



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

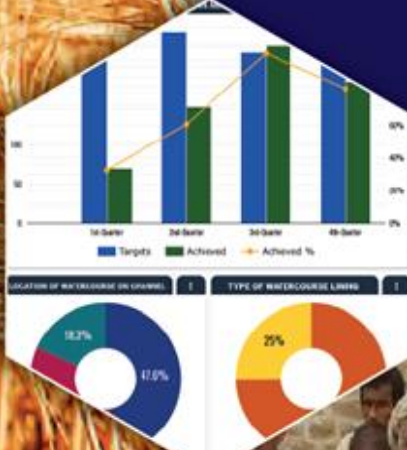
NATIONAL PROGRAM FOR IMPROVEMENT OF WATERCOURSES IN PAKISTAN PHASE-II: (NPIWC-II)

MONITORING, EVALUATION
AND IMPACT EVALUATION
CONSULTANTS



MONTHLY MONITORING REPORT

JUNE 2023



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



EASE-PAK



In Association with S&S Associates



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

Monitoring, Evaluation and Impact Evaluation (ME&IE) Consultants
For
National Program for Improvement of Watercourses in Pakistan Phase-II (NPIWC-II)

MONTHLY MONITORING REPORT

June 2023

CONTENTS

EXECUTIVE SUMMARY	1
CHAPTER-1: PROJECT INTRODUCTION	3
1.1 PROJECT PROFILE	3
1.2 PROJECT DESCRIPTION	3
1.2.1 Project Development Objectives	3
1.2.2 Project Objectives – General & Quantitative	3
1.2.3 Project Beneficiaries	4
1.2.4 Project Components	4
1.2.5 Project Targets	5
CHAPTER 2: SCOPE AND SERVICES OF ME&IE CONSULTANTS	7
2.1 OBJECTIVES OF CONSULTING SERVICES	7
2.2 Scope of Consulting Services	7
2.3 MONITORING STRATEGY OF CONSULTANTS	8
2.4 FRAMEWORK AND RESULTS-BASED MONITORING (RBM) INDICATORS	11
CHAPTER 3: CONSULTANTS' ACTIVITIES DURING THE REPORTING MONTH	12
3.1 SUBMISSION OF MONTHLY MONITORING REPORT (MMR)	12
3.2 BASELINE SURVEY I&II CONSOLIDATED REPORT	12
3.3 Validation of Baseline and Impact Survey	12
3.4 ACTIVITIES ICT UNIT –JUNE 2023	12
3.5 ACTIVITIES PUNJAB ZONE – June 2023	14
3.5.1 Consultants Activities during the Reporting Month	14
3.5.2 Pre-Field Activities	14
3.5.3 Field Activities	14
3.5.4 Coordination/ Meeting with Stakeholder/ Beneficiaries	14
3.5.5 Internal Meetings	14
3.6 ACTIVITIES KP ZONE – June 2023	16
3.6.1 Updated Progress – June 2023	16

3.6.2	Meetings:	16
3.6.3	Field surveys	16
3.6.4	Data Entry and GPS validation	16
3.6.5	Capacity Building of OFWM staff on Android Application	17
3.7	ACTIVITIES DONE BY BALOCHISTAN ZONE – JUNE 2023	18
3.7.1	Updated Progress Of ME&IE Consultants – Balochistan	18
3.7.2	Targets of F.Y. 2022-23, Balochistan Zone:	18
3.7.3	Watercourses:	18
3.7.4	PVC / RCC Pipes:	19
3.7.5	Water Storage Tanks:	19
3.7.6	Updated Status Of Dashboard Balochistan.	19
3.7.7	District-wise Progress of Dashboard, Balochistan (Water Storage Tanks)	21
3.8	SOCIAL & GENDER COMPONENT	24
3.8.1	Major Activities	24
3.8.2	Grievance Redressal Mechanism (GRM)	24
3.9	ICT TEAM ASSIGNMENTS	26
3.9.1	Development Of Customized Android Based Applications	26
3.9.2	Data Collection Of Interventions in MIS/GIS Database	26
3.9.3	Implementation Of MIS Dashboard	26
	CHAPTER 4: QUARTERLY WORK PLAN-ACTIVITIES (APRIL 2023 TO JUNE 2023)	29
4.1	Pre Field-Activities	29
4.2	Field Activities	29
4.3	ICT Assignment	29
4.4	Coordination	29
4.5	Deliverables	29
4.6	Matrix Of Responsibilities	30
	CHAPTER 5: ISSUES / BOTTLENECKS	31

LIST OF ANNEXURES

ANNEX A: TENTATIVE QUARTERLY WORK PLAN (APRIL TO JUNE 2023)	33
ANNEX B: MATRIX OF RESPONSIBILITIES	34
ANNEX C: MONITORING LOG-FRAME	35
ANNEX D: DELIVERABLES/REPORTING REQUIREMENTS	41
ANNEX E: IMPACT SURVEY FIELD SCHEDULE - ZONE/UNIT WISE	42
ANNEX F: PICTORIAL VIEW OF IMPACT SURVEY FIELD VISITS	51
ANNEX G: WATERCOURSES DATA SUBMISSIONS	55
ANNEX H: WST/WHs DATA SUBMISSIONS	56
ANNEX I: KP - WATERCOURSE DATA SUBMISSION – SUMMARY	57
ANNEX J: KP - WST DATA SUBMISSION – SUMMARY	58
ANNEX K: BALOCHISTAN - WATERCOURSE DATA SUBMISSION – SUMMARY	59
ANNEX L: BALOCHISTAN - WST DATA SUBMISSION – SUMMARY	60
ANNEX M: PUNJAB - WATERCOURSE DATA SUBMISSION – SUMMARY	61
ANNEX N: PUNJAB – WATER STORAGE POND DATA SUBMISSION – SUMMARY	62
ANNEX O: GB – WATERCOURSE DATA SUBMISSION – SUMMARY	63
ANNEX P: GB – WATER STORAGE POND DATA SUBMISSION – SUMMARY	64

ACRONYMS

ADA	Assistant Director Agriculture
AES	Agriculture Extension Services
AF	Acre-Feet
AJK	Azad Jammu & Kashmir
AOSM	Adjustable Orifice Semi-Module
AWPB	Annual Work Plan and Budget
AWPs	Annual Work Plans
BCR	Benefit Cost Ratio
CFT	Cubic Feet
CMS	Content Management System
CSRD	Center for Social Research and Development
DAES	Director Agriculture Extension Services
DDA	Deputy Director Agriculture
DGA	Director General Agriculture
DTL	Deputy Team Leader
EAs	Executing Agencies
EIRR	Economic Internal Rate of Return
FCR	Financial Completion Report
FCRs	Final Completion Reports
FMFSR	Framework for Federal Financial Management System
FOs	Farmers Organizations
FPMU	Federal Project Management Unit
FTI	Field Team In charge
FWMC	Federal Water Management Cell
GAP	Gender Action Plan
GB	Gilgit Baltistan
G3EC	G3 Engineering Consultants
GIS	Geographic Information System
HEIS	High Efficiency Irrigation System
IAs	Implementing Agencies
ICR	Interim Completion Report
ICT	Islamabad Capital Territory
IRR	Internal Rate of Return
ICT	Information & Communication Technology
JV	Joint Venture
KP	Khyber Pakhtunkhwa
LLL	Laser Land Leveler
LPS	Liter per Second
M&E	Monitoring and Evaluation
MAF	Million Acre Feet
ME&IE	Monitoring Evaluation and Impact Evaluation
MIS	Management Information System
MNFSR	Ministry of National Food Security and Research

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

EXECUTIVE SUMMARY

The “Monitoring Report for the month of June 2023” comprises five chapters:

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

The NPIWC-II comprises four components to be implemented in Punjab, KP, Baluchistan, GB, AJ&K, and ICT:

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

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

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

Chapter-3 explains the purpose of the Monthly Monitoring Report (MMR). This current MMR covers the period from 1st June 2023 to 30th June 2023.

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

- Submitted the MMR for the Month of May 2023.
- Validation of Baseline and Impact Survey
- Impact Survey field visits of WCs & WSTs
- Regular Monitoring of Interventions in the Field
- Monitoring online data collection and Data entry
- Monitoring Android based Mobile Application under implementation by field staff.
- Data collection of interventions in MIS/GIS database
- Preparation of Baseline survey Phase-I&II Consolidated Report
- Preparation for 3rd-Phase Baseline Survey
- Data entry, cleaning, validation
- Meetings of ME&IE Consultants with Stakeholders about Project Progress / Issues

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

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

The detailed time span for the 2nd quarter of year2023 is provided in the Tentative Work Plan **Annex-A**.

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

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

No.	Activities Planned for the Reporting Quarter		Status	
1	Pre-Field Activities			
	1.1	Validation of Baseline and Impact Survey	In Progress	
	1.2	Preparation for 3rd-Phase Baseline Survey (Finalization of MTs)	In Progress	
	1.3	Internal Meetings of ME&IE Consultants' Zonal Offices for development of Methodology for 3rd Phase Baseline Survey	In Progress	
	1.4	Training of Field Staff for Impact Survey and 3rd-Phase Baseline Survey	In Progress	
2	Field Activities:			
	2.1	Regular Monitoring of Interventions in the field	In Progress	
	2.2	Field Visits for Impact Survey	In Progress	
	2.3	Data collection of the interventions in the field	In Progress	
	2.4	Baseline Survey Stage III	Pending	
	2.5	Online data entry in android-based application	In Progress	
3	ICT Assignment:			
	3.1	Development / Improvement of website of NPIWC-II	In Progress	
	3.2	Monitoring online data collection and Data entry	In Progress	
	3.3	Monitoring Android based Mobile Application under implementation by field staff.	In Progress	
	3.4	Data collection of interventions in MIS/GIS database	In Progress	
	3.5	Capacity Building Trainings / Refresher of Departments	In Progress	
	3.6	Data Cleaning. Development & Launching of Dashboard for Client Offices	In Progress	
4	Coordination			
	4.1	Meetings of TL, ME&IE Consultants with NPC regarding Project Progress / Issues	Meetings conducted on regular basis	
	4.2	Meeting of DTLs with respective DTL of NWMC	Meetings conducted on regular basis	
	4.3	Internal Meetings of ME&IE Consultants	Weekly meetings conducted on regular basis	
5	Deliverables:			
	5.1	Monthly Monitoring Reports (MMRs)	28 th MMR (April 2023)	Submitted
			29 th MMR (May 2023)	Submitted
			30 th MMR (June 2023)	Report in hand
	5.2	Quarterly Monitoring & Evaluation Report (QM&ER)	QM&ER Jan-March 2023	Submitted
	5.3	Consolidation Report of Baseline Survey Phase-1&II	Under preparation	
	5.4	Consolidation Report of Midterm Impact Survey	Under preparation	

CHAPTER-1: PROJECT INTRODUCTION

1.1 PROJECT PROFILE

This section covers the following detail of the project:

Project Name:	National Program for Improvement of Watercourses in Pakistan Phase-II (NPIWC-II)
Project Areas:	Punjab, Khyber Pakhtunkhwa, Balochistan, Gilgit Baltistan, Azad Jammu & Kashmir, and Islamabad Capital Territory (ICT)
Sponsoring Agency	Ministry of National Food Security & Research
Executing Agencies (EAs):	Following are different EAs: Federal Project Management Unit (FPMU), i. DGA OFWM Punjab ii. DG OFWM KP iii. DGA OFWM Baluchistan iv. Director Irrigation and Small Dams, AJ&K v. Director WM, GB vi. Director Agriculture Extension Services (AES) ICT
Project Period:	5 Year (2019-2024)
Total Project Cost:	Rs. 154,542.355 million (Umbrella PC-1, including Sindh)
ME&IE Consultancy Period:	4 years
ME&IE Consultant:	JV of G3 Engineering Consultants (Pvt.) Ltd., EASE PAK Engineering services (Pvt.) Ltd., Centre for Social Research and Development (CSRD), ADA Consultants Inc. Canada, and S&S Associates.
ME&IE Consultant Mobilized:	November 07, 2020

1.2 PROJECT DESCRIPTION

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

1.2.1 Project Development Objectives

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

1.2.2 Project Objectives – General & Quantitative

Following is the project general and quantitative:

1) General Objectives:

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

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

2) Quantitative Objectives' Outputs and Impacts:

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

Project outputs

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

Project impacts

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

Project indirect benefits to industry/economic activities

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

Awareness support to farmers

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

1.2.3 Project Beneficiaries

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

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

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

1.2.4 Project Components

The NPIWC-II project comprises four components.

