



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

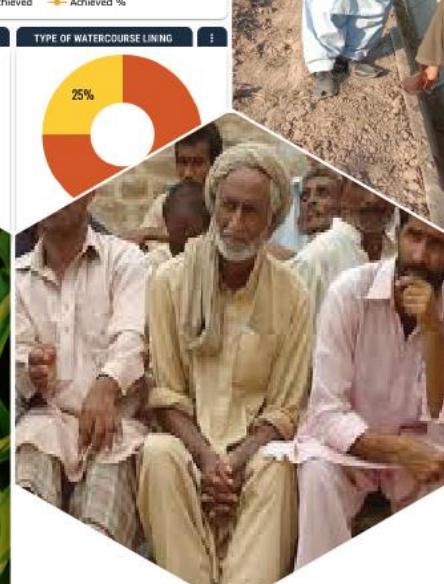
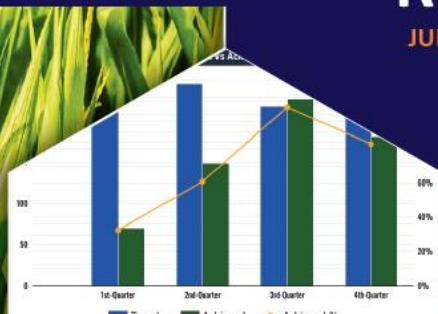
NATIONAL PROGRAM FOR IMPROVEMENT OF WATERCOURSES IN PAKISTAN PHASE-II: (NPIWC-II)

MONITORING, EVALUATION AND IMPACT EVALUATION CONSULTANTS



ANNUAL MONITORING & EVALUATION REPORT

JUL 2022 - JUN 2023



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



In Association with





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

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

ANNUAL MONITORING AND EVALUATION REPORT

July 2022 To June 2023

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ACRONYMS

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

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

TERMINOLOGIES, INTERPRETATION AND DEFINITIONS

Authorized Supply:	The quantity of water allotted to a command area.
Baseline study:	A baseline study measures the situation at the beginning of the project. This can then be compared to the situation after the end of the intervention, to establish what change has occurred.
Canal Command Area Watercourses:	A tertiary-level water distribution system that is operated and maintained by its shareholders; it receives flows from secondary conveyance channels managed by the government (distributary/minor canal) or operated by communities (civil canal) and carries these flows to various holdings, usually in a weekly rotation.
Chak Block	Land identified as the smallest administration unit with reference to irrigation.
Chakbandi	The gross area commanded by an outlet for irrigation.
Command Area	The area served by a watercourse, a distributary or a canal.
Cropping pattern:	Cropping pattern refers to the proportion of area under different crops at a particular period of time. A change in cropping pattern means a change in the proportion of area under different crops.
Cropping Intensity:	Cropping intensity refers to raising of a number of crops from the same field during one agricultural year; it can be expressed through a formula, Cropping Intensity = Gross Cropped Area / Net Sown Area x 100
Dera	A multi-purpose building built on the farm to keep animals, agricultural equipment and dry fodder.
Distributary	A relatively small sized canal which supplies water to the watercourse outlets. The hierarchy of water supplying channels in terms of size, in descending order, are as follows: Main canal, branch canal, distributary, minor and watercourse.
Doab	Land between two rivers.
Katcha	Informal, unofficial or unregulated.
Khal Watercourse	A water channel jointly owned and managed by the water users of an outlet command area that transports water to the field outlets.
Kharif	Summer cropping season; from April to October.
Mogha	An outlet in a canal or distributor to supply water to a watercourse.
Non-Canal Command Area Watercourses:	A tertiary-level water distribution system that is operated and maintained by its shareholders for receiving flows from sources other than canals, such as tube wells, khwars, nullahs, springs, tanks and ponds, etc., and carries these flows to various holdings, usually in a weekly rotation.
Panchayat	An assembly of village elders to settle disputes and regulate the traditional codex of the village.
Pukka	Formal, official or regulated.
Rabi	Winter cropping season; from October to April.
Survey:	A survey is a method of gathering information for a sample of a target population through a sequence of focused, targeted questions. The sample is scientifically chosen to reflect the larger population. Information is collected by standardized procedures to ensure that each individual is asked the same questions in the same way and sequence.
Sarkari Khal	Main section of the watercourse transporting water to the water users' field outlet (nakkas).
Tube well	An irrigation well to lift the underground water with electric or diesel motor engine connected to a sizeable metallic tube bored in the earth.
Wara Bandi	The rotatory system for the distribution of irrigation water. Water User(s) the actual water manager(s) at the watercourse and fields level.
Water Storage Pond:	A small-scale water storage reservoir normally constructed to collect rainwater runoff by pumping, for subsequent supplementary irrigation through surface flooding or high-efficiency irrigation systems.

Wara Bandi	A rotational method for the distribution of water drawn from a common source in its command area through a watercourse according to a predetermined schedule specifying the day, time and duration of supply in proportion to each irrigator's size of landholdings. Pukka Formal, official or regulated. Rabi Winter cropping season; from October to April.
Laser land levelling (LLL)	Laser levelling is a process of smoothing the land surface (± 2 cm) from its average elevation using laser-equipment.
Nambardar	Headman of the village basically responsible for collecting land revenues and irrigation fee and forwarding them to the government along with mediating social and political affairs of the village.
Nakka	An outlet from the watercourse to deliver water to the farmers' fields
Pansal Nawees	Gauge reader and record keeper of the water supply at the lower level in the main system; regulates water supply to a number of distributaries or minors. Patwari Lower-level revenue official at the field level for a particular area, surveyor of crops to assess the revenue fee for every farm, keeper of revenue and Wara Bandi schedules.
Rotatory system	For the distribution of irrigation water. Water User(s), the actual water manager(s) at the watercourse and fields level.
Stratified sampling:	Use when sample frame is very heterogeneous and you need to accurately represent certain subgroups in order to compare them
Sarkari Khal	Main section of the watercourse transporting water to the water users' field outlet (nakkas). Tube well an irrigation well to lift the underground water with electric or diesel motor engine connected to a sizeable metallic tube bored in the earth. Ushar An annual Islamic tax on agricultural produce which amounts to 1/10th of the yield for irrigated land and 1/20th for non-irrigated land. Wara Bandi
Tube well:	A drilled well, cased and screened, usually gravel-packed, used to pump water from a subsurface aquifer
Ushar	An annual Islamic tax on agricultural produce which amounts to 1/10th of the yield for irrigated land and 1/20th for non-irrigated land.
Water Storage Tank	A small-scale, farm-level water storage reservoir of typically about 180 cubic meters' capacity that is generally constructed above the ground to collect water from various sources (tube wells, dug wells, open wells, springs, etc.) with very small flows (about 10–15 lps). Direct application of these small flows is not feasible or efficient. With the tank, the water resource can be subsequently used in larger volumes by intermittent release for surface flooding or high-efficiency irrigation systems.
Water Users' Association:	'Association' means a 'water users' association' (anjuman-e-abpashi) organized and registered under the Khyber Pakhtunkhwa Water Users' Association Ordinance 1981 for the improvement and subsequent maintenance of watercourses and the construction of water storage tanks/ponds.
Zamindar Landowner.	Zeladar Junior member of the supervisory staff of the revenue division of 14 scale in Irrigation Department, supervising a number of patwaris.
Measures & their Conversion	Acre Anglo Saxon measure; 1 acre = 100 decimal = 0.4047 ha. ➤ Cusecs Cubic feet per second = 28.317 litre per second ➤ Maund Weight measurement unit; 37.32 Kilogram ➤ Marla 1 Marla is equal to 0.0025 ha. ➤ Acre foot the volume of irrigation water that would cover one acre to a depth of one foot and equals to 43,560 cubic feet = 1,233 m ³ ➤ Murabah A block of demarcated land, with an area of 25 to 27.7 acres. A commonly used unit of area for agricultural land. ➤ Karam A local unit of length measurement; 5.5 feet.

EXECUTIVE SUMMARY

The report in hand, "Annual Monitoring and Evaluation Report for the period of 1stJuly 2022–30thJune 2023, is composed of seven chapters.

Section-1 describes the project introduction in detail. 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 excluding Sindh) over a period of 05 years. This project will cover Punjab, KP, Balochistan and Gilgit Baltistan, Azad Jammu & Kashmir as well as Islamabad Capital Territory (ICT). The proposed project Phase-II will be beneficial for the country.

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

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

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

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

Section-3 covers the details about the Annual Monitoring Report. This annual monitoring report (AM&ER) covers the period from 1stJuly 2022–30thJune 2023.

Section-4 of this report covers the activities completed during the reporting period are summarized below:

- Improvement / Refinement of Monitoring Tools in the light of lessons learnt during BLS-I
- Preparation for Baseline Survey-II
- Training of field staff and Key staff on Survey
- Training of Measurement of water flow by Pygmy current meter
- Manual of MTs and Android Base System & Dashboard
- Regular Monitoring of Interventions in the field by ME&IE Field Teams
- Baseline Survey-II field visits for data collation.
- Preparation for Impact Survey and Validation of Baseline Survey,
- Data collection of interventions in MIS/GIS database
- Data Cleaning, data validation and analyses
- Impact Survey field visits for data collation
- Refinement NPIWC-II project Website,
- Implementation of Dashboard of Project Interventions etc. & Launching of Dashboard for Client Offices.
- Capacity Building Trainings / Refresher of OFWM Departments
- Internal Meetings of ME&IE Consultants Zonal Offices for Methodology Baseline III Survey,
- Baseline Survey Report Phase-I (Final)
- Baseline Survey Report Phase-II (Draft)
- Midterm/Midline Impact Evaluation Report (Draft)
- Consolidation of Baseline Survey Ph-1&II Report, Consolidation of Impact Survey Report.
- Monthly and Quarterly Progress Reports

SECTION-5 of this report covers the detail of deliverables submitted to client from ME&IE consultants during the reporting period are summarized below:

- Regular Monthly Monitoring Reports
- Quarterly Monitoring Reports
- Baseline/Endline Survey Manual
- Android Application Manual
- PMIS DASHBOARD Manual
- Baseline Survey Report Phase-II (Draft)
- Submission of Updating Monitoring Tools
- Baseline Survey-II Report (WC)
- Baseline Survey-II Report (WSTs)
- Mid-Term Monitoring and Impact Evaluation Report (Draft) NPWIC-II Project

Section-6: Describes the problems and bottlenecks faced during the course of Project activities.

