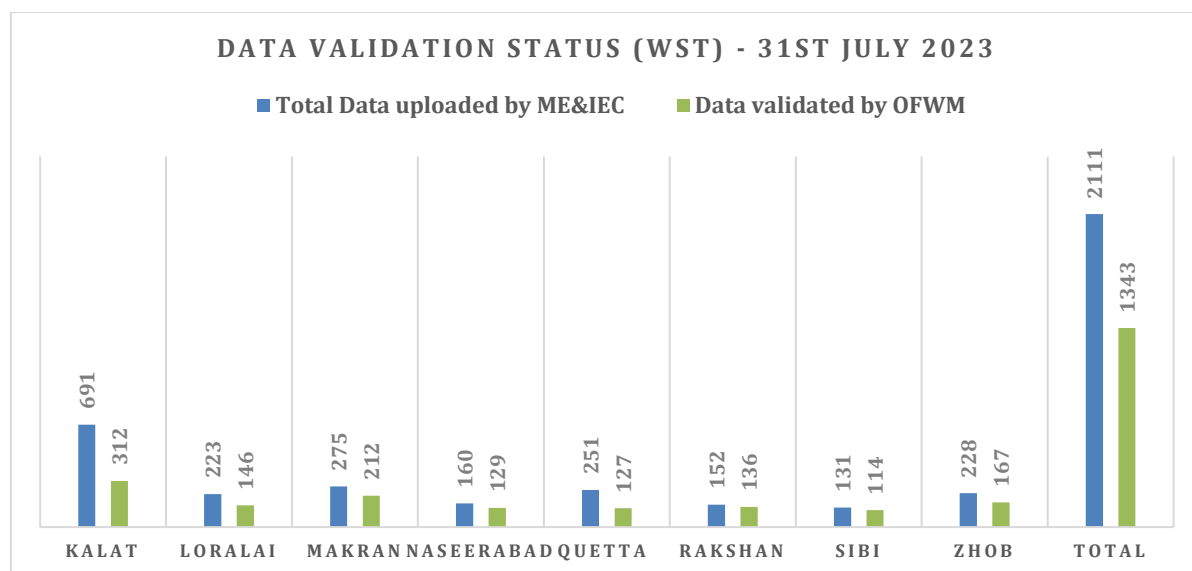


Figure 3. 4: Division-wise Graphical Progress of Dashboard, Balochistan (Water Storage Tank)

3.7.6 MEETINGS:

Date	04 th July 2023
Venue	ME&IE Consultants Office, Arbab Karam Khan Road, Marri Street, Quetta
Participants	
v) Mr. Manzoor Ahmed Kasi, DTL, ME&IE Consultants, NPIWC-II, Balochistan, Quetta	
vi) Ms. Abida, Social and Gender Specialist, ME&IEC, NPIWC-II, Balochistan.	
Meeting Agenda/Points discussed:	

- The DTL of Balochistan provided an overview of the ongoing activities of ME&IEC in the Balochistan Zone.
- The Social and Gender Specialist presented the latest progress report on Social and Gender activities, with a specific focus on the Balochistan zone.
- The DTL of Balochistan and SGS discussed and confirmed the meetings scheduled with stakeholders of NPIWC-II.



The DTL, Balochistan discussed different issues with Social and Gender Specialist at Zonal Office, Quetta.


Date	04 th July 2023
Venue	ME&IE Consultants Office, Arbab Karam Khan Road, Marri Street, Quetta
Participants	
vii) Mr. Rizwan Ahmed, Technical Resource Person, ME&IE Consultants, NPIWC-II.	
viii) Mr. Manzoor Ahmed Kasi, DTL, ME&IE Consultants, NPIWC-II, Balochistan, Quetta	
ix) Miss Abida, Social and Gender Specialist, ME&IE Consultants, NPIWC-II, Balochistan.	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> A meeting held in office of Technical Resource Person, ME&IE, NPIWC-II. During the meeting between Technical Resource Persons, DTL, Balochistan and Social and Gender Specialist on Agriculture setup in Balochistan, several technical points were discussed. These points highlighted the role of women's participation in the Balochistan tribal setup. Here are some meeting points: <ul style="list-style-type: none"> Empowering women in agriculture. Gender-responsive agricultural policies. Capacity building and training. Women's cooperative initiatives. Access to finance and credit. Social and cultural barriers. The meeting emphasized the significance of data collection on women's roles and contributions in Baluchistan's agricultural sector. The participants discussed the need for comprehensive data collection to understand the specific challenges faced by women farmers and design targeted interventions accordingly. Overall, the meeting focused on recognizing the importance of women's participation in the Balochistan tribal setup, promoting gender equality in agriculture, and ensuring that women have equal opportunities to 	

contribute to and benefit from agricultural development initiatives.



View of meeting held in the office of Technical Resource Person, ME&IE, and NPIWC-II.

Date	05 th July 2023
Venue	DG Office, OFWM, Rani Bagh, Sariah Road, Quetta
Participants	
x) The DG, OFWM, Balochistan, Agriculture Department, Govt. of Balochistan, Quetta	
xi) Miss Abida, Social and Gender Specialist, ME&IE, NPIWC-II.	
xii) Mr. Basit, M&E Officer, ME&IE for NPIWC-II, Quetta.	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> A meeting took place at the office of the Director General (DG) of OFWM, Balochistan. During the session, the forum deliberated on matters concerning the Social and Gender Component of NPIWC-II. The SGS of ME&IE emphasized the need to enhance women's participation in the agriculture sector of Balochistan. 	
View of meeting with DT, OFWM, and Balochistan in his good office.	


Date	05 th July 2023
Venue	DG, OFWM Office, Rani Bagh, Sariat Road, Quetta
Participants	
i) Mrs. Dure Simi, Director, Women Division, Agriculture Department, Govt. of Balochistan, Quetta	
ii) Mr. Manzoor Ahmed Kasi, DTL, ME&IE Consultants, NPIWC-II, Balochistan, Quetta	
iii) Miss Abdida, Social and Gender Specialist, ME&IEC, NPIWC-II, Balochistan.	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> A highly productive meeting was held with the Director of the Women's Division in the Agriculture Department of the Government of Balochistan, Quetta. Various issues regarding women's participation in agricultural activities were discussed. The discussion revolved around how women's involvement can be effectively integrated into agricultural activities at a broader scale. The Director of the Women's Division was briefed by SGS, ME&IEC regarding the role of Monitoring and Evaluation Consultants, and a detailed discussion took place on the Social and Gender components. 	
	
Meeting with Direct, Women Division, Agriculture Department, GoB, Quetta	

Date	05 th July 2023
Venue	DG, OFWM Office, Rani Bagh, Sariat Road, Quetta
Participants	
i) Mr. Noor Ahmed, DD, OFWM, Quetta	
ii) Mr. Manzoor Ahmed Kasi, DTL, ME&IE Consultants, NPIWC-II, Balochistan, Quetta	
iii) Mr. Qari Abdul Basit, Sub Engineer, OFWM, Quetta	
iv) Miss Abdida, Social and Gender Specialist, ME&IEC, NPIWC-II, Balochistan.	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> A meeting was held in the office of Mr. Noor Ahmed, DD, OFWM, Quetta district 	

- The DTL, Balochistan and SGS attended the meeting and discussed the issues related to Social and Gender and women participation in agriculture activities.



Meeting with DD OFWM, District Quetta.

Date	05 th July 2023
Venue	The office of the Project Consultants, Balochistan, Arbab Karam Khan Road, Marri Street, Quetta
Participants	
i) Mr. Khalid Mehmood, DTL, Balochistan, Project Consultants, NPIWC-II, Quetta	
ii) Mr. Manzoor Ahmed Kasi, DTL, ME&IE Consultants, NPIWC-II, Balochistan, Quetta	
iii) Miss Abdida, Social and Gender Specialist, ME&IEC, NPIWC-II, Balochistan.	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> A meeting was held in the office of DTL Balochistan with Project Consultants Quetta and different project related issues of NPIWC-II were discussed. 	
	
View of meeting with DTL, Balochistan, Project Consultants, Quetta	

Date	13 th July 2023
Venue	ME&IE Consultants Office, Arbab Karam Khan Road, Marri Street, Quetta
Participants	
i) Mr. Saeed Khosa, DD, OFWM, Usta Muhammad.	
ii) Mr. Muhammad Shareef, FTI, ME&IE Consultants, NPIWC-II, Balochistan.	

Meeting Agenda/Points discussed:

- A meeting was held with DD, OFWM, Usta Muhammad in his good office.
- The beneficiary data of current financial year were discussed
- The updated status of dashboard, Balochistan was also discussed.



Farewell Party in honor of DTL, Balochistan.

Date 19th July 2023

Venue DG, OFWM Office, Rani Bagh, Saria Road, Quetta

Participants

- The worthy DG, OFWM, Agriculture Department, Govt. of Balochistan, Quetta.
- Mr. Manzoor Ahmed Kasi, DTL, ME&IE Consultants, NPIWC-II, Balochistan, Quetta
- Mr. Qaisar, M&E Officer, ME&IE Consultants, NPIWC-II, Balochistan.