C1: ORGANIZATION OF WATER USERS ASSOCIATIONS:

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

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

C2: WATERCOURSE IMPROVEMENTS:

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

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

C3: CONSTRUCTION OF WATER STORAGE TANKS:

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

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

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

C4: PROVISION OF LASER LAND LEVELING UNITS:

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

1.2.5 Project Targets

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

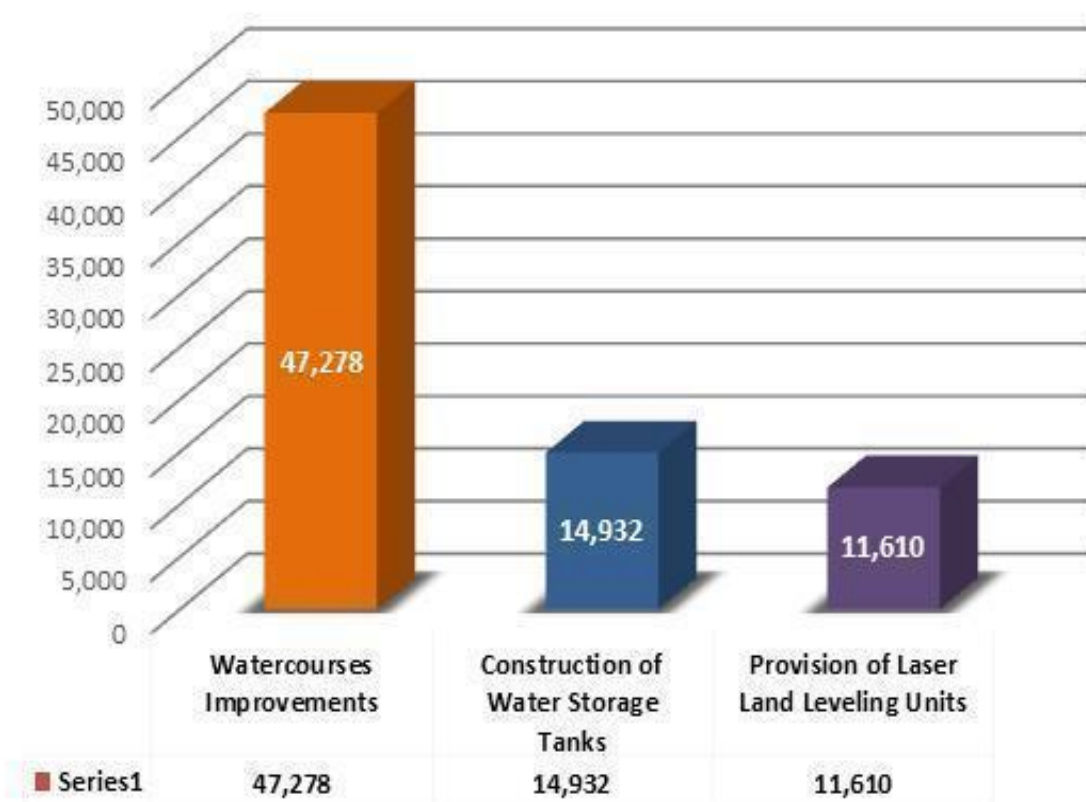


Figure 1.1: NPIWC-II Project WCs, WSTs, and LLL Targets in Pakistan

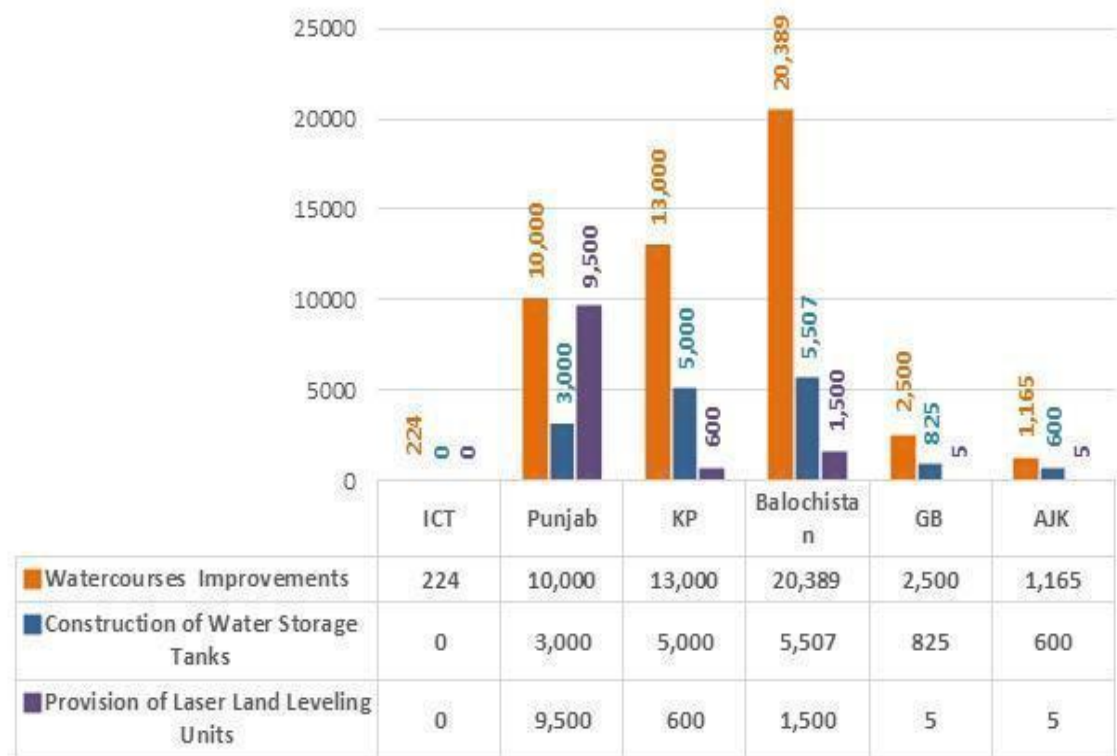


Figure 1 2: Zone-Wise WCs Improvement, WSTs, and LLL Target

CHAPTER 2: SCOPE AND SERVICES OF ME&IE CONSULTANTS

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

2.1 OBJECTIVES OF CONSULTING SERVICES

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

2.2 SCOPE OF CONSULTING SERVICES

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

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

- maintenance of watercourses, water storage tanks and laser land Levelers,
- viii. Economic impact of project interventions,
- ix. Carry out the impact evaluation of the project intervention on the economy and stakeholders,
- x. Develop a website containing information on facilities and services, applications, procedures, watercourses, water storage tanks and laser Levelers database, etc. (while the project's IT staff will maintain the website),
- xi. Provide technical support for the development of a custom-designed mobile application (Android Based) to capture on-site project progress and geo-tagged photos. It should be synchronized with the central MIS/GIS database and application for instant reporting and feedback to the management.

The said requirement is based on the following functional features:

- Development of a GIS database with all spatial layers related to activities being undertaken under the project
- Give technical assistance for up-dation/up-gradation of water management GIS database.
- Development of web-based GIS application as a dashboard interface for comprehensive representation of all spatial and tabular information: custom designed web GIS application be developed for large LED screens, should be self-operative and represent project data on multiple layouts of application interface.
- Development of a MIS application as an integral part of web GIS to maintain information on facilities and services, applications, procedures, watercourses database, etc.
- Development of a custom designed mobile application (Android) to capture on-site project progress, geo-tagged photos; should be synchronized with the central MIS/GIS database and application for instant reporting and feedback to the management.
- Application should generate custom designed reports and analysis as per user- defined requirements.
- Application should generate alerts (SMS, email, web-notifications) to the user on the non-conformance of project's key indicators; the application should have the provision to custom define alerts levels and desired notifications.

2.3 MONITORING STRATEGY OF CONSULTANTS

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

However, detailed methodology and procedures to carry out the ME&IE of the project interventions were explained in Chapter 6 of Inception Report.

Table 2: Monitoring Strategy for ME&IE Activities

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

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

Sr. No.	Monitoring Activity	ME&IE Team Responsible	Monitoring Strategy
5	Economic benefits assessment for agriculture	Team Leader, Socio- Economist and Agricultural Economist	<ul style="list-style-type: none"> As indicated at serial No. 1, Agriculture data will be collected before (baseline) and after (impact) the watercourse improvement and WSTs construction. In both the surveys same forms will be used and same sampled farmers will be interviewed Data on variables such as crop yields, irrigated area, cropping pattern, cropping intensity, farm income and employment will be collected and analyzed The difference between before and after situations minus natural growth will be assumed as economic benefits to the agriculture.
6	Impact evaluation-on the economy	Team Leader, Agricultural Economist and Socio-Economic Expert	<ul style="list-style-type: none"> The results of the baseline and impact surveys will be used to quantify impact on the economy Additional food produced due to the project will be estimated. It is benefitted towards food security Project costs and benefits will be compared in economic and financial terms to carry out economic and financial analysis. Parameters like IRR, NPV and BCR will be estimated.
7	Impact evaluation-on the stakeholders	Team Leader, Agricultural Economist and Socio-Economic Expert	Analysis as in serial 6 will be carried out with reference to various stakeholders, like community, government, farmers, etc.
8	Spot checking	Team Leader, Deputy Team Leaders & Field teams/Engineers	During the field visits for WUAs baselines impacts of Watercourses, WSTs and laser land leveling units, the interventions will be spot checked for quality of construction, material, functioning and beneficiaries' satisfaction, etc.
9	Process monitoring	Field Teams of Agriculture Deptt., Project Consultants, ME&IE Consultants & ICT/Technology Specialist	<ul style="list-style-type: none"> The processed data for all the interventions will be fed to the MIS/GIS database. Client's field staff and field teams of consultants will furnish data of their activities. The ME&IE will assist in developing mobile application for this purpose From this data reports will be generated for process monitoring All interventions will be fully (100%) covered.
10	Project website and MIS/GIS dashboard development	ICT / Technology Specialist (Including all other core team staff will also coordinate in completing data for the MIS/GIS	<ul style="list-style-type: none"> The State-of-the-art MIS / Progress Monitoring Model will be developed for NPIWC-II. Customized forms will be developed to collect data from the implementing teams on-site for progress monitoring These forms will be made available to the teams on smart phones through an android application The teams will be adequately trained to use the application Data on physical and financial stages with dates will be fed to the system for process monitoring

Sr. No.	Monitoring Activity	ME&IE Team Responsible	Monitoring Strategy
			<ul style="list-style-type: none"> • GIS coordinates for watercourses, WSTs, laser units (if available) and WUAs offices will be uploaded to the system and could be viewed / reached by the management online • The system will be maintained on GOOGLE server so that it is accessible by the management from anywhere in Pakistan and abroad • Custom reports will be possible as the user demands / desires • The results could be displayed on small as well as large screens.
11	Development of Android based application	ICT / Technology Specialist	All the data collection forms / tools will be executed through customized developed Android based applications accessible with smart phones / TABs.

2.4 FRAMEWORK AND RESULTS-BASED MONITORING (RBM) INDICATORS

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

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

CHAPTER 3: CONSULTANTS' ACTIVITIES DURING THE REPORTING MONTH

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

3.1 SUBMISSION OF MONTHLY MONITORING REPORT (MMR)

As per contractual obligation, the consultants have submitted twenty ninth MMR (May 2023). While the thirtieth MMR (the Report in hand) for the month of June 2023 (1st June 2023 to 30th June 2023) will be submitted in stipulated time i.e., in the 1st week of the current month.

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

3.2 BASELINE SURVEY I&II CONSOLIDATED REPORT

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

3.3 VALIDATION OF BASELINE AND IMPACT SURVEY

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

3.4 ACTIVITIES ICT UNIT –JUNE 2023

3.4.1 OVERALL PROGRESS:

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

- The ME&IE Consultants, Islamabad field team visited 14 Watercourses and 13 WSTs interventions during the reporting month to conduct midterm impact survey. The detailed visiting schedule is given as **Annex-E**, while the pictorial view of Impact survey field visits is given as **Annex-F**.
- The tentative Baseline-III survey plan could not meet due to non- provision of complete list of sampling frame. Thus, the survey plan will be rescheduled upon the availability of list from client.
- In order to address the corresponding deliverables on time, regular formal and informal meetings were held with the Coordinating/Client, collaborating, and also with the internal technical professionals, as well as the Administration and Finance departments of the Zonal and National Offices.
- The integrated MMR report for the month of May 2023 was compiled, edited, verified and delivered to the relevant stakeholders.
- Quarterly report for the months from April to June 2023 has prepared, finalized and ready to be submitted.
- Annual report (July 2022 - June 2023) has been compiled and finalized for further submissions.
- In addition to the technical responsibilities of the National Office, Islamabad, the Team Leader of the Project and the Deputy Team Leader of the ICT-Unit oversaw and took care of the administrative and financial liabilities manned under their respective jurisdiction.
- Work in progress on the write-up of on-going case study in the Barani tract of Northern Punjab.

The major activities conducted by Social & Gender team, working at ICT Unit, during the current month were:

- i. Draft outline prepared on “Grievance Redressal Mechanism” (GRM) in order to seek the feedback from the Provincial/Zonal ME&IE consultants, cooperating departments, client and WUAs in order to sharpen the document and ultimately feed its contribution towards the fulfilment of the project’s TORs in line with the G&S activities manned in the NPIWC-II project.
- ii. Social and Gender team is working on “GENDER ROLE IN CANAL WATER MANAGEMENT” and currently engaged in drafting report towards its finalization, and it will be shared soon after collation, analysis and reporting, accordingly.
- iii. Held regular meetings in respect of the progress review, planning and strategies launched pertaining to the targeted activities of the Project under the overall guidance and supervision of TL, DTL, and Social and Gender Expert, as well as, on need based.

3.5 ACTIVITIES PUNJAB ZONE – JUNE 2023

3.5.1 Consultants Activities during the Reporting Month

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

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

3.5.2 Pre-Field Activities

Deputy team leader had a number of meetings with the field team members and reviewed the various issues relating to the tasks to be completed prior to actual field operations. The key activities performed by the ME&IE consultants of Punjab Zone is as follows:

- i. Data validation of Baseline and Impact survey continued during this month.
- ii. Revised sample size of Improvement of Watercourse Intervention
- iii. Finalization of Impact survey field visits
- iv. Target completed so far (2022 – 23)
- v. Remaining number of interventions to be covered in the upcoming baseline survey – III.

