



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

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

MONITORING, EVALUATION
AND IMPACT EVALUATION
CONSULTANTS

QUARTERLY MONITORING & EVALUATION REPORT

JULY TO SEPTEMBER 2023



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



In Association with





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)

QUARTERLY MONITORING AND EVALUATION REPORT
July - September 2023

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ACRONYMS

ADA	Assistant Director Agriculture
AES	Agriculture Extension Services
AF	Acre-Feet
AJK	Azad Jammu & Kashmir
AWPB	Annual Work Plan and Budget
AWPs	Annual Work Plans
BCR	Benefit Cost Ratio
CFT	Cubic Feet
CMS	Content Management System
CSRD	Center for Social Research and Development
DAES	Director Agriculture Extension Services
DDA	Deputy Director Agriculture
DGA	Director General Agriculture
DTL	Deputy Team Leader
EAs	Executing Agencies
EIRR	Economic Internal Rate of Return
FCR	Financial Completion Report
FCRs	Final Completion Reports
FMFSR	Framework for Federal Financial Management System
FOs	Farmers Organizations
FPMU	Federal Project Management Unit
FWMC	Federal Water Management Cell
GAP	Gender Action Plan
GB	Gilgit Baltistan
G3EC	G3 Engineering Consultants
GIS	Geographic Information System
HEIS	High Efficiency Irrigation System
IAs	Implementing Agencies
ICR	Interim Completion Report
ICT	Islamabad Capital Territory
IRR	Internal Rate of Return
ICT	Information & Communication Technology
JV	Joint Venture
KP	Khyber Pakhtunkhwa
LLL	Laser Land Leveler
LPS	Liter Per Second
M&E	Monitoring and Evaluation
MAF	Million Acre Feet
ME&IE	Monitoring, Evaluation and Impact Evaluation
MIS	Management Information System
MNFSR	Ministry of National Food Security and Research
MMR	Monthly Monitoring Report
MT	Monitoring Template
MTE	Mid-Term Evaluation
NESPAK	National Engineering Services Pakistan
NPC	National Project Coordinator
NPIWC	National Program for Improvement of Watercourses
NPV	Net Present Value
NWMC	National Water Management Consultants
OFWM	On Farm Water Management
PC-1	Planning Commission-(Form-One)
PDO	Project Development Objectives
PIC	Project Implementation Committee
PIES	Project Impact Evaluation Study

PQC	Pre-Qualification Committee
QM&ER	Quarterly Monitoring and Evaluation Report
RBM	Results-Based Management
RFT	Running Feet
RWD	Responsive Web Design
SFT	Square Feet
SOPs	Standardized Operating Procedures
SPSS	Statistical Package for Social Sciences (Software)
SSCs	Supply and Service Companies
TABs	Tablets
TL	Team Leader
TOR	Terms of Reference
TPV	Third Party Validation
TWRD	Tail-Water Recovery Ditch
WG	Women Group
WST	Water Storage Tank
WUAs	Water Users Associations

EXECUTIVE SUMMARY

The report in hand, "Quarterly Monitoring and Evaluation Report for the period of 1st July 2023 to 30th September 2023 is comprised of five chapters.

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

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

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

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

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

Chapter -3 of this report covers the detail of ME&IE Consultants' activities initiating during the reporting period (1st July 2023 to 30th September 2023) as listed below:

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

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

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

- Validation of Baseline Survey & Midterm Impact survey (updation of MTs & Field staff trainings)
- Regular Monitoring of Interventions in The Field
- Impact Survey field visits
- Data Collection of Interventions in MIS/GIS Database
- Online Data Entry in Android Based Application.
- Data entry, Data cleaning, Data processing & data Analysis
- Updataion of data on Dashboard.
- Implementation of Mis Dashboard
- Monitoring Android based Mobile Application under implementation by field staff.
- Capacity Building Trainings of OFWM nominated staff.
- Monitoring / Data Collection on Social and Gender Component
- Coordination Meetings of ME&IE Consultants with Client and Stakeholders
- Internal Meetings of ME&IE Consultants
- Consolidation of Baseline Survey Phase-1&II Report

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

Table-ES-1: Compliance Status of Quarterly Tentative Work Plan, 1st July 2023 to 30th September 2023

No.	Activities Planned for the Reporting Quarter	Status	
1	Pre-Field Activities		
1.1	Validation of Baseline and Impact Survey	Complied	
1.2	Preparation for 3rd-Phase Baseline Survey (Internal Meetings of ME&IE Consultants' Zonal Offices for development of Methodology for 3rd Phase BLS etc.)	Complied	
1.3	Refresher Training of Field Staff for Impact Survey and 3rd-Phase Baseline Survey	Complied	
2	Field Activities:		
2.1	Regular Monitoring of Interventions in the Field	Complied	
2.2	Field Visits for Impact Survey	Complied	
2.3	Baseline Survey stage - 3	Pending	
2.4	Data collection of the interventions in the field	Complied	
2.5	Online data entry in android based application	Complied	
3	ICT Assignment:		
3.1	Implementation of MIS Dashboard	Complied	
3.2	Monitoring online data collection and Data entry	Complied	
3.3	Monitoring Android-based Mobile Application under implementation by field staff	Complied	
3.4	Data collection of interventions in MIS/GIS database	Complied	
3.5	On-Going Data Validation and cleaning	Complied	
3.6	Improvement of the website of NPIWC-II	Complied	
4	Coordination		
4.1	Meetings of TL, ME&IE Consultants with NPC regarding Project Progress / Issues	Meetings conducted on regular basis	
4.2	Meeting of DTLs with respective DTL of NWMC	Meetings conducted on regular basis	
4.3	Internal Meetings of ME&IE Consultants	Weekly meetings conducted on regular basis	
5	Deliverables:		
5.1	Monthly Monitoring Reports (MMRs)	31 st MMR (July 2023)	Submitted
		32 nd MMR (August 2023)	Submitted
		33 rd MMR (Sep 2023)	Report in hand
5.2	Quarterly Monitoring & Evaluation Report (QM&ER)	QM&ER Jul-Sep 2023	Under process
5.3	Annual Monitoring & Evaluation Report (3 rd)	AM&ER 2022-23 (3 rd)	Undergoing final review
5.4	Consolidated Baseline Survey Report (Phase-I&II) (Draft) Baseline (Phase I&II) Consolidated Report - Final	Submitted	
5.5	Consolidated Mid-Term Monitoring and Impact Evaluation Report	Undergoing final review	

CHAPTER-1: INTRODUCTION

1.1 PROJECT PROFILE

Project Name	National Program for Improvement of Watercourses in Pakistan Phase-II (NPIWC-II)
Project Areas	Punjab, KP, Balochistan, Gilgit Baltistan, Azad Jammu & Kashmir, and Islamabad Capital Territory (ICT)
Sponsoring Agency	Ministry of National Food Security & Research
Executing Agencies (EAs)	<p>Following are different EAs:</p> <ul style="list-style-type: none"> i. Federal Project Management Unit (FPMU), ii. DGA OFWM Punjab iii. DGA OFWM KP iv. DGA OFWM Balochistan v. Director Irrigation and Small Dams, AJK vi. Director WM, GB vii. Director Agriculture Extension Services (AES) ICT
Project Period	5 Year (2019-2024)
Total Project Cost	154,542.355 million (Umbrella PC-1, including Sindh)
ME&IE Consultancy Period	4 year
ME&IE Consultant:	JV of G3 Engineering Consultants (Pvt.) Ltd., EASE PAK Engineering Services (Pvt.) Ltd., Centre for Social Research and Development (CSR) and ADA Consultants Inc. Canada
ME&IE Consultant Mobilized	November 07, 2020

1.2 PROJECT DESCRIPTION

1.2.1 PROJECT DEVELOPMENT OBJECTIVES

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

1.2.2 PROJECT OBJECTIVES – GENERAL & QUANTITATIVE

1) General Objectives:

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

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

2) Quantitative Objectives:

The quantitative objectives of the Project are as under:

The DTL, Balochistan shared updated progress of Balochistan zone and discussed other issues. The Focal Person and FTI, Naseerabad Zone also attended the meeting.

Project outputs

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

Project Impacts

- i. Reduction in Water Logging and salinity in project areas to the extent of 10%.

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

Project indirect benefits to industry/economic activities

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

Awareness support to farmers

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

1.3 PROJECT BENEFICIARIES

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

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

1.4 PROJECT COMPONENTS

The NPIWC-II comprises four components.

C1: ORGANIZATION OF WATER USERS ASSOCIATIONS:

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

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

C2: WATERCOURSE IMPROVEMENTS:

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

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

C3: CONSTRUCTION OF WATER STORAGE TANKS:

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

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

C4: PROVISION OF LASER LAND LEVELING UNITS:

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

1.4.1 PROJECT TARGETS

Project aims at achieving the targets (Figure-1.1) for 5 years starting from year 2019-20 to 2023-24. The

targets for each province/Zone (excluding Sindh) are given in below Figure-1.2.

Project Targets:

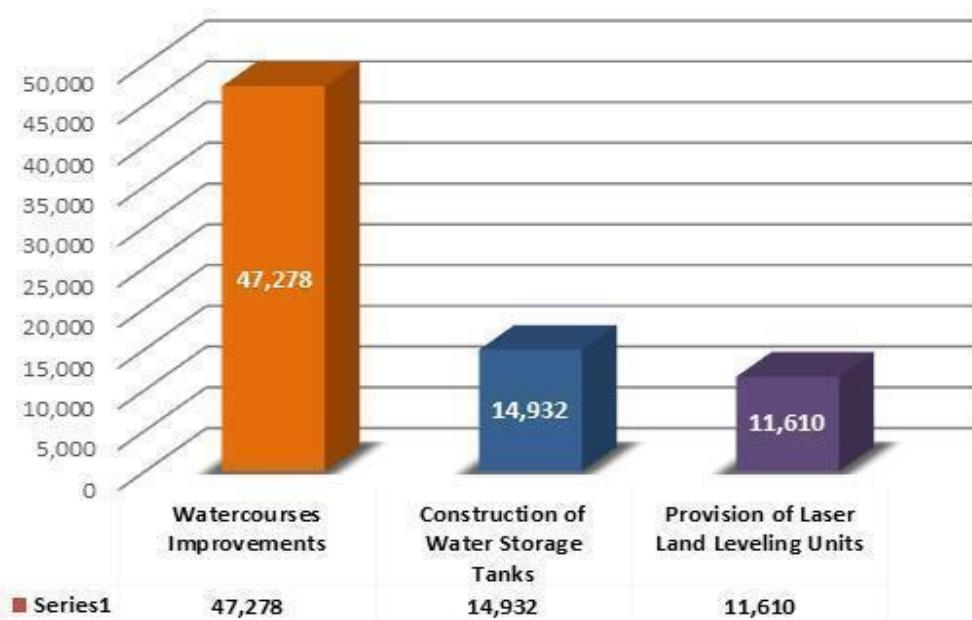


Figure-1.1: Pakistan Targets

Zonal Targets:

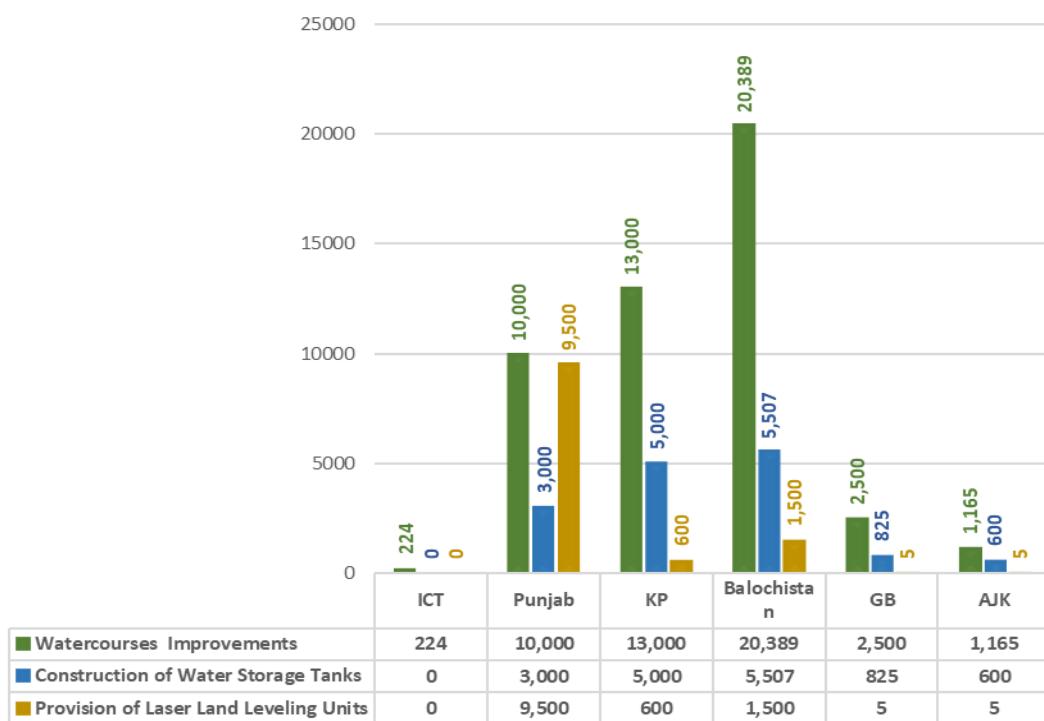


Figure-1.2: Zonal Targets

CHAPTER 2: SCOPE AND SERVICES OF ME&IE CONSULTANTS

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

2.1 OBJECTIVES

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

2.2 SCOPE OF THE SERVICES

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

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

- ix) Carry out the impact evaluation of the project intervention on the economy and stakeholders,
- x) Develop a website containing information on facilities and services, applications, procedures, watercourses, water storage tanks and laser Levelers database, etc. (while the project staff will maintain the website),
- xi) Provide technical support for the development of a custom-designed mobile application (Android Based) to capture on-site project progress and geo-tagged photos. It should be synchronized with the central MIS/GIS database and application for instant reporting and feedback to the management. The said requirement is based on the following functional features:
 - *Development of a GIS database with all spatial layers related to activities being undertaken under the project*
 - *Give technical assistance for up-dation/up-gradation of water management GIS database.*
 - *Development of web-based GIS application as a dashboard interface for comprehensive representation of all spatial and tabular information: custom designed web GIS application be developed for large LED screens, should be self-operative and represent project data on multiple layouts of application interface.*
 - *Development of a MIS application as an integral part of web GIS to maintain information on facilities and services, applications, procedures, watercourses database, etc.*
 - *Development of a custom designed mobile application (Android) to capture on-site project progress, geo-tagged photos; should be synchronized with the central MIS/GIS database and application for instant reporting and feedback to the management.*
 - *Application should generate custom designed reports and analysis as per user-defined requirements.*
 - *Application should generate alerts (SMS, email, web-notifications) to the user on the non-conformance of project's key indicators; the application should have the provision to custom define alerts levels and desired notifications.*

2.3 MONITORING STRATEGY

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

and procedures to carry out the Monitoring, Evaluations and Impact Evaluations of the project interventions were explained in Chapter 6 of Inception Report. The strategy aims to be finalized

and implemented in close coordination with the client and active participation of the beneficiaries as well as the project stakeholders.