Meeting Agenda/Points discussed:

- A meeting was among DG, OFWM, Balochistan and ME&IE staff regarding data provision of F.Y. 2022-23 and Dashboard pending data.



A meeting was held with DG, OFWM, Balochistan in his good office, Quetta.

Date 25th July 2023

Venue DG, OFWM Office, Rani Bagh, Saria Road, Quetta

Participants

- Mr. Behram Mulghani, Focal Person, OFWM, Balochistan, Quetta
- Mr. Manzoor Ahmed Kasi, DTL, ME&IE Consultants, NPIWC-II, Balochistan, Quetta

Meeting Agenda/Points discussed:

- The Focal Person, OFWM, Agriculture Department shared missing TS of previous F.Y.s and other relevant data required with ME&IE Consultants.



Meeting with Focal Person, OFWM, Balochistan, Quetta.

3.8 SOCIAL & GENDER COMPONENT

3.8.1 Quetta Visit Report

Purpose of Visit:

- Social & Gender related data/issues
- Field visit of District Quetta

Social and gender specialist visit to the Quetta office from 13th to 15th July 2023. S&G specialist is warmly welcomed by the Balochistan team. An introductory session was held with the team. Mr. Manzoor Ahmed Kasi, Deputy Team Leader, delivered a detailed summary on the overall progress of the Balochistan Zone. He also underlines the difficulties and shortcomings in the Balochistan zone.

Mr. Rizwan Ahmed, who covered GRM and other technical issues comprehensively. He also highlights a shortage of social and gender activities in the Balochistan region, which must be addressed.

- Meeting with Government officials
- Case study

The S&G specialist field trip was cancelled due to unavailability of vehicle. Furthermore, DTL Manzoor Ahmed Kasi planned a meeting with various government officials.

Recommendation

- S&G Specialist will visit the Balochistan Office once a quarter.
- The quarterly work plan of the field team will be shared with the S&G Specialist so that she can plan properly.
- Mr. Rizwan will provide technical assistance to S&G specialist in GRM and other tasks.
- A case study will be developed each quarter.

Social & Gender Work Meetings

Date	13-07-2023
Venue	Balochistan Office, Quetta
Participants	
i)	Manzoor Ahmed Kasi, DTL, Balochistan.
ii)	Mr. Rizwan Ahmed, Technical Resource person.
iii)	Ms. Abida Munir, S&G specialist.
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> • Discussion on Agriculture setup in Balochistan. • Highlighted the role of women's participation in the Balochistan tribal area. • Discussion on Gender-responsive agricultural policies. • Field Visit Plan. 	



S&G specialist with Technical resource person and DTL Balochistan

Date	13-07-2023
Venue	OFWM Office, Quetta
Participants	
i)	Mr. Ali Raza Jamali, DG OFWM Balochistan.
ii)	Manzoor Ahmed Kasi, DTL, Balochistan.
iii)	Ms. Abida Munir, S&G specialist.
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> • Discussion on GRM and field visits. • Discussion on case study survey plans. 	



ME&IE consultants with Director General Water Management Balochistan

Date	13-07-2023
Venue	OFWM Office, Quetta
Participants	
i)	Mr. Noor Ahmed Deputy Director OFWM Quetta.
ii)	Mr. Qari Abdul Basit sub Engineer OFWM Quetta.
iii)	Manzoor Ahmed Kasi, DTL, Balochistan.
iv)	Ms. Abida Munir, S&G specialist.
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> • Discussion on basic data required for field surveys. • Field visit plans for social and gender aspects. • Discussion on the areas for sampled interventions. 	



ME&IE consultants with Deputy Director OFWM
Quetta



ME & IE consultants with Deputy team leader
Balochistan NWMC Balochistan

Date	13-07-2023
Venue	Agriculture Office, Quetta
Participants	
i) Mrs. Dur-e- Seemi, Director Women Division Agriculture Extension.	
ii) Ms. Abida Munir, S&G specialist.	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> • Introduction of Women Division Agriculture Extension • Income generation • Capacity building for rural women 	
Social & Gender specialist with Director Women Division Agriculture Extension	

Date	13-07-2023
Venue	Agriculture Office, Quetta
Participants	
1. Mrs. Dur-e- Seemi, Director Women Division Agriculture Extension.	
2. Ms. Abida Munir, S&G specialist.	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> • Introduction on NWMC, • Gender role in Agriculture. 	

3.9 ICT TEAM ASSIGNMENTS

The ICT Team remained engaged in different activities related to the ME&IE assignment including data collection for Dashboard and training of client staff on Dashboard / MIS for the project. During the Month of July 2023 activities completed by ICT Team are summarized below.

3.9.1 Data Collection of Interventions in MIS/GIS Database

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

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

3.9.2 Implementation Of MIS Dashboard

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

The progress of Interventions is live on the Dashboard application.

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

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

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

Punjab – WSP Data Summary				
Division	2019-20	2020-21	2021-22	Overall
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-H**)

Punjab – PLL Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
Bahawalpur	81	290	344	88	803
D.G Khan	50	228	277	93	648
Faisalabad	93	316	387	98	894
Gujranwala	49	214	283	25	571
Gujrat	52	159	221	34	466
Lahore	64	231	323	87	705
Multan	102	228	269	75	674
Sahiwal	71	159	273	88	591
Sargodha	78	235	312	49	674
Overall	640	2060	2689	637	6026

So far, Total **6026** 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-I**)

KP – WC Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
Bajaur	3	19	39	18	79
Bannu	75	35	94	28	232
D.I Khan	431	13	105	0	549
Hazara	86	71	152	54	363
Khyber	6	13	7	0	26
Kohat	98	41	57	9	205
Kurram	3	5	3	0	11
Malakand	179	177	464	33	853
Mardan	105	67	88	15	275
Mohmand	4	26	13	0	43
N.W Agency	2	3	5	1	11
Orakzai	0	1	0	0	1
Peshawar	141	90	93	10	334
S.W Agency	3	12	15	7	37
Overall	1136	573	1135	175	3019

So far, Total **3019** Watercourses data have been received from KP zone and available live on GIS Dashboard. By which **2834** Watercourses have been lined, **7** Watercourses Work Order Cancelled and remaining **134** watercourses are under progress on different stages like 1st Milestone, 2nd Milestone, and Work Order Issued. The remaining **44** Watercourses are pending with Work Order Approval. (Detailed Summary attached as **Annex-J**)

KP – WST Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
Bajaur	1	10	9	1	21
Bannu	13	18	23	2	56
D.I Khan	81	6	19	0	106
Hazara	28	47	85	12	172
Khyber	1	9	12	0	22
Kohat	29	17	32	1	79
Kurram	1	1	0	0	2
Malakand	74	93	178	4	349
Mardan	16	9	26	4	55
Mohmand	1	36	4	0	41
Orakzai	0	2	0	0	2
Peshawar	36	25	65	6	132
S.W Agency	0	15	15	2	32
N.W Agency	0	0	8	1	9
Overall	281	288	476	33	1078

Overall Water Storage Tank data submissions are **1078** of which **970** WST have been completed and **73** are under progress. While **35** Water Storage Tanks Work Order Pending. (Detailed Summary attached as **Annex-K**)

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-L**)

Balochistan – WC Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
Kalat	597	143	287	0	1027
Loralai	344	148	137	28	657
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	28	3870

Total **3870** Watercourses data has been received from Balochistan zone of which **3230** Watercourses has been lined, **242** Watercourses are pending at TS Stage and remaining **398** watercourses are under progress and. (Detailed Summary attached as **Annex-M**)

Balochistan – WST Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
Kalat	95	154	442	0	691
Loralai	54	57	111	6	228
Makran	50	57	168	0	275
Nasirabad	29	48	83	0	160
Quetta	53	87	111	0	251
Rakhshan	26	68	58	0	152
Sibi	35	34	61	0	130
Zhob	49	61	117	0	227
Overall	391	566	1151	6	2114

A total of **2114** Water Storage Tank data has been received from Balochistan zone of which **1628** Watercourses have been lined, **86** Water Storage Tank at TS Stage and remaining **400** Water Storage Tanks are under progress. (Detailed Summary attached as **Annex-N**)

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-O**)

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-P**)

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-Q**).

AJK – WC Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
Muzaffarabad	32	94	77	23	226
Poonch	37	38	78	21	174
Mirpur	38	107	85	22	252
Overall	107	239	240	66	652

A total of **652** Watercourses data has been received from AJK zone of which **440** Watercourses have been lined, **40** Watercourses are pending at TS Stage, **84** watercourses are under progress pending and **88** Watercourses Work Order have been cancelled. (Detailed Summary attached as **Annex-R**).

AJK – WST Data Summary						
Division	2019-20	2020-21	2021-22	2022-23	2023-24	Overall
MZD	35	61	82	10	0	188
Poonch	13	48	142	101	3	307
Mirpur	2	16	44	7	18	87
Overall	50	125	268	118	21	582

A total of **582** Water Storage Tank data has been received from AJK zone of which **356** Water Storage Tank have been lined, **111** Water Storage Tanks are pending at TS Stage, **21** Water Storage Tanks are under progress pending and **94** Watercourses Work Order have been cancelled. (Detailed Summary attached as **Annex-S**).