3.5.3 Field Activities

During the reporting month the ME&IE Consultants, Punjab zonal field teams visited 48 Watercourses and 8 WSTs interventions during the reporting month to conduct midterm impact survey. The detailed visiting schedule is given as **Annex-E**, while the pictorial view of Impact survey field visits is given as **Annex-F**.

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

3.5.4 Coordination/ Meeting with Stakeholder/ Beneficiaries

The coordination meeting with stakeholder/beneficiaries of the project are necessary to discuss field operational activities. It is

a regular practice of ME&IE consultant's to coordinate with stakeholders and to hold such meetings with the beneficiaries. During the period under review the coordination was confined to telephonic conversation rather than physical meetings. Such efforts were necessary to strength the relationship between consultants and stakeholders particular the field staff of OFMW.

3.5.5 Internal Meetings

A comprehension and constructive meeting was held with Dr. Muhammad Abdul Quddus, Agri Economist, and Mr. Shafeeq Ur Rehman Project Document Controller to discuss, various issues related to submission of the Monthly Monitoring Reports (MMR) and other deliverables the focus was on timely submission of the report and it must be submitted well in time. In case of any delay, it should be conveyed to Agri Economist and other concerns.

Meeting Held with Agri. Economist (National Office) on report submission.

A comprehension and constructive meeting was held with Dr. Muhammad Abdul Quddus, Agri Economist, and Mr. Shafeeq Ur Rehman Project Document Controller to discuss, various issues related to submission of the Monthly Monitoring Reports (MMR) and other deliverables the focus was on timely submission of the report and it must be submitted well in time. In case of any delay, it should be conveyed to Agri Economist and other concerns.

Meeting with Social and Gender Specialist (National Office) on GRM

MS Munaza Tarar, Social and Gender Specialist National office, Islamabad visited Punjab zonal office on 2nd June 2023. She held two different meetings in Punjab zonal office.

- i. MS Munaza Tarar Social and Gender Specialist (National Office) held a meeting with DTL Punjab and Agri. Economist (National Office) and others on Grievance Redressal Mechanism (GRM).
- ii. She explained fully need for such mechanism under the umbrella of the National program for improvement of watercourse in Pakistan (NPIWC-II).



View of meeting of Munaza Bashir Tarar Social and Gender Specialist in Punjab zonal office

Meeting of Social and Gender Specialist on Monitoring Tools (MTs)

Social and Gender Specialist also held a meeting with field team members of zonal office Punjab. She briefed them about monitoring tools MTs. She explained meaning of words in the question ask and suggested tips to minimize the error during data collection. She further advised them to go through the MTs before leaving for the field.



Munaza Bashir Tarar Social and Gender Specialist and DTL Punjab, with Field Team member of Punjab zone

3.6 ACTIVITIES KP ZONE – JUNE 2023

3.6.1 Updated Progress – June 2023

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

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

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

3.6.2 Meetings:

Frequent meetings were held with OFWM Department relevant official when and where required to update ME&IE consultants' staff about the ongoing activities of the OFWM Department related to NPIWC-II project. These meetings were held both physically and telephonically for collection of relevant information of undergoing schemes. As per the ME&IE discussions with the OFWM Department official, it was found that schemes were mostly completed under NPIW-II program. New schemes for construction/improvement of water courses and water storage tanks will be initiated after the release of funds by the authorities.

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 month of June 2023 majority of the OFWM Department staff was busy in winding of different departmental activities but even then, they extend all possible help towards the ME/IE consultants. Close contacts through meetings/Telephone calls with different cadre officials of OFWM department were held regarding the ongoing activities under the NPIWC-II during the

current reporting month. The purpose of these meetings was to collect the GPS location-based data for dashboard completion and visits of teams to different destinations for baseline surveys. OFWM directorate extends their usual support and provided all the relevant information. The ME&IE Consultants, KP made frequent visits to the directorate of OFWM for acquainting their-selves about the on-going schemes under the NPIW-II by the concerned department. During these meetings general discussion were also made about the perceptions 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.

3.6.3 Field surveys

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

During the reporting month the ME&IE Consultants, KP Zonal field teams visited 90 Watercourses and 35 WSTs interventions during the reporting month to conduct midterm impact survey. The detailed visiting schedule is given as **Annex-E**, while the pictorial view of Impact survey field visits is given as **Annex-F**.

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

3.6.4 Data Entry and GPS validation

During the month of June 2023, KP Teams entered and validated the GPS locations for hundreds of schemes of Baluchistan and KP province. The activity was distributed among different team members with help of ICT team of KP. OFWM directorate extends their usual support and provided all the relevant information.

3.6.5 Capacity Building of OFWM staff on Android Application

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

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

3.7 ACTIVITIES DONE BY BALOCHISTAN ZONE – JUNE 2023

- Updated progress of ME&IE Consultants, Balochistan by June 2023.
- Impact Survey field visits of 2 No. WSTs
- Targets of F.Y. 2022-23
- Updated status of Data Validation – Dashboard Balochistan and
- Meetings
- Tentative Work Plan, Balochistan Zone.

3.7.1 Overall Progress Of ME&IE Consultants – Balochistan

The ME&IE Consultants, Balochistan, have monitored 17 sites during the pre-testing of Monitoring Tools in different months. A total of 13 sites were monitored during executive visits with high officials. The ME&IE Consultants, Balochistan have conducted two baseline surveys, the first was conducted in 2021 and the second was conducted in 2022. A total of 149 sites were monitored during the baseline surveys i.e., 61 Watercourses and 88 Water Storage Tanks. The ME&IEC, field teams monitored 07 sites of PLL out of 34 total sites; the percentage of monitored sites is 20%. During reporting month 2 number WST schemes have been visited for Impact Assessment Survey. The Impact Assessment Survey was conducted in the 2022-23 in which overall 149 sites have been monitored so far. Regular monitoring/spot-checking is another important activity of ME&IE Consultants in which 181 sites of different districts have been monitored until the reporting month. In regular monitoring, ME&IE Consultants monitored ongoing / completed sites covering all financial years i.e., 2019-20, 2020-21, and 2021-22. The Balochistan field teams have so far monitored 77 Watercourses and 101 Water Storage Tanks in regular monitoring. The Department's beneficiaries list of F.Y. 2022-23 is in progress. As soon as the Department initiates the works on F.Y. 2022-23 and finalizes the beneficiaries' lists, the ME&IEC, Balochistan will start the "Baseline Survey – 3" activities accordingly. The updated status of the total activities done is given in the below table:

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

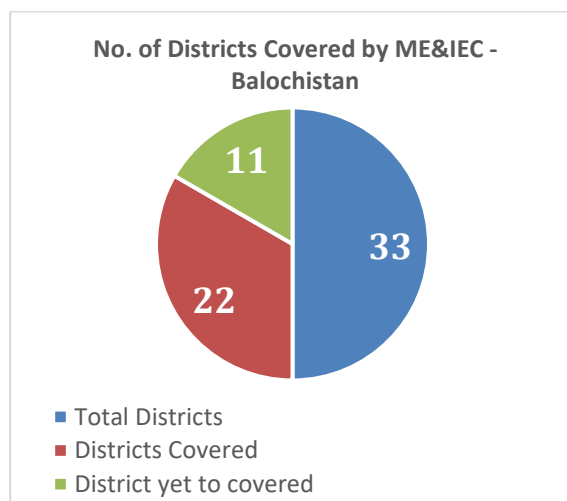


Figure 3. 1: No of Districts Covered by ME &IEC – Balochistan

3.7.2 Targets of F.Y. 2022-23, Balochistan Zone:

The DTL, Balochistan wrote another letter to the DG, OFWM, and Balochistan on 22nd June 2023, in continuation of his letter written on 31st March 2023, with a request to provide the beneficiary data of F.Y. 2022-23, so that Baseline-III can be initiated as per the plan. The ME&IE Consultants are also in contact with the DDs at the district level regarding this issue. In most of the districts, the works have been tendered and awarded, but due to some administrative issues, the physical works are being delayed. The ME&IE Consultants, Balochistan, also request all Deputy Directors to upload the finalized beneficiary data for the fiscal year 2022-23 on the Dashboard through the Android Data Application. This action is necessary to initiate the sampling for the 3rd Baseline-III.

As per the targets for the fiscal year 2022-23, a total of 99 watercourses, 820 PVC/RCC pipes, and 630 water storage tanks were distributed in 33 districts throughout Balochistan.

The detail of targets component-wise are list below:

3.7.3 Watercourses:

Sr. #	Districts	WC (Barani)	WC (Canal)	Total
1	Kalat	1	0	1
2	Mastung	0	0	0
3	Khuzdar	1	0	1
4	Pishin	2	0	2
5	Loralai	1	0	1
6	Killa Saifullah	1	0	1
7	Killa Abdullah	1	0	1

Sr. #	Districts	WC (Barani)	WC (Canal)	Total
8	Zhob	1	0	1
9	Lasbella	1	0	1
10	Kachi	0	0	0
11	Kech	8	0	8
12	Panjgur	1	0	1
13	Awaran	1	0	1
14	Chagai	0	0	0
15	Nushki	0	0	0
16	Musa Khail	1	0	1
17	Barkhan	1	0	1
18	Quetta	1	0	1
19	Kohlu	1	0	1
20	Jhal Magsi	1	2	3
21	Kharan	1	0	1
22	Washuk	1	0	1
23	Surab	1	0	1
24	Duki	1	0	1
25	Sheerani	1	0	1
26	Ziarat	1	0	1
27	Sibi	1	2	3
28	Harnai	1	0	1
29	Gawadar	1	0	1
30	Naseerabad	0	17	17
31	Jaffarabad	0	17	17
32	Sohbatpur	0	21	21
33	Dera Bugti	2	5	7
Total		35	64	99

3.7.4 PVC / RCC Pipes:

Sr. #	Districts	PVC 4" (300)	PVC 3" (300)	RCC Pipe (16)	Total
1	Kalat	10	5	0	15
2	Mastung	36	21	1	58
3	Khuzdar	36	21	0	57
4	Pishin	9	31	0	40
5	Loralai	29	27	0	56
6	Killa Saifullah	3	2	0	5
7	Killa Abdullah	10	10	0	20
8	Zhob	44	6	0	50
9	Lasbella	68	2	0	70
10	Kachi	60	20	0	80
11	Kech	0	0	0	0
12	Panjgur	17	6	0	23
13	Awaran	17	16	2	35
14	Chagai	7	1	1	9
15	Nushki	14	14	3	31
16	Musa Khail	10	10	0	20
17	Barkhan	14	13	0	27
18	Quetta	5	16	0	21
19	Kohlu	18	0	0	18
20	Jhal Magsi	14	0	0	14
21	Kharan	11	18	1	30
22	Washuk	6	6	0	12
23	Surab	4	4	0	8
24	Duki	6	13	0	19
25	Sheerani	7	3	0	10
26	Ziarat	11	11	0	22

Sr. #	Districts	PVC 4" (300)	PVC 3" (300)	RCC Pipe (16)	Total
27	Sibi	13	1	0	14
28	Harnai	13	14	0	27
29	Gawadar	9	9	0	18
30	Naseerabad	0	0	0	0
31	Jaffarabad	0	0	0	0
32	Sohbatpur	0	0	0	0
33	Dera Bugti	6	4	1	11
Total		507	304	9	820

3.7.5 Water Storage Tanks:

Sr. #	Districts	WST 60x60	WST 50x50	WST 40x40	WST 30x30	Total
1	Kalat	8	14	13	0	35
2	Mastung	4	4	6	0	14
3	Khuzdar	5	3	6	0	14
4	Pishin	6	8	8	0	22
5	Loralai	6	4	4	0	14
6	Killa Saifullah	10	15	20	0	45
7	Killa Abdullah	10	14	10	0	34
8	Zhob	11	0	0	4	15
9	Lasbella	6	0	0	0	6
10	Kachi	0	0	0	0	0
11	Kech	9	14	11	3	37
12	Panjgur	16	17	9	8	50
13	Awaran	10	5	5	4	24
14	Chagai	12	14	10	0	36
15	Nushki	6	8	4	2	20
16	Musa Khail	9	7	4	0	20
17	Barkhan	7	7	4	0	18
18	Quetta	6	6	4	4	20
19	Kohlu	8	9	4	1	22
20	Jhal Magsi	8	6	6	2	22
21	Kharan	6	4	5	2	17
22	Washuk	4	5	5	1	15
23	Surab	7	8	7	1	23
24	Duki	5	2	3	0	10
25	Sheerani	5	4	5	1	15
26	Ziarat	3	2	3	2	10
27	Sibi	4	2	4	3	13
28	Harnai	4	2	2	2	10
29	Gawadar	5	3	4	0	12
30	Naseerabad	2	2	0	0	4
31	Jaffarabad	2	2	0	0	4
32	Sohbatpur	2	2	0	0	4
33	Dera Bugti	10	7	7	1	25
Total		216	200	173	41	630

3.7.6 Updated Status Of Dashboard Balochistan.

The ME&IE Consultants, Balochistan, have observed with great concern that the data validation process is quite slow at the district level. In fact, no data has been validated in the last three months. Unfortunately, progress in this area has been significantly delayed due to the weak response from some districts.