CHAPTER-1: INTRODUCTION

1.1 PROJECT PROFILE

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

1.2 BACKGROUND

The Government of Pakistan is implementing a five-year National Program for Improvement of Watercourses in Pakistan Phase-II (NPIWC-II), funded by the Ministry of National Food Security and Research (MNFSR), Islamabad. The executing agencies (EAs) are Federal Water Management Cell (FWMC), all Provincial Directorates of OFWM and respective departments of AJK, GB and ICT, District

Governments and Farmers' Organizations (FOs) / Water Users Associations (WUAs). The coordination rests with FPMU-FWMC Islamabad.

There was a requirement of the project implementation to hire expert services of consultants for Monitoring, Evaluation and Impact Evaluation. For this purpose, a joint venture of G3 Engineering Consultants Pvt. Ltd., Ease-Pak Engineering Services (Pvt.) Ltd., Center for Social Research and Development (CSRD) and ADA Inc., Canada has been selected through competitive bidding process as ME&IE Consultants. An Agreement was signed by the Joint Venture and the National Project Coordinator (NPC) on behalf of the Client dated 26th October 2020. The ME&IE Consultants team was mobilized on November 07, 2020.

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.

1.3 BRIEF DESCRIPTION OF THE PROJECT

1.3.1 Project Development Objectives

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

1.3.2 Project Objectives – General

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

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

1.3.3 Project Objectives – Quantitative

The quantitative objectives 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.
- iv) Provision of 11,610 Laser Land Levellers at 50% cost sharing, with the expectation to save about 50% irrigation water for wheat and about 68% of irrigation water for paddy.

Project Impacts

- i) Reduction in Water Logging and salinity in project areas to the extent of 10%,
- ii) Cropping intensity is expected to increase by 5-20%,
- iii) Crops yield is estimated to increase by 10-15%.

- iv) Equity in water distribution increased by about 30%,
- v) Reduction in water disputes/thefts and litigation amongst the Farmers over water distribution by about 80%,
- vi) Help poverty reduction through generation of employment,
- vii) Self-sufficiency in food through utilization of water saved for edible oil seed production.

Project Indirect Benefits to Industry/Economic Activities

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

Awareness Support To Farmers

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

1.4 PROJECT TARGETS

Project aims at achieving the targets (Table-1.1) for 5 years starting from the year 2019-20 to 2023-24. The targets for each province/Unit (excluding Sindh) are given in **Table-1.1 to 1.4** and at Pakistan & Zonal Level detail is given in **Figure 1.1 and Figure 1.2**.

Table 1.1: Project Targets (in numbers)

SR. NO.	INTERVENTION	PUNJAB	KP	BALOCHISTAN	GB	AJK	ICT	TOTAL
1	Reconstruction of Watercourses (more than 20 years old/Additional lining 50%)	7,500	3,000	3,589	-	-	-	14,089
	New Watercourses (Unimproved)	2,500	10,000	16,800	2,500	1,165	224	33,189
	Total Watercourses	10,000	13,000	20,389	2,500	1,165	224	47,278
2	Water Storage Tanks	3,000	5,000	5,507	825	600	-	14,932
3	Laser Land Leveling Units	9,500	600	1,500	5	5	-	11,610

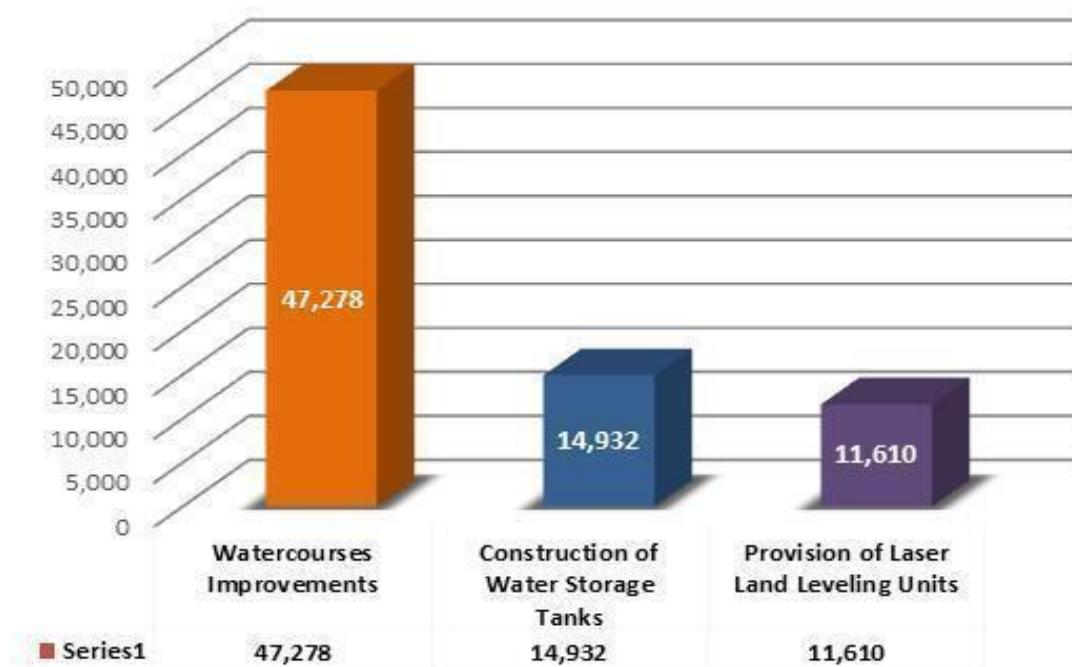


Figure 1.1: National Level Targets

Table 1.2: Province-wise year-wise Watercourses targets

Sr. No.	Province / Unit	Watercourses (Numbers)					
		Year-1	Year-2	Year-3	Year-4	Year-5	Total
1	Punjab	1,000	1,100	2,700	2,800	2,400	10,000
2	Khyber Pakhtunkhwa	1,600	3,200	3,200	3,200	1,800	13,000
3	Balochistan	2,020	5,250	5,530	4,800	2,789	20,389
4	Gilgit Baltistan	496	496	500	504	502	2,500
5	AJK	190	227	244	278	226	1,165
6	ICT	24	45	47	57	51	224
Total		5,330	10,320	12,221	11,639	7,768	47,278

Table 1.3: Province-wise year-wise Water Storage Tanks targets

Sr. No	Province / Unit	Water Storage Tanks (Numbers)					
		Year-1	Year-2	Year-3	Year-4	Year-5	Total
1	Punjab	400	400	800	700	700	3,000
2	Khyber Pakhtunkhwa	550	1,300	1,300	1,300	550	5,000
3	Balochistan	360	1,000	1,510	1,500	1,137	5,507
4	Gilgit Baltistan	163	164	165	165	168	825
5	AJK	120	120	120	120	120	600
6	ICT	-	-	-	-	-	-
Total		1,593	2,984	3,895	3,785	2,675	14,932

Table 1.4: Province-wise year-wise Laser Land Leveling Unit targets

Sr. No.	Province / Unit	Laser Land Leveling (Numbers)					
		Year-1	Year-2	Year-3	Year-4	Year-5	Total
1	Punjab	1,700	2,200	2,200	2,000	1,400	9,500
2	Khyber Pakhtunkhwa	-	200	200	200	-	600
3	Balochistan	200	350	400	400	150	1,500
4	Gilgit Baltistan	-	2	3	-	-	5
5	AJK	-	2	3	-	-	5
6	ICT	-	-	-	-	-	-
Total		1,900	2,754	2,806	2,600	1,550	11,610