Table 2.1: Monitoring Strategy for ME&IE Activities

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

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

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

2.4 FRAMEWORK AND RESULTS-BASED MONITORING (RBM) INDICATORS

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

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

CHAPTER 3: WORK PLAN OF THE CONSULTANTS FOR THIRD QUARTER

3.1 COMPLIANCE STATUS OF WORK PLAN OF 3RD QUARTER JULY-SEPTEMBER 2023

The activities of ME&IE Consultants commencing in the 3rd Quarter of 2023 (from July 1, 2023, to September 30, 2023) are outlined below. For a detailed breakdown of the time frame, please refer to the tentative Work Plan for the 3rd Quarter of 2023 provided in **Annex-A**.

Pre Field-Activities

- i) Validation of Baseline and Impact Survey
- ii) Preparation for 3rd-Phase Baseline Survey (Internal Meetings of ME&IE Consultants' Zonal Offices for development of Methodology for 3rd Phase BLS etc.)
- iii) Refresher Training of Field Staff for Impact Survey and 3rd-Phase Baseline Survey

Field Activities

- i) Regular Monitoring of Interventions in the Field
- ii) Field Visits for Impact Survey
- iii) Baseline Survey stage - 3
- iv) Data collection of the interventions in the field
- v) Online data entry in android based application

ICT Assignment

- i) Implementation of MIS Dashboard
- ii) Monitoring online data collection and Data entry
- iii) Monitoring Android-based Mobile Application under implementation by field staff
- iv) Data collection of interventions in MIS/GIS database
- v) On-Going Data Validation and cleaning
- vi) Improvement of the website of NPIWC-II

Coordination

- i) Meetings of TL, ME&IE Consultants with NPC regarding Project Progress / Issues
- ii) Meeting of DTLs with respective DTL of NWMC
- iii) Internal Meetings of ME&IE Consultants

Deliverables

- i) Monthly Monitoring Report
- ii) Quarterly Monitoring Report (Apr-Jun 2023)
- iii) Annual Monitoring & Evaluation Report (3rd)
- iv) Consolidation of Baseline Survey Phase-I & II Reports
- v) 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
Monthly Monitoring Report-Fourteenth (MARCH 2022)	Submitted
Monthly Monitoring Report-Fifteen (MARCH 2022)	Submitted
Quarterly Monitoring & Evaluation Report-First Quarter year 2022 (JANUARY – MARCH 2022)	Submitted
Monthly Monitoring Report-Sixteen (APRIL 2022)	Submitted

Document	Status
Monthly Monitoring Report-Seventeenth (MAY 2022)	Submitted
Monthly Monitoring Report-Eighteenth (JUNE 2022)	Submitted
Quarterly Monitoring & Evaluation Report-2 nd Quarter year 2022 (APRIL – JUNE 2022)	Submitted
Annual Monitoring & Evaluation Report (2 nd) Jul 2021-June 2022	Submitted
Monthly Monitoring Report-Nineteenth (JULY 2022)	Submitted
Monthly Monitoring Report-Twentieth (AUGUST 2022)	Submitted
Monthly Monitoring Report-Twenty First (SEPTEMBER 2022)	Submitted
Quarterly Monitoring & Evaluation Report-3 rd Quarter year 2022 (JUL – SEP 2022)	Submitted
Monthly Monitoring Report-Twenty Second (OCTOBER 2022)	Submitted
Monthly Monitoring Report-Twenty Third (NOVEMBER 2022)	Submitted
Monthly Monitoring Report-Twenty Fourth (DECEMBER 2022)	Submitted
Monthly Monitoring Report-Twenty Fifth (JANUARY 2023)	Submitted
Monthly Monitoring Report-Twenty Sixth (FEBRUARY 2023)	Submitted
Monthly Monitoring Report-Twenty Seventh (MARCH 2023)	Submitted
Quarterly Monitoring & Evaluation Report-1 st Quarter year 2023 (JAN – MAR 2023)	Submitted
Monthly Monitoring Report-Twenty-eighth (APRIL 2023)	Submitted
Monthly Monitoring Report-Twenty-Ninth (MAY 2023)	Submitted
Monthly Monitoring Report-Thirtieth (JUNE 2023)	Submitted
Quarterly Monitoring & Evaluation Report-2 nd Quarter year 2023 (APR – JUN 2023)	Submitted
Monthly Monitoring Report-Thirty First (JULY 2023)	Submitted
Monthly Monitoring Report-Thirty Second (AUGUST 2023)	Submitted
Monthly Monitoring Report-Thirty Third (SEPTEMBER 2023)	Under preparation
Quarterly Monitoring & Evaluation Report-3 rd Quarter year 2023 (JUL	Report in hand

Document	Status
– SEP 2023)	
Annual Monitoring & Evaluation Report (3 rd) 2022-23	Undergoing final review
Baseline Survey Report -I	Submitted
Baseline Survey Report - II	Submitted
Baseline Survey Report-II (Updated version WC)	Submitted
Baseline Survey Report -II (Draft version of WSTs)	Submitted
Mid-Line Monitoring & Impact Evaluation Report	Submitted
Consolidated Baseline Survey Report (Phase-I&II) (Draft)	Submitted
Baseline (Phase I&II) Consolidated Report - Final	Submitted
Mid-Term Monitoring and Impact Evaluation Report	Undergoing final review
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

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

Deliverables/Reporting Requirements are placed at Annex-D.

Matrix of Responsibilities

The Matrix of Responsibilities is placed at Annex-B.

CHAPTER 4: ACTIVITIES DURING THE REPORTING QUARTER

4.1 INTRODUCTION

The Quarterly Monitoring & Evaluation Report (QM&ER) provides an overview of our comprehension of all the activities outlined in the ME&IE assignment's Terms of Reference (TORs) and their timely execution within the prescribed timeframe.

4.2 OBJECTIVE OF QM&ER

The primary aim of the Quarterly Monitoring and Evaluation Report (QM&ER) is to inform the Client about the activities undertaken by the ME&IE Consultants in the current reporting quarter. Reporting plays a fundamental role within the monitoring and evaluation framework.

4.3 REPORTING QUARTER

This current QM&ER covers the period from 1st July 2023 to 30th September 2023.

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

4.3.1 Data Validation of Baseline and Impact Survey

The data validation for Baseline Phase-II and the Impact survey remained under process throughout this quarter.

4.3.2 Midterm Impact Survey Field Visits

The field teams of ME&IE Consultants continued field visits during the reporting quarter for the midterm impact survey. The specific visiting schedule for the Impact survey during this reporting quarter can be found in **Annex-E**, and a visual representation of the field visits for the Impact survey is provided in **Annex-F**.

4.3.3 Monitoring of Interventions in the Field

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

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

Consultants field activities, which include routine monitoring of interventions and data collection for the Midline Survey, continued during the reporting period.

4.3.4 Consolidation of Baseline Phase-I&II Report & Midterm Impact Report

The Consolidated reports of Baseline and Midterm Impact have been finalized in light of the Client's comments and directions.

The requisite Baseline consolidated Report has been submitted to FPMU on 25th September 2023.

This report consists of the first two phases' baselines. These two baselines include 2,180 sample respondent farmers on 422 sample watercourses and 223 sample Water Storage Tanks. The report is not final as third phase of the baseline is yet to be conducted. The main findings of the report are summarized below:

Monitoring of Component C1 (Organization of WUAs)

On an overall basis, 86% of the sample farmers were found aware about the existence / working of WUAs on their watercourses. About 94% of respondents informed that OFWM used to hold awareness meetings before the formation of the WUAs and were functioning properly. About 73% members had been participating in the meetings of WUAs and 99% members reported that the WUAs were formed through democratic process. On the whole, 92% of respondent farmers were found the members of WUAs of which 42% were located at the head of WC reaches, 31% at middle reaches and 27% at tail reaches and 88% of members were found water users of lined watercourses. Half (50%) of the respondent farmers informed that meetings by WUAs were held regularly whereas, 27% informed that no meeting were held and 23% were of the view that these meetings were held occasionally. Moreover, 38% of respondents informed that they always participated in the meetings, 61% participated occasionally and the rest one percent never participated.

Out of total, 8% respondents informed that the meetings were held every month, 6% told quarterly, 2% once a year and the remaining 84% informed that these meetings used to be held as and when need arose. About 86% of member respondents informed the WUAs were established through democratic process.

About 97% of member farmers responded that they did not face any dispute. Only 3% faced disputes, out of which 55% got their disputes resolved always, 31% to some extent and 14% never got their disputes resolved.

Out of 3% respondents who faced disputes, 31% related to Land Acquisition, 59% on distribution of Naccas, and 10% regarding funding for accounts. About 45% of disputes were solved by WUAs, 50% by OFWM department and 5% by Irrigation Department.

Baseline Results of Component C2 (Watercourses)

Land use intensity on sample farms covered under baseline surveys has varied from 71.5% in Balochistan to 94.5% in the Punjab and averaged at 90.3% for the sample farms and 91.4% for all farms on the 13,777 completed watercourses on the whole. In Canal and Non-Canal Command areas it has been estimated as 92.6% and 84.8% respectively.

Cropping intensity on sample farms covered under baseline surveys has varied from 101.9% in KP to 188.6% in the Punjab and averaged at **157.5%** for sample farms and 170.1% for all farms on the 13,777 completed watercourses on the whole. In Canal and Non-Canal Command areas it has been estimated as 176.4% and 107.6% respectively.

Crop yields per acre on all sample farms have averaged at 30.1 maunds for wheat, 28.0 maunds for rice, 26.4 maunds for cotton, 47.9 maunds for maize, 716.3 maunds for sugarcane, 399.8 maunds for rabi fodder, 339.5 maunds for kharif fodder, varied from 6.0 maunds to 60.5

maunds for minor crops, 66.7 maunds to 82.0 maunds for fruits and 93.4 maunds to 214.8 maunds for vegetables. These crop yields are weighted averages of crop yields in various zones / units included in the project.

Crop area on all sample farms has totaled 10,690 acres for wheat, 4,730 acres for rice, 2,793 acres for cotton, 1,220 acres for maize, 708 acres for sugarcane, 597 acres for other minor crops, 761 acres under vegetables, 466 acres under fruits, 494 acres under Rabi fodder, and 320 acres under Kharif fodder. Total crop area under all crops reported is 22,780 acres. These crop areas are total of respective crop areas in various zones / units included under the Project.

The cropping pattern on all sample farms or crop share in total crop area is estimated at 47% for wheat, 21% for rice, 12% for cotton, 5% for maize, 3% for sugarcane, 3% for minor crops, 3% for vegetables, 2% for fruits and 4% for fodder.

Farm labor employment on all sample farms on an average has been noted 813,376-man days or 35.7-man days per crop acre or 373 man days per sample farm.

Average gross income per acre on all sample farms has been estimated at PKR 89,373, cost of production at PKR 42,170 and net income at PKR 47,203.

When the results of our 2,180 sample farmers were super imposed on all the 187,440 farmers benefited from the improvement of 13, 777 watercourses in the project area up to June 2023; total farm area, cultivated area and crop area benefited calculates to 1,521,591 acres, 1,391,250 acres and 2,366,203 acres respectively. Gross income from these crop acres comes PKR 211.475 billion and net income PKR 111.692 billion. Zone wise / unit wise detail is given in **Table 1**. These baseline estimates would help us in determining the project benefits and carrying out economic analysis after the impact surveys are completed.

Table 1: Area Benefited and Gross and Net Income of the Farms under Completed Watercourses

Zone/Unit	Area Benefited on All Farms under Completed Watercourses			Income of all benefited Farms under Completed Watercourses	
	Farm Area	Cultivated Area	Cropped Area	Gross Income	Net Income
				Acres	Million PKR
Punjab	1,120,251	1,058,164	199,6200	178,406	94,227
KP	185,329	169,270	172,504	15,417	8,143
Balochistan	147,837	105,661	118,897	10,626	5,612
GB	55,153	46,454	58,632	5,240	2,768
AJ&K	12,907	11,609	19,832	1,772	936
ICT	115	92	138	12	7
Overall	1,521,591	1,391,250	2,366,203	211,475	111,692

Baseline Results of Component C3 (Water Storage Tanks)

Land use intensity on sample farms covered under baseline surveys has varied from 64.6% in Balochistan to 92.2% in the Punjab and averaged at 79.6% for sample farms and 77.5% for all farms in the complete scheme in the Project Area on the whole.

Cropping intensity has varied from 98.7% in KP to 160.9% in the Punjab and averaged at 119.4% for the sample farms and 122% for all farms under the completed schemes in the project on the whole.

Crop yields per acre on all sample farms have averaged at 31.3 maunds for wheat, 27.4 maunds for rice, 26.5 maunds for cotton, 70.9 maunds for maize, 740.6 maunds for sugarcane, 369.8 maunds for rabi fodder, 340.3 maunds for kharif fod-der, 6.0 for pulses, 167.0 for onion, 90.0 for tomatoes, 76.6 for apples.