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

Table 3: •District-wise Progress of Dashboard, Balochistan (Watercourses)

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

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

Table 4: •District-wise Progress of Dashboard, Balochistan (Water Storage Tanks)

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

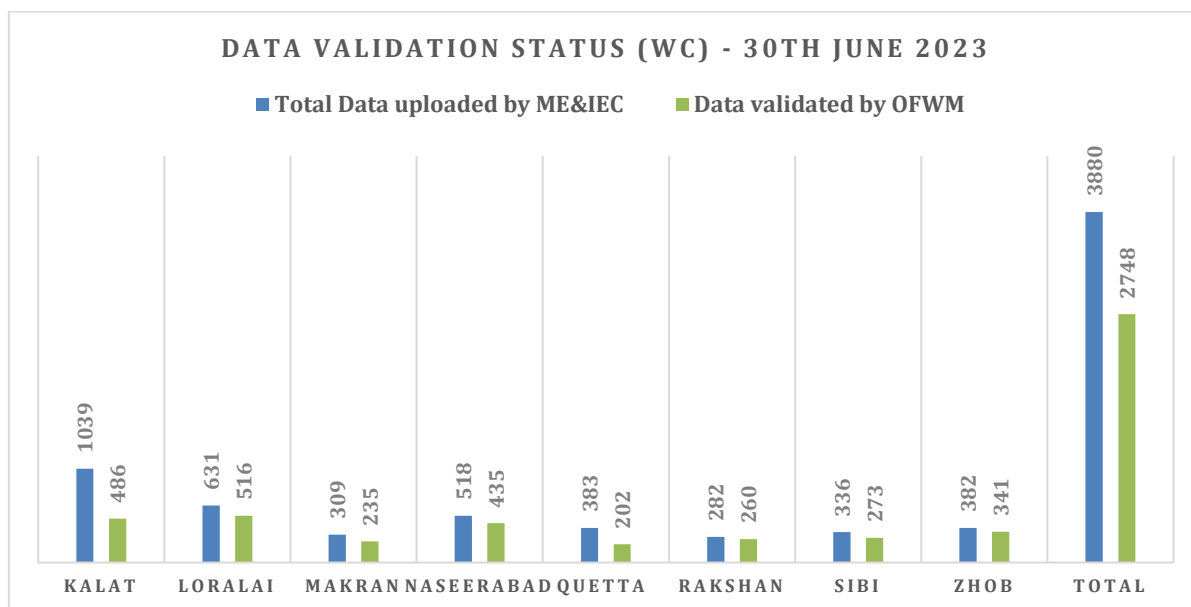


Figure 3. 2: Division-wise Graphical Progress of Dashboard, Balochistan (Watercourses)

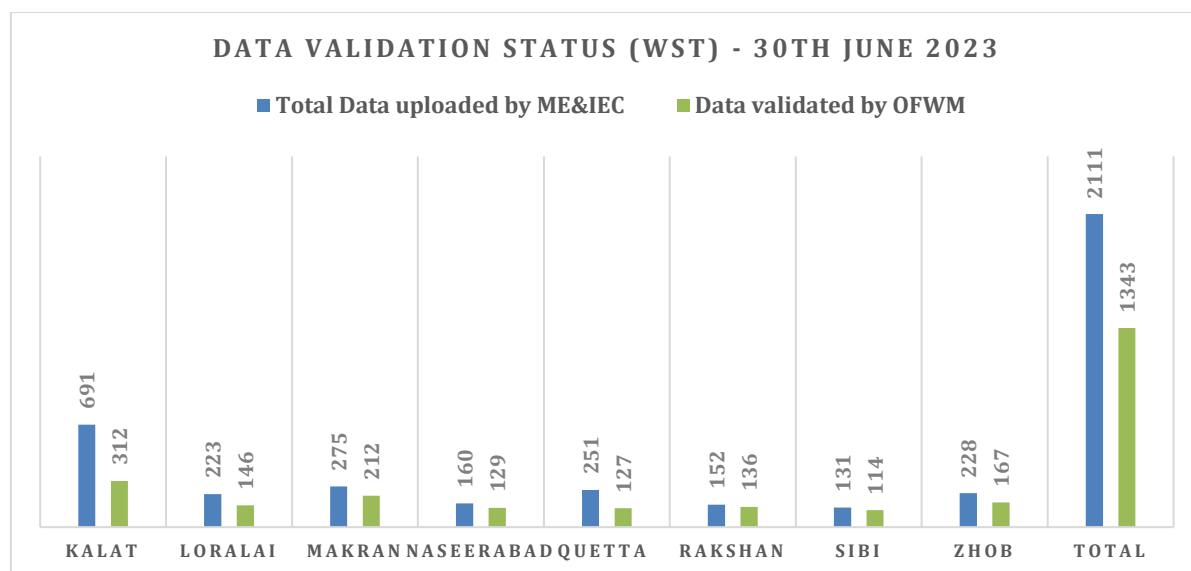


Figure 3. 3: Division-wise Graphical Progress of Dashboard, Balochistan (Water Storage Tank)

3.7.8 MEETINGS:

Date	07 June 2023
Venue	ME&IE Consultants Office, Arbab Karam Khan Road, Marri Street, Quetta
Participants	i. Hafiz Abdul Rauf, Member PBOM, ME&IEC ii. Mr. Rizwan Ahmed, DTL, ME&IEC, Balochistan, Quetta iii. Mr. Manzoor Kasi, Focal Person / FTI, ME&IEC, Balochistan iv. Mr. Shareef, FTI / M&E Expert, ME&IE Consultants, NPIWC-II, Balochistan

Meeting Agenda/Points discussed:

- The DTL, Balochistan shared the updated physical field progress with Member, PBOM, highlighting the completion of key milestones such as Baseline-II, Impact Surveys, and the Dashboard. The overall advancement of the projects in Balochistan was also emphasized.
- The DTL, Balochistan expressed concerns regarding the non-availability of field vehicles for FTIs, which hinders the timely execution of field activities and affects the efficiency of the projects.
- The DTL, Balochistan and the Focal Person brought to the attention of the Member, PBOM, the

non-availability of printers and photocopiers at the zonal office in Quetta, which is a major hurdle in terms of document management, communication, and the overall smooth functioning of the projects.

- The meeting concluded with the Member, PBOM, expressing gratitude to the DTL and Field Teams, Balochistan zone for their comprehensive briefing. The Member, PBOM committed to addressing the issues raised by the DTL from Balochistan.



Hafiz Abdul Rauf, Member PBOM Meetsigns with DTL

Date	20 th June 2023
Venue	ME&IE Consultants Office, Arbab Karam Khan Road, Marri Street, Quetta

Participants

- Mr. Rizwan Ahmed, Ex DTL, ME&IE Consultants, NPIWC-II, Balochistan, Quetta
- Mr. Manzoor Ahmed Kasi, DTL, ME&IE Consultants, NPIWC-II, Balochistan, Quetta
- All staff of ME&IE Consultants, Balochistan.

Meeting Agenda/Points discussed:

- A farewell tribute was given to the Ex DTL, Balochistan by the ME&IE Consultants Staff, Balochistan. The team members appreciated the Ex DTL, Balochistan for his dedication, leadership, and guidance throughout his tenure. They recognized his efforts in driving the team towards achieving project objectives and milestones. The Ex DTL was commended for his valuable contributions to the organization and his commitment to ensuring the successful implementation of projects.
- The forum also served as a platform to welcome the new DTL, Balochistan to the team. The Ex DTL assured the new DTL of his full support and cooperation at all times. He emphasized the importance of seamless knowledge transfer and shared key insights and experiences to facilitate the

new DTL's understanding of ongoing projects and team dynamics.

- The meeting concluded with the team members extending their congratulations to the Ex DTL on his role as Technical Resource Person, National Office, and NPIWC-II. They expressed their best wishes for continued success of NPIWC-II project in his new role and appreciated his dedication and contributions.



Farewell Party in honor of DTL, Balochistan.

3.8 SOCIAL & GENDER COMPONENT

3.8.1 Major Activities

During the month of June National and gender specialist visited Punjab office and had detailed discussion with Punjab DTL and Agricultural economist on Grievance Redressal mechanism, it will enable the farmers to resolve their issues at local level.

Meeting was also held with field team and discussed Gender and social MT in depth. The team members discussed their problems while filling up the MT as no female is a part of the team, it was suggested that next time they should share the program with gender expert so it can jointly be undertaken. Following points were discussed:

- i. Collective women participation through policies and reforms in water management would bring benefits to individuals, society, and the management of resources. Water is the life blood of agriculture sector where more than 50 % of women's live, so women's participation in water management can result in better natural resource management.
- ii. Women are already the primary water decision-makers at the household level and when women will influence water management, their communities would get evidently better outcomes including better-functioning of water systems, expanded access, and economic/Environmental benefits.
- iii. It is suggested that where women should be involved in the management of water resources, so their communities attain better monetary and environmental paybacks. As the world's population grows and climate change intensifies water scarcity, women are key to providing more sustainable access to these limited resources.
- iv. Gaps are identified in the social mobilization process while establishing water user associations, land less farmers and women are not involved in most of the processes, water user associations are not very active after the construction of water courses, way forward to make it sustainable it is suggested that all stake holders at community level should be involved. A woman are active participants in and managers of water use at household level, them.
- v. Participation of female farmers in the professional water sector continues to be minimal. Research should be under taken to address the challenges faced by women as they

work their way up to managerial and professional positions in the water sector.

- vi. Women's central role in the provision, management and safeguarding of water has to be recognized (United Nations 2005, 3).
- vii. Women continue to be marginalized as a result of decisions and policies on water which do not value or account for their input and therefore, do not seek to them.
- viii. It is suggested that gender understanding are useful in evaluating the implications of any planned action, be it new lawmaking, new strategies or programs, so that both men and women benefit equally.

3.8.2 Grievance Redressal Mechanism (GRM)

Introduction

The grievance Redressal mechanism (GRM) relates to National Program for Improvement of Watercourse (NPIWC – II). The main responsibilities of the project lies on the shoulders of the provincial On Farm Water Management (OFWM) Agriculture Department. The project covers the Province of Punjab, Balochistan, Khyber Pakhtunkhwa and administrative units of Gilgit Baltistan, AJK and Islamabad Capital territory. The GRM ensures the individuals beneficiary and stakeholder have a platform to voice their concerns seeking a Redressal and receiving appropriate solution within the scope of OFWM activities in the project.

Various interventions of the project are:

- i. Water User Associations (WUAs)
- ii. Improvement of Watercourses (WC)
- iii. Construction of Water Storage Tanks/Ponds
- iv. Provision of Laser land leveler

Establishment/ reactivation of a WUA is a prerequisite for the improvement of a watercourse intervention. Social issues/ complaints/ grievance/disputes are expected functioning of these interventions. Such disputes may fall at different stages of improvement of a watercourse and even after completion that is maintenance of an intervention.

Objective of GRM

The main objectives of GRM include;

- i. To provide a formal channel for beneficiaries/farmers and other stakeholders to raise complaints and grievance regarding various

- interventions during pre-implementation stage and particularly the maintenance of an intervention after its completion.
- ii. To facilitate fair and timely resolution of grievances complaints and ensuring access to justice to the individuals.
 - iii. To improve transparency, trust services and capacity building of beneficiaries in the project.
 - iv. To formulate a GRM with the structure of OFWM for strengthening the project mutual understanding between beneficiaries and OFWM.

Grievance Redressal Mechanism Processing

Grievances can be related to issues such as crop damage, subsidy delays and other related disputes, or any other relevant matter.

The DG, OFWM may designate any relevant officers as head for grievance Redressal process at a specific stage. It should involve filling out a specific form, writing a complaints letter, or using an online portal to resolve the grievance.

At any stage e.g. WUA (village level) Assistant director (OFWM) tehsil level, and the district/division where ever, the grievance Redressal requires justice. The grievances naturally differ with different intervention and will requires Redressal at different stage. Ultimately above all, the Director General (OFWM) should be final authority to resolve issues/grievance.

The nature of Grievance issues disputes will be different for different interventions/stages.

- i. Pre-Implementation stages, election/selection of members
- ii. During an Implementation of the intervention particularly improvement of watercourses for Punjab.
- iii. Post implementation of watercourse maintenance

The grievance complaints should be based on a Redressal Mechanism, reflecting the respective stage for such issues.

Water user associations are registered under -On Farm Water Management and Water User act 1981 (amended 2001). This is a community-based implementation approach. The WUAs are basically responsible for carrying out its responsibilities/performance of functions for the improvement of watercourse as given in the act. The OFWM department provides technical assistance to

the association during the improvement of watercourse. The water user associations (WUAs) are established. It is a community-based approach for the task. The disputes/ grievance are expected to Issue may arise emerge even at the time of election/ selection of the chairman / members of a WUA. The OFWM department has a vital role and the department is playing well in this regard. It needs to be finalized at WUA village level. The grievance may appear in performing any function like right of way. Labor utilization, procuring of material etc. Major disputes/grievance could be observed after improvement of a watercourse regarding its maintenance particularly maintenance of the unimproved / KACHA portion of the watercourse. Such part of the watercourse belongs to the tail ended beneficiaries, the maintenance this section is likely to be ignored as the members/beneficiaries of the improved portion lose their interest. There is a dire need to formulate certain Rules / regulations by OFWM in this. Aspect/GRM.

Capacity Building and Awareness

These are tentative findings based on field. Observation in the Punjab area the GRM may be designed in such a way that timely resolving the grievance/complaints of an individual, the solution must provide the stipulated time the GRM should have the findings base for capacity building and awareness/ regarding economical use of irrigation water educating.