ICT – WC Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
ICT	0	20	14	0	34
Overall	0	20	14	0	34

A total of **34** completed Watercourses data have been received and available live on Dashboard. (Detailed Summary attached as **Annex-T**).

3.9.3 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 (JULY 2023 TO SEPTEMBER 2023)

The ME&IE Consultants' activities initiating during the 3rd Quarter of the year 2023 (1st July 2023 to 30th September 2023) are listed below. A tentative Work Plan for the 3rd Quarter of the year 2023 (1st July 2023 to 30th September 2023) showing time span detail is given as **Annex-A**.

4.1 PRE FIELD-ACTIVITIES

- Validation of Baseline and Impact Survey
- Preparation for 3rd-Phase Baseline Survey (Finalization of MTs)
- Internal Meetings of ME&IE Consultants' Zonal Offices for development of Methodology for 3rd Phase Baseline Survey
- Training of Field Staff for Impact Survey and 3rd-Phase Baseline Survey

4.2 FIELD ACTIVITIES

- Regular Monitoring of Interventions in the Field
- Field Visits for Impact Survey
- Data collection of the interventions in the field
- Baseline Survey stage - 3
- 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, Development & Launching of Dashboard for Client Offices

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
- M E & IE Consultants Internal Meetings

4.5 DELIVERABLES

- Monthly Monitoring Report
- Quarterly Monitoring Report (Apr-Jun 2023)
- Consolidation of Baseline Survey Phase-I & II Reports
- Consolidation of Mid-Line Monitoring & Impact Evaluation Report

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-Third (JULY - SEPTEMBER 2021)	Submitted
Monthly Monitoring Report-Tenth (OCTOBER 2021)	Submitted
Monthly Monitoring Report-Eleventh (NOVEMBER 2021)	Submitted
Monthly Monitoring Report-Twelfth (DECEMBER 2021)	Submitted
Quarterly Monitoring & Evaluation Report-Fourth Quarter year 2021 (OCTOBER – DECEMBER 2021)	Submitted
Monthly Monitoring Report-Thirteenth (JANUARY 2022)	submitted within stipulated time

Document	Status
Monthly Monitoring Report-Fourteenth (MARCH 2022)	submitted within stipulated time
Monthly Monitoring Report-Fifteen (MARCH 2022)	submitted within stipulated time
Quarterly Monitoring & Evaluation Report-First Quarter year 2022 (JANUARY – MARCH 2022)	submitted within stipulated time
Monthly Monitoring Report-Sixteen (APRIL 2022)	submitted within stipulated time
Monthly Monitoring Report-Seventeenth (MAY 2022)	submitted within stipulated time
Monthly Monitoring Report-Eighteenth (JUNE 2022)	Submitted within stipulated time
Quarterly Monitoring & Evaluation Report-2 nd Quarter year 2022 (APRIL – JUNE 2022)	submitted within stipulated time
Annual Monitoring & Evaluation Report (2 nd) Jul 2021-June 2022	Submitted within stipulated time
Monthly Monitoring Report-Nineteenth (JULY 2022)	Submitted within stipulated time
Monthly Monitoring Report-Twentieth (AUGUST 2022)	Submitted within stipulated time
Monthly Monitoring Report-Twenty First (SEPTEMBER 2022)	Submitted within stipulated time
Quarterly Monitoring & Evaluation Report-3 rd Quarter year 2022 (JUL – SEP 2022)	Submitted within stipulated time
Monthly Monitoring Report-Twenty Second (OCTOBER 2022)	Submitted within stipulated time
Monthly Monitoring Report-Twenty Third (NOVEMBER 2022)	Submitted within stipulated time
Monthly Monitoring Report-Twenty Fourth (DECEMBER 2022)	Submitted
Monthly Monitoring Report-Twenty Fifth (JANUARY 2023)	Submitted
Monthly Monitoring Report-Twenty Sixth (FEBRUARY 2023)	Submitted

Document	Status
Monthly Monitoring Report-Twenty Seventh (March 2023)	Submitted
Monthly Monitoring Report-Twenty Seventh (April 2023)	Submitted
Quarterly Monitoring & Evaluation Report-1 st Quarter year 2023 (JAN – MAR 2023)	Submitted
Monthly Monitoring Report-Twenty-Eight (May 2023)	Submitted
Monthly Monitoring Report-Twenty-Ninth (June 2023)	Submitted
Monthly Monitoring Report-Thirty (July 2023)	Under preparation
Quarterly Monitoring & Evaluation Report-1 st Quarter year 2023 (Apr – Jun 2023)	Under preparation
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
Baseline Survey Report -II (LLs)	Submitted
Mid-Line Monitoring & Impact Evaluation Report	Submitted
Survey Manual (Final version) (Special Reports)	Submitted
Special Reports submitted: 1) Monitoring Tools 2) Survey Manual on MTs 3) PAM 4) Working Paper on Technology and Methodology for Implementation of Android Based Field Progress Data Collection and GIS Based Progress Monitoring Analytical Dashboard. 5) Baseline-Endline Manual Survey Manual 6) Android Application PMIS Dashboard Manual	Submitted

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 i.e., required for performing baseline surveys – III, as well as the required obligatory surveys including Midline and end line
- 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 inhouse exercise we have witnessed some stuck-up cases. Following are different levels/stages in term of day's 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 has 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 bases.

ANNEXES A to T

ANNEXURE A: TENTATIVE QUARTERLY WORK PLAN (JULY TO SEPTEMBER 2023)

TENTATIVE WORK PLANNED FOR THE QUARTER (July 2023 To September 2023)												Legend								
												Activity starts	↓							
												Activity Ends	---							
												Activity Span								
No.	ACTIVITIES	3 Months-Year 2023 (Weeks)																		
		July				August				September										
		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	Validation of Baseline and Impact Survey																		
	1.2	Preparation for 3rd-Phase Baseline Survey																		
		Internal Meetings of ME&IE Consultants' Zonal Offices for development of Methodology for																		
	1.3	3rd Phase Baseline Survey																		
	1.4	Training of Field Staff for Impact Survey and 3rd-Phase Baseline Survey																		
2	Field Activities																			
	2.1	Regular Monitoring of Interventions in the Field																		
	2.2	Field Visits for Impact Survey																		
	2.3	Data collection of the interventions in the field																		
	2.4	Baseline Survey stage - 3																		
	2.5	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, Development & Launching of Dashboard for Client Offices																		
4	Coordination																			
	4.1	Meetings of TL with NPC and OFWM Departments regarding Project Progress / Issues																		
	4.2	Meeting of DTLs with respective DTL of PC & concerned OFWM Departments																		
	4.3	ME&IE Consultants Internal Meetings																		
5	Deliverable																			
	5.1	Monthly Monitoring Report																		
	5.2	Quarterly Monitoring Report (Jan-Mar 2023)																		
	5.3	Consolidation of Baseline Survey Phase-I & II Reports																		
	5.4	Consolidation of Midterm Monitoring & Impact Evaluation Report																		

ANNEXURE-B: MATRIX OF RESPONSIBILITIES

MATRIX OF RESPONSIBILITIES

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

ANNEXURE-C: MONITORING LOG-FRAME

Project Subcomponents	Targets	Activities	Outputs	Outcome-1	Outcomes-2	Goals / Impact	Methodology for measuring results
C1: Organization of Water Users' Associations (WUAs)	Reactivation of existing / organization of water users' associations. Ensuring one on each target watercourse. Total WUAs ensured 47,278.	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

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

Project Subcomponents	Targets	Activities	Outputs	Outcome-1	Outcomes-2	Goals / Impact	Methodology for measuring results
		or any other method as approved by the project					<p>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 result of the intervention after netting out the contribution of the growth pattern of the crop sector otherwise.</p>
C3: Construction of Water Storage Tanks (WSTs)	i. Construction of 14,932	i. 14,932 small farmers mobilized to	i. 14,932 WSTs constructed	i. Water which was otherwise	i. More area irrigated	i. Increased crop yields	i. 2-5% sample of WSTs will be surveyed

Project Subcomponents	Targets	Activities	Outputs	Outcome-1	Outcomes-2	Goals / Impact	Methodology for measuring results
	water storage tanks	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	ii. 14,932 WSTs operated and maintained	largely going to be wasted is saved i. Irrigation provided at critical stages of the crops ii. Flexibility achieved for irrigation	ii. Increased cropping intensities	ii. Increased total crop output quantum iii. Increased farm income iv. Increased farm employment	ii. A data collection form will be designed to measure water saving due to WSTs iii. The forms used for baseline and impact surveys in case of watercourses will also be used for WSTs iv. Same data analysis will be carried out here as in case of watercourses.
C4: Provision of Land Leveling Units	i. Provision of 11,610 laser land leveling units to farmers and service	i. 11,610 laser units provided to farmers / service providers;	i. 11,610 farmers / service providers received PLL units; ii. Farmers / service providers received	i. Land leveled on Farmers' / service providers' farms;	i. Water application efficiency increased at field level;	i. Increased area under irrigated crops; ii. Enhanced crop yields	i. The land levelling is expected to save irrigation water and result in