Crop area on all sample farms has totaled 744.1 acres for wheat, 325.5 acres for rice, 38.6 acres for cotton, 191 acres for maize, 22.4 acres for sugarcane, 49.4 acres for pulses, 411.3 acres under vegetables, 387.1 acres under fruits, 79 acres under fodder. Total crop area under all crops reported is 2248.5 acres. These crop areas are total of respective crop areas in various zones / units included under the Project.

The cropping pattern on all sample farms or crop share in total crop area is estimated at 33.1% for wheat, 14.5% for rice, 1.7% for cotton, 8.5% for maize, 1.0% for sugarcane, 2.2% for pulses, 18.3% for vegetables, 17.2% for fruits and 3.5% for fodder.

Farm labor employment on all sample farms on an average has been noted 88,181 man days or 37.2 man days per crop acre or 395.43 man days per sample farm.

Average gross income per acre on all sample farms has been estimated at PKR 90,931, cost of production at PKR 42,864 and net income at PKR 48,067.

When the results of our 223 sample farmers were super imposed on all the 5,390 farmers benefited from the construction of 5,390 WSTs in the project area up to June, 2023; total farm area, cultivated area and total crop area benefited calculates to 56,817 acres, 44,053 acres and 51,015 acres respectively. Gross income from these crop acres comes PKR 4.639 billion and net income PKR 2.452 billion. Zone wise / unit wise detail is given in **Table 2**. These baseline estimates would help us in determining the project benefits and carrying out economic analysis after the impact surveys are completed.

On 223 spot checked WSTs, 257 trees were reported to be cut down. In their place 926 (more than thrice as per requirement) Saplings were planted out of which 328 survived after one year. WST protection arrangements were about 84% satisfactory and 98% WSTs were properly being maintained.

Out of 223 spot checked WSTs, satisfactory Excavation Certificates were issued by the Consultants to 193 (87%) WSTs.

About 172 (77%) WSTs were completed before receiving the subsidy amount. The rest 51 (23%) were completed after receiving the subsidy from the department.

Out of total 223 spot checked WST, on over all basis, 204 (91%) have been completed as per approved standards and specifications.

Table 2: Area Benefited and Gross and net Income of the farms under completed WSTs

Zone/Unit	Area Benefited on All Farms under Completed Schemes			Income of all benefited Farms under Completed Schemes	
	Farm Area	Cultivated Area	Cropped Area	Gross Income	Net Income
				Acres	
				Million PKR	
Punjab	10,823	9,982	16,058	1,460	772
KP	14,284	12,345	12,198	1,109	586
Balochistan	22,491	14,531	14,704	1,337	707
GB	4,264	3,411	4,133	376	199
AJ&K	4,956	3,784	3,923	357	189
Overall	56,817	44,053	51,015	4,639	2,452

4.4 ACTIVITIES ICT UNIT – DURING REPORTING QUARTER

4.4.1 Monitoring / Impact Field Visits of Interventions by ICT Unit Field Team

This Report provides the progress made in various activities narrating the accomplishments of Monitoring activities in respect of the project interventions e.g., field surveys for conducting Baseline-line, Mid-Line and End-Line/ Monitoring of the field interventions. This report also describes all activities to be carried out as per the quarterly work plan.

The Islamabad Capital Territory (ICT) Unit field team conducted field visits for Impact surveys, regular monitoring as well as case study Surveys during the reporting quarter. The ICT field team visited the ICT area and Mirpur, Muzaffarabad, Neelum, Poonch Sudhnoti and Bagh Disertricts of Azad Jammu & Kashmir (AJK).

Overall Progress:

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

- The ME&IE Consultants, Islamabad field team visited 20 Watercourses and 5 WSTs interventions during the reporting quarter 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 and financial constraints. Thus, the survey plan will be rescheduled upon the availability of list from client.
- ME&IE consultants' team have collected and compiled the secondary data from the office of the Directorate of Agriculture Extension, Islamabad in order to feed the NPIWC-II project's Dashboard as well as determination of sample size for initiating Baseline-III survey (i.e., list of Technical Sanctioned issued in respect of WC/WST construction).
- Technically vetted by the DTL, ICT-Unit the consolidated reports of Baseline- I & II and forwarded to the quarter concerned for their processing and necessary action.
- Preparation of Annual report (July 2022 - June 2023), report is under final review.

- Quarterly report for the months from Jan to Mar 2023 has prepared, finalized and ready to be submitted.
- The integrated MMR reports for the months of March, April and May 2023 was compiled, edited, verified and delivered to the relevant stakeholders.
- Scheduled regular meetings were held with Coordinating/Client, cooperating, and internal technical personnel, as well as, the Administration and Finance departments of the Zonal and National Offices to ensure timely completion of the deliverables including Baseline and Impact surveys resulting in printing of respective reports, as well as, MMRs, QER, Annual Monitoring Evaluation Report, etc.

Capacity Building/ Refreshing Training Workshop on “Designing M & E Systems for Development Projects”

Dr. Muhammad Islam, Irrigation Agronomist, NPIWC-II Project, National Office, Islamabad participated in the five days training workshop w.e.f., 11 September 2023 to 15 September 2023 at NCRD, Islamabad.

Training Objectives

The objectives of three-day training were as follows:

- Trained the stakeholders to design comprehensive monitoring and evaluation (M & E) with the support of logical framework.
- Develop performance indicators over the life of the project.
- Evaluation of a project against the set results

Participants' Profile

The training participants were from implementing Agencies and provincial government representatives. The total number of participants was 105 (males: 80; females: 25) who belonged to ICT, KPK, AJK, Sindh and Balochistan areas.

Resource Persons' Profile

The team that delivered sessions during the training comprised 5 external experts from different organizations of Pakistan. Given below is a brief description of the trainers along with their sessions conducted by them:

#	Name	Designation	Session title
1	Aftab Alam Khan	CEO, Resilient Future International (Pvt.), Ltd.	Logical Framework & Monitoring and Evaluation Framework
2	Akthar Hameed Khan	_____	Designing M & E Systems for Development Projects
3	Saleem Khan Khattak	Ex-Joint Chief Economist Planning Commission	M & E framework in public sector projects
4	Dr Usman Mustafa	Team Leader, National Program for Improvement of Water Courses- II Federal Project Management Unit, MoFS&R, GoP, Islamabad	Understanding Result-based Monitoring & Evaluation System
5	Dr. M. Faisal Anwar Malik	_____	Key Features and Considerations of Evaluations - KPIs

Logical Framework, Monitoring, and Evaluation

Planning is a continuous process of analyzing program information, making decisions and forming plans for future action to achieve the goals. In late 1960s, USAID developed Logical framework to assist in the planning, management, allocation of budget, resources to arbitrate about the effectiveness and evaluation of development project. Later on the logical framework became necessary to find out better ways to plan because of growing disillusion with problematic and unproductive program. Now LFA learning is an ability to enable managers to think comprehensively about planning skills and confidence. In this regard, Logical Framework essentially consists of a 16 grid box as shown in Table 2.

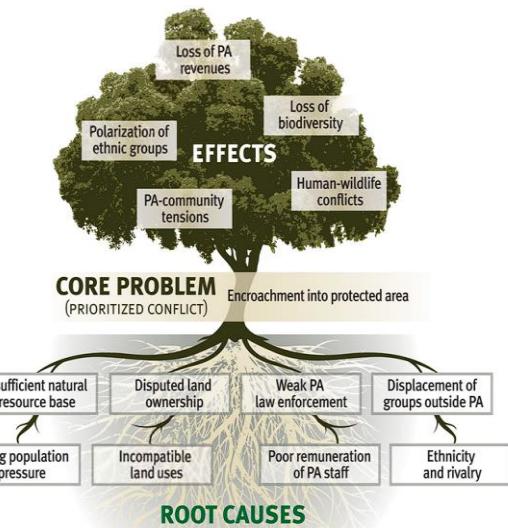


Table 2. The Logical Framework			
Narrative Summary	Objective variable Indicators (OVI)	Means of Verification	Assumptions
Goal			
Purpose			
Output			
Activities Clusters			

The primary log frame is not an easy document to prepare, it requires participatory planning of program delivering staff, who should depend on need assessment (Problem Tree), discussion with primary stakeholders (beneficiary of the program) and key stakeholders (Government officials, donors, etc.).

The team has to construct the Log Frame by keeping in mind the aim of the work from general to specific, the process begins with the vertical hierarchy when they have to define the goal, purpose, output and activities while in horizontal hierarchy starting with the risk and assumption at every level, then OVIs (Objective variable Indicators) and MOV (means of verification) done. At each point, the linkage between vertical and horizontal hierarchies must be checked and ensure the coherence of the whole design. Always try to keep the Log Frame clear and simple.

In Pakistan, for any project we have to follow the rules of Government of Pakistan to develop Project Cycle Documentation:

- PC-I Basic Project Document
- PC-II Proposal for Survey & Feasibility
- PC-III Quarterly Progress Report
- PC-IV Completion Report
- PC-V Annual Operation Report

It is prerequisite to develop an M&E plan, should be developed at the beginning of the program before

starting any monitoring activities with a clear plan that how to respond for specific questions regarding project. The M& E plan must be prepared by the experienced research scientists with the collaboration of project staff who are involved in designing and implementing the program. It will clearly identify the way of collecting data to track indicators, the way of data analysis and how the data will be presented according to the program staff and for its improvement. Remember, M&E data alone is not useful until someone puts it to use! The M&E plan will help to use data efficiently for the improvement of the program and in final project reports. In Pakistan, we have specified system in place to monitor the program and evaluate its success as under:

- **Internal Monitoring**
Sponsoring Ministry
- **External Monitoring**
Provincial P & D Department
Projects Wing at Planning Commission
- **Monitoring Cells**
Establishment of Planning and Monitoring Cells in ministries as directed by ECNEC.

Elements of Implementation Monitoring

- Description of the problem or situation before the intervention
- Benchmarks for activities and immediate outputs
- Data collection on inputs, activities, and immediate outputs
- Systematic reporting on provision of inputs and production of outputs
- Designed to provide information on administrative, implementation, and management issues as opposed to broader development effectiveness issues.
- Baseline data to describe the problem or situation before the intervention
- Indicators for outcomes
- Data collection on outputs and how and whether they contribute toward achievement of outcomes
- More focus on perceptions of change among stakeholders
- Systemic reporting with more qualitative and quantitative information on the progress toward outcomes
- Done in conjunction with strategic partners in order to captures information on success or failure of partnership.

Types of Evaluations

- a) Ex-ante Evaluation (Baseline)
- b) On-going Evaluation (Mid-term Evaluation)
- c) Ex-Post-Completion Evaluation (Final Evaluation / End Line)

- d) Process Evaluation
- e) Real-time Evaluation.

Evaluation of Criteria

- a) Relevance
- b) Efficiency
- c) Effectiveness
- d) Impact
- e) Sustainability.

Evaluation Indicators

- Financial/Economic changes at the project level
- Economic changes in the community (e.g. employment)
- Additional goods and services
- Social changes
- Institutional changes
- Environmental impact.

Performance base Reporting

- Reporting on performance --- Results should reflect: *output* or short term, *outcome* or medium term and *impact* or long term
- Description of the key activities undertaken during the reporting period that have supported the achievement of results, and any variance of these activities from the approved work plan
- Identification of key management or development factors, issues or challenges affecting the achievement of results
- Status update of recipients partner financial and in-kind inputs and contributions
- Thorough analysis of factors, issues or challenges affecting the achievement of results
- Describing how the project addresses gender equality or environmental issues
- An update of the beneficiary reach at all levels of the results chain
- An update of the identified risks and mitigation plans for high level risks
- Information on required modification to planned project/program results and associated resource allocation.
- Recommend modifications to the approved Annual Work plan.

Advantage and disadvantage of Log Frame

- i. The Log Frame summarizes the entire program on one sheet of paper.
- ii. It makes the program very explicit without any bulky proposals for donors or reviewers.

- iii. The Log frame must be regularly reviewed the in-built monitoring system and changed according to the prevailing situation.
- iv. The weaknesses of the project be carefully reconsidered and analyzed.

Conclusion:

Well prepared Log Frame takes time and efforts but the program based upon them are stronger and more sustainable.

4.4.2 Coordination Meetings of ME&IE Consultants with The Client

A series of meetings held with the client in respect of review of progress of Baselines and Midline Impact surveys held with the conclusions: there should be one consolidated Baseline and that benchmark information there will be endline project impact. Presently, the ME&IE consultants are waiting the list of sampling frame to draw sample size for conducting consolidated final baseline and then on this basis the endline report will be conducted through employing the impact survey information.

Date	31-07-2023
Venue	Agri. Complex, Islamabad
Participants	
i.	Engr. Ghulran Shehzad, Dty. Dir. AE, ICT- Zone.
ii.	Dr. Ikram Saeed, DTL, ICT-Unit, National Office
iii.	Mr. Rasheed Ahmed Zehri, FTI, ICT
iv.	Ms. Sana Gull, ME & IE Officer, ICT.
v.	Ms. Hafiza Maryam Iqbal, ME & IE Officer, IC
vi.	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><i>ME&IE Consultants in discussion with Deputy Director Agri. Extension at ICT Agriculture Complex, Islamabad</i></p>	

Meetings/Coordination ICT-Zone

In addition to in-house planning meetings under the leadership of DTL, as well as, to address the progress of the Project under the prevailing shortfalls of financial resources, lack of sampling frame data bank restricting us to draw targeted representative sample size (viz., a major hurdle to meet the targeted schemes' data collection for Baseline-III), as well as, a few meetings attended under the overall umbrella of Team Leader, NPIWC-II in order to appraise the prevailing limitations and in lieu to strategize by overcoming the above mentioned bottlenecks.

Some of the discussions were made during the progress review meetings about the project as well as to answer the comments raised during the past proceedings of Project review professional committees/Project Board of Management in respect of the quality and quantity improvement of Baselines, Midline/Impacts and End line project reports. The petty issues and opportunities were also brought in the proceedings of the meetings.