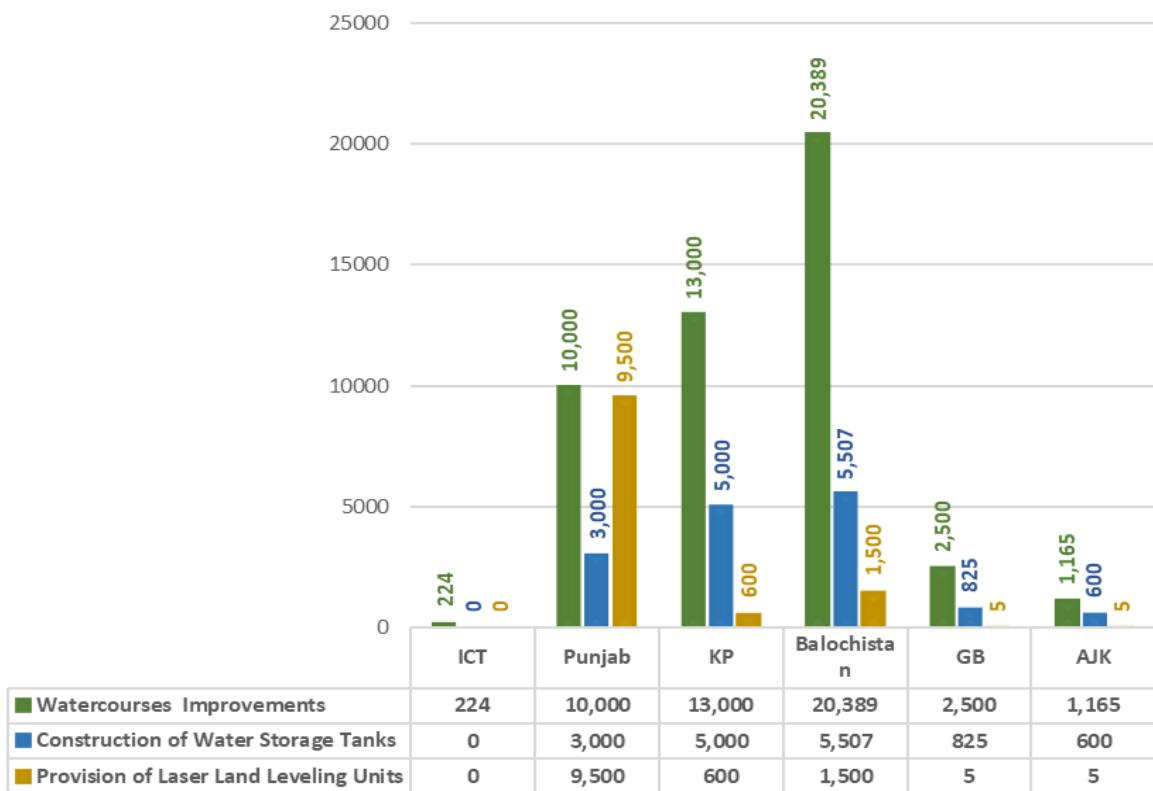


Figure 1.2: Zonal/Unit Level Targets

1.5 PROJECT BENEFICIARIES

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

However, net beneficiaries are expected to be 1.668 million.

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

1.6 PROJECT COMPONENTS

The project comprises four components, detailed as under:

1.6.1 Component C1: Organization of Water Users' Associations

The effective involvement and participation of the shareholders act as a catalyst for successful implementation of any development undertaking. The key to success of OFWM program in Pakistan is

farmers' participation in execution of envisaged interventions through a community driven implementation approach.

The proposed works will also be carried out through the WUAs to be registered under "On Farm Water Management & Water Users Associations Ordinance [Act]-1981(Amended 2001)" with following key responsibilities.

- 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.

1.6.2 Component C2: Watercourse Improvements

Total 47,278 watercourses are planned to be improved under NPIWC-II. The share of various provinces / areas is Punjab 10,000, KP 13,000, Balochistan 20,389, Gilgit Baltistan 2,500, AJK 1,165 and ICT 224. The project will consider three categories of the watercourses to be taken for improvement:

- 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.

1.6.3 Component C3: Construction of Water Storage Tanks

An on-farm water storage tank is a structural best management practice that enables it to capture and store canal water, surface water runoff during the rainy season, tail water from furrow irrigation etc.,

so that it may be used subsequently at required time of irrigation. These systems may be constructed with a water storage tank and an enlarged tail water Recovery Ditch (TWRD).

The purpose of providing water storage tanks includes the followings:

- 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
- iii) subsequently, Collect, store and filter water from:
 - Small Dams, springs, Streams, Nallas 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.

It is planned that 14,932 On Farm Water Storage Tanks will be constructed during the Project period to supply supplemental irrigation.

1.6.4 Component C4: Provision of Laser Land Leveling Units

Enhancement of water productivity at farm level is the most appropriate solution to redress water scarcity. Laser land leveling is the best option for improving water productivity through minimizing water application losses. Precision land leveling has been promoted in the country since the inception of OFWM program. Use of Laser technology for the purpose is the latest development, which was introduced in the country during 1985. On average Laser Land Leveler has the capacity of doing precision land leveling of about 300 acres per annum.

Laser Land leveling technology is highly popular amongst farming communities in the country especially in the Punjab because of its quick returns. Keeping in view huge demand for the technology and massive economic returns, it has been planned to provide 11,610 Laser Land Leveling Units to the farmers/service providers under NPIWC-II. The component will strengthen LASER land leveling services in the country through provision of Laser Land Leveling Units to farmers/service providers on 50% subsidized rates (one-time financial assistance of Rs. 250,000/-, while the beneficiary farmer would

contribute the entire remaining cost of the equipment).

1.7 PROJECT COVERAGE AND LOCATION

The works are being undertaken in the Province of Punjab, Khyber Pakhtunkhwa (KP), and Balochistan

excluding Sindh. It also covers Gilgit Baltistan (GB), Azad Jammu & Kashmir (AJK) and Islamabad Capital Territory (ICT). The location maps with total targets are shown in Figure-1.3.

Project Targets

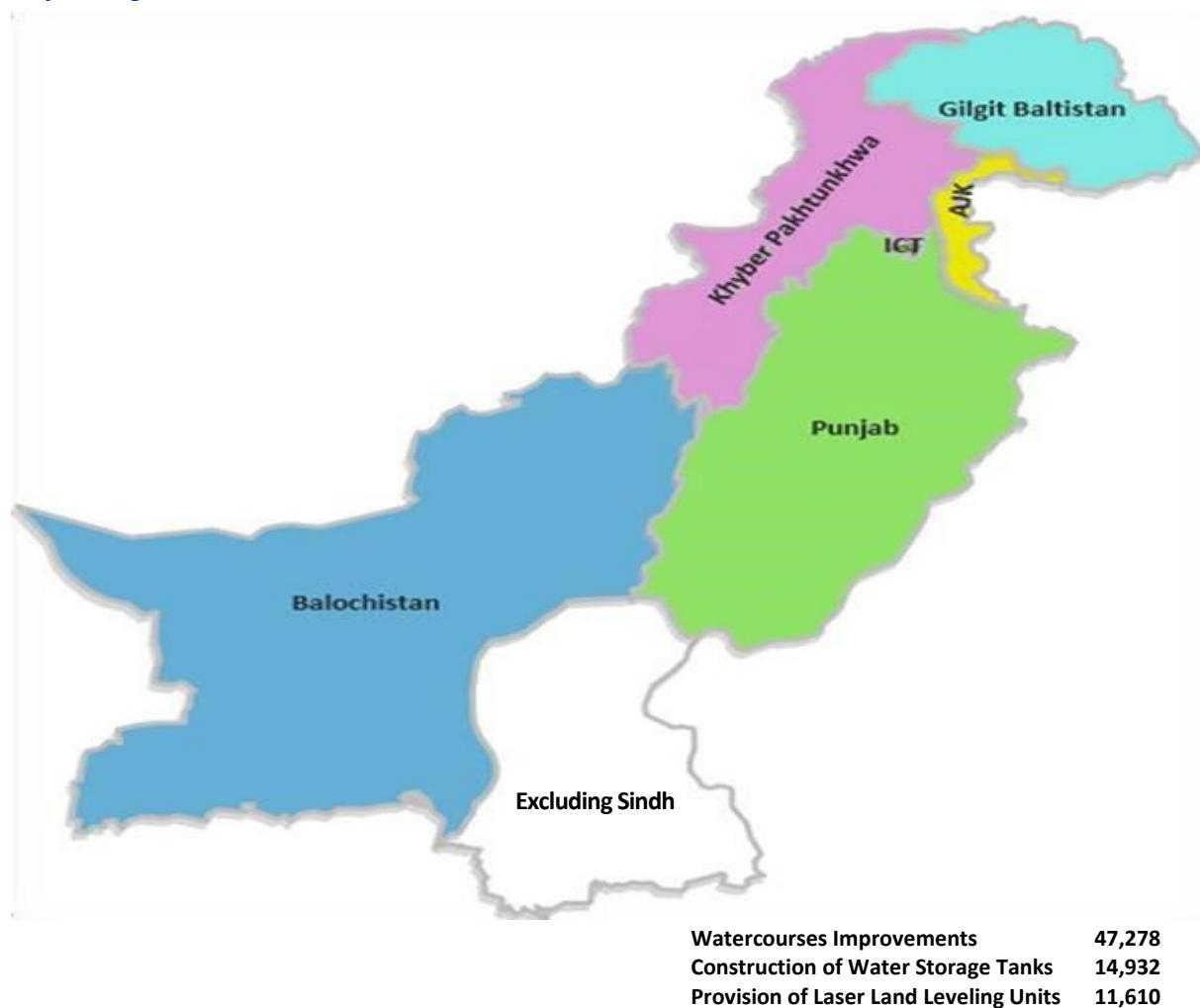


Figure 1.3: Location Map & Pakistan Targets

CHAPTER-2: SCOPE AND SERVICES OF ME&IE CONSULTANTS

2.1 INTRODUCTION

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

2.2 OBJECTIVES

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

2.3 SCOPE OF THE SERVICES

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

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

maintenance of watercourses, water storage tanks and laser land Levellers,

- 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 Levellers database, etc. (while the project staff will maintain the website),
- xi) Provide technical support for the development of a custom-designed mobile application (Android Based) to capture on-site project progress and geo-tagged photos. It should be synchronized with the central MIS/GIS database and application for instant reporting and feedback to the management. The said requirement is based on the following functional features:

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

custom define alerts levels and desired notifications.

2.4 MONITORING STRATEGY

The monitoring strategy planned to be followed by ME&IE Consultants is briefly described in the following **Table-2.1**. However, detailed methodology and procedures to carry out the Monitoring, Evaluations and Impact Evaluations of the project

interventions are explained in Chapter 6 of Inception Report. The strategy aims to be finalized and implemented in close coordination with the client and active participation of the beneficiaries as well as the project stakeholders.