Project Subcomponents	Targets	Activities	Outputs	Outcome-1	Outcomes-2	Goals / Impact	Methodology for measuring results
	providers on a cost sharing basis: 50% by farmer / service provider and 50% by the project.	ii. Farmers trained in using the units.	training in using the units.	ii. Land leveled on fellow farmers on rent; iii. Total 3.483million acres levelled by 11,610 units.	ii. Even germination of seed. iii. Field application losses reduced by 10 percentage points iv. Water productivity increased by 24%	iii. Increased farm income	<p>better and even germination of seeds which can enhance crop yields. The crop yields thus affected will be reflected in agriculture sample surveys.</p> <p>ii. 2-4% sample units will be visited by ME&IE Consultants teams after one years of delivery</p> <p>iii. The unit will be verified</p> <p>iv. Area treated during the year will be collected</p>

Project Subcomponents	Targets	Activities	Outputs	Outcome-1	Outcomes-2	Goals / Impact	Methodology for measuring results
							v. 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 Endline survey
7	Quarterly Monitoring and Evaluation Report	10	10 th of the first month of following quarter
8	Annual Monitoring and Evaluation Report	10	During first month of following year
9	Draft Assignment Completion Report	5	At completion of physical works / activities
10	Final Completion Report	25	At completion of works as well as financial transactions
11	Special Reports	10	As and when required

ANNEXURE-E: IMPACT SURVEY FIELD SCHEDULE - ZONE/UNIT WISE

WATER COURSES IMPACT SURVEY FIELD SCHEDULE - ZONE/UNIT WISE

Impact Survey Date	Team.#	WC ID	Zone	District	Watercourse Scheme Name	Category of WC Improvement	Type of Lining	Type of Irrigation Source	Non Canal Source
04/07/2023	3	11072232014	Punjab	Khanewal	87400/R	Additional Lining	PCPL	Canal Command Area	
04/07/2023	1	11024332001	Punjab	Toba Tek Singh	443650/L	Additional Lining	PCPL	Canal Command Area	
05/07/2023	3	11072232015	Punjab	Khanewal	11415/L	Additional Lining	PCPL	Canal Command Area	
05/07/2023	2	11041532008	Punjab	Sargodha	49050/R	Additional Lining	PCPL	Canal Command Area	
05/07/2023	2	11024332005	Punjab	Toba Tek Singh	2500/L	Additional Lining	PCPL	Canal Command Area	
06/07/2023	3	11072232001	Punjab	Khanewal	264704/L	Additional Lining	PCPL	Canal Command Area	
06/07/2023	2	11041832002	Punjab	Sargodha	6473/R	Additional Lining	PCPL	Canal Command Area	
06/07/2023	1	11024132013	Punjab	Toba Tek Singh	58460/L	Additional Lining	PCPL	Canal Command Area	
07/07/2023	3	11072232002	Punjab	Khanewal	24830/R	Additional Lining	PCPL	Canal Command Area	
07/07/2023	2	11041632008	Punjab	Sargodha	28900/R	Additional Lining	PCPL	Canal Command Area	
07/07/2023	1	11024132007	Punjab	Toba Tek Singh	30896/R	Additional Lining	PCPL	Canal Command Area	
08/07/2023	3	11072232003	Punjab	Khanewal	47460/R	Additional Lining	PCPL	Canal Command Area	
08/07/2023	2	11041132021	Punjab	Sargodha	10990/L	Additional Lining	PCPL	Canal Command Area	
08/07/2023	1	11024232007	Punjab	Toba Tek Singh	445/L	Additional Lining	PCPL	Canal Command Area	
10/07/2023	1	11023332018	Punjab	Jhang	35478/R	Additional Lining	PCPL	Canal Command Area	
10/07/2023	3	11072412003	Punjab	Khanewal	1500/R	Regular (New)	PCPL	Canal Command Area	
10/07/2023	2	11063232001	Punjab	Mandi Bahauddin	13726/L	Additional Lining	PCPL	Canal Command Area	
10/07/2023	1	11041132032	Punjab	Sargodha	56900/L	Additional Lining	PCPL	Canal Command Area	
11/07/2023	1	11023332015	Punjab	Jhang	43486/L	Additional Lining	PCPL	Canal Command Area	
11/07/2023	3	11072432019	Punjab	Khanewal	4050/R	Additional Lining	PCPL	Canal Command Area	
11/07/2023	2	11063312002	Punjab	Mandi Bahauddin	23014/L	Regular (New)	PCPL	Canal Command Area	

Impact Survey Date	Team.#	WC ID	Zone	District	Watercourse Scheme Name	Category of WC Improvement	Type of Lining	Type of Irrigation Source	Non Canal Source
12/07/2023	1	11023312002	Punjab	Jhang	17720/R	Regular (New)	PCPL	Canal Command Area	
12/07/2023	2	11063212003	Punjab	Mandi Bahauddin	104720/R	Regular (New)	PCPL	Canal Command Area	
12/07/2023	3	11071432034	Punjab	Multan	10200/L	Additional Lining	PCPL	Canal Command Area	
13/07/2023	1	11021332010	Punjab	Faisalabad	18985/L	Additional Lining	PCPL	Canal Command Area	
13/07/2023	1	11023312005	Punjab	Jhang	88668/L	Regular (New)	PCPL	Canal Command Area	
13/07/2023	3	11071432018	Punjab	Multan	106200/TR	Additional Lining	PCPL	Canal Command Area	
13/07/2023	2	11052112001	Punjab	Narowal	18500/R	Regular (New)	PCPL	Canal Command Area	
14/07/2023	1	11021332001	Punjab	Faisalabad	30694/R	Additional Lining	PCPL	Canal Command Area	
14/07/2023	3	11071232013	Punjab	Multan	41440/L	Additional Lining	PCPL	Canal Command Area	
14/07/2023	2	11033132017	Punjab	Pakpattan	20440/R	Additional Lining	PCPL	Canal Command Area	
15/07/2023	1	11021432017	Punjab	Faisalabad	47007/L	Additional Lining	PCPL	Canal Command Area	
15/07/2023	3	11071232011	Punjab	Multan	27100/L	Additional Lining	PCPL	Canal Command Area	
15/07/2023	2	11033112003	Punjab	Pakpattan	24763/L	Regular (New)	PCPL	Canal Command Area	
17/07/2023	1	11022132002	Punjab	Chiniot	17006/R	Additional Lining	PCPL	Canal Command Area	
17/07/2023	3	11071432024	Punjab	Multan	10516/L	Additional Lining	PCPL	Canal Command Area	
17/07/2023	2	11033112002	Punjab	Pakpattan	12996/R	Regular (New)	PCPL	Canal Command Area	
18/07/2023	3	11071232004	Punjab	Multan	43000/R	Additional Lining	PCPL	Canal Command Area	
18/07/2023	1	11033232021	Punjab	Pakpattan	4393/L	Additional Lining	PCPL	Canal Command Area	
18/07/2023	1	11014332011	Punjab	Sheikhupura	4735/R	Additional Lining	PCPL	Canal Command Area	
19/07/2023	3	11071112002	Punjab	Multan	25957/L	Regular (New)	PCPL	Canal Command Area	
19/07/2023	2	11033132015	Punjab	Pakpattan	33500/R	Additional Lining	PCPL	Canal Command Area	
19/07/2023	1	11014332014	Punjab	Sheikhupura	25400/R	Additional Lining	PCPL	Canal Command Area	
20/07/2023	3	11071432022	Punjab	Multan	16410/R	Additional Lining	PCPL	Canal Command Area	
20/07/2023	2	11033132013	Punjab	Pakpattan	37030/L	Additional Lining	PCPL	Canal Command Area	
20/07/2023	2	11014432004	Punjab	Sheikhupura	7600/TL	Additional Lining	PCPL	Canal Command Area	