3.9 ICT TEAM ASSIGNMENTS

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

3.9.1 Development Of Customized Android Based Applications

The ICT Technology Team of ME&IE Consultants NPIWC-II has developed Customized Android Based Applications for data collection. Data entry in this application is done directly by the field monitoring teams of all the zonal offices and is uploaded in the MIS system. The data is being observed and monitored by the ICT team of ME&IE Consultants.

In this regard, customized Android Based Applications have been developed, tested, and installed to Small Dams and Irrigation staff of AJK, Water Management Staff of ICT zone and OFWM staff KP zone.

3.9.2 Data Collection Of Interventions in MIS/GIS Database

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

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

3.9.3 Implementation Of MIS Dashboard

The Dashboard has been implemented in AJK, and the progress of Interventions is live on the Dashboard since the 4th of November 2021.

AJK Zone - Watercourses Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
MZD	32	96	74	16	218
Poonch	37	38	78	21	174
Mirpur	38	107	86	49	280
Overall	107	241	238	86	672

So far, Total 672 Watercourses data from AJK zone has been received and available live on Dashboard by which 411 Watercourse has been completed & 171 watercourses are under progress. Due to farmers' unwillingness 90 Work Orders have been cancelled till now. Detailed summary attached as **Annex-G**.

AJK Zone - Water Storage Tank Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
MZD	35	61	83	5	184
Poonch	13	48	142	99	302
Mirpur	2	16	44	21	83
Overall	50	125	269	125	569

569 Water Storage Tank data received from AJK zone and is available live on Dashboard by which 306 Water Storage Tank has been completed and 179 WSTs are under progress. Due to the unwillingness of farmers there 84 WST work orders have been cancelled till now. Detailed summary attached as **Annex-H**.

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

KP Zone - Watercourses Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
Bajaur Agency	3	19	40	18	80
Bannu	75	35	94	28	232
D.I Khan	431	14	105	0	550
Hazara	86	71	152	46	355
Khyber Agency	6	13	7	0	26
Kohat	98	41	57	9	205
Kurram Agency	3	5	3	0	11
Malakand	179	178	467	21	845
Mardan	105	67	96	7	275
M. Agency	4	26	13	0	43
N.W Agency	2	3	5	1	11
Orakzai Agency	0	1	0	0	1
Peshawar	141	90	95	10	336
S.W Agency	3	12	15	2	32
Overall	1136	575	1149	142	3002

KP zone currently 3002 total watercourses data live on Dashboard and by which 2579 schemes have been completed and 416 schemes are under progress. Due to the unwillingness of farmers 07 Schemes work order has been cancelled till to date. Detailed Summary attached as **Annex-I**.

KP Zone - 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	19	0	106
Hazara	28	47	85	7	167
Khy. Agency	1	9	12	0	22
Kohat	29	17	32	1	79
Kurram Agency	1	1	0	0	2
Malakand	74	94	177	3	348
Mardan	16	9	26	4	55
M. Agency	1	36	4	0	41
Orakzai Agency	0	2	0	0	2
Peshawar	36	25	65	6	132
S.W Agency	0	15	15	0	30
N.W Agency	0	8	8	1	17
Overall	281	289	475	25	1070

KP zone currently 1070 total WST data live on Dashboard and by which 892 schemes have been completed and 178 WSTs are under progress. Detailed Summary attached as **Annex-J**.

ICT Watercourses Data Summary			
Division	2020-21	2021-22	Overall
ICT	20	14	34
Overall	20	14	34

ICT zone so far 34 watercourse schemes have been initiated in this zone and all 34 have been completed till now.

Balochistan Zone – Watercourses Data Summary				
Division	2019-20	2020-21	2021-22	Overall
Kalat	546	132	211	889
Loralai	332	100	123	555
Makran	151	34	5	190
Nasirabad	193	106	174	473
Quetta	236	33	68	337
Rakhshan	124	57	54	235
Sibi	176	49	83	308
Zhob	195	64	73	332
Overall	1953	575	791	3319

Balochistan zone currently has 3319 total watercourses data live on Dashboard and by which 2045 schemes have been completed and remaining 1253 are under progress. Detailed Summary attached as **Annex-K**.

Balochistan Zone – WST Data Summary				
Division	2019-20	2020-21	2021-22	Overall
Kalat	91	145	274	510
Loralai	54	56	103	213
Makran	48	56	109	213
Nasirabad	25	46	76	147
Quetta	52	51	76	179
Rakhshan	26	66	57	149
Sibi	34	33	61	128
Zhob	35	61	114	210
Overall	365	514	870	1749

Balochistan zone currently has 1749 total Water Storage Tank data live on Dashboard and by which 899 Water Storage Tanks have been completed and remaining 845 WSTs are under progress. Detailed Summary attached as **Annex-L**.

Punjab Zone – Watercourses Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
Bahawalpur	182	189	317	17	705
D.G Khan	154	81	261	0	496
Faisalabad	91	59	199	38	387
Gujranwala	65	30	100	0	195
Gujrat	52	28	119	0	199
Lahore	77	47	122	9	255
Multan	172	83	307	0	562
Sahiwal	95	92	157	0	344
Sargodha	108	89	355	3	555
Overall	996	698	1937	67	3698

Punjab Zone currently has 3698 total Watercourses data live on Dashboard and all schemes are completed. There's also data missing in some districts and the ICT team is in close coordination with the Punjab OFWM Department to fill the missing data from concerned districts. Detailed Summary attached as **Annex-M**.

Punjab Zone – WST Data Summary				
Division	2019-20	2020-21	2021-22	Overall
Bahawalpur	23	46	91	160
D.G Khan	25	30	25	80
Faisalabad	24	48	57	129
Gujranwala	0	4	2	6
Gujrat	2	10	29	41
Khushab	2	7	19	28
Lahore	0	9	5	14
Multan	16	25	26	67
Rawalpindi	0	174	194	368
Sahiwal	9	15	15	39
Sargodha	4	25	28	57
Overall	105	393	491	989

Punjab Zone currently has 989 total Water Storage Pond data live on Dashboard and all schemes are completed. There's also data missing in some districts and the ICT team is in close coordination with the Punjab OFWM Department to fill the missing data from concerned districts. Detailed Summary attached as **Annex-N**.

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

GB Zone currently has 809 total Watercourse data live on Dashboard and all schemes are completed. Detailed Summary attached as **Annex-O**.

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

GB Zone currently has 328 total Water Storage Tank data live on Dashboard and all schemes are completed. Detailed Summary attached as **Annex-P**.

CHAPTER 4: QUARTERLY WORK PLAN- ACTIVITIES (APRIL 2023 TO JUNE 2023)

The ME&IE Consultants' activities initiating during the 2nd Quarter of the year 2023 (1st April 2023 to 30th June 2023) are listed below. A tentative Work Plan for the 2nd Quarter of the year 2023 (1st April 2023 to 30th June 2023) showing time span detail is given as **Annex-A**.

4.1 PRE FIELD-ACTIVITIES

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

4.2 FIELD ACTIVITIES

- Regular Monitoring of Interventions in the Field
- Field Visits for Impact Survey
- Data collection of the interventions in the field
- Baseline Survey stage - 3
- Online data entry in android based application.

4.3 ICT ASSIGNMENT

- Development / Improvement of website of NPIWC-II
- Monitoring online data collection and Data entry
- Monitoring Android based Mobile Application under implementation by field staff.
- Data collection of interventions in MIS/GIS database
- Capacity Building Trainings / Refresher of Departments
- Data Cleaning, Development & Launching of Dashboard for Client Offices

4.4 COORDINATION

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

4.5 DELIVERABLES

- Monthly Monitoring Report

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

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

Document	Status
Draft Inception Report	Submitted
Final Inception Report	Submitted
Monthly Monitoring Report-First (DEC 2020-JAN 2021)	Submitted
Monthly Monitoring Report-Second (FEB 2021)	Submitted
Monthly Monitoring Report-Third (MAR 2021)	Submitted
Quarterly Monitoring & Evaluation Report-First (JAN-MAR 2021)	Submitted
Monthly Monitoring Report-Fourth (APR 2021)	Submitted
Monthly Monitoring Report-Fifth (MAY 2021)	Submitted
Monthly Monitoring Report-Sixth (JUNE 2021)	Submitted
Quarterly Monitoring & Evaluation Report-Second (APR-JUN 2021)	Submitted
Monthly Monitoring Report-Seventh (JULY)	Submitted
Monthly Monitoring Report-Eighth (AUG 2021)	Submitted
Annual Monitoring & Evaluation Report (1 st)	Submitted
Baseline Survey Report-I	Submitted
Monthly Monitoring Report-Ninth (SEPTEMBER 2021)	Submitted
Quarterly Monitoring & Evaluation Report-Third (JULY - SEPTEMBER 2021)	Submitted
Monthly Monitoring Report-Tenth (OCTOBER 2021)	Submitted
Monthly Monitoring Report-Eleventh (NOVEMBER 2021)	Submitted
Monthly Monitoring Report-Twelfth (DECEMBER 2021)	Submitted
Quarterly Monitoring & Evaluation Report-Fourth	Submitted

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

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

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

4.6 MATRIX OF RESPONSIBILITIES

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

CHAPTER 5: ISSUES / BOTTLENECKS

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

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

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

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

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

It is also important to point out that we have transferred technology and provided android application to execution departments i.e., AJK, KP, Balochistan, and Punjab for the provision of project data/information etc. on aggregate server to be published on Dashboard.

ME&IE Consultants have already developed and presented project monitoring Dashboard to your good office. It is pertinent that execution Departments DGs i.e., Punjab, Balochistan, KP, and AJK have been provided Dashboard login credential's along with smart monitoring screen's (65"). We presumed that they are used to visit project - monitoring dashboard which show's progress of each & every executed and under intervention. PMIS data set also intimates about struck-up (If any). There are different level's/stages of these struck up's.

ANNEXES A to P

(APRIL TO JUNE 2023)

ANNEXURE A: TENTATIVE QUARTERLY WORK PLAN (APRIL TO JUNE 2023)

TENTATIVE WORK PLANNED FOR THE QUARTER (Apr 2023 To June 2023)												Legend	
												Activity starts	↓
												Activity Ends	↑
												Activity Span	---
No.	ACTIVITIES	3 Months-Year 2023 (Weeks)											
		April				May				June			
		WK-1	WK-2	WK-3	WK-4	WK-1	WK-2	WK-3	WK-4	WK-1	WK-2	WK-3	WK-4
1	Pre-Field Activities												
	1.1 Validation of Baseline and Impact Survey												
	1.2 Preparation for 3rd-Phase Baseline Survey (Finalization of MTs)												
	1.3 Internal Meetings of ME&IE Consultants' Zonal Offices for development of Methodology for 3rd Phase Baseline Survey												
	1.4 Training of Field Staff for Impact Survey and 3rd-Phase Baseline Survey												
2	Field Activities												
	2.1 Regular Monitoring of Interventions in the Field												
	2.2 Field Visits for Impact Survey												
	2.3 Data collection of the interventions in the field												
	2.4 Baseline Survey stage - 3												
	2.5 Online data entry in android based application												
3	ICT Assignment												
	3.1 Development / Improvement of website of NPIWC-II												
	3.2 Monitoring online data collection and Data entry												
	3.3 Monitoring Android based Mobile Application under implementation by field staff.												
	3.4 Data collection of interventions in MIS/GIS database												
	3.5 Capacity Building Trainings / Refresher of Departments												
	3.6 Data Cleaning, Development & Launching of Dashboard for Client Offices												
4	Coordination												
	4.1 Meetings of TL with NPC and OFWM Departments regarding Project Progress / Issues												
	4.2 Meeting of DTLs with respective DTL of PC & concerned OFWM Departments												
	4.3 ME&IE Consultants Internal Meetings												
5	Deliverable												
	5.1 Monthly Monitoring Report												
	5.2 Quarterly Monitoring Report (Jan-Mar 2023)												
	5.3 Consolidation of Baseline Survey Phase-I & II Reports												
	5.4 Consolidation of Mid-Line Monitoring & Impact Evaluation Report												

ANNEXURE-B: MATRIX OF RESPONSIBILITIES

MATRIX OF RESPONSIBILITIES

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

ANNEXURE-C: MONITORING LOG-FRAME

Project Subcomponents	Targets	Activities	Outputs	Outcome-1	Outcomes-2	Goals / Impact	Methodology for measuring results
C1: Organization of Water Users' Associations (WUAs)	Reactivation of existing / organization of water users' associations. Ensuring one on each target watercourse. Total WUAs ensured 47,278.	i. Community mobilization at 47,278 watercourses	i. Total 47,278 WUAs reactivated / established/registered	i. Right of way of 47,278 watercourses available ii. Skilled and unskilled labor required for watercourse improvement available iii. Construction material for civil works of watercourses procured iv. Alternate arrangement for water conveyance during construction made v. Watercourse improved	i. Disputes among the water users settled ii. Farmers branched improved iii. Water allocation made amicably iv. Maintenance of watercourses , WST and laser units done v. Cooperation among farmers increased	i. 47,278 watercourses improved and 15 percentage points conveyance losses reduced ii. Litigation among farmers reduced	i. The functioning of the WUAs will be established through sample interview surveys of WUAs members twice during the project period

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

Project Subcomponents	Targets	Activities	Outputs	Outcome-1	Outcomes-2	Goals / Impact	Methodology for measuring results
		or any other method as approved by the project					<p>before and after improvement;</p> <ul style="list-style-type: none"> • Before and after crop yields; • Before and after employment; <p>vi. The difference between before and after will be considered the result of the intervention after netting out the contribution of the growth pattern of the crop sector otherwise.</p>
C3: Construction of Water Storage Tanks (WSTs)	i. Construction of 14,932	i. 14,932 small farmers mobilized to	i. 14,932 WSTs constructed	i. Water which was otherwise	i. More area irrigated	i. Increased crop yields	i. 2-5% sample of WSTs will be surveyed