Date	28-08-2023
Venue	Agri. Complex, Islamabad
Participants	
•	Dr. Ikram Saeed, DTL, ICT-Unit, National Office
•	Dr. Muhammad Islam, Irrigation Agronomist.
•	Mr. Rasheed Ahmed Zehri, FTI, ICT
•	Ms. Sana Gull, ME & IE Officer, ICT.
•	Ms. Hafiza Maryam Iqbal, ME & IE Officer, ICT
•	Ms. Abida Munir, ME&IE Officer, ICT-Unit
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> • Discussion on field visit plan for followig: <ul style="list-style-type: none"> i. Baseline-III ii. Regular Monitoring iii. Spot Checks, and iv. Potential Case Studies • Project Progress Review meetings and development of strategies to overcome the hindrances in the way of smooth running of the targeted project targets, etc. 	
	
<p><i>ME&IE Consultants' Meeting at National Office Islamabad</i></p>	

Date	18-09-2023
Venue	ME&IEC National Office Islamabad
Participants	
i. Dr. Usman Mustafa, TL, NPIWC-II ii. Dr. Ikram Saeed, DTL, ICT-Unit, National Office. iii. Dr. Muhammad Islam, Irrigation Agronomist iv. Mr. Rasheed Ahmed Zehri, FTI, ICT v. Ms. Sana Gull, ME & IE Officer, ICT. vi. Ms. Hafiza Maryam Iqbal, ME & IE Officer, ICT vii. Ms. Abida Munir, ME&IE Officer, ICT-Unit viii. Salman Khan, Supporting Technical Staff	
Discussions/Decisions of Meeting	
<ul style="list-style-type: none">Discussion on field visit plan forfour main purposes:<ul style="list-style-type: none">Baseline-III,Regular Monitoring,Spot Checks, andPotential Case StudiesProject Progress Review meetings and development of strategies to overcome the prevailing bottlenecks in a way for smooth running of the targeted project activities, etc.	
	
<p>ME&IE Consultants' Meeting at National Office Islamabad</p>	

4.5 ACTIVITIES PUNJAB ZONE – DURING REPORTING QUARTER

The ME&IE consultant's Punjab zonal office activities remained as per conduction of their usual functions during the Quarter under review are classified as under:

- Pre/Post Field Activities
- Field Activities
- Coordination/Meeting of ME&IE Consultants with stakeholder

4.5.1 Pre Field-Activities

The main Pre-Field Activities were the review of the past performance and designing strategy for the future working. Field teams reviewed the Monitoring tools and a few refreshment courses were organized in order to enhance the efficiency of field teams. Furthermore, the target and achievements of ME&IE consultants were also studied in depth again for managing the upcoming field activities.

Such activities were very useful for planning and working in the field.

The Deputy Team Leader held several meetings with the field team members to discuss and assess various issues concerning the tasks that needed to be addressed before and during field operations. The primary activities conducted by the ME&IE consultants in the Punjab Zone are as follows:

- Data validation of Baseline and Impact survey continued during this quarter.
- 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

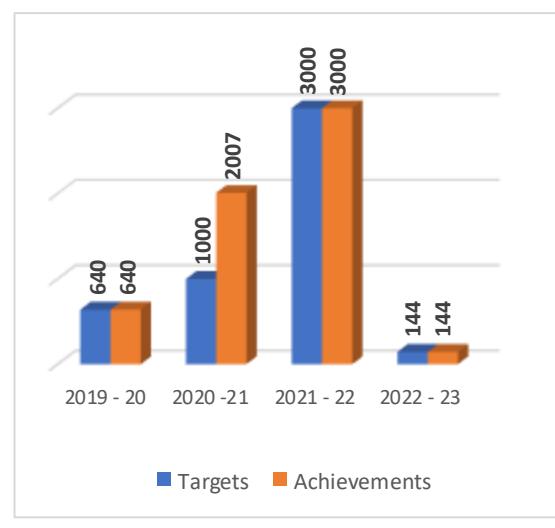
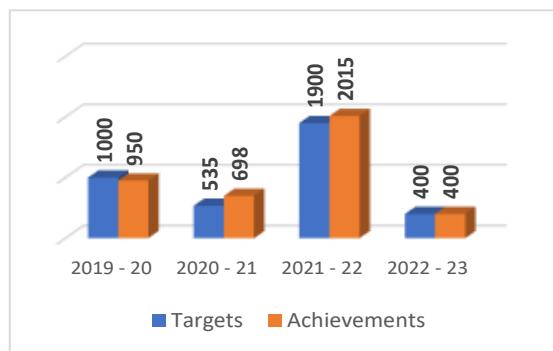
The main point for discussion was of review the past performance and strategy for the future working. The OFWM of Data / Information reviewed the target and achievement of ME&IE consultants for future field activities.

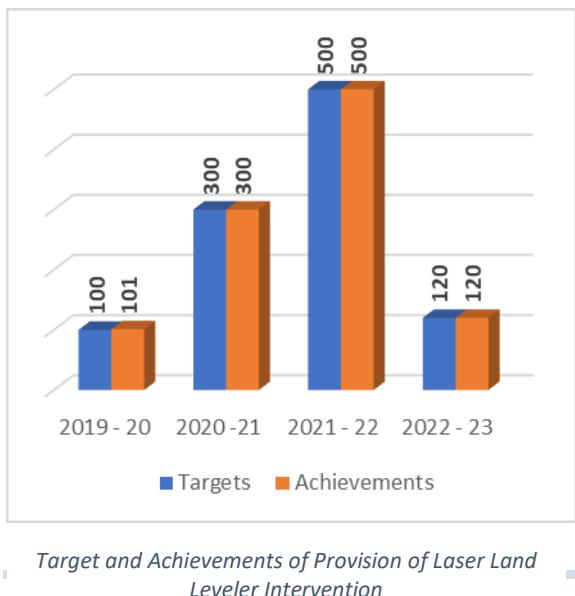
Tabl: Year wise Physical Target and Achievements of various Interventions in Punjab

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 Provision of Laser Land Leveler Intervention

4.5.2 Field Activities

In the course of the reporting quarter, the field teams of ME&IE Consultants, Punjab zone, conducted a midterm impact survey by visiting 77 watercourses and 30 water storage tanks (WST) interventions. Please refer to **Annex-E** for the comprehensive visitation schedule and **Annex-F** for visual documentation of the impact survey field visits.

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.

4.5.3 Post Field Activities

Review of accumulated data and its validation. The activities were related to the field data on Water User Associations Improvement of water Courses and Construction of Water Storage Tank/Ponds Intervention. Such data pertained to monitoring, baseline and Impact survey of the interventions. So, for the Punjab zonal office has completed the validation task of the followings.

4.5.4 Impact of Laser Land Lever 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 Provider	Aitzaz Hussain
Father Name	Nazir Ahmad
Area Owned Levelled	5 Acres
Tehsil & District	Shahkot Nankana Sahib
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 to 1-5-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 level.

4.5.5 Coordination / Meetings of ME&IE Consultants Punjab Zone with Stakeholders

The coordination meeting with stakeholder/beneficiaries of the project are necessary to discuss field operational activities. It is a regular practice of ME&IE consultants 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 OFWM.

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	Office (Team in Charge ME&IE Consultants)
<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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 his consent to provide the data at earliest.</p>	<p>Discussion & Decision:</p> <ol style="list-style-type: none"> 1. Discussion on mechanism of training program of OFWM, field staff on android-based system both the person agreed in principal Mr. Tahir Mehmood. Pointed out decision as earlier as possible 2. Overall review of field staff activities of both staff OFWM and ME&IE consultants in the meeting field staff activities were treated as satisfactory under the existing situations 3. Review of Future Plans ME&IE consultants representative informed these future plans is under preparation and will be finalized soon.
	<p><i>Meeting with Focal Person of DGA OFWM Mr. Tahir Mehmood to discuss & plan the training session for field staff</i></p>
	<p><i>View of the Meeting held in Directorate General (Agri) OFWM Office Lahore</i></p>

Meeting Held at DG OFWM Lahore

Date	04-08-2023
Venue	Director General Agriculture HQ OFWM Davis Road Lahore
Participants	
i.	Mr. Tahir Mehmood Focal Person DGA OFWM/DDA Headquarter (OFWM) DDA climate change.
ii.	Mr. Awais Jahangeer Field Focal Person to DG Office (Team in Charge ME&IE Consultants)
iii.	Mr. Rizwan Suleman field team in-charge ME&IE consultants.

Meetings Held at DG OFWM Lahore

Date	21-09-2023
Venue	Director General Agriculture HQ OFWM Davis Road Lahore
Participants	
i.	Mr. Tahir Mehmood Focal Person DGA OFWM/DDA Headquarter (OFWM) DDA climate change.
ii.	Mr. Awais Jahangeer Field Focal Person to DG Office (Team in Charge ME&IE Consultants)
iii.	Mr. Rizwan Suleman field team in-charge ME&IE consultants.

Discussions/Decisions of Meeting

1. The Focal Person of ME&IE Consultants briefed about the ongoing activities of consultants and shared the overall performance and achievements. Focal Person of DGA OFWM appreciated and endorsed the efforts of ME&IE Consultants.
2. The Focal person of ME&IE Consultant emphasized to initiate training of field staff for data collection and discuss plan. The focal person to DGA office ensured to start this with in week on emergency basis.
3. ME&IE Consultants requested Focal Person to DGA OFWM office for the provision of remaining data about all interventions as soon as possible

in order to update on PMIS Dashboard. On this matter Focal Person of DGA OFWM responded that all remaining data will be provided to Consultants with in week.

4. 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.

5. ME&IE Consultants requested Focal Person to DGA OFWM Office for the data provision relevant to Laser Land Leveler to highlight the financial contribution made by the government and to evaluate the economic impact of activity. Focal Person of DGA OFWM ensured his full cooperation for the matter and showed his consent to provide the data at earliest.



Meeting of ME and IE Consultants with Focal person to DGA OFWM Mr. Tahir Mehmood

4.5.6 Internal Meeting /Capacity Building

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

4.6 ACTIVITIES KP ZONE – DURING REPORTING QUARTER

During the reporting quarter, the following are the activities performed by the KP zonal office staff Peshawar.

Tangible Achievement of the Quarter:

- i. Data cleaning and validation of Baseline and Impact survey
- ii. Field visits for impact survey and monitoring
- iii. Meetings (both formal and Informal) with OFWM Department KP Officials
- iv. Meetings with Provincial Project Management Unit (PMU) officials
- v. Monitoring of data entry to the Dashboard of the OFWM Department Officials
- vi. Close Coordination with OFWM focal person for the data entry to the dashboard
- vii. Coordination with the OFWM Ddepartment KP for Technical Sanction issued for new schemes.
- viii. Prepared quarterly work plan
- ix. Collection, cleaning and entering of data for dashboard from OFWM.
- x. Writing of MMRs for the months of July, August and September 2023

4.6.1 Summary of the activities performed by KP Zone during the reporting Quarter July to September 2023

- The major activities conducted by ME&IE consultants during the reported quarter were:
- ME&IE Consultants KP Zonal field teams visited 42 Watercourses and 15 WSTs interventions to conduct midterm impact survey.
- NPIWC-II KP all watercourse, and water storage tank schemes coordinate verification through Google Earth and identification of incorrect coordinates.
- ME&IE consultants KP zone made verification of all watercourses, and water storage tank schemes coordinate through Google Earth and identified incorrect coordinates.
- Keeping in view the responsibilities of the ME&IE Consultants the KP Zonal office relevant staff frequently paid visits to concerned offices of stake-holders of the NPIWC-II for the collection of the required information. During these visits a number of activities has been performed by the KP Zonal office. The Consultants kept close contacts with all the stake-holders of the NPIWC-II, viz Directorate of OFWM KP, Focal Person/Coordinator NPIWC-II of OFWM

Department, District Directors OFWM Department and relevant officials. In order to minimize the digital contacts were through emails and telephonic calls. However, where necessary, personal visits were made to different offices of the stake-holders. The purpose of these contacts was to update the ME/IE Consultants about the schemes launched under the NPIWC-II project in the KP. Continuous guidance both through contacts as well as through telephonic calls were offered to the OFWM Department KP official in uploading of the data through android application to the Dashboard. Several meetings with Project coordinator were held regarding newly launched schemes in the year 2023-24 of Water Courses and Water Storage Tanks in KP.

4.6.2 Data Entry and GPS validation

During the the reporting quarter, KP ICT Team entered and validated the GPS locations for hundreds of schemes of KP and Baluchistan province. OFWM directorate extends their usual support and provided all the relevant information.

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 quarter 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. 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 NPIWC-II by the concerned department. During these meetings general

discussion was also made about the perceptions of the OFWM Department officials and of the farmers about these schemes. As per the OFWM Departments officials most of the farmers were satisfied from the benefits of these schemes in terms of increase of crop productivity, cropping intensities and time saving.

4.6.3 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.

In the course of the reporting quarter, the field teams of ME&IE Consultants, KP zone, conducted midterm impact survey by visiting 42 watercourses and 15 water storage tanks (WST) interventions. Please refer to **Annex-E** for the comprehensive visitation schedule and **Annex-F** for visual documentation of the impact survey field visits.

The provisional plan for the Baseline-III survey could not be executed as scheduled due to the incomplete provision of the sampling frame list. Consequently, the survey plan will be adjusted and set in motion once the client provides the complete list.

4.6.4 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 NPIWC-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

A 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

A meeting regarding sharing of data and progress of NPIWC-II was held during reporting quarter, the detail of which is as follows: -

Date	September 11, 2023
Venue	NESPAK, Chinnar Lane. Peshawar
Participants	
i.	Mr. Muhammad Hayat – Focal Person OFWM NPIWC II
ii.	Mr. Fawad Ahmad- ICT Manager M&EC
iii.	Mr. Kaiser Khan – Field Engineer M&EC
iv.	Mr. Muhammad Haris – Tech Support OFWM
v.	Mr. Muhammad Ilyas – Chief Engineer NESPAK
Discussions/Decisions of Meeting	
Agenda: Sharing of Data regarding the project interventions Progress & Missing Data Compilation.	
<ul style="list-style-type: none"> • Mr. Hayat started the meeting with discussion on how to compile and streamline data obtained 	

between stakeholders and stressed the need for a comprehensive approach towards tallying the data to sum up into a cohesive whole for the dashboard.