Impact Survey Date	Team.#	WC ID	Zone	District	Watercourse Scheme Name	Category of WC Improvement	Type of Lining	Type of Irrigation Source	Non Canal Source
21/07/2023	3	11071132012	Punjab	Multan	12936/L	Additional Lining	PCPL	Canal Command Area	
21/07/2023	1	11014432007	Punjab	Sheikhupura	67919/TF	Additional Lining	PCPL	Canal Command Area	
22/07/2023	1	11014432017	Punjab	Sheikhupura	58292/R	Additional Lining	PCPL	Canal Command Area	
24/07/2023	1	11014532006	Punjab	Sheikhupura	935/R	Additional Lining	PCPL	Canal Command Area	
25/07/2023	1	11014332007	Punjab	Sheikhupura	20460/L	Additional Lining	PCPL	Canal Command Area	
26/07/2023	1	11014332006	Punjab	Sheikhupura	16800/R	Additional Lining	PCPL	Canal Command Area	
04/07/2023	3	12033312002	KP	Haripur	Tahir Mehmood	Regular (New)	PCPL	Canal Command Area	
04/07/2023	3	12033313001	KP	Haripur	Akhtar Zaman	Regular (New)	PVC Pipe	Non-Canal Command Area	WST
04/07/2023	1	12073132004	KP	Nowshera	180300-R	Additional Lining	PCPL	Canal Command Area	
04/07/2023	1	12073112009	KP	Nowshera	Sartaj	Regular (New)	PCPL	Canal Command Area	
04/07/2023	1	12073112016	KP	Nowshera	6600-L	Regular (New)	PCPL	Canal Command Area	
04/07/2023	1	12073113004	KP	Nowshera	Abdullah Khattak	Regular (New)	PVC Pipe	Non-Canal Command Area	Tube Well
05/07/2023	3	12033233001	KP	Haripur	Muhammad Zareen	Additional Lining	PVC Pipe	Canal Command Area	
05/07/2023	3	12033113025	KP	Haripur	Ahsan Raza	Regular (New)	PVC Pipe	Non-Canal Command Area	Tube Well
05/07/2023	2	12041113026	KP	Kohat	Abdul Qadir	Regular (New)	PVC Pipe	Non-Canal Command Area	Tube Well
05/07/2023	2	12041113060	KP	Kohat	Ahsan Hayat	Regular (New)	PVC Pipe	Non-Canal Command Area	Tube Well
05/07/2023	1	12073112035	KP	Nowshera	Khadim Ali Twwc	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
05/07/2023	1	12073113015	KP	Nowshera	Shahin Shah	Regular (New)	PVC Pipe	Non-Canal Command Area	Tube Well
05/07/2023	1	12073113021	KP	Nowshera	Shahzad Gul	Regular (New)	PVC Pipe	Non-Canal Command Area	Tube Well
06/07/2023	2	12041112001	KP	Kohat	12400-R	Regular (New)	PCPL	Canal Command Area	
06/07/2023	2	12041113033	KP	Kohat	Hazrat Umar	Regular (New)	PVC Pipe	Canal Command Area	
06/07/2023	1	12073113022	KP	Nowshera	Faid Gul	Regular (New)	PVC Pipe	Non-Canal Command Area	Tube Well
06/07/2023	1	12073113024	KP	Nowshera	Shahid	Regular (New)	PVC Pipe	Non-Canal Command Area	Tube Well
07/07/2023	1	12073132003	KP	Nowshera	9284.T.F	Additional Lining	PCPL	Canal Command Area	
07/07/2023	1	12073232003	KP	Nowshera	Mogha No 19725/L	Additional Lining	PCPL	Canal Command Area	

Impact Survey Date	Team.#	WC ID	Zone	District	Watercourse Scheme Name	Category of WC Improvement	Type of Lining	Type of Irrigation Source	Non Canal Source
07/07/2023	1	12073112029	KP	Nowshera	Kashif Rafique	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
10/07/2023	1	12073212006	KP	Nowshera	Zahir shah	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
10/07/2023	1	12073113018	KP	Nowshera	Muhammad Akbar	Regular (New)	PVC Pipe	Non-Canal Command Area	Tube Well
11/07/2023	1	12073213008	KP	Nowshera	Afsar khan	Regular (New)	PVC Pipe	Non-Canal Command Area	Tube Well
12/07/2023	1	12072316002	KP	Charsadda	Fazal Subhan 1	Regular (New)	HDPE	Canal Command Area	
12/07/2023	1	12072316008	KP	Charsadda	Noor Ul Amin	Regular (New)	HDPE	Non-Canal Command Area	Tube Well
12/07/2023	1	12072212001	KP	Charsadda	Khan Bacha	Regular (New)	PCPL	Canal Command Area	
13/07/2023	1	12072312002	KP	Charsadda	19195-L	Regular (New)	PCPL	Canal Command Area	
13/07/2023	1	12072312004	KP	Charsadda	11930-T.F	Regular (New)	PCPL	Canal Command Area	
13/07/2023	1	12072312008	KP	Charsadda	42200-R	Regular (New)	PCPL	Canal Command Area	
14/07/2023	1	12061112035	KP	Mardan	Fazal Subhan	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
14/07/2023	1	12061113004	KP	Mardan	Muhammad Zeb	Regular (New)	PVC Pipe	Non-Canal Command Area	Tube Well
17/07/2023	1	12061132002	KP	Mardan	6550-R	Additional Lining	PCPL	Canal Command Area	
17/07/2023	1	12061512010	KP	Mardan	1700-L	Regular (New)	PCPL	Canal Command Area	
17/07/2023	1	12061313001	KP	Mardan	No. 1134/R	Regular (New)	PVC Pipe	Canal Command Area	
18/07/2023	1	12062312003	KP	Swabi	13000-L	Regular (New)	PCPL	Canal Command Area	
18/07/2023	1	12062113007	KP	Swabi	WC NO.12320/R	Regular (New)	PVC Pipe	Canal Command Area	
20/07/2023	1	12052216003	KP	Buner	Umer Wahid	Regular (New)	HDPE	Non-Canal Command Area	Tube Well
20/07/2023	1	12052216004	KP	Buner	Amir Nawab Khan	Regular (New)	HDPE	Non-Canal Command Area	Tube Well
20/07/2023	1	12052216022	KP	Buner	T/W WC wazir ali	Regular (New)	HDPE	Non-Canal Command Area	Tube Well
21/07/2023	1	12052416007	KP	Buner	Rahat Shah	Regular (New)	HDPE	Non-Canal Command Area	Tube Well
21/07/2023	1	12052616011	KP	Buner	Laiq Zada TWWC	Regular (New)	HDPE	Non-Canal Command Area	Tube Well
21/07/2023	1	12052616021	KP	Buner	Qayyum Zada TWWC	Regular (New)	HDPE	Non-Canal Command Area	Tube Well
17/07/2023	1	16110116017	ICT	ICT	Muhammad Amjad Khan	Regular (New)	PVC Pipe	Non-Canal Command Area	Nallah
18/07/2023	1	16110116011	ICT	ICT	Ch.Khanzada Khan	Regular (New)	PVC Pipe	Non-Canal Command Area	Other Source

Impact Survey Date	Team.#	WC ID	Zone	District	Watercourse Scheme Name	Category of WC Improvement	Type of Lining	Type of Irrigation Source	Non Canal Source
03/07/2023	1	15033111002	AJK	Mirpur	Daramir Shah Sehnsa	Regular (New)	PCC	Non-Canal Command Area	Tube Well
04/07/2023	1	15033112033	AJK	Mirpur	Mohri	Regular (New)	PCPL	Canal Command Area	
04/07/2023	1	15033112054	AJK	Mirpur	Chapran-2	Regular (New)	PCPL	Non-Canal Command Area	Other Source
05/07/2023	1	15033112014	AJK	Mirpur	Akbarabad	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
05/07/2023	1	15033112018	AJK	Mirpur	Dalyala	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
06/07/2023	1	15033112068	AJK	Mirpur	Raipur	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
10/07/2023	1	15011125014	AJK	Muzaffarabad	Central Palhoter	20 Years Old	PCC	Non-Canal Command Area	Nallah
10/07/2023	1	15011125002	AJK	Muzaffarabad	Ghorsai Pine	20 Years Old	PCC	Non-Canal Command Area	Spring
11/07/2023	1	15011235001	AJK	Muzaffarabad	Palla To Karshan	Additional Lining	PCC	Non-Canal Command Area	Nallah
11/07/2023	1	15011218001	AJK	Muzaffarabad	Doba Upper Phagla	Regular (New)	Mix	Non-Canal Command Area	Nallah
12/07/2023	1	15011215005	AJK	Muzaffarabad	Meldi Kasi To Parla	Regular (New)	PCC	Non-Canal Command Area	Nallah
13/07/2023	1	15013125005	AJK	Neelum	Kanoor To Lawat Khawaja Seri	20 Years Old	PCC	Non-Canal Command Area	Nallah
14/07/2023	1	15013218002	AJK	Neelum	Shesha Pahar To Kiyani Muhalla	Regular (New)	Mix	Non-Canal Command Area	Nallah
24/07/2023	1	15024215001	AJK	Sudhnoti	Tarnoti To Dhok	Regular (New)	Mix	Non-Canal Command Area	Tube Well
25/07/2023	1	15023328001	AJK	Poonch	Upper Sawa	20 Years Old	Mix	Non-Canal Command Area	Nallah
26/07/2023	1	15023116001	AJK	Poonch	Lower Dhothan	Regular (New)	HDPE	Non-Canal Command Area	Nallah