Project Subcomponents	Targets	Activities	Outputs	Outcome-1	Outcomes-2	Goals / Impact	Methodology for measuring results
	water storage tanks	construct water storage tanks for irrigation ii. They agree to contribute 40% of the cost iii. Agree to first construct the tank with his/her own funds and then received subsidy at 40% on issuance of FCR	ii. 14,932 WSTs operated and maintained	largely going to be wasted is saved i. Irrigation provided at critical stages of the crops ii. Flexibility achieved for irrigation	ii. Increased cropping intensities	ii. Increased total crop output quantum iii. Increased farm income iv. Increased farm employment	ii. A data collection form will be designed to measure water saving due to WSTs iii. The forms used for baseline and impact surveys in case of watercourses will also be used for WSTs iv. Same data analysis will be carried out here as in case of watercourses.
C4: Provision of Land Leveling Units	i. Provision of 11,610 laser land leveling units to farmers and service	i. 11,610 laser units provided to farmers / service providers;	i. 11,610 farmers / service providers received PLL units; ii. Farmers / service providers received	i. Land leveled on Farmers' / service providers' farms;	i. Water application efficiency increased at field level;	i. Increased area under irrigated crops; ii. Enhanced crop yields	i. The land levelling is expected to save irrigation water and result in

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

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

ANNEXURE-D: DELIVERABLES/REPORTING REQUIREMENTS

Deliverables/Reporting Requirements

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

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

WATER COURSES IMPACT SURVEY FIELD SCHEDULE - ZONE/UNIT WISE

Impact Survey Date	Team.#	WC ID	Zone	District	Watercourse Scheme Name	Category of WC Improvement	Type of Lining	Type of Irrigation Source	Non Canal Source
06/06/2023	2	11061132004	Punjab	Gujrat	9136/L	Additional Lining	PCPL	Canal Command Area	
06/06/2023	3	11073132001	Punjab	Lodhran	33855/R	Additional Lining	PCPL	Canal Command Area	
06/06/2023	1	11032332012	Punjab	Okara	16125/R	Additional Lining	PCPL	Canal Command Area	
07/06/2023	2	11061112002	Punjab	Gujrat	30000/L	Regular (New)	PCPL	Canal Command Area	
07/06/2023	3	11073132002	Punjab	Lodhran	15750/L	Additional Lining	PCPL	Canal Command Area	
07/06/2023	1	11032212001	Punjab	Okara	48010/TL	Regular (New)	PCPL	Canal Command Area	
08/06/2023	2	11061112001	Punjab	Gujrat	7132/R	Regular (New)	PCPL	Canal Command Area	
08/06/2023	3	11073132024	Punjab	Lodhran	63534/L	Additional Lining	PCPL	Canal Command Area	
08/06/2023	1	11032332008	Punjab	Okara	12535/TR	Additional Lining	PCPL	Canal Command Area	
09/06/2023	2	11061132003	Punjab	Gujrat	12884/R	Additional Lining	PCPL	Canal Command Area	
09/06/2023	3	11073332002	Punjab	Lodhran	27405/L	Additional Lining	PCPL	Canal Command Area	
09/06/2023	1	11032232007	Punjab	Okara	81400/R	Additional Lining	PCPL	Canal Command Area	
10/06/2023	2	11061132002	Punjab	Gujrat	46895/L	Additional Lining	PCPL	Canal Command Area	
10/06/2023	3	11073312002	Punjab	Lodhran	18100/L	Regular (New)	PCPL	Canal Command Area	
10/06/2023	1	11032332009	Punjab	Okara	7550/L	Additional Lining	PCPL	Canal Command Area	
12/06/2023	2	11061132005	Punjab	Gujrat	30000/L	Additional Lining	PCPL	Canal Command Area	
12/06/2023	3	11073332004	Punjab	Lodhran	126231/R	Additional Lining	PCPL	Canal Command Area	
12/06/2023	1	11032232040	Punjab	Okara	23980/R	Additional Lining	PCPL	Canal Command Area	
13/06/2023	3	11073332005	Punjab	Lodhran	49000/R	Additional Lining	PCPL	Canal Command Area	
13/06/2023	1	11032212004	Punjab	Okara	14100/R	Regular (New)	PCPL	Canal Command Area	
13/06/2023	2	11053332003	Punjab	Sialkot	29800/L	Additional Lining	PCPL	Canal Command Area	
14/06/2023	3	11073332006	Punjab	Lodhran	6900/R	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
14/06/2023	1	11032232006	Punjab	Okara	4050/L	Additional Lining	PCPL	Canal Command Area	
14/06/2023	2	11053232001	Punjab	Sialkot	2000/R	Additional Lining	PCPL	Canal Command Area	
15/06/2023	1	11032132001	Punjab	Okara	87000/TL	Additional Lining	PCPL	Canal Command Area	
15/06/2023	2	11053332002	Punjab	Sialkot	131000/R	Additional Lining	PCPL	Canal Command Area	
16/06/2023	3	11073332003	Punjab	Lodhran	2925/R	Additional Lining	PCPL	Canal Command Area	
16/06/2023	3	11073312006	Punjab	Lodhran	12702/L	Regular (New)	PCPL	Canal Command Area	
16/06/2023	1	11032232004	Punjab	Okara	22627/R	Additional Lining	PCPL	Canal Command Area	
16/06/2023	2	11053232002	Punjab	Sialkot	1980/L	Additional Lining	PCPL	Canal Command Area	
17/06/2023	3	11073312005	Punjab	Lodhran	52200/TF	Regular (New)	PCPL	Canal Command Area	
17/06/2023	1	11032212002	Punjab	Okara	90600/TR	Regular (New)	PCPL	Canal Command Area	
17/06/2023	2	11053232003	Punjab	Sialkot	24200/TL	Additional Lining	PCPL	Canal Command Area	
19/06/2023	1	11011232007	Punjab	Lahore	13600/L	Additional Lining	PCPL	Canal Command Area	
19/06/2023	3	11073312001	Punjab	Lodhran	43818/L	Regular (New)	PCPL	Canal Command Area	
20/06/2023	3	11073332001	Punjab	Lodhran	70978/TL	Additional Lining	PCPL	Canal Command Area	
20/06/2023	3	11073312015	Punjab	Lodhran	61450/TL	Regular (New)	PCPL	Canal Command Area	
21/06/2023	3	11081132021	Punjab	Bahawalpur	4320/L	Additional Lining	PCPL	Canal Command Area	
21/06/2023	3	11073312004	Punjab	Lodhran	102970/R	Regular (New)	PCPL	Canal Command Area	
22/06/2023	3	11094132030	Punjab	Rajanpur	4000/L	Additional Lining	PCPL	Canal Command Area	
22/06/2023	1	11031232066	Punjab	Sahiwal	30470/R	Additional Lining	PCPL	Canal Command Area	
22/06/2023	1	11031232032	Punjab	Sahiwal	97580/L	Additional Lining	PCPL	Canal Command Area	
23/06/2023	1	11074132008	Punjab	Vehari	71750/L	Additional Lining	PCPL	Canal Command Area	
23/06/2023	1	11074212002	Punjab	Vehari	289500/R	Regular (New)	PCPL	Canal Command Area	
24/06/2023	1	11074232005	Punjab	Vehari	2000/R	Additional Lining	PCPL	Canal Command Area	
24/06/2023	1	11074232003	Punjab	Vehari	10780/R	Additional Lining	PCPL	Canal Command Area	
26/06/2023	1	11074132009	Punjab	Vehari	13020/R	Additional Lining	PCPL	Canal Command Area	
26/06/2023	1	11074432010	Punjab	Vehari	25178/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
05/06/2023	2	12021412063	KP	Dera Ismail Khan	2900-R	Regular (New)	PCPL	Canal Command Area	
05/06/2023	2	12021412082	KP	Dera Ismail Khan	Allah Dad Tw	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
06/06/2023	2	12021412085	KP	Dera Ismail Khan	Malik Khurshid Tw	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
06/06/2023	2	12021412086	KP	Dera Ismail Khan	Malik Habibullah Tw	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
06/06/2023	1	12051116001	KP	Malakand	Asmatullah	Regular (New)	HDPE	Non-Canal Command Area	Lift Pump
06/06/2023	1	12051212006	KP	Malakand	32650-L	Regular (New)	PCPL	Canal Command Area	
06/06/2023	1	12051212012	KP	Malakand	10181-L	Regular (New)	PCPL	Canal Command Area	
07/06/2023	2	12021412087	KP	Dera Ismail Khan	Ghulam Sadiq	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
07/06/2023	2	12021412089	KP	Dera Ismail Khan	Muhammad Akram Tw Wc	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
07/06/2023	1	12056216021	KP	Swat	Akbar shah	Regular (New)	HDPE	Non-Canal Command Area	Tube Well
08/06/2023	2	12021412090	KP	Dera Ismail Khan	Ghulam Rabani	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
08/06/2023	2	12021412091	KP	Dera Ismail Khan	Nazeer Aehmad	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
08/06/2023	2	12021412093	KP	Dera Ismail Khan	Muhammad Sher Tw Wc	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
08/06/2023	1	12056416024	KP	Swat	Asad Ali	Regular (New)	HDPE	Non-Canal Command Area	WST
09/06/2023	1	12056416019	KP	Swat	Muhammad ishaq	Regular (New)	HDPE	Non-Canal Command Area	Spring
09/06/2023	1	12056416026	KP	Swat	Qadar Gul	Regular (New)	HDPE	Non-Canal Command Area	Tube Well
12/06/2023	3	12031116013	KP	Abbottabad	Abid Gul	Regular (New)	HDPE	Non-Canal Command Area	Tube Well
12/06/2023	2	12021312012	KP	Dera Ismail Khan	Akhtar Ullah	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
12/06/2023	2	12021312013	KP	Dera Ismail Khan	Muhammad Ayaz	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
12/06/2023	2	12021312014	KP	Dera Ismail Khan	Muhammad Haris	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
12/06/2023	1	12056516030	KP	Swat	Sadam Hussain	Regular (New)	HDPE	Non-Canal Command Area	Tube Well
12/06/2023	1	12056516060	KP	Swat	Abdullah	Regular (New)	HDPE	Non-Canal Command Area	Tube Well
12/06/2023	1	12056516071	KP	Swat	Bahader zeb	Regular (New)	HDPE	Non-Canal Command Area	Tube Well
13/06/2023	2	12021512026	KP	Dera Ismail Khan	3143-R	Regular (New)	PCPL	Canal Command Area	
13/06/2023	2	12021512110	KP	Dera Ismail Khan	Sardar Malik Liaquat	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
13/06/2023	2	12021512112	KP	Dera Ismail Khan	Muhmmad Tw Wc	Regular (New)	PCPL	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
13/06/2023	2	12021512117	KP	Dera Ismail Khan	Sona Tw Wc	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
13/06/2023	1	12056716071	KP	Swat	Wahid zada	Regular (New)	HDPE	Non-Canal Command Area	Spring
13/06/2023	1	12056616010	KP	Swat	Fawad Ullah	Regular (New)	HDPE	Non-Canal Command Area	Stream
13/06/2023	1	12056616013	KP	Swat	Khurshid Ali	Regular (New)	HDPE	Non-Canal Command Area	Stream
14/06/2023	2	12021512121	KP	Dera Ismail Khan	Muhammad Aftab Tw Wc	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
14/06/2023	2	12021512123	KP	Dera Ismail Khan	Zameer Hussain Tw Wc	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
14/06/2023	2	12021512135	KP	Dera Ismail Khan	Umar farooq	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
14/06/2023	2	12021512137	KP	Dera Ismail Khan	Qayum nawaz Tw Wc	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
14/06/2023	2	12021513005	KP	Dera Ismail Khan	Hayat Ullah	Regular (New)	PVC Pipe	Non-Canal Command Area	Tube Well
14/06/2023	3	12036236001	KP	Mansehra	Perwaiz Khan	Additional Lining	HDPE	Canal Command Area	
14/06/2023	3	12036216017	KP	Mansehra	Batangi Timbri pipe WC	Regular (New)	HDPE	Non-Canal Command Area	Nallah
14/06/2023	3	12036216018	KP	Mansehra	Kamad Bela Pipe WC	Regular (New)	HDPE	Non-Canal Command Area	Nallah
15/06/2023	2	12021112042	KP	Dera Ismail Khan	3500-L	Regular (New)	PCPL	Canal Command Area	
15/06/2023	2	12021112047	KP	Dera Ismail Khan	3800-L	Regular (New)	PCPL	Canal Command Area	
15/06/2023	2	12021112079	KP	Dera Ismail Khan	17600-R	Regular (New)	PCPL	Canal Command Area	
15/06/2023	1	12054216001	KP	Lower Dir	171+500-L	Regular (New)	HDPE	Canal Command Area	
15/06/2023	3	12036216020	KP	Mansehra	Uddi Kassi Pipe WC	Regular (New)	HDPE	Non-Canal Command Area	Nallah
15/06/2023	3	12036216022	KP	Mansehra	Timbri kattha Pipe WC	Regular (New)	HDPE	Non-Canal Command Area	Nallah
16/06/2023	2	12021112089	KP	Dera Ismail Khan	Ijaz U Din Tw Wc	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
16/06/2023	2	12021112095	KP	Dera Ismail Khan	Ghulam Abbas shah	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
16/06/2023	3	12036216015	KP	Mansehra	Naror Trangri Pipe WC	Regular (New)	HDPE	Non-Canal Command Area	Tube Well
16/06/2023	3	12036212009	KP	Mansehra	CPEC Bajnah Chowk WC	Regular (New)	PCPL	Non-Canal Command Area	Nallah
19/06/2023	2	12021112096	KP	Dera Ismail Khan	Sabir Hussain Tw Wc	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
19/06/2023	2	12021112101	KP	Dera Ismail Khan	Shahniwaz Tw Wc	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
19/06/2023	2	12021112103	KP	Dera Ismail Khan	Sana Ullah Tw wc	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
19/06/2023	3	12036116010	KP	Mansehra	Hashir Pipe WC	Regular (New)	HDPE	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
19/06/2023	3	12036212006	KP	Mansehra	51886-R	Regular (New)	PCPL	Canal Command Area	
19/06/2023	1	12071132004	KP	Peshawar	70000-L-Hazar Khwani	Additional Lining	PCPL	Canal Command Area	
19/06/2023	1	12071132008	KP	Peshawar	159000-L Wgc	Additional Lining	PCPL	Canal Command Area	
19/06/2023	1	12071116001	KP	Peshawar	Abdul Majeed	Regular (New)	HDPE	Canal Command Area	
19/06/2023	1	12071212001	KP	Peshawar	Kashif Twc	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
20/06/2023	2	12021112098	KP	Dera Ismail Khan	Ali Muhammad	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
20/06/2023	2	12021112099	KP	Dera Ismail Khan	Saif ur rehman	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
20/06/2023	3	12036316017	KP	Mansehra	Kashtra PWC	Regular (New)	HDPE	Non-Canal Command Area	Nallah
20/06/2023	3	12036116005	KP	Mansehra	Moeen	Regular (New)	HDPE	Non-Canal Command Area	Tube Well
20/06/2023	1	12071116011	KP	Peshawar	Adil zaman	Regular (New)	HDPE	Non-Canal Command Area	Tube Well
20/06/2023	1	12071216001	KP	Peshawar	Iqbal Hussain	Regular (New)	HDPE	Non-Canal Command Area	Tube Well
20/06/2023	1	12071116003	KP	Peshawar	Rashid Zaman	Regular (New)	HDPE	Non-Canal Command Area	WST
21/06/2023	2	12021112088	KP	Dera Ismail Khan	Gul Khan Tw	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
21/06/2023	2	12021112090	KP	Dera Ismail Khan	Shah jahan Tw Wc	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
21/06/2023	2	12021113002	KP	Dera Ismail Khan	Abdul Razaq	Regular (New)	PVC Pipe	Non-Canal Command Area	Tube Well
21/06/2023	3	12036116020	KP	Mansehra	AKHTAR Zaib Khan Pipe WC	Regular (New)	HDPE	Non-Canal Command Area	Stream
21/06/2023	3	12036116016	KP	Mansehra	Batrairh Pipe WC	Regular (New)	HDPE	Non-Canal Command Area	Tube Well
21/06/2023	1	12071116012	KP	Peshawar	Zahir ul Amin	Regular (New)	HDPE	Non-Canal Command Area	Tube Well
21/06/2023	1	12071112042	KP	Peshawar	Ikram Ullah	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
21/06/2023	1	12071112045	KP	Peshawar	Tahir khan	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
22/06/2023	2	12021112097	KP	Dera Ismail Khan	Ikram ullah	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
22/06/2023	2	12021112108	KP	Dera Ismail Khan	Abass Tw Wc	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
22/06/2023	3	12036116023	KP	Mansehra	Gulzar Ahmed Khan WC	Regular (New)	HDPE	Non-Canal Command Area	Tube Well
23/06/2023	3	12033113027	KP	Haripur	Muhammad Zaman	Regular (New)	PVC Pipe	Non-Canal Command Area	Tube Well
23/06/2023	2	12012312002	KP	Lakki Marwat	Vial Shahjee Wala	Regular (New)	PCPL	Canal Command Area	
23/06/2023	2	12012312004	KP	Lakki Marwat	Vail Nimzar	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
23/06/2023	1	12071112047	KP	Peshawar	Wajid khan	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
26/06/2023	2	12011112001	KP	Bannu	Faisal Khan-2	Regular (New)	PCPL	Canal Command Area	
26/06/2023	2	12011112002	KP	Bannu	Faisal Khan-1	Regular (New)	PCPL	Canal Command Area	
26/06/2023	3	12033316001	KP	Haripur	Shabir Muhammad Abbasi	Regular (New)	HDPE	Non-Canal Command Area	WST
26/06/2023	3	12033313002	KP	Haripur	Ghulam Asghar	Regular (New)	PVC Pipe	Non-Canal Command Area	Tube Well
26/06/2023	1	12073313005	KP	Nowshera	Waseem Muhammad	Regular (New)	PVC Pipe	Non-Canal Command Area	Tube Well
26/06/2023	1	12071412001	KP	Peshawar	Amjad Ali	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
27/06/2023	2	12011118002	KP	Bannu	Adhami Degan	Regular (New)	Mix	Canal Command Area	
27/06/2023	2	12011112003	KP	Bannu	Noor Naib Khan	Regular (New)	PCPL	Canal Command Area	
27/06/2023	1	12073312003	KP	Nowshera	3900-R	Regular (New)	PCPL	Canal Command Area	
27/06/2023	1	12073312004	KP	Nowshera	21000-L	Regular (New)	PCPL	Canal Command Area	
27/06/2023	1	12073313004	KP	Nowshera	Tayab khan	Regular (New)	PVC Pipe	Non-Canal Command Area	Tube Well
05/06/2023	1	15031212030	AJK	Bhimber	Nawan Chak	Regular (New)	PCPL	Non-Canal Command Area	Other Source
06/06/2023	1	15031312003	AJK	Bhimber	Dara Bandi	Regular (New)	PCPL	Non-Canal Command Area	Stream
06/06/2023	1	15031112015	AJK	Bhimber	Dhandar Kalan	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
07/06/2023	1	15031212005	AJK	Bhimber	Khokhran Gujran-1	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
07/06/2023	1	15031212001	AJK	Bhimber	Khokhran Gujran-2	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
12/06/2023	1	15012125001	AJK	Jhelum	Goharabad	20 Years Old	PCC	Non-Canal Command Area	Nallah
12/06/2023	1	15012125003	AJK	Jhelum	Kukarwara	20 Years Old	PCC	Non-Canal Command Area	Nallah
13/06/2023	1	15012318001	AJK	Jhelum	Chatkari	Regular (New)	Mix	Non-Canal Command Area	Nallah
14/06/2023	1	15031112023	AJK	Bhimber	Kachi 2	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
14/06/2023	1	15031112007	AJK	Bhimber	Machia-2	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
15/06/2023	1	15031212006	AJK	Bhimber	Malkay-4	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
15/06/2023	1	15031112035	AJK	Bhimber	Sokasan	Regular (New)	PCPL	Non-Canal Command Area	Tube Well
20/06/2023	1	15032415008	AJK	Kotli	Maira Nakyal	Regular (New)	PCC	Non-Canal Command Area	Nallah
20/06/2023	1	15032415006	AJK	Kotli	Jandrot Kathar Zaireen	Regular (New)	PCC	Non-Canal Command Area	Stream