- Mr. Fawad concurred and deliberated on issues faced to accommodate the missing data as demanded by the PMU.
- Mr. Ilyas gave his input on the issue and agreed that NESPAK is always ready to sit and discuss how to further stimulate the process of data generation and compilation.
- Different issues were discussed during the meeting to ensure the stakeholders coordination regarding data standardization is ensured.
- Preparations for upcoming PMU coordination meeting was discussed and deliberated on how to accommodate the required columns/data into the already existing database.
- All the participants agreed to chalk out a detailed plan for further improvement of the data accuracy and logical analysis of the same to be ensure at each stakeholder's end.

Recommendations, Suggestions and Way Forward

- Stakeholders to coordinate more between themselves to ensure data unity.
- Progress on the subject matter is to be updated with the OFWM, NESPAK, & M&E consultants weekly.

Another meeting regarding co-ordination, cooperation, support, sharing of data and progress of NPIWC-II held, the detail of which is as follows: -

Date	September 26, 2023
Venue	PMU, Gul Mohar Lane Peshawar
Participants	
i.	Mr. Saeed ur Rehman PD (PMU)
ii.	Mr. Asad (PMU)
iii.	Mr. Muhammad Hayat – Focal Person OFWM NPIWC II
iv.	Mr. Fawad Ahmad- ICT Manager M&EC
v.	Mr. Shakeel Ahmed – PMU
vi.	Mr. Kaiser Khan – Field Engineer M&EC
vii.	Mr. Sajid (M&E Officer PMU)
viii.	Ms. Kulsoom Rehman -DD DAE
ix.	Mr. Imran – Supervisor CAMOES
x.	Mr. Anwar – Focal Person OFWM NP-ECABA
Discussions/Decisions of Meeting	
Agenda: Co-ordination, Cooperation, Support, Sharing of Data regarding the project interventions Progress & Follow up of previous meeting NPIWC II & NP-ECABA,	
<ul style="list-style-type: none"> • Mr. Saeed Ur Rehman started the meeting with recitation from the Quran and elaborated on the current meeting agenda. 	

- Previous meeting decisions were discussed and followed up on the points agreed upon earlier.
- PMU expressed concern at the slow progress of the project as only 27% physical and 20% financial progress has been made so far.
- Mr. Muhammad Hayat discussed the overall implementation and progress at length and expressed concern on the progress of M&E function and stressed the need for expediting the same.
- Mr. Fawad Ahmed deliberated on the data input financial and technical and how the consultant team is working round the clock to upload and streamline the data to be available on the dashboard asap.
- Anomalies of various kinds were highlighted by the PMU during their field visits regarding technical specs and requested the M&E consultants to ensure a couple of case studies to compare the schemes of different areas. It was decided that M&E consultants will conduct studies in southern, central and northern districts on sample basis.
- Mr. Asad discussed various discrepancies observed in the field where govt share threshold were exceeded in the same districts on the same type of intervention & stressed on the M&E consultant to ensure highlighting such instances during their visits.
- Mr. Asad reiterated the need for data compilation and uploading and requested the OFWM and consultants to coordinate and finalize the data asap.
- Mr. Hayat agreed to have a meeting with NESPAK and M&E consultant to discuss data compilation within the next two days.
- In the end the PMU thanked the participants for attending and hoped to meet at a later date to discuss progress made till that date.
- The PMU staff thanked the participants for attending the meeting and hoped to discuss progress made at a later date.

Recommendations, Suggestions and Way Forward

- ME&IE consultant will conduct case studies at Southern, Central & Northern districts of the province to ensure comparative analysis of various discrepancies highlighted by the PMU.
- OFWM will arrange a meeting with the consultants for data compilation and accommodating the information requested by the PMU.
- Pace of Project implementation will be expedited at every stakeholder's end.



Pictorial views of the meeting

Date	August 2023
Venue	Office of the Focal Person of NPIWC-II, OFWM Department, KP

Participants

- Mr. Hayat Khan, Focal Person NPIWC-II
- Dr. Humayun Khan, DTL ME/IE consultants KP Zone
- Mr. Fawad Ahmad, Manager ICT ME/IE consultants KP Zone
- Mr. Haris, Engineer OFWM Department

Discussions/Decisions of Meeting

During the meeting with the Focal person general discussion was made on the data entry by the OFWM officials to the dashboard. The ME/IE consultants offered their services for assisting the concerned staff of the OFWM in data entry to the Dashboard. The meeting was adjourned with a vote of thanks by the Focal Person of NPIWC-II project.



4.7 ACTIVITIES BALOCHISTAN ZONE – DURING REPORTING QUARTER

The “Quarterly Monitoring and Evaluation Report for the period of 1st July 2023 to 30th September 2023” comprises a range of activities conducted by ME&IE Consultants in Balochistan. These activities are summarized below:

Throughout the previous quarter, we couldn't achieve significant progress in our project plan due to non starting of Baseline Phase-III field visits. However, we have achieved some key objectives. The project's overall implementation is on track, and we remain dedicated to accomplishing our goals within the designated time frame. The team has worked diligently to ensure smooth execution and overcome any challenges that arose.

In the last three months, our team conducted limited field visits for monitoring various project components. These visits aimed to evaluate the effectiveness of implemented measures, assess the on-ground situation, and identify areas in need of further improvement. These visits have provided invaluable insights into the project's impact and have deepened our understanding of the needs and concerns of the local communities.

The project's monitoring dashboard is continuously updated with relevant data, offering real-time insights into progress and performance indicators. However, we've noted that certain areas in Balochistan are experiencing slower progress than anticipated. To address this concern, immediate action is required from the Deputy Directors (DDs). We urge the DDs to identify bottlenecks and implement strategies to expedite progress, as timely intervention is crucial for the overall success of the project.

During the past three months, we have actively engaged in meetings with Deputy Directors and other stakeholders. These meetings have provided a platform for open dialogue and collaboration, enabling us to address challenges, share updates, and align our efforts toward project goals. Valuable feedback and suggestions from stakeholders have been taken into consideration for ongoing and upcoming project activities.

Looking ahead to the upcoming quarter, we have developed an updated tentative work plan to guide our activities. This plan includes specific tasks, timelines, and deliverables, designed to ensure continued progress and adherence to project objectives.

4.7.1 Updated Progress Of ME&IE Consultants - Balochistan.

OVERALL PROGRESS:

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 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 183 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 78 Watercourses and 105 Water Storage Tanks in regular monitoring. The updated status of the total activities done is given in the below table:

Table: Summary of Field Activities, District-wise

Sr. #	District	Pre-Testing		Executive Visits		Baseline Survey		Impact Assessment Survey		Impact Survey (LLL)	Regular Monitoring / Spot Checking		Total
		WC	WST	WC	WST	WC	WST	WC	WST		WC	WST	
1	Quetta	3	3	1	1	3	15	3	15	-	7	13	64
2	Pishin	3	1	2	5	2	9	2	9	-	6	11	50
3	Killa Abdullah	-	-	-	-	4	2	4	2	-	4	2	18
4	Ziarat	-	-	-	-	2	4	2	4	-	2	4	18
5	Mastung	-	-	2	1	5	8	5	8	-	7	9	45
6	Nushki	1	2	3	1	2	1	2	1	-	6	4	23
7	Sibi	-	-	-	-	1	3	1	3	-	1	3	12
8	Jhal Magsi	-	-	-	-	1	4	1	4	-	1	4	15
9	Kachhi	-	-	-	-	2	10	2	10	-	2	10	36
10	Naseerabad	-	-	-	-	9	6	9	6	-	9	6	45
11	Jaffarabad	1	1	-	-	3	-	3	-	4	4	1	17
12	Sohbatpur	-	-	-	-	10	-	10	-	3	10	-	33
13	Loralai	-	-	-	-	3	7	3	7	-	1	6	27
14	Dukki										2	1	3
15	Zhab	1	1	-	-	2	1	2	1	-	3	2	13
16	Kila-Saifullah	-	-	-	-	3	4	3	4	-	3	4	21
17	Musa khel	-	-	-	-	1	1	1	1	-	1	1	6
18	Sherani	-	-	-	-	2	2	2	2	-	2	2	12
19	Khuzdar	-	-	-	-	3	7	3	7	-	3	7	30
20	Kalat	-	-	-	-	1	3	4	3	-	3	5	23
21	Turbat	-	-	-	-	-	-	-	-	-	-	7	7
22	Pangur	-	-	-	-	-	-	-	-	-	1	3	4
Sub-Total		9	8	8	9	61	88	61	88	7	78	105	522

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

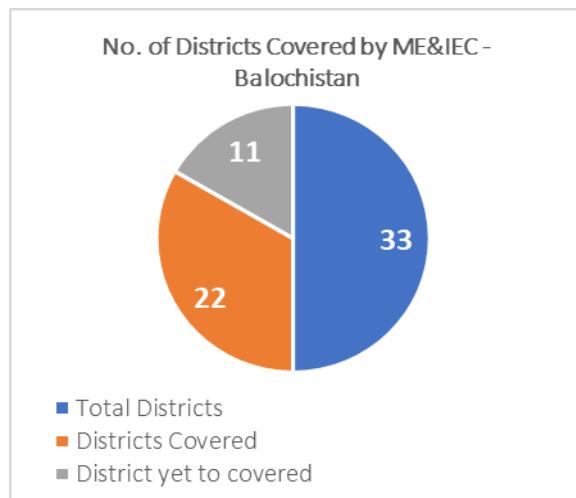


Figure: No of Districts Covered by ME &IEC – Balochistan

4.7.2 VALIDATION OF BASELINE AND IMPACT SURVEY

Data validation of Baseline and Impact survey continued during reporting quarter.

4.7.3 FIELD VISITS, BALOCHISTAN ZONE:

During the reporting quarter, limited field activities were carried over by the ME&IE consultants due to certain unavoidable circumstance. 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-III" activities accordingly.

4.7.4 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: District-wise Progress of Dashboard, Balochistan (Watercourses)

Division	District	2019-20		2020-21		2021-22		TOTAL	
		Total Data uploaded by ME&IEC	Validated by OFWM	Total Data uploaded by ME&IEC	Validated by OFWM	Total Data uploaded by ME&IEC	Validated by OFWM	Total Data uploaded by ME&IEC	Validated by OFWM
Kalat	Awaran	140	76	22	22	0	0	162	98
Kalat	Kalat	97	0	28	28	158	123	283	151
Kalat	Khuzdar	139	0	17	0	9	6	165	6
Kalat	Lasbela	110	0	35	0	44	35	189	35
Kalat	Mastung	102	93	30	1	66	60	198	154
Kalat	Surab	20	20	11	11	11	11	42	42
Total		608	189	143	62	288	235	1039	486
(%)		31%		43%		82%		47%	
Loralai	Barkhan	61	0	0	0	3	0	64	0
Loralai	Duki	27	27	15	15	1	1	43	43
Loralai	Loralai	158	157	47	43	132	130	337	330
Loralai	Musakhail	100	99	86	44	1	0	187	143
Total		346	283	148	102	137	131	631	516
(%)		82%		69%		96%		82%	
Makran	Gwadar	12	0	11	0	0	0	23	0
Makran	Kech	68	68	20	20	44	44	132	132
Makran	Panjgur	124	73	25	25	5	5	154	103
Total		204	141	56	45	49	49	309	235
(%)		69%		80%		100%		76%	
Nasirabad	Jaffarabad	53	53	32	32	56	56	141	141
Nasirabad	Jhal Maghi	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%	

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
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%	

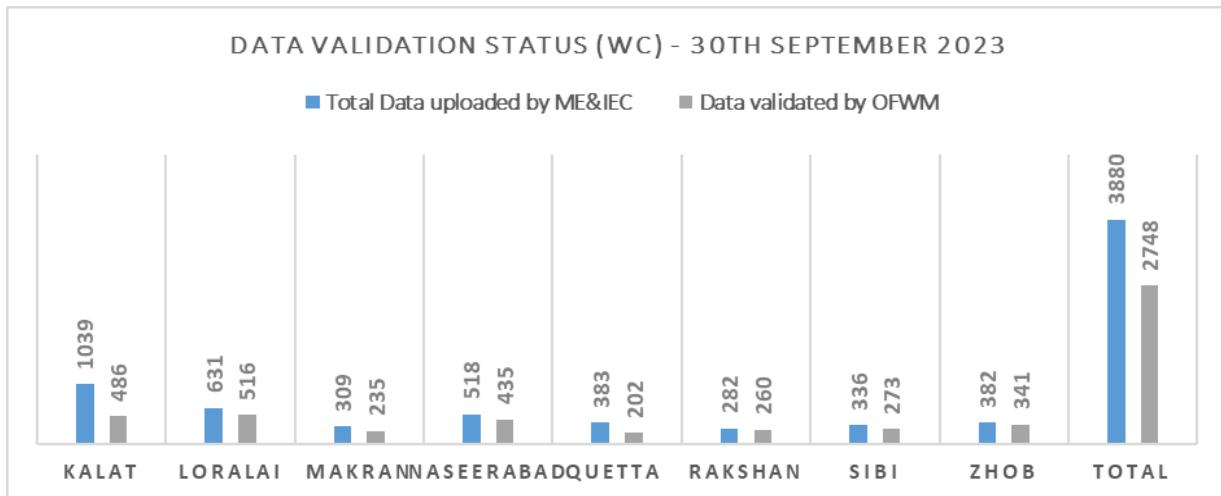


Figure: Division-wise Graphical Progress of Dashboard, Balochistan (Watercourses)