WATER STORAGE TANKS IMPACT SURVEY FIELD SCHEDULE - ZONE/UNIT WISE

Impact Survey Visit Date	Team.#	WST ID	Zone	District	Farmer's Name
04/07/2023	1	21024313002	Punjab	Toba Tek Singh	Ch. Muhammad Ali:Safdar Ali
05/07/2023	1	21041814002	Punjab	Sargodha	Hassan Sultan:Irshad Ahmad
05/07/2023	2	21024113001	Punjab	Toba Tek Singh	Farhan Akbar:Muhammad Akbar
06/07/2023	2	21041814008	Punjab	Sargodha	Muneer Ahmed:Muhammad Deen
11/07/2023	1	21023210005	Punjab	Jhang	Tahir Sabtain:Ghulam Jaffer Khan
11/07/2023	2	21063312001	Punjab	Mandi Bahauddin	Khalid Pervaiz:Rasheed Ahmad
12/07/2023	2	21063312002	Punjab	Mandi Bahauddin	Zubaida Bibi:Ahmad
14/07/2023	1	21021412002	Punjab	Faisalabad	Aftab Iftikhar:Iftikhar Ali
14/07/2023	3	21071114002	Punjab	Khanewal	Muhammad Hamid Nawaz:Muhammad Nawaz Malik
17/07/2023	3	21071114001	Punjab	Multan	Amir Sohail:Malik Muhammad Aslam
18/07/2023	3	21071313001	Punjab	Multan	Khawaja Maqbool Mustafa:Khawaja Muhammad Yousaf
18/07/2023	1	21033112003	Punjab	Pakpattan	M. Tayyab:Muhammad Anwer
19/07/2023	3	21071412003	Punjab	Multan	Malik Muhammad Afzal:Malik Mehmood
19/07/2023	1	21014112001	Punjab	Sheikhupura	Ehsan Elahi Virk:Arif Hussain
20/07/2023	3	21071312003	Punjab	Multan	Muhammad Afzaal:Muhammad Iqbal
20/07/2023	2	21014112002	Punjab	Sheikhupura	Habib-Ur-Rehman Hashmi:Ali Hassan
21/07/2023	1	21102112009	Punjab	Attock	Mian Muhammad Raza:Main Altaf Hussain
21/07/2023	3	21071312005	Punjab	Multan	Muhammad Irfan:Muhammad Ismail
04/07/2023	2	22043332007	KP	Karak	Adnan
04/07/2023	2	22043332001	KP	Karak	Mir Wali
05/07/2023	3	22033132010	KP	Haripur	Ahsan Raza
06/07/2023	3	22033132006	KP	Haripur	Khani Zaman
06/07/2023	1	22073132002	KP	Nowshera	Iftikhar
06/07/2023	1	22073132028	KP	Nowshera	Zia Ullah Wst

Impact Survey Visit Date	Team.#	WST ID	Zone	District	Farmer's Name
10/07/2023	1	22073232003	KP	Nowshera	Wajahat Khan
11/07/2023	1	22073132015	KP	Nowshera	Abdullah
11/07/2023	1	22073232017	KP	Nowshera	Irshad Ali
11/07/2023	1	22073232002	KP	Nowshera	Sawabuddin
14/07/2023	1	22061132005	KP	Mardan	Ahmad Ali
18/07/2023	1	22062232001	KP	Swabi	Mazhar Ali
19/07/2023	1	22052232006	KP	Buner	Wst Mursaleen Shah
19/07/2023	1	22052232007	KP	Buner	Wst Rashid Ahmad
25/07/2023	1	22101337001	KP	Khyber	Junaid
03/07/2023	1	25033228001	AJK	Mirpur	Darari West
24/07/2023	1	25024316005	AJK	Sudhnoti	Jhanda Bagla
25/07/2023	1	25023216002	AJK	Poonch	Kanoli Chatra
26/07/2023	1	25023327004	AJK	Poonch	Lower Trasel

ANNEXURE F: PICTORIAL VIEW OF IMPACT SURVEY FIELD VISITS









ANNEX-G: PUNJAB - WATERCOURSE DATA SUBMISSION - SUMMARY

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

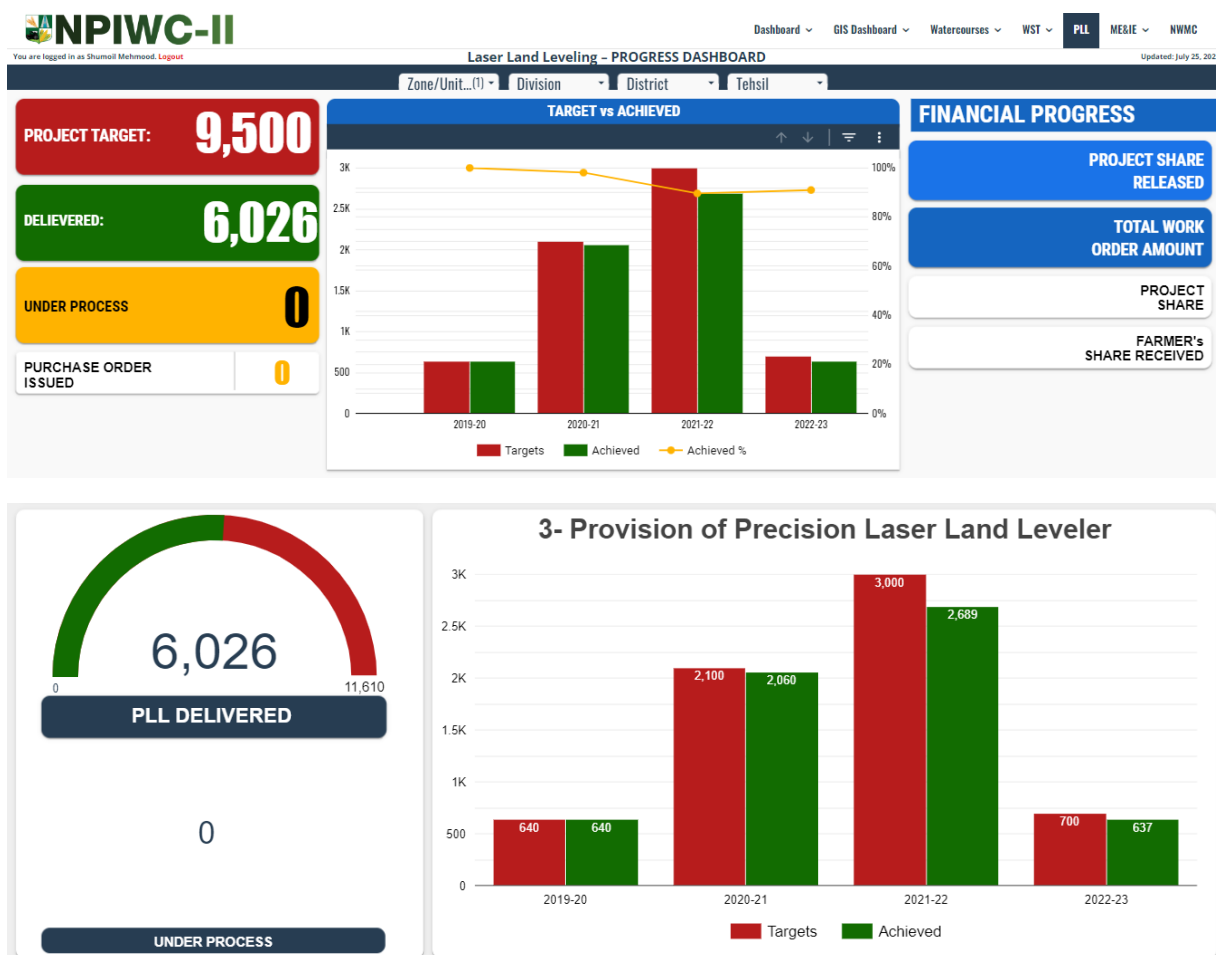


ANNEX-H: PUNJAB - WSP DATA SUBMISSION - SUMMARY

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

ANNEX-I: PUNJAB - PLL DATA SUBMISSION - SUMMARY

Division	District	Delivered	Under Progress	Overall
Bahawalpur	Bahawalnagar	282	0	282
Bahawalpur	Bahawalpur	257	0	257
Bahawalpur	Rahim Yar Khan	264	0	264
Bahawalpur Total		803	0	803
Dera Ghazi Khan	Dera Ghazi Khan	124	0	124
Dera Ghazi Khan	Layyah	166	0	166
Dera Ghazi Khan	Muzaffargarh	235	0	235
Dera Ghazi Khan	Rajanpur	123	0	123
Dera Ghazi Khan Total		648	0	648
Faisalabad	Chiniot	159	0	159
Faisalabad	Faisalabad	275	0	275
Faisalabad	Jhang	254	0	254
Faisalabad	Toba Tek Singh	206	0	206
Faisalabad Total		894	0	894
Gujranwala	Gujranwala	235	0	235
Gujranwala	Sialkot	196	0	196
Gujranwala	Narowal	140	0	140
Gujranwala Total		571	0	571
Gujrat	Gujrat	115	0	115
Gujrat	Hafizabad	188	0	188
Gujrat	Mandi Bahauddin	163	0	163
Gujrat Total		466	0	466
Lahore	Kasur	240	0	240
Lahore	Lahore	97	0	97
Lahore	Nankana Sahib	140	0	140
Lahore	Sheikhupura	228	0	228
Lahore Total		705	0	705
Multan	Khanewal	187	0	187
Multan	Lodhran	149	0	149
Multan	Multan	139	0	139
Multan	Vehari	199	0	199
Multan Total	0	674	0	674
Sahiwal	Okara	203	0	203
Sahiwal	Pakpattan	180	0	180
Sahiwal	Sahiwal	208	0	208
Sahiwal Total		591	0	591
Sargodha	Bhakkar	191	0	191
Sargodha	Khushab	118	0	118
Sargodha	Mianwali	146	0	146
Sargodha	Sargodha	219	0	219
Sargodha Total		674	0	674
Overall		6026	0	6026