Table 2.5: Monitoring Strategy for ME&IE Activities

Sr. No.	Monitoring Activity	ME&IE Team Responsible	Monitoring Strategy
1	Baseline, midline and endline surveys	Team Leader, Socio-Economic Expert, Agricultural Economist and Deputy Team Leader of respective province/unit.	<ul style="list-style-type: none"> Baseline and impact surveys will be carried out on sample basis. Data will be collected by field teams on pre-designed data collection tools through an android application on TABs. Baseline and impact surveys will be carried out in phases as target watercourses are not preselected. Baseline will be carried out before the intervention and the impact one year (two crop seasons) after the completion of the intervention. The midterm study will review the project progress at middle of the project implementation The endline study will assess the impact of the project interventions.
2	Reporting	All core team members	<p>Following periodic reports will be prepared and submitted:</p> <ul style="list-style-type: none"> Draft Inception Report 45 days after the agreement, Final Inception Report one week after the issuance of comments by the client on the draft, Monthly Monitoring Report on 10th of following month, Quarterly Monitoring Report on 10th of the first month of the following quarter, Annual Monitoring and Evaluation Report during first month of the following year, Baseline Survey Reports (in three phases), First Phase Baseline Survey report will be submitted within the four months after the start of the assignment i.e., Submission of final inception report/Beginning of field activities. Impact Survey Reports (in phases) – two months after the data collection completion for the impact phase, Midline report in the middle of the assignment, Endline Report at the end of Endline Survey, Draft Assignment Completion Report at completion of the physical works, Final Assignment Completion Report at completion of works and financial transactions. It will also include the full economic benefit of the project (NPIWC-II) on agriculture sector as well as on the GDP of Pakistan, Special Reports, as and when asked by the client.
3	Water saving assessment	Irrigation Agronomist, Field Team/ Engineers	<p>Water Saving on Watercourses:</p> <ul style="list-style-type: none"> Water flow will be measured on sample watercourses selected for the baseline and impact surveys The flow will be measured at four points of the selected watercourses: close to water outlet, head reach, middle reach and tail reach. The measurements will be done through current meters. 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 levelled: <ul style="list-style-type: none"> In how much time an acre was irrigated before watercourse improvement and land leveling In how much time an acre is irrigated after watercourse improvement with land leveling <p>The difference will be water saving due to laser land leveling</p>
			Based on water savings on sample LLL units, total water savings will be estimated for all project LLL units. The savings will be reported per LLL unit, per annum and aggregate for the project in LPS and in Acre feet.
4	Community mobilization	Social and Gender Specialist and Socio-Economic Expert	<p>The extent of community mobilization will be assessed by investigating whether:</p> <ul style="list-style-type: none"> WUAs is functional Holds regular meetings and keep record of them Makes decisions democratically The participation in the organization is voluntary It is financially and administratively sustainable Takes steps and ensures maintenance of watercourses, WSTs and laser land leveler
5	Economic benefits assessment for agriculture	Team Leader, Socio- Economist and Agricultural Economist	<ul style="list-style-type: none"> As indicated at serial No. 1, Agriculture data will be collected before (baseline) and after (impact) the watercourse improvement and WSTs construction. In both the surveys same forms will be used and same sampled farmers will be interviewed 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 benefit towards food security Project costs and benefits will be compared in economic and financial terms to carry out economic and financial analysis. Parameters like IRR, NPV and BCR will be estimated.
7	Impact evaluation-on the stakeholders	Team Leader, Agricultural Economist & Socio-Economic Expert	<ul style="list-style-type: none"> Analysis as in serial 6 will be carried out with reference to various stakeholders, like community, government, farmers, etc.
8	Spot checking	Team Leader, Deputy Team Leaders & Field teams/Engineers	During the field visits for WUAs baselines impacts of Watercourses, WSTs and laser 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.,	<ul style="list-style-type: none"> The process data for all the interventions will be fed to the MIS/GIS database.

		Project Consultants, ME&IE Consultants & ICT/Technology Specialist	<ul style="list-style-type: none"> Client's field staff and field teams of consultants will furnish data of their activities. The ME&IE will assist in developing mobile application for this purpose From this data reports will be generated for process monitoring All interventions will be fully (100%) covered.
10	Project website and MIS/GIS dashboard development	ICT / Technology Specialist (Including all other core team staff will also coordinate in completing data for the MIS/GIS	<ul style="list-style-type: none"> The State-of-the-art MIS / Progress Monitoring Model will be developed for NPIWC-II. Customized forms will be developed to collect data from the implementing teams on-site for progress monitoring These forms will be made available to the teams on smart phones through an android application The teams will be adequately trained to use the application Data on physical and financial stages with dates will be fed to the system for process monitoring GIS coordinates for watercourses, WSTs, laser units (if available) and WUAs offices will be uploaded to the system and could be viewed / reached by the management online The system will be maintained on GOOGLE server so that it is accessible by the management from anywhere in Pakistan and abroad Custom reports will be possible as the user demands / desires The results could be displayed on small as well as large screens.
11	Development of Android based application	ICT / Technology Specialist	All the data collection forms / tools will be executed through customized developed Android based applications accessible with smart phones / TABs.

2.5 FRAMEWORK AND RESULTS-BASED MONITORING (RBM) INDICATORS

The indicators were further enhanced and refined in consultation with the client as well as stakeholders. They will also get improved as the project implementation progresses as in the light of real and on the ground situations.

The log-frame of the project inputs, outputs, outcomes and impacts with ME&IE methodologies is placed at **Annex-C**.

CHAPTER-3: ANNUAL MONITORING AND EVALUATION REPORT

3.1 INTRODUCTION

Annual Monitoring & Evaluation Report (AM&ER) explains the understanding towards all activities to be carried out as per TORs of ME&IE assignment and their completion within stipulated time frame.

3.2 OBJECTIVE OF AM&E REPORT

The Main objective of Annual Monitoring and Evaluation Reports to update the Client about the activities carried out by the ME&IE Consultants during the reporting year. Reporting is an integral part of monitoring and evaluation framework.

3.3 REPORTING YEAR

This Third Annual Monitoring & Evaluation Report (AM&ER) covers the period from July 2022 to June 2023.

The Third Annual Monitoring & Evaluation Report (AM&ER) is prepared under the guidance and supervision of Mr. Saifullah Ejaz Chaudhry, Director G3 Engineering Consultants Authorized Representative of ME&IE Consultants. The following core team of NPIWC-II participated in the preparation of this Report:

National Office Core Team:

1. Dr. Muhammad Usman Mustafa, Team leader
2. Dr. Ikram Saeed, DTL (Islamabad) ICT&AJK
3. Mr. Rizwan Saleem, ICT/Technology Specialist
4. Dr. M. Islam, Irrigation Agronomist
5. Mrs. Munaza Bashir Tarar, Social & Gender Specialist
6. Mr. Waseem Ahmad Masood, FM Specialist

Deputy Team Leaders:

1. Mr. Muhammad Yousaf Bhatti, DTL (Lahore) Punjab
2. Dr. Humayun Khan DTL (Peshawar) KP&GB
3. Mr. Rizwan Ahmad, DTL (Quetta) Balochistan & his successor Mr. Manzoor Ahmad Kasi

The Report In-hand provides the progress made in various activities relating to the accomplishment of Monitoring activities of project interventions e.g., Improvement / Refinement of Monitoring Tools (MTs) in the light of lessons learnt in Baseline Survey-I and Comments received from Client on Report of Baseline Survey-I, Training of field staff and Key staff on Survey Manual of MTs and Android

Base System, Training of Measurement of water flow by Pygmy current meter, Regular Monitoring of Interventions in the field by ME&IE Field Teams, Baseline Survey-II field visits for data collation, Preparation for Impact Survey and Validation of Baseline Survey, Data collection of interventions in MIS/GIS database, Data Cleaning, data validation and analyses, Impact Survey field visits for data collation, Refinement NPIWC-II project Website, Implementation of Dashboard of Project Interventions etc. & Launching of Dashboard for Client Offices, Capacity Building Trainings / Refresher of OFWM Departments, Internal Meetings of ME&IE Consultants Zonal Offices for Methodology Baseline III Survey, Baseline Survey Report Phase-I (Final), Baseline Survey Report Phase-II (Draft), Midterm/Midline Impact Evaluation Report (Draft), Consolidation of Baseline Survey Ph-1&II Report, Consolidation of Impact Survey Report, Monthly and Quarterly Progress Reports.

This report also describes all activities to be carried out as per 3rd Year's Quarterly Tentative Work Plans.

CHAPTER-4: ENDEAVOUR / ACHIEVEMENTS DURING FY 2020-21

4.1 INTRODUCTION

Annual Monitoring & Evaluation Report (AM&ER) explains the extent of the activities pertaining to the improvement of Watercourses, construction of Water Storage Tanks, and provision of Laser Land Levellers that are being carried out during the year (July 2022 to June 2023) by the respective stakeholders including OFWM, NESPAK and Water Users Associations. Its monitoring and evaluation reporting task is entrusted to one of the ME&IE consultants, ICT-Unit, as a third party, who has been hired by the JVG3 (Pvt) Ltd., a multi-company joint partners group. The consultants are paying their ME&IE duties under the guidelines spelled out in the ToRs of the NPIWC-II project.

4.2 OBJECTIVE OF AM&ER

The main objective of the Annual Monitoring and Evaluation Report (AM&ER) is to update the Client about the activities carried out by the ME&IE Consultants during the reporting year. Reporting is an integral part of the monitoring and evaluation framework.

4.3 PROJECT COMPONENTS IMPLEMENTATION STATUS

The following Table 4.1 shows the comparison between Cumulative targets as per PC-1 of financial years 2019-20 and 2020-21 versus revised targets by the OFWM, which shows large numbers of interventions were reduced during these years.