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

Division	District	2019-20		2020-21		2021-22		TOTAL	
		Total Data uploaded by ME&IEC	Validated by OFWM	Total Data uploaded by ME&IEC	Validated by OFWM	Total Data uploaded by ME&IEC	Validated by OFWM	Total Data uploaded by ME&IEC	Validated by OFWM
Kalat	Awaran	12	12	27	27	48	0	87	39
Kalat	Kalat	20	2	32	32	127	65	179	99
Kalat	Khuzdar	20	0	30	0	89	68	139	68
Kalat	Lasbela	20	0	24	0	106	45	150	45
Kalat	Mastung	20	18	32	2	55	12	107	32
Kalat	Surab	3	3	9	9	17	17	29	29
Total		95	35	154	70	442	207	691	312
(%)		37%		45%		47%		45%	
Loralai	Barkhan	15	0	0	0	39	6	54	6
Loralai	Duki	7	7	9	9	13	13	29	29
Loralai	Loralai	22	22	32	3	59	59	113	84
Loralai	Musakhail	11	11	16	16	0	0	27	27
Total		55	40	57	28	111	78	223	146
(%)		73%		49%		70%		65%	
Makran	Gwadar	3	0	4	0	0	0	7	0
Makran	Kech	29	18	24	0	46	46	99	64
Makran	Panjgur	18	18	29	25	122	105	169	148
Total		50	36	57	25	168	151	275	212
(%)		72%		44%		90%		77%	
Nasirabad	Jaffarabad	0	0	8	8	9	9	17	17
Nasirabad	Jhal Magsi	7	0	0	0	23	0	30	0

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
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 Abdulla	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 Saifulla	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%	

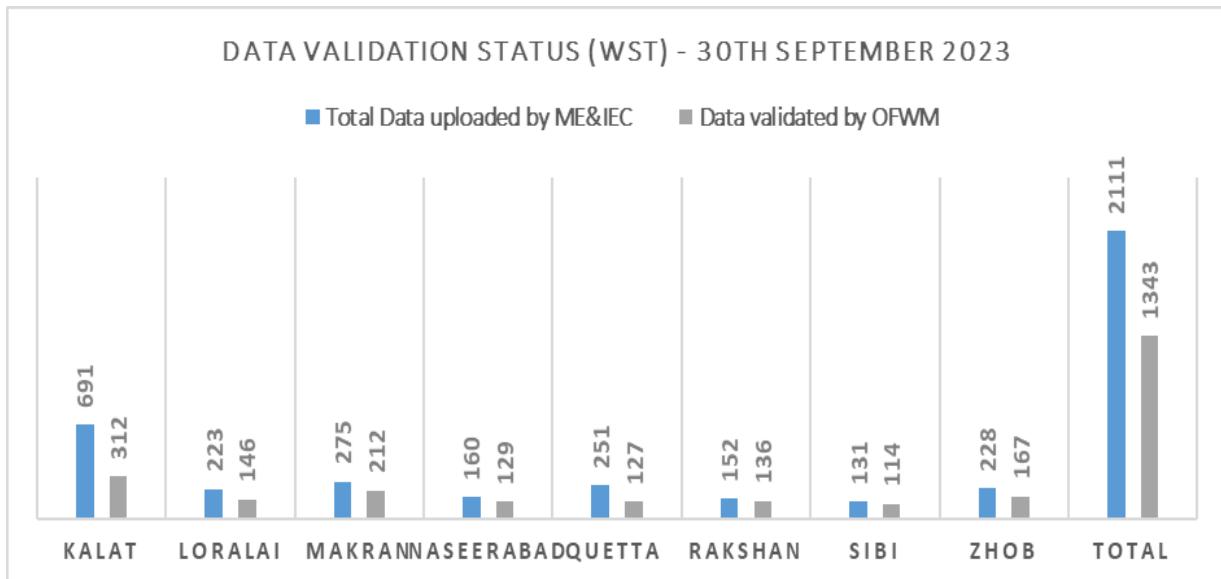


Figure: Division-wise Graphical Progress of Dashboard, Balochistan (Water Storage Tank)

Pictorial Views of Meetings at Zonal Office Quetta

Meeting with Mr. Imran Achakzai



Internal Meeting



4.8 SOCIAL AND GENDER COMPONENT

In this Quarter July-September 2023 the Gender and Social specialist prepared Annual, and monthly reports for further submission activities which were carried out. Social and gender specialist also visited Balochistan office.

The following activities carried out were:

- Field visit of Quetta was conducted. Social and gender specialist conducted meeting with different stakeholders.
- Annual report of S&G (July 2022-June 2023) was prepared and shared.
- The Gender expert visited Punjab office and held meeting with staff.
- Meetings held in the Punjab Office with DTL Punjab & to review S&G activities gaps and issues which were discussed in detail.
- Gender team is working on Pictorial data collected from field visit of provinces (Punjab, AJK Balochistan, and ICT).

Recommendation:

- S&G Specialist will visit the Balochistan Office once a quarter.
- The quarterly work plan of the field team (Balochistan zone) 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.

Following meetings held with different stakeholders at Balochistan Zone.

Date	13-07-2023
Venue	Balochistan Office, Quetta
Participants	
1. Mr. Manzoor Ahmed Kasi, DTL, Balochistan. 2. Mr. Rizwan Ahmed, Technical Resource person. 3. 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 & DTL Balochistan	

Date	13-07-2023
Venue	OFWM Office, Quetta
Participants	
1. Mr. Ali Raza Jamali, DG OFWM Balochistan. 2. Manzoor Ahmed Kasi, DTL, Balochistan. 3. 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	
1. Mr. Noor Ahmed Deputy Director OFWM Quetta. 2. Mr. Qari Abdul Basit sub Engineer OFWM Quetta. 3. Manzoor Ahmed Kasi, DTL, Balochistan. 4. 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	

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:	
•	Introduction of Women Division Agriculture Extension
•	Income generation
•	Capacity building for rural women
 <p>Social & Gender specialist with Director Women Division Agriculture Extension</p>	



ME&IE Consultants' Meeting at National Office Islamabad

Date	18-09-2023
Venue	National Office Islamabad
Participants	
•	Dr. Usman Mustafa, TL, NPIWC-II
•	Dr. Ikram Saeed, DTL, ICT-Unit, National Office.
•	Mr. Rasheed Ahmed Zehri, FTI, ICT
•	Ms. Sana Gull, ME & IE Officer, ICT.
•	Ms. Hafiza Maryam Iqbal, ME & IE Officer, ICT
•	Ms. Abida Munir, ME&IE Officer, ICT-Unit
•	Salman Khan Technical supporter, ICT-Unit
Meeting Agenda/Points discussed:	
○	Discussion on field visit plan for five main purposes: i. Baseline-III ii. Regular Monitoring iii. Spot Checks, and iv. Potential Case Studies v. Field visit of Balochistan
○	Project Progress Review meetings and development of strategies to overcome the hindrances in the way of smooth running of the targeted project targets, etc.

4.9 ICT TEAM ASSIGNMENTS

The ICT Team was actively involved in various tasks associated with the ME&IE assignment including development of Android-based application, data collection for Dashboard and training of client staff on Dashboard / MIS for the project. Here's a summary of the activities carried out by the ICT Team during the reporting quarter from July 1, 2023, to September 30, 2023:

4.9.1 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.

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

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

KP - WC Data Summary						
Division	2019-20	2020-21	2021-22	2022-23	2023-24	Overall
Bajaur	3	19	39	18	0	79
Bannu	75	35	94	28	0	232
D.I Khan	448	12	106	0	0	566
Hazara	86	71	151	59	0	367
Khyber	6	13	7	1	0	27
Kohat	98	40	57	28	9	232
Kurram	3	5	2	0	0	10
Malakand	182	178	478	62	0	900
Mardan	105	64	88	15	0	272
Mohmand	4	39	18	30	0	91
N.W Agency	2	3	5	1	0	11
Orakzai	0	1	0	0	0	1
Peshawar	141	89	94	38	0	362
S.W Agency	3	12	15	7	0	37
Overall	1156	581	1154	287	9	3187

So far, Total **3187** Watercourses data have been received from KP zone and available live on GIS Dashboard. By which **2994** Watercourses have been lined, **7** Watercourses Work Order Cancelled and

Punjab - WSP Data Summary				
Division	2019-20	2020-21	2021-22	Overall
Bahawalpur	23	46	91	160
D.G Khan	27	30	25	82
Faisalabad	24	48	57	129
Gujranwala	0	4	2	6
Gujrat	2	10	29	41

remaining **138** watercourses are under progress on different stages like 1st Milestone, 2nd Milestone, and Work Order Issued. The remaining **48** 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	10	23	2	48
D.I Khan	81	6	35	0	122
Hazara	28	47	84	13	172
Khyber	1	9	12	0	22
Kohat	27	17	32	14	90
Kurram	1	1	0	0	2
Malakand	74	96	195	9	374
Mardan	16	9	26	4	55
Mohmand	1	40	69	0	110
Orakzai	0	2	0	0	2
Peshawar	36	25	65	15	141
S.W Agency	0	15	15	2	32
N.W Agency	0	8	8	1	17
Overall	279	295	573	61	1208

Overall Water Storage Tank data submissions are **1209** of which **1116** WST have been completed and **60** are under progress. While **32** Water Storage Tanks Work Order Pending. (Detailed Summary attached as **Annex-K**)

KP - PLL Data Summary					
Division	2019-20	2020-21	2021-22	22-23	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	32	661
Makran	204	56	49	0	309
Nasirabad	216	111	191	0	518
Quetta	244	50	87	0	381
Rakhshan	126	58	82	0	266
Sibi	184	59	88	0	331
Zhob	232	69	81	0	382
Overall	2147	694	1002	32	3875

Total **3875** Watercourses data has been received from Balochistan zone of which **3230** Watercourses has been lined, **247** Watercourses are pending at TS

Stage and remaining **398** watercourses are under progress. (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	9	231
Makran	50	57	168	0	275
Nasirabad	29	48	83	0	160
Quetta	53	87	111	0	251
Rakhshan	26	66	57	2	151
Sibi	35	34	61	8	138
Zhob	49	61	117	0	227
Overall	391	564	1150	19	2124

A total of **2124** Water Storage Tank data has been received from Balochistan zone of which **1635** Watercourses have been lined, **92** Water Storage Tank at TS Stage and the remaining **397** 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	2022-23	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	2022-23	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**).

mistakes to the concerned Zonal DDs/ADs for correction.

AJK - WC Data Summary						
Division	2019-20	2020-21	2021-22	2022-23	2023-24	Overall
MZD	32	94	76	31	0	233
Poonch	31	29	61	25	15	161
Mirpur	38	106	84	21	20	269
Overall	101	229	221	77	35	663

A total of **652** Watercourses data has been received from AJK zone of which **458** Watercourses have been lined, **56** Watercourses are pending at TS & Work Order Stage, **55** watercourses are under progress pending and **94** Watercourses Work Order have been cancelled. (Detailed Summary attached as **Annex-R**).

AJK - WST Data Summary						
Division	19-20	20-21	21-22	22-23	23-24	
MZD	35	61	82	10	0	188
Poonch	11	42	120	77	25	275
Mirpur	2	16	44	7	13	82
Overall	48	119	246	94	38	545

A total of **545** Water Storage Tank data has been received from AJK zone of which **322** Water Storage Tank have been lined, **80** Water Storage Tanks are pending at TS Stage, **28** Water Storage Tanks are under progress pending and **115** 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**).

4.9.3 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

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.

During our internal review of the dashboard, we identified several cases that were experiencing delays. The cases are distributed across various levels and stages, taking into account both the time elapsed and the geographic 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.

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

TENTATIVE WORK PLANNED FOR THE QUARTER (July 2023 To September 2023)												Legend					
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	WK-1	WK-2	WK-3	WK-4	Activity starts	Activity Ends	Activity Span	
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 3rd Phase BLS etc.)																
	1.3 Refresher 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 Baseline Survey stage - 3																
	2.4 Data collection of the interventions in the field																
	2.5 Online data entry in android based application																
3	ICT Assignment																
	3.1 Implementation of MIS Dashboard																
	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 On-Going Data Validation and cleaning																
	3.6 Improvement of website of NPIWC-II																
4	Coordination																
	4.1 Meetings of TL with NPC and OFWM Departments regarding Project Progress / Issues																
	4.2 Meeting of DTLs with respective DTL of PC & concerned OFWM Departments																
	4.3 ME&IE Consultants Internal Meetings																
5	Deliverable																
	5.1 Monthly Monitoring Report																
	5.2 Quarterly Monitoring & Evaluation Report (Jan-Mar 2023)																
	5.3 Annual Monitoring & Evaluation Report (3rd)																
	5.4 Consolidation of Baseline Survey Phase-I & II Reports																
	5.5 Consolidation of Midterm Monitoring & Impact Evaluation Report																

ANNEX - B: MATRIX OF RESPONSIBILITIES

MATRIX OF RESPONSIBILITIES

SR. NO.	DELIVERABLE / ACTIVITIES
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

LEGEND		
●	Primary Responsibility	
○	Secondary Responsibility	
○	Assistance	

NPC-FPMU	Agriculture Dept. (OPMM)	Project Consultants	ME&IE Consultants
O	●	-	-
O	○	●	-
-	-	-	●
-	-	-	●
-	-	-	●
-	-	-	●
-	-	-	●
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-	-	-	●
-	-	-	●
-	-	-	●

ANNEX - C: MONITORING LOG-FRAME

PROJECT SUBCOMPONENTS	TARGETS	ACTIVITIES	OUTPUTS	OUTCOME-1	OUTCOMES-2	GOALS / IMPACT	METHODOLOGY FOR MEASURING RESULTS	
C1: Organization of Water Users' Associations (WUAs)	Reactivation of existing / organization of water users' associations. Ensuring one on each target watercourse. Total WUAs ensured 47,278.	a) Community mobilization at 47,278 watercourses	a) Total 47,278 WUAs reactivated / established/registered	a) Right of way of 47,278 watercourses available b) Skilled and unskilled labour required for watercourse improvement available c) Construction material for civil works of watercourses procured d) Alternate arrangement for water conveyance during construction made e) Watercourse improved	a) Disputes among the water users settled b) Farmers' branched improved c) Water allocation made amicably d) Maintenance of watercourses, WST and laser units done e) Cooperation among farmers increased	a) 47,278 watercourses improved and 15 percentage points conveyance losses reduced b) Litigation among farmers reduced	a) The functioning of the WUAs will be established through sample interview surveys of WUAs members twice during the project period	b)
C2: Watercourses Improvements	Improvement of 47,278 watercourses on cost sharing basis: 40% farmers in terms of labour, and	a) Establishment of 47,278 Water users' associations (WUAs); b) Registration of 47,278 WUAs; c) Improvement	a) 47,278 WCAs established; b) 47,278 WCAs registered; c) 47,278 watercourses improved and lined;	a) Conveyance losses for improved watercourses decreased by about 15 percentage points.	a) Increase in cropping intensity on improved watercourses by 5-24%; b) Increase in crop yields.	a) Increase in farm income; b) Increase in employment for farm labour; c) Reduction in poverty;	a) The water flow measurements will be carried out at before and after watercourse improvement on 2-5%	e)