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

Impact Survey Visit Date	Team.#	WST ID	Zone	District	Farmer's Name
05/06/2023	2	21062113001	Punjab	Hafizabad	Ghazfar Ghayas:Muhammad Mohsin
06/06/2023	2	21062213005	Punjab	Hafizabad	Nusrat Tahira:W/O Fyaz Ahmad
07/06/2023	2	21062213003	Punjab	Hafizabad	Muhammad Afzal:Bashir Ahmad
07/06/2023	3	21073112002	Punjab	Lodhran	Muhammad Arif:Khoshi Muhamad
08/06/2023	1	21032112003	Punjab	Okara	Rao Muhammad Farooq Khan:Abdul Majeed Khan
22/06/2023	3	21081312004	Punjab	Bahawalpur	Muhammad Parvaiz:Ch. Muhammad Yousuf
22/06/2023	1	21104212008	Punjab	Jhelum	Muhammad Abbas:Jahan Muhammad
23/06/2023	1	21031114002	Punjab	Sahiwal	Younis Gill:Khursheed Alam Gill
05/06/2023	2	22021432046	KP	Dera Ismail Khan	Abdul Majeed Tw Wst
05/06/2023	2	22021432045	KP	Dera Ismail Khan	Ameer Asfand Yar
06/06/2023	2	22021432049	KP	Dera Ismail Khan	Fatima Begam
06/06/2023	2	22021432001	KP	Dera Ismail Khan	Mumtaz
07/06/2023	2	22021432044	KP	Dera Ismail Khan	Saif Ullah Tw Wst
07/06/2023	2	22021432047	KP	Dera Ismail Khan	Shafqat Ullah Tw Wst
07/06/2023	1	22051332003	KP	Malakand	Shakeel Ahmed
07/06/2023	1	22056234017	KP	Swat	Abdur Raziq
07/06/2023	1	22056244002	KP	Swat	Nasar
08/06/2023	1	22056234022	KP	Swat	Taj Mohammad
08/06/2023	1	22056234001	KP	Swat	Gul Roze
09/06/2023	2	22021132001	KP	Dera Ismail Khan	Abdul Qayum
09/06/2023	2	22021342001	KP	Dera Ismail Khan	Javed Anwar Khan
09/06/2023	2	22021332004	KP	Dera Ismail Khan	Umar Ameen Tw Wst
12/06/2023	3	22031147001	KP	Abbottabad	Hanif Awan

Impact Survey Visit Date	Team.#	WST ID	Zone	District	Farmer's Name
13/06/2023	3	22032147001	KP	Battagram	Shamalai
13/06/2023	1	22055134001	KP	Shangla	Fazal Khuda
13/06/2023	1	22055134004	KP	Shangla	Intikhab Alam Wst
15/06/2023	1	22054132008	KP	Lower Dir	Sajjad Khan
15/06/2023	3	22036235006	KP	Mansehra	Arshad Mehmood Wst
16/06/2023	1	22057144002	KP	Upper Dir	Tangai Bala
19/06/2023	3	22036234001	KP	Mansehra	Saqib Sherazi
20/06/2023	3	22036335002	KP	Mansehra	Kashtra Wst
20/06/2023	1	22071132028	KP	Peshawar	Aqeel Afzal
21/06/2023	1	22071132039	KP	Peshawar	Zahir Ul Amin
22/06/2023	2	22021132018	KP	Dera Ismail Khan	Ikram Ullah Tw Wst
22/06/2023	3	22036135009	KP	Mansehra	Saleem Khan Thakra Wst
22/06/2023	1	22071132005	KP	Peshawar	Aziz Khan
22/06/2023	1	22071132040	KP	Peshawar	Ibrahim Khan
22/06/2023	1	22071132009	KP	Peshawar	Muhammad Usman
22/06/2023	1	22071132006	KP	Peshawar	Muhammad Uzair
23/06/2023	3	22033132012	KP	Haripur	Muhammad Zaman Khan
23/06/2023	1	22071132041	KP	Peshawar	Afaq Ahmad
26/06/2023	2	22011132001	KP	Bannu	Ihsanu Llah Khan
26/06/2023	1	22073332004	KP	Nowshera	Malook Khan
07/06/2023	1	1248	Balochistan	Quetta	Abdul Quddus
08/06/2023	1	1257	Balochistan	Quetta	Faqir Muhammad
05/06/2023	1	25031127003	AJK	Bhimber	Machora
06/06/2023	1	25031127001	AJK	Bhimber	Pithorani-2
08/06/2023	1	25012116013	AJK	Jhelum	Doodhpura
08/06/2023	1	25012116009	AJK	Jhelum	Doodhpura Lower

Impact Survey Visit Date	Team.#	WST ID	Zone	District	Farmer's Name
09/06/2023	1	25012118002	AJK	Jhelum	Kakarwara
09/06/2023	1	25012126001	AJK	Jhelum	Lower Gujar Bandi
19/06/2023	1	25032416003	AJK	Kotli	Kugyali Khandar
19/06/2023	1	25032625002	AJK	Kotli	Tarala 2
21/06/2023	1	25011124023	AJK	Muzaffarabad	Baglota Dana
21/06/2023	1	25011116046	AJK	Muzaffarabad	Pajgran
22/06/2023	1	25011124034	AJK	Muzaffarabad	Poothi Farooqabad
22/06/2023	1	25011116019	AJK	Muzaffarabad	Potha Kacheli
23/06/2023	1	25011116055	AJK	Muzaffarabad	Saibthaan

ANNEXURE F: PICTORIAL VIEW OF IMPACT SURVEY FIELD VISITS









ANNEXURE-G: WATERCOURSES DATA SUBMISSIONS

AJK - Watercourses Data Submissions - Summary								
Division	District	Completed	Work Order Canceled	Under Progress				Overall
				1st Milestone	2nd Milestone	Work Order Issued	Work Order Pending	
Muzaffarabad	Muzaffarabad	71	5	2	5	13	12	108
	Jhelum	18	0	6	0	14	6	44
	Neelum	27	12	11	3	13	0	66
Muzaffarabad Total		116	17	19	8	40	18	218
Poonch	Poonch	34	10	4	1	2	4	55
	Bagh	24	14	4	0	1	7	50
	Haveli	6	9	2	0	4	8	29
	Sudhnoti	22	16	1	0	1	0	40
Poonch Total		86	49	11	1	8	19	174
Mirpur	Mirpur	71	2	0	0	4	23	100
	Bhimber	106	0	1	0	0	10	117
	Kotli	32	22	5	0	1	3	63
Mirpur Total		209	24	6	0	5	36	280
Overall		411	90	36	9	53	73	672