Table 4.6: Project Components Implementation Status

Interventions	Punjab			KP			Balochistan			GB			AJ&K			ICT			National (Overall)		
	Target (no.)	Achievements (no.)	Progress (%)age)	Target (no.)	Achievements (no.)	Progress (%)age)	Target (no.)	Achievements (no.)	Progress (%)age)	Target (no.)	Achievements (no.)	Progress (%)age)	Target (no.)	Achievements (no.)	Progress (%)age)	Target (no.)	Achievements (no.)	Progress (%)age)	Target (no.)	Achievements (no.)	Progress (%)age)
WCs	7,600	4,063	53.50	11,200	3,187	28.50	17,600	5202	29.6	1998	809	40.5	939	482	51.33	173	34	19.7	39510	13777	34.9
WSTs	2,300	1,021	44.40	4,450	1,188	26.70	4370	2499	57.2	657	328	49.92	480	354	73.75	0	0	0	12257	5390	43.97
LLs	8,100	5,844	72.14	600	50	8.33	1350	34	2.52	5	0	0	5	0	0	0	0	0	10060	5928	58.93

4.4 REPORTING ANNUAL ACTIVITIES OF THE ICT -UNIT

The third Annual Monitoring and Evaluation report covers the period from 1st July 2022 to 30th June 2023. This Report provides the progress made in various activities related to the accomplishments of Monitoring and Evaluation activities of the project interventions via the means of Field Surveys of Baselines, regular monitoring and, spot checking in respect of the targeted schemes/interventions. This report describes the ME&IE activities to be carried out as per the Annual work plan:

- Completed the sampled targets of Baseline-II and Midline/ Impact survey in field areas of

ICT, Mirpur, Muzaffarabad, Bhimber, and Chakwal throughout the reporting period.

- Conducted field visits for case studies of different interventions, as well as drafted reports including Watercourses and Water Storage Tanks.
- Laser Land Leveler's data along with the videos were collected by the teams from the Zones of Balochistan, KP, and Punjab; the same was handed in by the ICT-Team to the ICT-Unit ME&IE consultants for the purpose of compilation and data bank management for parking under the custody of ICT-Team-Dashboard uses.
- Capacity building of Field Officers/ME&IE consultants in diversified areas related to M&E

as well as the development of project management through means of classroom training sessions as well as hands-on skill development workshops.

- v. Case study with respect to Social and Gender component prepared by the Social & Gender Specialist.
- vi. Held regular meetings with the client/cooperating department as well as in-house professionals.
- vii. Contributed to the preparation and professional editing/vetting of the ICT-Unit as well as integrated MMR reports comprising I zones at the end of each month (i.e., 12 MMRs).
- viii. Contributed to the preparation and editing/vetting of ICT-Unit as well as integrated
- ix. QMER reports at the end of every third month viz., four Quarterly reports prepared and submitted to the quarter concerned for further necessary action.
- x. Looked after and supported the administration. Financial Management duties manned under the charter of Team Leader and Deputy Team Leader of the ICT-Zone along with the National Office, Islamabad.

Monitoring of Interventions in the Field

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

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

4.5 ACTIVITIES COMPLETED BY ICT-UNIT (2022-2023)

Introduction

Annual Monitoring & Evaluation Report (AM&ER) explains the extent of the activities pertaining to the improvement of Watercourses, construction of

Water Storage Tanks, and provision of Laser Land Levellers that are being carried out during the year (July 2022 to June 2023) by the respective stakeholders including OFWM, NESPAK and Water Users Associations. Its monitoring and evaluation reporting task is entrusted to one of the ME&IE consultants, ICT-Unit, as a third party, who has been hired by the JV of G3 (Pvt) Ltd., a multi-company joint partners group. The consultants are paying their ME&IE duties under the guidelines spelled out in the ToRs of the NPIWC-II project.

Reporting Annual Activities of the ICT -Unit

The third Annual Monitoring and Evaluation report covers the period from 1st July 2022 to 30th June 2023.

This Report provides the progress made in various activities related to the accomplishments of Monitoring and Evaluation activities of the project interventions via the means of Field Surveys of Baselines, regular monitoring and spot checking in respect of the targeted schemes/ interventions. This report describes the ME&IE activities to be carried out as per the Annual work plan:

- i. Completed the sampled targets of Baseline-II and Midline/ Impact survey in field areas of ICT, and AJK throughout the reporting period.
- ii. Conducted field visits for case studies of different interventions, as well as drafted reports including Watercourses and Water Storage Tanks. Laser Land Leveller's data along with the videos were collected by the teams from the Zones of Balochistan, KP, and Punjab; the same was handed in by the ICT-Team to the ICT-Unit ME&IE consultants for the purpose of compilation and data bank management for parking under the custody of ICT-Team-Dashboard uses.
- iii. Capacity building of Field Officers/ME&IE consultants in diversified areas related to M&E as well as the development of project management through means of classroom training sessions as well as hands-on skill development workshops.
- iv. Case study with respect to Social and Gender component prepared by the Social & Gender Specialist.
- v. Held regular meetings with the client/cooperating department as well as in-house professionals.
- vi. Contributed to the preparation and professional editing/vetting of the ICT-Unit as well as integrated MMR reports comprising I zones at the end of each month (i.e., 12 MMRs).
- vii. Contributed to the preparation and editing/vetting of ICT-Unit as well as integrated

- viii. QMER reports at the end of every third month viz, four Quarterly reports prepared and submitted to the quarter concerned for further necessary action.
- ix. Looked after and supported the admin and financial duties manned under the charter of Team Leader and Deputy Team Leader of the ICT-Zone along with the National Office, Islamabad.

4.5.1 Progress of ME&IE Consultants Islamabad to Date

Overall Progress:

From the Inception of the project till the reporting period the ME&IE Consultants, Islamabad had carried out Baseline field visits of 43 Watercourses 18 WSTs and Impact field visits of 23 watercourses and 13 WSTs in ICT & AJK regions. Regular monitoring and spot-checking of watercourses and water storage tanks were conducted from time to time by the monitoring team. A summary of the overall progress/ number of visits of different activities is given in **Annexure-E-I**.



Visit of NARC-PATCO Office, Islamabad

ME&IE consultants of ICT-Zone have completed their targets of Baseline-I and Baseline-II. The impact/ midline survey for Baseline-I has also been completed. The consultants had prepared the draft and submitted the Midline Impact Evaluation report to the client against the completed baselines including first and partly second with the criterion which interventions had completed at least two crop seasons at the point in time of arresting the middle of the project. In accomplishing the midline impact evaluation report, the ME&IE consultants remained busy from all zones/ units including the ICT-Zone of the project.

Table 7: Salient Findings' log with respect to Gender Folks Before and After Interventions of the Project in the Sample Targeted Areas

S.#	Before Intervention	Change after Intervention
1	Insufficient water for crops and less yield. The farmers were making very less profit	The community received sufficient water for crops and now yield has increased.
2	Below-poverty families were unemployed. No opportunity for work as a labor.	Below-average poverty laborers got the opportunity to work on farms, and landlords provided them shelter.
3	Most females have to travel for more than an hour for collection of domestic water. Women faced health issues due to traveling with water containers.	Now time is saved and there is no need to travel for longer distances. The water course is near their home.
4	Azad Kashmir does not receive as much rainfall as the Punjab province, which results in the soil remaining infertile.	The water issue was resolved and now yield increased. The crop yield has increased.
5	They were spending a lot of money on purchasing vegetables, crops, and dairy products from the market.	Now they are using their own crops and vegetables from their own farm which are fresh and healthy. It saves a lot of their money as well as time.
6	Females were doing kitchen gardening on the home level only.	Now female members are practically engaged in both personal and professional kitchen gardening.
7	Multi-cropping	Several seasonal vegetables like okra, kurram saag (Hybrid Sarsong), and onions are cultivated.
8	Less to no knowledge of agriculture equipment	Agriculture knowledge improved. Farming efforts are simpler and more profitable. Most farming activities are done by machine, which saves time.
9	Difficulties in less fodder production	Now they do fodder production to keep livestock on their farm. They are producing professional dairy farms activities.
10	No cultivation of rice crops because this crop required more water as compared to other crops.	Now they have sufficient water for the rice crops. The requirement of water is fulfilled which results in a high yield.
11	Before WUAs were not formed.	WUAs (Male) are very active so there is a reduction in water-related disputes.
13	The electricity bill cost very high	Reduction in electricity bills.

4.5.2 Training & Capacity Building of ME&IE Consultants ICT Unit:

Training workshops for capacity building of ME&IE Consultants were held throughout the year. Few details are mentioned below:

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

Training Objectives:

This training/refresher on the job was held to enable the participants to improve the Android based data collection for Baseline, Impact and Monitoring Surveys.



Training on "Report writing of development projects"

- Survey Methodology
- Issues/Problems at Province Level
- Presentation of Monitoring Tools
- Farming practices and input data
- Planning of 2022-23
- Android Application and Digital Forms



Field visit and water flow measurement through Pygmy Meter at NARC Farm, Islamabad

- Discussion of hurdles, issues, data monitoring, validation checks
- Annual Work plan and Budget
- Field visit along all participants

- Water Flow Measurement through Pygmy Meter
- Discussion session, field experience and hurdles
- Meeting of TL, DTLs and Core Team Members on planning for next quarter and discussion of management issues.
- Field Data Validations

Three Days Training on "Report writing of Development Projects"

Training Objectives:

- Workshop introduction
- Report writing skills introduction.
- Significance of report writing in development projects.
- Common challenges in report writing and their resources.
- Significance of proposal writing.
- Proposal writing for development project.
- Professional report writing at different phases in a development project cycle.



Dr. Usman Mustafa Lecturing on RBM

Two days training on "GENDER MAINSTREAMING"

Training objectives:

- Waves of feminism and evolution of gender rights.
- Gender and health.
- Gender mainstreaming on organization.
- Gender perspective and problem analysis.
- Role of leadership for gender mainstreaming.

Four days Training (Online) on "Empowering women Geospatial Information Technology"

Field team ICT-Unit has attended the four days online training session from 13th June to 16th June 2023.