PROJECT SUBCOMPONENTS	TARGETS	ACTIVITIES	OUTPUTS	OUTCOME-1	OUTCOMES-2	GOALS / IMPACT	METHODOLOGY FOR MEASURING RESULTS	
	60% funded by project.	<p>and realignment of earthen section of 47,278 watercourses;</p> <p>d) Lining of up to 50% length of 47,278 watercourse either by:</p> <ul style="list-style-type: none"> • Precast concrete parabolic lining (PCPL) segments, or • Rectangular brick masonry, or any other method as approved by the project 		<p>b) 1.654 million households benefited from the activity;</p> <p>c) 11.347 million acres served with improved watercourses</p>	<p>c) Increase in irrigated area</p> <p>d) Increase in agriculture output per unit of water by about 37%</p>	<p>d) Enhanced food security for the country.</p>	<p>b) sample basis; Agriculture survey before and after watercourse improvement on 2-5% sample basis;</p> <p>c) The survey will determine:</p> <ul style="list-style-type: none"> • Cropping pattern before and after the improvement; • Cropping intensities before and after improvement; • Before and after crop yields; • Before and after employment ; <p>d) The difference between before and after will be considered the result of the</p>	

PROJECT SUBCOMPONENTS	TARGETS	ACTIVITIES	OUTPUTS	OUTCOME-1	OUTCOMES-2	GOALS / IMPACT	METHODOLOGY FOR MEASURING RESULTS	
							intervention after netting out the contribution of the growth pattern of the crop sector otherwise.	
C3: Construction of Water Storage Tanks (WSTs)	a) Construction of 14,932 water storage tanks	a) 14,932 small farmers mobilized to construct water storage tanks for irrigation b) They agree to contribute 40% of the cost c) Agree to first construct the tank with his/her own funds and then received subsidy at 40% on issuance of FCR	a) 14,932 WSTs constructed b) 14,932 WSTs operated and maintained	a) Water which was otherwise largely going to be wasted is saved b) Irrigation provided at critical stages of the crops c) Flexibility achieved for irrigation	a) More area irrigated b) Increased cropping intensities	a) Increased crop yields b) Increased total crop output quantum c) Increased farm income d) Increased farm employment	a) 2-5% sample of WSTs will be surveyed b) A data collection form will be designed to measure water saving due to WSTs c) The forms used for baseline and impact surveys in case of watercourses will also be used for WSTs d) Same data analysis will be carried out here as in case of watercourses.	e)
C4: Provision of Land Leveling Units	a) Provision of 11,610 laser land leveling units to	a) 11,610 laser units provided to farmers / service	a) 11,610 farmers / service providers received PLL units; b) Farmers / service	a) Land levelled on Farmers' / service providers'	a) Water application efficiency increased at	e) Increased area under irrigated crops;	a) The land levelling is expected to save irrigation	f)

PROJECT SUBCOMPONENTS	TARGETS	ACTIVITIES	OUTPUTS	OUTCOME-1	OUTCOMES-2	GOALS / IMPACT	METHODOLOGY FOR MEASURING RESULTS	
	<p>farmers and service providers on a cost sharing basis: 50% by farmer / service provider and 50% by the project.</p>	<p>providers; b) Farmers trained in using the units.</p>	<p>providers received training in using the units.</p>	<p>farms; b) Land levelled on fellow farmers on rent; c) Total 3.483million acres levelled by 11,610 units.</p>	<p>field level; b) Even germination of seed. c) Field application losses reduced by 10 percentage points d) Water productivity increased by 24%</p>	<p>f) Enhanced crop yields g) Increased farm income</p>	<p>water and result in better and even germination of seeds which can enhance crop yields. The crop yields thus affected will be reflected in agriculture sample surveys. b) 2-4% sample units will be visited by ME&IE Consultants teams after one years of delivery c) The unit will be verified d) Area treated during the year will be collected e) Farmers' feedback collected on quality of the unit, quality of the after-sale service, etc.</p>	

ANNEX - D: DELIVERABLES/REPORTING REQUIREMENTS

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

ANNEX-E: VISITING SCHEDULE OF IMPACT SURVEY VISITS DURING REPORTING QUARTER – WATERCOURSES

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	1503311002	AJK	Mirpur	Daramir Shah Sehnse	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	Ghorsi 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
03/08/2023	1	15021115008	AJK	Bagh	Tach Banipassri	Regular (New)	PCC	Non-Canal Command Area	Nallah
04/08/2023	1	15021215005	AJK	Bagh	Kalsota Nathgran	Regular (New)	PCC	Non-Canal Command Area	Spring
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
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	120332233001	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

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
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	
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 UI 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
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	

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
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	
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	

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
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	
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	
02/08/2023	3	11082132001	Punjab	Bahawalnagar	55980/L	Additional Lining	PCPL	Canal Command Area	
02/08/2023	1	11013132003	Punjab	Nankana Sahib	33400/TF	Additional Lining	PCPL	Canal Command Area	
02/08/2023	2	11083232003	Punjab	Rahim Yar Khan	92500/R	Additional Lining	PCPL	Canal Command Area	
03/08/2023	3	11082112006	Punjab	Bahawalnagar	13880/R	Regular (New)	PCPL	Canal Command Area	
03/08/2023	1	11013132005	Punjab	Nankana Sahib	24642/TL	Additional Lining	PCPL	Canal Command Area	
03/08/2023	2	11083232031	Punjab	Rahim Yar Khan	1560/L	Additional Lining	PCPL	Canal Command Area	
04/08/2023	3	11082532021	Punjab	Bahawalnagar	56830/L	Additional Lining	PCPL	Canal Command Area	
04/08/2023	2	11083232001	Punjab	Rahim Yar Khan	118915/TR	Additional Lining	PCPL	Canal Command Area	
04/08/2023	2	11083332031	Punjab	Rahim Yar Khan	20585/R	Additional Lining	PCPL	Canal Command Area	
05/08/2023	3	11082532002	Punjab	Bahawalnagar	173540/L	Additional Lining	PCPL	Canal Command Area	
05/08/2023	1	11012432002	Punjab	Kasur	45316/L	Additional Lining	PCPL	Canal Command Area	
05/08/2023	2	11083232002	Punjab	Rahim Yar Khan	95500/R	Additional Lining	PCPL	Canal Command Area	
05/08/2023	2	11083432003	Punjab	Rahim Yar Khan	58940/R	Additional Lining	PCPL	Canal Command Area	
06/08/2023	2	11083332035	Punjab	Rahim Yar Khan	93445/L	Additional Lining	PCPL	Canal Command Area	
06/08/2023	2	11083412005	Punjab	Rahim Yar Khan	9636/TR	Regular (New)	PCPL	Canal Command Area	
08/08/2023	3	11082132023	Punjab	Bahawalnagar	77560/L	Additional Lining	PCPL	Canal Command Area	
08/08/2023	3	11082612006	Punjab	Bahawalnagar	26066/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
08/08/2023	2	11083312006	Punjab	Rahim Yar Khan	17635/R	Regular (New)	PCPL	Canal Command Area	
08/08/2023	2	11083412002	Punjab	Rahim Yar Khan	33100/R	Regular (New)	PCPL	Canal Command Area	
09/08/2023	3	11082132017	Punjab	Bahawalnagar	17132/R	Additional Lining	PCPL	Canal Command Area	
09/08/2023	3	11082532053	Punjab	Bahawalnagar	57890/L	Additional Lining	PCPL	Canal Command Area	
09/08/2023	2	11083412013	Punjab	Rahim Yar Khan	20245/R	Regular (New)	PCPL	Canal Command Area	
10/08/2023	3	11082632004	Punjab	Bahawalnagar	22600/L	Additional Lining	PCPL	Canal Command Area	
10/08/2023	3	11082612007	Punjab	Bahawalnagar	10666/R	Regular (New)	PCPL	Canal Command Area	
10/08/2023	1	11013132006	Punjab	Nankana Sahib	24642/TF	Additional Lining	PCPL	Canal Command Area	

ANNEX-E: VISITING SCHEDULE OF IMPACT SURVEY VISITS DURING REPORTING QUARTER – WATER STORAGE TANKS

Impact Date	Team.#	WST ID	Zone	District	Farmer's Name
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
03/08/2023	1	25021227008	AJK	Bagh	Kernota
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
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
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 Sabtai: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

Impact Date	Team.#	WST ID	Zone	District	Farmer's Name
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
02/08/2023	3	21082213001	Punjab	Bahawalnagar	Abdul Waheed:M.Sharif
03/08/2023	3	21082513002	Punjab	Bahawalnagar	M.Rizwan Anjum:Ahsaan Ul Haq
03/08/2023	2	21083412001	Punjab	Rahim Yar Khan	Abdul Ghaffar Khan Abbasi:Aziz-Ur-Rehman
04/08/2023	3	21082513003	Punjab	Bahawalnagar	Saif Ullah.:Rahmar Ali
04/08/2023	1	21013212001	Punjab	Nankana Sahib	Azra Bibi:W/O Anwar Sajid
04/08/2023	2	21083412002	Punjab	Rahim Yar Khan	Abuzar:Abdul Kareem
05/08/2023	1	21013113001	Punjab	Nankana Sahib	Khalil-Ur-Rehman:Ali Ahmad
07/08/2023	2	21092312003	Punjab	Layyah	Muhammad Aslam:Ameer Ud Din
07/08/2023	1	21101412007	Punjab	Rawalpindi	Zameer Hussain:Abad Ali
07/08/2023	1	21101412004	Punjab	Rawalpindi	Raja Zulfiqar Ali:Raja G.Asghar
08/08/2023	1	21101612008	Punjab	Rawalpindi	Muhammad Shamroz:M. Ferooz
08/08/2023	1	21101614001	Punjab	Rawalpindi	Tariq Mehmood:Fazal Khan

ANNEX-F: PICTORIAL VIEW OF IMPACT SURVEY FIELD VISITS DURING REPORTING QUARTER









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

ANNEX-J: KP - WATERCOURSE DATA SUBMISSION – SUMMARY

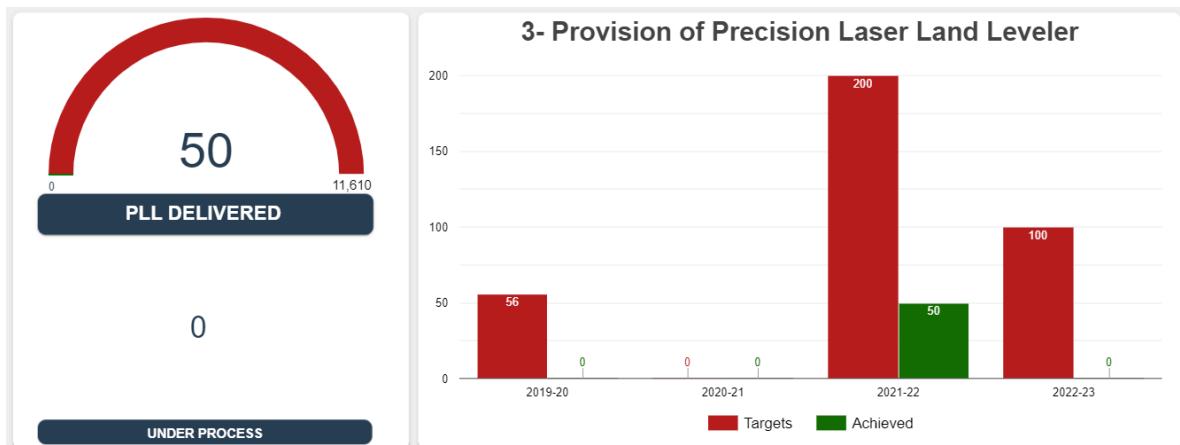
Division	District	Completed	Work Order Cancelled	Under Progress			Pending		Overall
				1st Milestone	2nd Milestone	Work Order Issued	TS Pending	Work Order Pending	
Bajaur Agency	Bajaur	60	0	0	0	13	6	0	79
Bajaur Agency Total		60	0	0	0	0	13	6	0
Bannu	Bannu	110	0	0	0	0	0	0	110
Bannu	Lakki Marwat	122	0	0	0	0	0	0	122
Bannu Total		232	0	0	0	0	0	0	232
D.I. Khan	D.I. Khan	507	0	3	0	0	0	0	510
D.I. Khan	Tank	56	0	0	0	0	0	0	56
D.I. Khan Total		563	0	3	0	0	0	0	566
Hazara	Abbottabad	29	0	0	0	0	0	0	29
Hazara	Battagram	49	0	0	0	0	0	0	49
Hazara	Haripur	73	0	0	0	0	0	0	73
Hazara	Lower Kohistan	7	0	0	0	13	1	0	21
Hazara	Mansehra	99	0	0	40	0	0	0	139
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		302	2	0	40	14	9	0	367
Khyber Agency	Khyber	20	0	0	0	5	2	0	27
Khyber Agency Total		20	0	0	0	0	5	2	0
Kohat	Hangu	49	0	0	0	0	9	0	58
Kohat	Karak	82	0	0	0	0	0	0	82
Kohat	Kohat	92	0	0	0	0	0	0	92
Kohat Total		223	0	0	0	0	9	0	232
Kurram Agency	Kurram	10	0	0	0	0	0	0	10
Kurram Agency Total		10	0	0	0	0	0	0	0
Malakand	Buner	106	0	0	0	0	0	0	106
Malakand	Chitral	94	0	0	0	0	0	0	94
Malakand	Lower Dir	100	0	0	3	26	4	1	134
Malakand	Malakand	106	0	0	0	1	1	0	108
Malakand	Shangla	54	0	2	1	1	1	1	60
Malakand	Swat	282	3	0	2	0	0	0	287
Malakand	Upper Dir	111	0	0	0	0	0	0	111
Malakand Total		853	3	2	6	28	6	2	900
Mardan	Mardan	137	0	0	0	4	0	0	141
Mardan	Swabi	130	0	0	1	0	0	0	131
Mardan Total		267	0	0	1	4	0	0	272
M. Agency	Upper Mohmand	64	0	2	0	0	0	0	66
M. Agency	Lower Mohmand	22	0	2	0	1	0	0	25
M. Agency Total		86	0	4	0	1	0	0	91
Orakzai Agency	Orakzai	1	0	0	0	0	0	0	1
Orakzai Agency Total		1	0	0	0	0	0	0	0
Peshawar	Charsadda	135	1	0	0	15	1	0	152
Peshawar	Nowshera	127	0	0	0	1	2	0	130
Peshawar	Peshawar	73	1	0	0	1	4	1	80
Peshawar Total		335	2	0	0	17	7	1	362
S.W Agency	S.W Agency	37	0	0	0	0	0	0	37
S.W Agency Total		36	0	0	0	0	0	0	0
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		2994	7	9	47	82	45	3	3187