ANNEX-J: KP - WATERCOURSE DATA SUBMISSION - SUMMARY

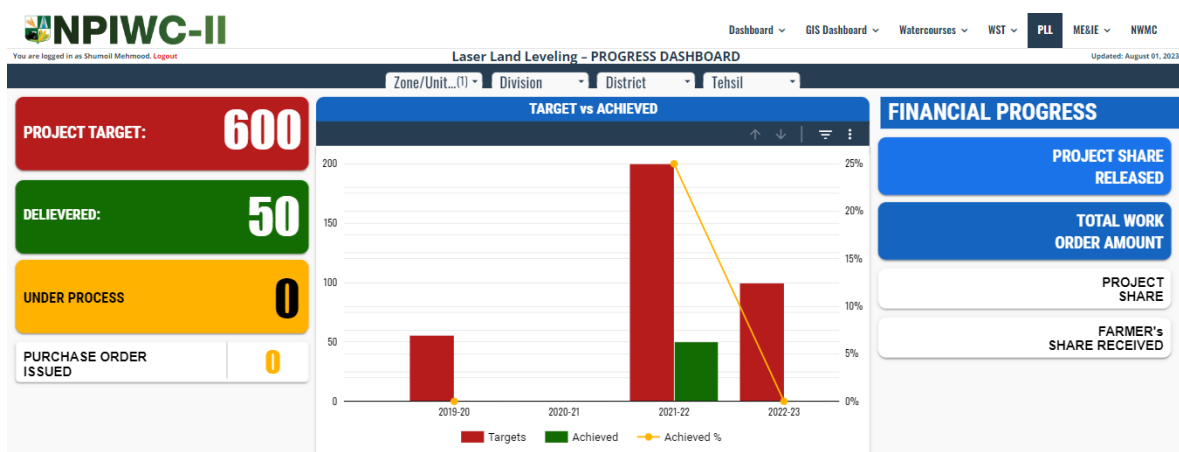
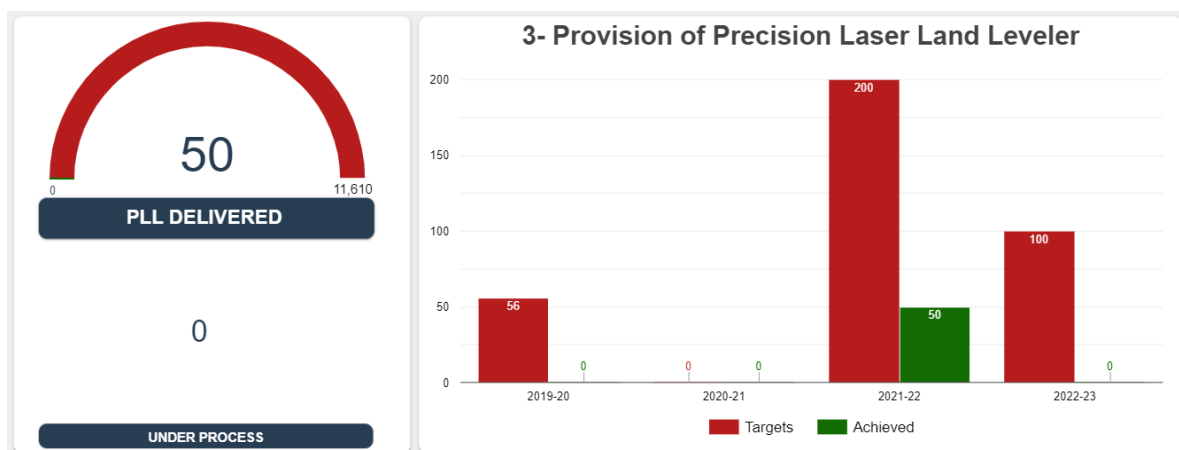
Division	District	Completed	Work Order Cancelled	Under Progress			Pending		Overall
				1 st Milestone	2 nd Milestone	Work Order Issued	TS Pending	Work Order Pending	
Bajaur Agency	Bajaur	60	0	0	0	13	6	0	79
Bajaur Agency Total		60	0	0	0	13	6	0	79
Bannu	Bannu	110	0	0	0	0	0	0	110
Bannu	Lakki Marwat	122	0	0	0	0	0	0	122
Bannu Total		232	0	0	0	0	0	0	232
D.I. Khan	D.I. Khan	509	0	1	0	0	0	0	510
D.I. Khan	Tank	39	0	0	0	0	0	0	39
D.I. Khan Total		548	0	1	0	0	0	0	549
Hazara	Abbottabad	28	0	0	1	0	1	0	30
Hazara	Battagram	42	0	0	0	0	0	0	42
Hazara	Haripur	73	0	0	0	0	0	0	73
Hazara	Lower Kohistan	7	0	0	0	13	1	0	21
Hazara	Mansehra	98	0	0	41	0	2	0	141
Hazara	Torghar	34	2	0	0	1	0	0	37
Hazara	Upper Kohistan	9	0	0	0	0	8	0	17
Hazara	Kolai Pallas	2	0	0	0	0	0	0	2
Hazara Total		293	2	0	42	14	12	0	363
Khyber Agency	Khyber	19	0	0	0	5	2	0	26
Khyber Agency Total		19	0	0	0	5	2	0	26
Kohat	Hangu	44	0	0	0	0	1	0	45
Kohat	Karak	68	0	0	0	0	0	0	68
Kohat	Kohat	92	0	0	0	0	0	0	92
Kohat Total		204	0	0	0	0	1	0	205
Kurram Agency	Kurram	10	0	0	0	0	1	0	11
Kurram Agency Total		10	0	0	0	0	1	0	11
Malakand	Buner	95	0	0	0	0	0	0	95
Malakand	Chitral	94	0	0	0	0	0	0	94
Malakand	Lower Dir	102	0	0	3	26	4	1	136
Malakand	Malakand	96	0	0	0	5	1	0	102
Malakand	Shangla	39	0	0	0	0	0	0	39
Malakand	Swat	282	3	0	2	0	0	0	287
Malakand	Upper Dir	100	0	0	0	0	0	0	100
Malakand Total		808	3	0	5	31	5	1	853
Mardan	Mardan	137	0	0	0	4	0	0	141
Mardan	Swabi	131	0	0	1	0	2	0	134
Mardan Total		268	0	0	1	4	2	0	275
Mohmand Agency	Upper Mohmand	32	0	0	0	0	0	0	32
Mohmand Agency	Lower Mohmand	11	0	0	0	0	0	0	11
Mohmand Agency Total		43	0	0	0	0	0	0	43
Orakzai Agency	Orakzai	1	0	0	0	0	0	0	1
Orakzai Agency Total		1	0	0	0	0	0	0	1
Peshawar	Charsadda	135	1	0	0	15	1	0	152
Peshawar	Nowshera	97	0	0	0	1	2	0	100
Peshawar	Peshawar	75	1	0	0	1	4	1	82
Peshawar Total		307	2	0	0	17	7	1	334
S.W Agency	S.W Agency	36	0	0	0	1	0	0	37
S.W Agency Total		36	0	0	0	1	0	0	37
N.W Agency	N.W Agency	5	0	0	0	0	6	0	11
N.W Agency Total		5	0	0	0	0	6	0	11
Overall		2834	7	1	48	85	42	2	3019

ANNEX-K: 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	11	0	1	0	1	13
Bannu	Lakki Marwat	35	0	0	0	0	35
Bannu Total		46	0	1	0	1	48
Dera Ismail Khan	Dera Ismail Khan	83	1	1	5	0	90
Dera Ismail Khan	Tank	16	0	0	0	0	16
Dera Ismail Khan Total		99	1	1	5	0	106
Hazara	Abbottabad	18	0	0	0	0	18
Hazara	Battagram	25	0	0	4	0	29
Hazara	Haripur	40	0	0	0	0	40
Hazara	Kolai Pallas	2	0	0	2	0	4
Hazara	Lower Kohistan	0	0	0	0	1	1
Hazara	Mansehra	38	1	2	3	0	44
Hazara	Torghar	17	0	0	1	0	18
Hazara	Upper Kohistan	7	0	0	0	6	13
Hazara Total		147	1	2	10	7	167
Khyber Agency	Khyber	10	0	0	6	6	22
Khyber Agency Total		10	0	0	6	6	22
Kohat	Hangu	14	0	0	0	0	14
Kohat	Karak	60	0	0	0	0	60
Kohat	Kohat	5	0	0	0	0	5
Kohat Total		79	0	0	0	0	79
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	17	3	5	12	0	37
Malakand	Malakand	24	0	0	0	0	24
Malakand	Shangla	21	0	0	1	0	22
Malakand	Swat	99	3	7	31	24	164
Malakand	Upper Dir	35	1	0	1	1	38
Malakand Total		260	7	12	45	25	349
Mardan	Mardan	33	0	0	1	0	34
Mardan	Swabi	18	0	2	0	1	21
Mardan Total		51	0	2	1	1	55
Mohmand Agency	Mohmand Agency	41	0	0	0	0	41
Mohmand Agency Total		41	0	0	0	0	41
Orakzai Agency	Orakzai	2	0	0	0	0	2
Orakzai Agency Total		2	0	0	0	0	2
Peshawar	Charsadda	13	0	0	1	0	14
Peshawar	Nowshera	62	0	0	0	0	62
Peshawar	Peshawar	25	3	2	13	13	56
Peshawar Total		100	3	2	14	13	132
S.W Agency	S.W Agency	30	0	0	0	0	30
S.W Agency Total		30	0	0	0	0	30
N.W Agency	N.W Agency	8	0	0	5	4	17
N.W Agency Total		8	0	0	5	4	17
Overall		892	12	20	87	60	1071