The session was organized by International Center for Integrated Mountain Development (ICIMOD) within the framework of the SERVIR-HKH (Hindu Kush Himaliya), the Initiative Supported by the

United State Agency for International Development (USAID), and the National Aeronautics and Space Administration (NASA).

Five days Training Course on “Planning and Management for Development Projects”

Training objectives:

- Understanding Different Approaches of Development Planning & Projects,
- Consideration for Selecting a Development Approach: Product, Project and Organizational Consideration,
- Setting a project design through need identification approaches,
- The Project Cycle Management:
- Different phases of project cycle,
- Role of the project Management Office,
- Project Monitoring and Evaluation through Logical Framework Analysis,
- Project Monitoring and Evaluation System (PMES),
- Understanding project management disciplines,
- Managing project finances, budget and supply chain,
- Risk Management and Project Stakeholder Management



Training Course on “Planning and Management for Development Projects” at PPMI, Islamabad

4.5.3 Meetings/Coordination ICT-Unit

Meeting with OFWM Officer Mirpur, AJK:

Date	15-11-2022
Venue	Office of Assistant Director of Agriculture (OFWM) Kallar Kahar
Participants	
1: Mr. Qaisar Mehmood Assistant Director OFWM Agri. Kallar Kahar. 2: Mr. Rasheed Zehri Field team Incharge Islamabad. 3: Ms. Syeda Sana Gull ME & IE Officer, Islamabad. 4: Ms. Hafiza Maryam Iqbal ME & IE Officers, Islamabad. 5: Ms. Abida Munir Social Gender and Specialist (Punjab)	

Meeting Agenda/Points discussed:

- Briefing of ME & IE Consultants in Rawalpindi Division
- Collection of basic data on WSTs and guideline for visiting sites of WSTs
- The OFWM office guided well and accompanied ME&IE consultants' team in concerned sites during their visits



Meeting with Assistant Director and field supervisor of OFWM Agri. Kallar Kahar Regarding the Impact Survey of WST

Date	26-12-2022
Venue	Office of Assistant Director of Agriculture (OFWM) Mirpur
Participants	
1: Mr. Muhammad Ali Assistant water management officer. 2: Mr. Rasheed Zehri Field team Incharge Islamabad. 3: Ms. Hafiza Maryam Iqbal ME & IE Officers, Islamabad. 4: Ms. Abida Munir Social Gender and Specialist (Punjab)	

Meeting Agenda/Points discussed:

- Briefing of ME & IE Consultants in AJK division
- Collection of basic data on WCs and guideline for visiting sites of WSTs
- The OFWM office guided well and accompanied ME&IE consultants' team in concerned sites during their visits



Meeting with Water management officer Mirpur, regarding the Impact Survey of WC

Meetings/Coordination ICT-Unit

Date	23-01-2023
Venue	Office of Assistant Director Agriculture OFWM Kallar Kahar
Participants	
<ul style="list-style-type: none"> Qaiser Mehmood, A.D Agriculture OFWM. M. Yaseen field engineer. Dr. Ikram, DTL, ME&IE consultants (NPIWC-II). Mr. Rasheed Zehri Field team Incharge ICT. Ms. Hafiza Maryam Iqbal ME & IE Officer ICT. Ms. Sana Gull, ME& IE Officer ICT. 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> Briefing of ME & IE Consultants in AJK. Collection of basic data on WC/WST and guideline for visiting the sites. The OFWM office guided well and accompanied ME&IE consultants' team in concerned sites during their visits 	
 <p>ME&IE consultants meeting with Assistant Director Agriculture OFWM Kallar Kahar.</p>	



Date	24-01-2023
Venue	Office of small dams and irrigation Mirpur.
Participants	
<ol style="list-style-type: none"> Javed Qamar, D.D small dams& irrigation Mirpur. M. Ali, A.D Small dams & Irrigation Mirpur. Dr. Usman Mustafa, TL, ME&IE consultants (NPIWC-II). Mr. Rasheed Zehri Field team Incharge ICT. Ms. Hafiza Maryam Iqbal ME & IE Officer ICT. Ms. Abida Munir, S&G specialist. 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> Briefing of ME & IE Consultants in AJK. Collection of basic data on WC/WST and guideline for visiting the sites. The OFWM office guided well and accompanied ME&IE consultants' team in concerned sites during their visits 	

Date	16-05-2023
Venue	National Office, Islamabad
Participants	
<ol style="list-style-type: none"> Dr. Ikram Saeed, DTL, ICT- Zone Mr. Rasheed Ahmed Zehri, FTI, ICT Ms. Sana Gull, ME & IE Officer, ICT. Ms. Hafiza Maryam Iqbal, ME & IE Officer, ICT. Mr. Amir Habeeb, admin manager, National office. 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> Discussion on financial support for field visits. Discussion on field visit plan for four main purposes: <ul style="list-style-type: none"> Baseline-III Regular Monitoring Spot Checks, and Potential Case Studies Opportunity Sampling of watercourses and water storage tanks for Baseline-III survey. Revisiting field visit estimates in accordance to the site of the prospective scheme as well as manpower strength employed to conduct the field surveys. Project Progress Review meetings and development of strategies to overcome the hindrances in the way of smooth running of the targeted project targets, etc. 	



Date	13-06-2023
Venue	National Office, Islamabad
Participants	
1.	Dr Usman Mustafa, TL, ICT-Zone
2.	Dr. Ikram Saeed, DTL, ICT- Zone
3.	Mr. Rasheed Ahmed Zehri, FTI, ICT
4.	Ms. Sana Gull, ME & IE Officer, ICT.
5.	Ms. Hafiza Maryam Iqbal, ME & IE Officer, ICT.
6.	Ms. Abida Munir, S&GS, ICT.
7.	Mr. Waseem, assistant admin manager, National office.
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> Discussion on financial support for field visits. Discussion on field visit plan for <ul style="list-style-type: none"> four main purposes: Baseline-III Regular Monitoring Spot Checks, and Potential Case Studies Opportunity Sampling of watercourses and water storage tanks for Baseline-III survey. Revisiting field visit estimates in accordance to the site of the prospective scheme as well as manpower strength employed to conduct the field surveys. Project Progress Review meetings and development of strategies to overcome the hindrances in the way of smooth running of the targeted project targets, etc. 	

3. Ms. Hafiza Maryam Iqbal, ME & IE Officers, Islamabad.

Meeting Agenda/Points discussed:

- Discussion on field visit plan for four main purposes:
 - Baseline-III
 - Regular Monitoring
 - Spot Checks, and
 - Potential Case Studies
- Opportunity Sampling of watercourses and water storage tanks for Baseline-III survey.
- Revisiting field visit estimates in accordance to the site of the prospective scheme as well as manpower strength employed to conduct the field surveys.
- Project Progress Review meetings and development of strategies to overcome the hindrances in the way of smooth running of the targeted project targets, etc.



One Sample Shot Proceeds of the ME&IE Consultants' Meeting in the National Office, Islamabad



ME&IE Consultants and Admin. & Finance Meeting in the National Office, Islamabad

Date	12-04-2023
Venue	National Office, Islamabad
Participants	
1.	Dr. Ikram Saeed, DTL, ICT- Zone
2.	Ms. Sana Gull, ME & IE Officer, Islamabad.

4.5.4 Key Challenges & Mitigation Measures Adopted:

Limitations:

Field visits were not followed as per se scheduled plans and were postponed mainly due to following limitations:

- ✓ availability of limited funds for meeting the field survey expenses, and
- ✓ Non accessibility to the finished list of sampling frame.

Suggestions:

- Required on time availability of the advances to make up the scheduled field survey trip,
- Sample size determination need the availability of listing of the potential population (i.e., sampling frame) for gathering the representative information about the targeted interventions viz., WCs and WSTs as well as LLLs,

- c) First aid box, and basic necessities like, umbrella, water with cooler must be in the access of the field team while travelling to the field for gather project related information to address any risky and uncertainty upcoming incidences,
- d) Provision of Tablet to each invigilator will enhance the efficiency and efficacy of the information gathering thus, it may be provided at least 2-3 days prior to the targeted visits, and
- e) All the field team members may be provided official identity cards to prove their identity when and where needed for smooth running of the targeted activities of the schemes exhibited in the project.

4.6 ACTIVITIES COMPLETED PUNJAB ZONE (2022-2023)

The Punjab zonal office was shifted as per the decision of the NPC, in a meeting held on June 23, 2022, to the new premises 10-B, Government Employee Cooperative Housing Society, Model Town Link Road, Lahore, on October 10, 2022. This shifting was to facilitate the office activities in a relatively smoother way.



During the period under the review, the ME&IE consultant's performance and field activities were related to the usual assignments, such as,

- i. Pre - Field Activities
- ii. Field Activities
- iii. Post Field Activities
- iv. Coordination/Meetings with the Stakeholders/Beneficiaries
- v. Other Assignments relevant to the project

4.6.1 Pre- Field Activity

Prior to field visit an intensive training was offered to the field staff in a zonal office Punjab as well in National office. The training related to the understanding of Monitoring Tools, data collection technique, data submission and mock exercise.

4.6.2 Field Activities

Field activities covering the field visits for Monitoring, Baseline survey and Impact Evaluation of the project interventions viz a viz

- i. Improvement of Watercourses (WCs)
- ii. Construction of Water Storage Tanks /Ponds (WSTs/P)
- iii. Provision of Laser Land Leveler (LLLs) Units
- iv. Site visits of allied industries

Detailed descriptions of some of the interventions are shown in glimpses at the end of findings of the respective intervention.

4.6.3 Post Field Activities

The ME&IE Consultant's team remained busy with the data Collection/Validation of the data of the last years about the project interventions.