ANNEXURE-H: WST/WHs DATA SUBMISSIONS

AJK - WST/WHs Data Submissions - Summary						
Division	District	Completed	Work Order Canceled	Under Progress		Overall
				Work Order Issued	Work Order Pending	
Muzaffarabad	Muzaffarabad	134	3	6	13	156
	Jhelum	11	0	13	3	27
Muzaffarabad Total		145	3	19	16	183
Poonch	Poonch	48	19	5	22	94
	Bagh	37	18	5	21	81
	Haveli	15	16	14	27	72
	Sudhnoti	12	13	15	7	47
Poonch Total		112	66	39	77	294
Mirpur	Mirpur	10	3	2	6	21
	Bhimber	11	0	0	8	19
	Kotli	27	12	1	3	43
Mirpur Total		48	15	3	17	83
Overall		305	84	61	110	560

ANNEXURE-I: KP - WATERCOURSE DATA SUBMISSION – SUMMARY

Division	District	Completed	Work Order Canceled	Under Progress				Overall
				1st Milestone	2nd Milestone	Work Order Issued	Work Order Pending	
Bajaur Agency	Bajaur	46	0	10	3	20	0	79
Bajaur Agency Total		46	46	0	10	3	20	0
Bannu	Bannu	95	0	0	28	0	0	123
Bannu	Lakki Marwat	108	0	2	0	0	0	110
Bannu Total		199	203	0	2	28	0	0
D.I. Khan	D.I. Khan	493	0	2	0	0	0	495
D.I. Khan	Tank	38	0	0	0	0	0	38
D.I. Khan Total		520	531	0	2	0	0	0
Hazara	Abbottabad	25	0	1	1	0	0	27
Hazara	Battagram	38	0	3	0	0	0	41
Hazara	Haripur	58	0	0	21	0	0	79
Hazara	Lower Kohistan	7	0	0	0	13	0	20
Hazara	Mansehra	92	0	0	62	1	3	158
Hazara	Torghar	29	2	0	1	1	0	33
Hazara	Upper Kohistan	9	0	0	0	0	0	9
Hazara	Kolai Pallas	2	0	0	0	0	0	2
Hazara Total		251	260	2	4	85	15	3
Khyber Agency	Khyber	19	0	0	0	5	1	25
Khyber Agency Total		19	19	0	0	0	5	1
Kohat	Hangu	42	0	0	0	0	0	42
Kohat	Karak	67	0	0	1	0	0	68
Kohat	Kohat	96	0	0	0	0	0	96
Kohat Total		194	205	0	0	1	0	0
Kurram Agency	Kurram	10	0	0	2	0	0	12
Kurram Agency Total		9	10	0	0	2	0	0
Malakand	Buner	94	0	0	0	0	0	94
Malakand	Chitral	88	0	1	2	0	0	91
Malakand	Lower Dir	73	0	6	22	33	7	141
Malakand	Malakand	76	0	0	1	11	1	89
Malakand	Shangla	39	0	0	0	0	0	39
Malakand	Swat	167	3	32	56	2	4	264
Malakand	Upper Dir	85	0	0	12	0	0	97
Malakand Total		614	622	3	39	93	46	12
Mardan	Mardan	132	0	2	2	6	0	142
Mardan	Swabi	93	0	1	33	0	1	128
Mardan Total		205	225	0	3	35	6	1
Mohmand Agency	Upper Mohmand	32	0	0	0	0	0	32
Mohmand Agency	Lower Mohmand	11	0	0	0	0	0	11
Mohmand Agency Total		43	43	0	0	0	0	0
Orakzai Agency	Orakzai	1	0	0	0	0	0	1
Orakzai Agency Total		1	1	0	0	0	0	0
Peshawar	Charsadda	126	1	0	0	13	0	140
Peshawar	Nowshera	98	0	0	0	1	1	100
Peshawar	Peshawar	67	1	6	6	4	11	95
Peshawar Total		266	291	2	6	6	18	12
S.W Agency	S.W Agency	27	0	0	0	1	0	28
S.W Agency Total		27	27	0	0	0	1	0
N.W Agency	N.W Agency	5	0	0	0	0	5	10
N.W Agency Total		5	5	0	0	0	0	5
Overall		2488	7	66	253	111	34	2959

ANNEXURE-J: KP - WST DATA SUBMISSION – SUMMARY

Division	District	Completed	Under Progress				Overall
			1st Milestone	2nd Milestone	Work Order Issued	Work Order Pending	
Bajaur Agency	Bajaur	16	0	0	1	0	17
Bajaur Agency Total		16	0	0	1	0	17
Bannu	Bannu	11	0	1	0	0	12
Bannu	Lakki Marwat	34	0	0	0	0	34
Bannu Total		45	0	1	0	0	46
D.I. Khan	D.I. Khan	81	1	1	5	0	88
D.I. Khan	Tank	16	0	0	0	0	16
Dera Ismail Khan Total		97	1	1	5	0	104
Hazara	Abbottabad	18	0	0	0	0	18
Hazara	Battagram	23	0	0	4	0	27
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	35	1	2	4	1	43
Hazara	Torghar	11	0	0	4	0	15
Hazara	Upper Kohistan	7	0	0	0	1	8
Hazara Total		136	1	2	14	3	156
Khyber Agency	Khyber	10	0	0	6	0	16
Khyber Agency Total		10	0	0	6	0	16
Kohat	Hangu	14	0	0	0	0	14
Kohat	Karak	60	0	0	0	0	60
Kohat	Kohat	5	0	0	0	0	5
Kohat Total		79	0	0	0	0	79
Kurram Agency	Kurram	2	0	0	0	0	2
Kurram Agency Total		2	0	0	0	0	2
Malakand	Buner	43	0	0	0	0	43
Malakand	Chitral	21	0	0	0	0	21
Malakand	Lower Dir	15	2	2	9	0	28
Malakand	Malakand	24	0	0	0	0	24
Malakand	Shangla	21	0	0	1	0	22
Malakand	Swat	95	3	6	29	3	136
Malakand	Upper Dir	33	1	0	1	1	36
Malakand Total		252	6	8	40	4	310
Mardan	Mardan	31	0	0	1	0	32
Mardan	Swabi	18	0	2	0	0	20
Mardan Total		49	0	2	1	0	52
Mohmand Agency	Mohmand	41	0	0	0	0	41
Mohmand Agency Total		41	0	0	0	0	41
Orakzai Agency	Orakzai	2	0	0	0	0	2
Orakzai Agency Total		2	0	0	0	0	2
Peshawar	Charsadda	13	0	0	1	0	14
Peshawar	Nowshera	62	0	0	0	0	62
Peshawar	Peshawar	25	3	2	13	9	52
Peshawar Total		100	3	2	14	9	128
S.W Agency	S.W Agency	29	0	0	0	0	29
S.W Agency Total		29	0	0	0	0	29
N.W Agency	N.W Agency	8	0	0	5	0	13
N.W Agency Total		8	0	0	5	0	13
Overall		866	11	16	86	16	995

ANNEXURE-K: BALOCHISTAN - WATERCOURSE DATA SUBMISSION – SUMMARY

Balochistan - Watercourse Data Submission - Summary							
Division	District	Completed	Under Progress				Overall
			1 st Milestone	2 nd Milestone	TS Issued	TS Pending	
Kalat	Awaran	111	0	0	0	22	133
Kalat	Kalat	124	0	0	0	43	167
Kalat	Khuzdar	142	0	0	0	3	145
Kalat	Lasbela	146	0	0	0	29	175
Kalat	Mastung	115	0	0	0	53	168
Kalat	Surab	0	0	0	0	40	40
Kalat Total		638	0	0	0	190	828
Loralai	Barkhan	55	0	0	0	0	55
Loralai	Duki	0	0	0	42	1	43
Loralai	Loralai	155	0	0	0	158	313
Loralai	Musakhail	141	0	0	0	1	142
Loralai Total		351	0	0	42	160	553
Makran	Gwadar	20	0	0	0	0	20
Makran	Kech	56	0	0	8	0	64
Makran	Panjgur	80	0	0	0	25	105
Makran Total		156	0	0	8	25	189
Nasirabad	Jaffarabad	85	0	0	0	56	141
Nasirabad	Jhal Magsi	21	0	0	0	0	21
Nasirabad	Kachi	0	0	0	17	62	79
Nasirabad	Nasirabad	52	0	0	0	108	160
Nasirabad	Sohbatpur	0	0	0	0	72	72
Nasirabad Total		158	0	0	17	298	473
Quetta	Killa Abdullah	105	0	0	0	0	105
Quetta	Pishin	117	0	0	0	46	163
Quetta	Quetta	39	0	0	1	28	68
Quetta Total		261	0	0	1	74	336
Rakhshan	Chaghi	75	0	0	0	0	75
Rakhshan	Kharan	32	0	0	0	11	43
Rakhshan	Nushki	0	0	1	38	54	93
Rakhshan	Washuk	18	0	0	0	2	20
Rakhshan Total		125	0	1	38	67	231
Sibi	Dera Bugti	30	0	0	0	64	94
Sibi	Harnai	40	0	0	0	0	40
Sibi	Kohlu	0	56	0	0	0	56
Sibi	Sibi	33	0	0	0	20	53
Sibi	Ziarat	62	0	0	0	0	62
Sibi Total		165	56	0	0	84	305
Zhob	Killa Saifullah	123	0	0	0	72	195
Zhob	Sherani	25	0	0	1	36	62
Zhob	Zhob	56	0	0	12	7	75
Zhob Total		204	0	0	13	115	332
Overall		2058	56	1	119	1013	3247

ANNEXURE-L: BALOCHISTAN - WST DATA SUBMISSION – SUMMARY

Balochistan - WST Data Submission - Summary							
Division	District	Completed	Under Progress				Overall
			1st Milestone	2nd Milestone	TS Issued	TS Pending	
Kalat	Awaran	55	0	0	0	29	84
Kalat	Kalat	87	0	0	0	2	89
Kalat	Khuzdar	68	0	0	0	8	76
Kalat	Lasbela	76	0	0	0	32	108
Kalat	Mastung	89	0	0	1	11	101
Kalat	Surab	0	0	0	0	29	29
Kalat Total		375	0	0	1	111	487
Loralai	Barkhan	47	0	0	0	6	53
Loralai	Duki	0	0	0	16	13	29
Loralai	Loralai	48	0	0	0	53	101
Loralai	Musakhail	26	0	0	0	0	26
Loralai Total		121	0	0	16	72	209
Makran	Gwadar	7	0	0	0	0	7
Makran	Kech	35	0	0	0	21	56
Makran	Panjgur	104	0	0	0	39	143
Makran Total		146	0	0	0	60	206
Nasirabad	Jaffarabad	8	0	0	0	9	17
Nasirabad	Jhal Magsi	24	0	0	0	0	24
Nasirabad	Kachi	0	0	0	13	62	75
Nasirabad	Nasirabad	8	0	0	0	0	8
Nasirabad	Sohbatpur	1	0	0	0	13	14
Nasirabad Total		41	0	0	13	84	138
Quetta	Killa Abdullah	22	0	0	0	0	22
Quetta	Pishin	56	0	0	0	47	103
Quetta	Quetta	33	0	0	0	21	54
Quetta Total		111	0	0	0	68	179
Rakhshan	Chaghi	33	0	0	0	13	46
Rakhshan	Kharan	15	0	0	0	14	29
Rakhshan	Nushki	0	0	0	31	30	61
Rakhshan	Washuk	4	0	0	0	9	13
Rakhshan Total		52	0	0	31	66	149
Sibi	Dera Bugti	0	0	0	0	39	39
Sibi	Harnai	20	0	0	0	0	20
Sibi	Kohlu	0	0	0	0	2	2
Sibi	Sibi	13	0	0	0	10	23
Sibi	Ziarat	10	0	0	0	11	21
Sibi Total		43	0	0	0	62	105
Zhob	Killa Saifullah	21	0	0	0	86	107
Zhob	Sherani	9	0	0	1	14	24
Zhob	Zhob	70	0	0	5	3	78
Zhob Total		100	0	0	6	103	209
Overall		989	0	0	67	626	1682

ANNEXURE-M: PUNJAB - WATERCOURSE DATA SUBMISSION – SUMMARY

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

ANNEXURE-N: PUNJAB – WATER STORAGE TANKS/POND DATA SUBMISSION – SUMMARY

Punjab - WSP Data Submission - Summary					
Division	District	Completed	Under Progress		Overall
			TS Issued	TS 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	8	0	0	8
Dera Ghazi Khan Total		80	0	0	80
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 Baha-Ud-Din	2	0	0	2
Gujrat Total		41	0	0	41
Khushab	Khushab	28	0	0	28
Khushab Total		28	0	0	28
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	Mianwali	3	0	0	3
Sargodha	Sargodha	35	0	0	35
Sargodha Total		57	0	0	57
Sahiwal Total		989	0	0	989

ANNEX-O: GB – WATERCOURSE DATA SUBMISSION – SUMMARY

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-P: GB – WATER STORAGE POND DATA SUBMISSION – SUMMARY

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