ANNEX-K: KP - WST DATA SUBMISSION - SUMMARY

Division	District	Completed	Under Progress			Pending	Overall
			1st Milestone	2nd Milestone	Work Order Issued		
Bajaur Agency	Bajaur	17	0	0	1	3	21
Bajaur Agency Total		17	0	0	1	3	21
Bannu	Bannu	12	0	0	0	1	13
Bannu	Lakki Marwat	35	0	0	0	0	35
Bannu Total		47	0	0	0	1	48
D.I.Khan	D.I.Khan	83	1	1	5	0	90
D.I.Khan	Tank	32	0	0	0	0	32
D.I.Khan Total		115	1	1	5	0	122
Hazara	Abbottabad	18	0	0	0	0	18
Hazara	Battagram	26	0	0	4	0	30
Hazara	Haripur	40	0	0	0	0	40
Hazara	Kolai Pallas	2	0	0	2	0	4
Hazara	Lower Kohistan	0	0	0	0	1	1
Hazara	Mansehra	40	1	5	2	0	48
Hazara	Torghar	17	0	0	1	0	18
Hazara	Upper Kohistan	7	0	0	0	6	13
Hazara Total		150	1	5	9	7	172
Khyber Agency	Khyber	10	0	0	6	6	22
Khyber Agency Total		10	0	0	6	6	22
Kohat	Hangu	12	0	0	0	0	12
Kohat	Karak	73	0	0	0	0	73
Kohat	Kohat	5	0	0	0	0	5
Kohat Total		90	0	0	0	0	90
Kurram Agency	Kurram	2	0	0	0	0	2
Kurram Agency Total		2	0	0	0	0	2
Malakand	Buner	43	0	0	0	0	43
Malakand	Chitral	21	0	0	0	0	21
Malakand	Lower Dir	18	2	5	12	0	37
Malakand	Malakand	24	0	0	0	0	24
Malakand	Shangla	43	0	0	0	0	43
Malakand	Swat	163	0	0	0	1	164
Malakand	Upper Dir	39	1	1	0	1	42
Malakand Total		351	3	6	12	2	374
Mardan	Mardan	33	0	0	1	0	34
Mardan	Swabi	21	0	0	0	0	21
Mardan Total		54	0	0	1	0	55
M. Agency	Lower Mohmand	28	0	0	0	0	28
M. Agency	Mohmand Agency	33	0	0	0	0	33
M. Agency	Upper Mohmand	49	0	0	0	0	49
M. Agency Total		110	0	0	0	0	110
Orakzai Agency	Orakzai	2	0	0	0	0	2
Orakzai Agency Total		2	0	0	0	0	2
Peshawar	Charsadda	13	0	0	1	0	14
Peshawar	Nowshera	71	0	0	0	0	71
Peshawar	Peshawar	44	0	0	3	9	56
Peshawar Total		128	0	0	4	9	141
S.W Agency	S.W Agency	32	0	0	0	0	32
S.W Agency Total		32	0	0	0	0	32
N.W Agency	N.W Agency	8	0	0	5	4	17
N.W Agency Total		8	0	0	5	4	17
Overall		1116	5	12	43	32	1208

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

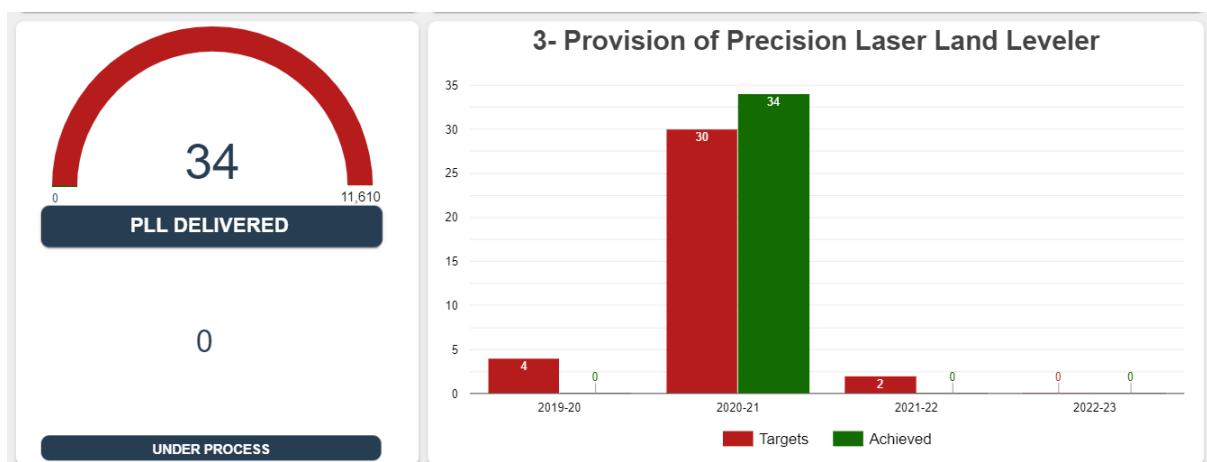
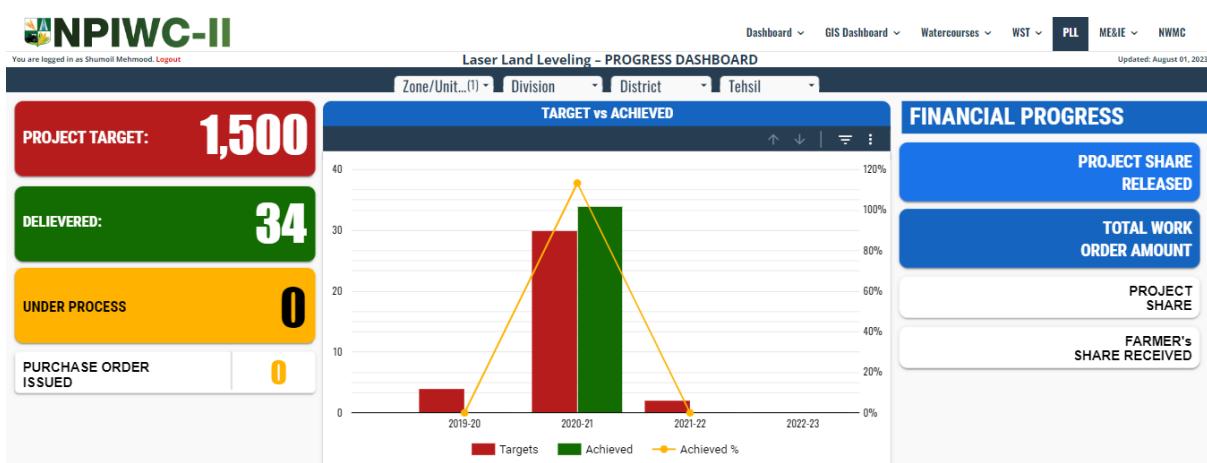
Division	District	Completed	Under Progress			Pending	Overall
			1st Milestone	2nd Milestone	TS Issued		
Kalat	Awaran	150	0	0	0	1	151
Kalat	Kalat	281	0	0	0	1	282
Kalat	Khuzdar	165	0	0	0	0	165
Kalat	Lasbela	154	0	0	35	0	189
Kalat	Mastung	190	0	0	6	2	198
Kalat	Surab	0	0	0	19	23	42
Kalat Total		940	0	0	60	27	1027
Loralai	Barkhan	64	0	0	0	0	64
Loralai	Duki	0	0	0	43	0	43
Loralai	Loralai	335	0	0	0	0	335
Loralai	Musakhail	187	0	0	0	32	219
Loralai Total		586	0	0	43	32	661
Makran	Gwadar	23	0	0	0	0	23
Makran	Kech	59	0	0	9	64	132
Makran	Panjgur	121	0	0	33	0	154
Makran Total		203	0	0	42	64	309
Nasirabad	Jaffarabad	141	0	0	0	0	141
Nasirabad	Jhal Magsi	27	0	0	0	0	27
Nasirabad	Kachi	3	0	0	98	1	102
Nasirabad	Nasirabad	52	0	0	89	28	169
Nasirabad	Sohbatpur	79	0	0	0	0	79
Nasirabad Total		302	0	0	187	29	518
Quetta	Killa Abdullah	110	0	0	0	0	110
Quetta	Pishin	186	0	0	0	1	187
Quetta	Quetta	83	0	0	1	0	84
Quetta Total		379	0	0	1	1	381
Rakhshan	Chaghi	77	0	0	0	0	77
Rakhshan	Kharan	26	0	0	2	40	68
Rakhshan	Nushki	3	0	0	61	37	101
Rakhshan	Washuk	18	0	0	0	2	20
Rakhshan Total		124	0	0	63	79	266
Sibi	Dera Bugti	99	0	0	0	0	99
Sibi	Harnai	42	0	0	0	0	42
Sibi	Kohlu	58	0	0	0	0	58
Sibi	Sibi	60	0	0	0	0	60
Sibi	Ziarat	71	0	0	1	0	72
Sibi Total		330	0	0	1	0	331
Zhob	Killa Saifullah	235	0	0	0	0	235
Zhob	Sherani	51	0	0	0	15	66
Zhob	Zhob	80	0	0	1	0	81
Zhob Total		366	0	0	1	15	382
Overall		3230	0	0	398	247	3875

ANNEX-N: BALOCHISTAN - WST DATA SUBMISSION - SUMMARY

Division	District	Completed	Under Progress			Pending	Overall
			1st Milestone	2nd Milestone	TS Issued		
Kalat	Awaran	84	0	0	1	2	87
Kalat	Kalat	177	0	0	2	0	179
Kalat	Khuzdar	139	0	0	0	0	139
Kalat	Lasbela	105	0	0	39	6	150
Kalat	Mastung	99	0	0	8	0	107
Kalat	Surab	0	0	0	29	0	29
Kalat Total		604	0	0	79	8	691
Loralai	Barkhan	54	0	0	0	0	54
Loralai	Duki	0	0	0	29	0	29
Loralai	Loralai	113	0	0	0	0	113
Loralai	Musakhel	26	0	0	0	9	35
Loralai Total		193	0	0	29	9	231
Makran	Gwadar	7	0	0	0	0	7
Makran	Kech	35	0	0	18	46	99
Makran	Panjgur	46	0	1	121	1	169
Makran Total		88	0	1	139	47	275
Nasirabad	Jaffarabad	17	0	0	0	0	17
Nasirabad	Jhal Magsi	30	0	0	0	0	30
Nasirabad	Kachi	36	0	0	46	0	82
Nasirabad	Nasirabad	0	0	0	17	0	17
Nasirabad	Sohbatpur	14	0	0	0	0	14
Nasirabad Total		97	0	0	63	0	160
Quetta	Killa Abdullah	55	0	0	0	1	56
Quetta	Pishin	107	0	0	10	2	119
Quetta	Quetta	75	0	1	0	0	76
Quetta Total		237	0	1	10	3	251
Rakhshan	Chaghi	33	0	0	0	14	47
Rakhshan	Kharan	15	0	0	13	2	30
Rakhshan	Nushki	0	0	0	53	9	62
Rakhshan	Washuk	4	0	0	8	0	12
Rakhshan Total		52	0	0	74	25	151
Sibi	Dera Bugti	38	0	0	1	0	39
Sibi	Harnai	21	0	0	0	0	21
Sibi	Kohlu	34	0	0	0	0	34
Sibi	Sibi	23	0	0	0	0	23
Sibi	Ziarat	21	0	0	0	0	21
Sibi Total		137	0	0	1	0	138
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		1635	0	2	395	92	2124

ANNEX-O: BALOCHISTAN - PLL DATA SUBMISSION - SUMMARY

Division	District	Delivered	Under Progress	Overall
Kalat	Lasbela	4	0	4
Makran	Panjur	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	9	12	0	121
	Jhelum	25	2	1	0	11	5	0	44
	Neelum	44	13	10	1	0	0	0	68
MZD Total		158	20	13	5	20	17	0	233
Poonch	Poonch	39	9	0	0	2	3	1	54
	Bagh	29	15	0	0	0	0	17	61
	Haveli	0	10	0	0	0	0	5	15
	Sudhnoti	8	16	0	0	1	0	6	31
Poonch Total		76	50	0	0	3	3	29	161
Mirpur	Mirpur	76	2	0	0	1	0	1	80
	Bhimber	110	0	0	0	9	0	0	119
	Kotli	38	22	0	0	4	1	5	70
Mirpur Total		224	24	0	0	14	1	6	269
Overall		458	94	13	5	37	21	35	663

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	
MJD	MJD	141	3	0	0	4	13	0	161
	Jhelum	17	0	0	0	7	3	0	27
MJD Total		158	3	0	0	11	16	0	188
Poonch	Poonch	54	19	0	1	0	22	0	96
	Bagh	44	38	0	0	1	16	0	99
	Haveli	0	16	3	0	0	19	0	38
	Sudhnoti	13	24	1	0	0	4	0	42
Poonch Total		111	97	4	1	1	61	0	275
Mirpur	Mirpur	11	3	0	0	3	0	0	17
	Bhimber	12	0	0	0	0	0	0	12
	Kotli	30	12	1	0	7	3	0	53
Mirpur Total		53	15	1	0	10	3	0	82
Overall		322	115	5	1	22	80	0	545

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