The data were reviewed for submission to the PMIS -Dashboard. Basic data of the various interventions from the field were collected, from various districts, for the purpose of identification for the intervention site, and collection of the data from beneficiaries was used during the field visits.

Overall Progress about the Field Activities During the Year

4.6.4 Improvement of Watercourses

Findings of the field visits for monitoring of Watercourses are as under:

Monitoring

Water User Association WUAs on each watercourse were either reactivated or newly established. Such associations are on the basis of perception of the farmers/beneficiaries.

- i. Slope of watercourse was as per the design
- ii. Naccas installed as per standard specification
- iii. Behavior of OFWM staff with farmers was supportive/friendly
- iv. Cleaning of watercourse particularly weeds was easy
- v. Segment were installed as per the design

Baseline Survey

Main Findings of the Baseline Survey were

- i. Seepage of water under the kaccha watercourse was 10 to 12 % as per perception of the farmers.
- ii. On kaccha watercourse the cleaning of watercourse particular weed were removed 8 to 10 times per year.

- iii. Time consumed to irrigated one acre was 4 to 5 Hours on the average
- iv. Water flow were slow and it has nominal accessibility at tail
- v. Ground water quality was generally fit for irrigation
- vi. Major crops at these watercourses were Wheat, Gram, Cotton, Fodder (Rabi & Kharif) under Maize Berseem and Sorghum
- vii. Land Rent at the tail of the WC was about Rs 30,000 to 40,000 per acre
- viii. The average yield of wheat was around 32 maunds per acre.
- ix. There was nominal water logging and salinity observed at the site during field visits

Impact of the Study

A significant Impact was perceived as given below:

- i. There was no significant change in water logging and salinity
- ii. After the improvement of watercourse weeds, cleaning of the watercourse was reduced significantly 2 to 4 times.
- iii. No major change in cropping pattern was observed except in the Southern districts of Punjab zone the area under Maize crop was likely to increase.
- iv. After improvement of watercourse yield of wheat was recorded to 38 maunds per acre.
- v. The yield of various other crops was increased by 5% to 18 % per acre.
- vi. Cumulative impact of watercourse improvement is reflected in overall total production
- vii. Increase in water flow up to 25 to 30%
- viii. Land rent has increased more than 3,50,000 per acre on the tail of the watercourse.

4.6.5 Construction of Water Storage Tanks/Ponds

Detailed description of some of the construction of Water Storage Tanks/Ponds visited are given in **Annexure E-I**, after the findings of the intervention as under

Monitoring

During the field visit, observations regarding monitoring were illustrated as below:

- i. On an overall basis 92% of WST had been completed as per approved standards and specification
- ii. WST had multiple sources of irrigation and the most common was tube wells

- iii. WST located on even surfaces is 80%, 15% on uneven surfaces and, 5% on sloped surfaces
- iv. Overall spot-checked WST 40% were regular and 60% were square in shape
- v. The condition of the Geo membrane used in the construction of WST was satisfactory on an overall basis
- vi. For the construction of brickwork tanks, the compaction was good for the preparation of the WST bed.
- vii. The new trees against the cutting of previous trees on the location of WST were planted as per the recommendation.

Baseline

The findings of the baseline survey were

- i. Before the construction of WST overall 70% land was even
- ii. Application attended by OFWM staff promptly as reported by 85% of the respondents
- iii. The survey and the design process were 80% on the fast track and 20% was lengthy
- iv. Farmers perception regarding the maintenance of WST was 82% easy
- v. Land irrigation before the construction of WST was calculated as 50%

Impact

The following impact was assessed:

- i. The WST construction impact on crop yield per acre averaging 20% on an overall basis
- ii. The cropping intensity has increased by 25% due the construction of WST.
- iii. The impact of WST on labor employment has been increased up to 25% due to the increase in crop area and crop yield
- iv. The cumulative impact of WST is reflected in the total production of various crops about 35%

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

Regular coordination/Meetings with stakeholders were necessary to have close linkage with them, Stakeholders included:

- National Project Coordinator Islamabad Meeting in DG Office Lahore
- D.G (Agriculture) OFWM/Focal Person in D.G office, Lahore
- D.G Agriculture South Multan

- Office of Directors/Deputy Director/Assistant Director in various directorate of (Agri) OFWM Province

The main objective of such meetings was to get up-to-dated field information, basic data on the concerned intervention, and identification of the intervention site prior to physical meetings in the field offices telephonic conversations were also made. Detail of few important meetings are given below.

1. Meeting with the National Project Coordinator and Director General OFWM office

Date	October 18, 2022
Venue	Director General OFWM Office Davis Road, Lahore
Participants:	
1.	Mr. Muhammad Asif Kakar, National Project Coordinator (FPMU) Islamabad
2.	Dr. Saif ul Islam Deputy, National Project Coordinator (FPMU) Islamabad
i.	Malik Muhammad Akram, Director General (Agri) OFWM Punjab Lahore
ii.	Mr. Hafiz Qaiser Yasin, Director Headquarters OFWM Lahore
iii.	Mr. Tahir Mehmood, Deputy Director Headquarter OFWM Lahore
iv.	Dr. Muhammad Maqsood, Director Lahore Division OFWM
v.	Dr. Ali Raza, Team Leader NWM Consultant
vi.	Tariq Khan, Deputy Team Leader NWM Consultant
vii.	Mr. M. Yousaf Bhatti, Deputy Team Leader Punjab ME&IE Consultants
viii.	Dr. Abdul Quddus, Agricultural Economist ME&IE Consultants
ix.	Mr. Awais Jahangeer, Focal Person to DG office ME&IE Consultants
Discussion/Decision	
i.	Director General Briefed on activities of the directorate with special reference to the NPIWC – II which were appreciated by NPC.
ii.	ME&IE Consultants were directed to report and coordinate with D.G office.
iii.	All the stakeholders were supposed to provide necessary data to each other for the purpose of smooth operation of the project



A view of Meeting with DGA OFWM office

2. Visit along with NPC and OFWM Officers

Date of Visit	18-10-2022
Name of Yard	Al Wahab Engineering Works
Name of Owner	Engr. Jawad A. Javed
Year of Yard Established	2020
Tehsil	Lahore City
District	Lahore
Daily Segment Producing Capacity (No.)	180
Annually Segment Production Capacity (No.)	40000
Employment Generation No.	20



Yard Engineers briefing on the quality of PCPs

3. Handing over a LLL Unit to a service provider



Dr. Maqsood and Director training institute briefing to Mr. Asif Kakar NPC Coordinator about the Ongoing Training to Service Providers Mr. Muhammad Yousaf Bhatti ME&IE Consultants was also present.

Observations

Mr. Muhammad Asif Kakar appreciated the efforts of the Director, OFWM training institute in carrying out smooth activities. The service provider was a small farmer. Mr. Muhammad Asif Kakar advised him, to work hard and act as a role model in levelling the land of his fellow farmers.

4. Visit to the training center of OFWM

Date of Visit	18-10-2022
Venue	OFWM Training Institute, Lahore
Owner of LLL	Tanveer Asad
Village	Pathana
Tehsil	Lahore Cantt
District	Lahore
Year of Allotment	2021 - 22



View of handing over ceremony of Laser Land Leveler to the service provider by NPC, Dr. Muhammad Asif Kakar at OFWM training institute Lahore.

- NPC Mr. Asif Kakar visited the Training Center and talked to farmers during the 4 Days ongoing training of service provider of Laser Land Leveler who came from Various Districts of Punjab.
- It was observed that the OFWM training team was providing the best training environment; a good learning process and facilities were excellent Mr. Asif Kakar appreciated these.
- Feed from the farmers was outstanding and they were looking forward to this kind of training for their capacity building at the nearest places to their residential districts.

5. MEETINGS OF ME&IE CONSULTANTS WITH DIRECTOR (H.Q) Directorate General of Agriculture (OFWM) Lahore

Date	August 25 ,2022
Venue	Director General OFWM Office Davis Road, Lahore

Participants:

- Hafiza Yasin Qaiser Director (H.Q) D.G Office Lahore.
- Mr. Tariq Mehmood Agronomist D.G Office Lahore.
- Mr. Matlloob Elahi Deputy Project Director Watercourses D.G Office Lahore.
- Mr. Muhammad Yousaf Bhatti Deputy Team Leader, ME&IE Consultants Lahore.
- Mr. Muhammad Rizwan Suleman, Field Team In-charge (Subzone-2) ME&IE Consultants Lahore.

Meeting Agenda:

- Briefing on ME & IE Consultants Annual Report 2021-22.
- Discussion on targets / achievements of various interventions in Punjab during 2021-22
- Review of field activities under recent changes in climate in the field during 2022-23.



A View of the Meeting held in D.G. Office Lahore.

6. Meeting Held with Director General Agriculture (OFWM)

Date	November 02 ,2022
Venue	Director General OFWM Office Davis Road, Lahore

Participants:

- Malik Muhammad Akram Director General Agriculture OFWM
- Mr. Muhammad Yousaf Bhatti Deputy Team Leader Punjab ME&IE Consultants
- Dr. Abdul Quddus Agricultural Economist ME&IE Consultants
- Mr. Awais Jahangeer Focal Person to DG office ME&IE Consultants

Discussion/Decision

- DGA OFWM emphasized the role & importance of ME&IE Consultants in the project and asked for strong coordination among allied departments & ME&IE Consultants.
- DGA OFWM asked for efficient monitoring of the scheme under construction in the best interest of the project.
- DTL Punjab ME&IE Consultants proposed the

study on backward linkages in the project to show the employment generation & support to industrial resources DGA OFWM agreed on this matter and allowed to visit segments yards and manufacture/supplier's laser land leveler units.

iv. Focal Person to DG Office ME&IE Consultants discussed the mechanism of Data provision of completed schemes for PMIS Dashboard, Data Integration on the dashboard, and the way forward for real-time monitoring & data provision from the field for the dashboard. DGA OFWM ensured the completed facilitation by the allied department on the matter.

v. The Forum unanimously decided to have a fortnightly meeting under the chairmanship of DGA OFWM to review the progress & way forward for better coordination and execution work plan to meet the objectives of the project. Need basis meetings can be conducted also if needed.