ANNEX-L: KP - PLL DATA SUBMISSION - SUMMARY

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



ANNEX-M: BALOCHISTAN - WATERCOURSE DATA SUBMISSION - SUMMARY

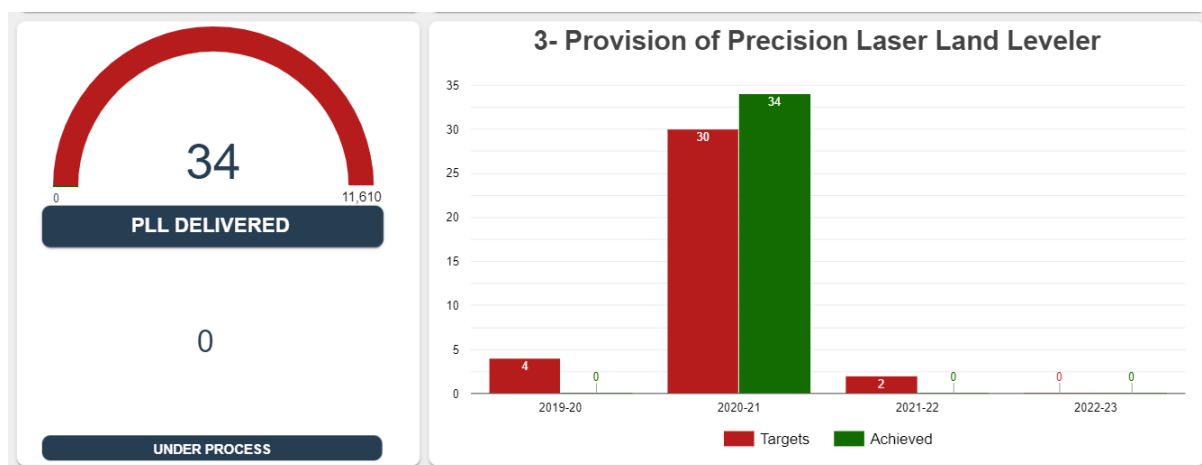
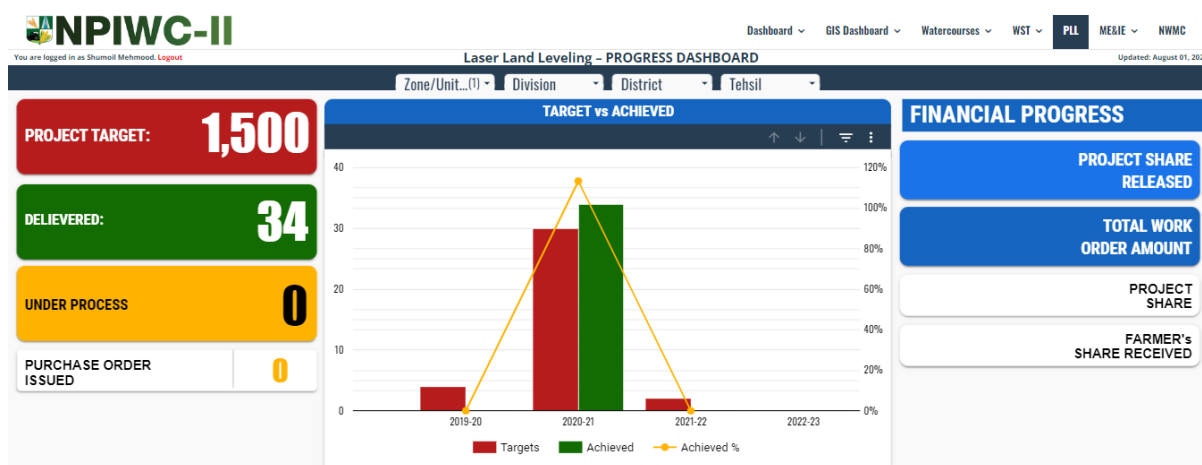
Division	District	Completed	Under Progress			Pending	Overall
			1st Milestone	2nd Milestone	TS Issued	TS Pending	
Kalat	Awaran	150	0	0	0	1	151
Kalat	Kalat	281	0	0	0	1	282
Kalat	Khuzdar	165	0	0	0	0	165
Kalat	Lasbela	154	0	0	35	0	189
Kalat	Mastung	190	0	0	6	2	198
Kalat	Surab	0	0	0	19	23	42
Kalat Total		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	27	214
Loralai Total		586	0	0	43	27	656
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	242	3870

ANNEX-N: 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	Musakhail	26	0	0	0	6	32
Loralai Total		193	0	0	29	6	228
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	56	0	0	0	0	56
Quetta	Pishin	107	0	0	10	2	119
Quetta	Quetta	75	0	1	0	0	76
Quetta Total		238	0	1	10	2	251
Rakhshan	Chaghi	33	0	0	0	14	47
Rakhshan	Kharan	15	0	0	14	0	29
Rakhshan	Nushki	0	0	0	53	9	62
Rakhshan	Washuk	4	0	0	10	0	14
Rakhshan Total		52	0	0	77	23	152
Sibi	Dera Bugti	38	0	0	1	0	39
Sibi	Harnai	21	0	0	0	0	21
Sibi	Kohlu	26	0	0	0	0	26
Sibi	Sibi	23	0	0	0	0	23
Sibi	Ziarat	21	0	0	0	0	21
Sibi Total		129	0	0	1	0	130
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		1628	0	2	398	86	2114

ANNEX-O: 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



ANNEX-P: 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

ANNEX-Q: 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

ANNEX-R: AJK - WATERCOURSES DATA SUBMISSIONS - SUMMARY

Division	District	Completed	Work Order Cancelled	Under Progress			Pending		Overall
				1st Milestone	2nd Milestone	Work Order Issued	TS Pending	Work Order Pending	
MZD	MZD	89	5	2	4	10	13	0	123
	Jhelum	25	2	1	0	11	5	0	44
	Neelum	41	10	13	1	3	0	0	68
MZD Total		155	17	16	5	24	18	0	235
Poonch	Poonch	40	10	0	0	2	3	0	55
	Bagh	29	14	0	0	0	0	8	51
	Haveli	9	10	2	0	0	8	7	36
	Sudhnoti	23	16	0	0	1	0	0	40
Poonch Total		101	50	2	0	3	11	15	182
Mirpur	Mirpur	76	19	0	0	0	4	2	101
	Bhimber	110	0	1	0	0	0	0	111
	Kotli	39	22	0	0	1	1	11	74
Mirpur Total		225	41	1	0	1	5	13	286
Overall		481	108	19	5	28	34	28	703

ANNEX-S: AJK - WST/WHs DATA SUBMISSIONS - SUMMARY

Division	District	Completed	Work Order Cancelled	Under Progress			Pending		Overall
				1st Milestone	2nd Milestone	Work Order Issued	TS Pending	Work Order Pending	
MZD	MZD	141	3	0	0	4	13	0	161
	Jhelum	17	0	0	0	7	3	0	27
MZD Total		158	3	0	0	11	16	0	188
Poonch	Poonch	54	19	0	1	0	24	0	98
	Bagh	44	20	0	0	0	20	0	84
	Haveli	26	16	3	0	0	33	0	78
	Sudhnoti	21	17	2	0	1	7	0	48
Poonch Total		145	72	5	1	1	84	0	308
Mirpur	Mirpur	11	7	0	0	2	1	0	21
	Bhimber	12	0	0	0	0	0	0	12
	Kotli	30	12	1	0	0	11	0	54
Mirpur Total		53	19	1	0	2	12	0	87
Overall		356	94	6	1	14	112	0	583

ANNEX-T: ICT - WATERCOURSE DATA SUBMISSION - SUMMARY

Division	District	Completed	Under Progress				Overall
			1st Milestone	2nd Milestone	Work Order Issued	Work Order Pending	
ICT	ICT	34	0	0	0	0	34
Overall		34	0	0	0	0	34