Meeting held with DGA (OFWM) Malik Muhammad Akram ME&IE consultants sharing the previous performance & way forward in Punjab.

7. Meeting Held with Director General Agri (OFWM)

Date	October 4, 2022
Venue	Director General OFWM Office Davis Road, Lahore
Participants:	
i.	Mr. Hafiz Qaiser Yasin Director Headquarters OFWM
ii.	Mr. Tahir Mehmood Deputy Director Headquarter OFWM
iii.	Mr. Muhammad Rafi System Analyst OFWM
iv.	Mr. M. Yousaf Bhatti Deputy Team Leader Punjab ME&IE Consultants
v.	Mr. Awais Jahangeer Focal Person to DG office ME&IE Consultants
Discussion/Decision	
i.	Implementation of Dashboard and various Constraints were Discussed
ii.	It was decided to propose some way forward for the Provision of Data of

completed schemes in Punjab for PMIS Dashboard

iii. Targets of OFWM for each intervention during 2022-23 were discussed and OFWM will provide within a week to ME&IE Consultants

iv. ME & IE Consultants proposed the meeting under the chairmanship of DGA (OFWM) to address all the matters, particularly data collection from the field on ongoing activities.



A View of the meeting held in D.G (Agri) OFWM Directorate General (Headquarter)

8. Meeting Held with Director (H.Q) Agri OFWM Office Davis Road, Lahore

Date	November 17, 2022
Venue	Director (H.Q) Agri OFWM Office Davis Road, Lahore
Participants:	
i.	Hafiz Qaiser Yasin Director Headquarter OFWM
ii.	Mr. Tahir Mehmood Deputy Director Headquarter
iii.	Mr. Muhammad Yousaf Bhatti Deputy Team Leader Punjab ME&IE Consultants
iv.	Mr. Awais Jahangeer Focal Person to DG office ME&IE Consultants
Discussion/Decision	
i.	DTL Punjab asked for the district-wise targets of OFWM for the year 2022-23 to start the baseline survey phase-3. Director's Headquarters responded on the matter that targets couldn't be finalized yet due to budget constraints. These will be shared as are finalized.
ii.	DTL Punjab discussed the contents of the tentative Midline Report of Project progress. The Director (H.Q.) ensured to provide the relevant data in this regard.
iii.	The Focal Person to the DG Office discussed the method of data collection for the PMIS Dashboard of completed intervention at the divisional level. Director Headquarters assured his complete support and it decided

the ME&IE Consultants team would start data collection from the Lahore division.



A view of meeting of ME&IE Consultants with Director (H.Q) D.G Directorate (OFWM) Lahore.

9. Meeting Held with Director HQ

Date	November 27, 2022
Venue	Director (Agri) OFWM Lahore Division
Participants:	
i.	Dr. Muhammad Maqsood Director (Agri) OFWM Lahore
ii.	Muhammad Yousaf Bhatti Deputy Team Leader Punjab ME&IE Consultants
iii.	Mr. Awais Jahangeer Field Team in Charge ME&IE Consultants Punjab zonal office Lahore
iv.	M. Rizwan Suleman Field Team in Charge II ME&IE Consultants Punjab zonal office Lahore

Discussion/Decision

- i. Procedure for PMIS Dashboard. He assured his complete cooperation in this matter with consultants Punjab Zonal Office Lahore
- ii. It Was decided to provide the data either to Director (Agri) Lahore officers or ME&IE Consultants, Punjab Zonal Office Lahore.
- iii. The Data already discussed with consultants, will be submitted to the Director (Agri) for Further validation at the OFWM end



Meeting held at Director (Agri). OFWM, Lahore

10. Meeting Held with Director HQ OFWM Lahore

Date	October 5, 2022
Venue	Director General OFWM Office Davis Road, Lahore
Participants:	
i.	Mr. Hafiz Qaiser Yasin Director Headquarter Lahore Director General OFWM
ii.	Mr. Tahir Mehmood Deputy Director Headquarter Lahore Director General OFWM
iii.	Mr. Muhammad Rafi System Analyst OFWM
iv.	Mr. M. Yousaf Bhatti Deputy Team Leader Punjab ME&IE Consultants
v.	Mr. Rizwan Saleem ICT Specialist ME&IE Consultants
vi.	Mr. Awais Jahangeer Focal Person to DG office ME&IE Consultants
vii.	Mr. Bilal Sohail Field Team Engineer ME&IE Consultants

Discussion/Decision

- i. Presentation on PMIS Dashboard given by ICT Specialist Mr. Razwan Saleem the OFWM Officers asked about region access This was agreed by ME&IE consultants to provide two logins within the next few days.
- ii. Director's Headquarters responded to a question of ICT Specialist that the provision of data is the prime responsibility of project consultants as decided by D.G OFWM in previous meetings.
- iii. It was proposed that ME&IE consultants will provide the teams voluntarily to enter the data if the allied department provides all intervention files in one place be at the Divisional Level.



A view of meeeting held with Director General OFWM (Headquarter)

11. Meeting Held with Director HQ OFWM Lahore

Date	January 02, 2023
Venue	Director General OFWM Office Davis Road, Lahore

<p>Participants:</p> <ol style="list-style-type: none"> i. Mr. Tahir Mehmood Focal Person of DGA OFWM/ DDA Headquarters OFWM ii. Mr. Muhammad Rafi System Analyst OFWM iii. Mr. Muhammad Yousaf Bhatti Deputy Team Leader Punjab ME&IE Consultants iv. Mr. Rizwan Saleem ICT Specialist ME&IE Consultants v. Mr. Awais Jahangeer Focal Person to DGA OFWM office ME&IE Consultants 	<ol style="list-style-type: none"> ii. attached in Annexure 2) ii. ME&IE Consultants ensured to collect the complete data collection of Water Storage Ponds (as per approved format) from directorates OFWM with the cooperation of the Department. iii. The Focal Person of DGA OFWM ensured the provision of LLL complete Data will, be provided by Headquarters OFWM. iv. Training Schedule for the Lahore Division and Nomination List of Field Staff, will be provided, by the Focal Person of DGA OFWM. a. ME&IE Consultants ensured the Development of Android Based Application for data collection from the field of WC & WST will be live before training. 								
<p>Discussion/Decision</p> <ol style="list-style-type: none"> i. Forum unanimously decided that fortnightly review meeting minutes and Monthly Monitoring/Progress report will be shared with FPMU and endorsed by the Focal Person of DGA OFWM. ii. ME&IE Consultants ensured access to the PMIS Dashboard by 3rd January 2022. iii. Deployment of Android Based Application for real time data collection from field and Capacity Building of OFWM Field staff will get finalized after the approval of DGA OFWM. 									
<p><i>View of Meeting held in Director General (Agri) OFWM Office</i></p>	<p><i>View of Meeting held in Director General (Agri) OFWM Office</i></p>								
<p>12. Meeting Held with DG Office OFWM</p> <table border="1" data-bbox="228 1448 794 1582"> <tr> <td>Date</td><td>January 16 ,2023</td></tr> <tr> <td>Venue</td><td>Director General OFWM Office Davis Road, Lahore</td></tr> </table> <p>Participants:</p> <ol style="list-style-type: none"> i. Mr. Tahir Mehmood Focal Person of DGA OFWM/ DDA Headquarters OFWM ii. Mr. Muhammad Rafi System Analyst OFWM iii. Mr. Rizwan Saleem ICT Specialist ME&IE Consultants iv. Mr. Awais Jahangeer Focal Person to DGA OFWM office ME&IE Consultants <p>Discussion/Decision</p> <ol style="list-style-type: none"> i. Forum unanimously finalized & approved the Data Collection format for Water Storage Ponds and Laser Land Leveler. (WST format attached in Annexure 1 & LLL format 	Date	January 16 ,2023	Venue	Director General OFWM Office Davis Road, Lahore	<p>13. Meeting Held with DG Office OFWM</p> <table border="1" data-bbox="857 1257 1437 1380"> <tr> <td>Date</td><td>January 17 ,2023</td></tr> <tr> <td>Venue</td><td>Director General OFWM Office Davis Road, Lahore</td></tr> </table> <p>Participants:</p> <ol style="list-style-type: none"> i. Malik Muhammad Akram Director General Agriculture OFWM Punjab ii. Mr. Tahir Mehmood Focal Person of DGA OFWM/ DDA Headquarters OFWM iii. Choudhary Saif Ullah Ejaz Authorized Representative of G3JV ME&IE Consultants iv. Mr. Awais Jahangeer Focal Person to DGA OFWM office ME&IE Consultants <p>Discussion/Decision</p> <ol style="list-style-type: none"> i. ME&IE Consultants shared the Report on Data Acquisition from field offices and directorates with DGA OFWM. On this matter DGA OFWM ensured their full support from all field offices. ii. DGA OFWM emphasized on the importance of impact reports, special reports on water saving & project outcomes. iii. Authorized Representative of G3JV ME&IE Consultants ensured the close coordination 	Date	January 17 ,2023	Venue	Director General OFWM Office Davis Road, Lahore
Date	January 16 ,2023								
Venue	Director General OFWM Office Davis Road, Lahore								
Date	January 17 ,2023								
Venue	Director General OFWM Office Davis Road, Lahore								

with DGA OFWM Office & Focal Person of DGA OFWM in the future.



View of Meeting held with Director General (Agri) OFWM

14. Meeting Held with DG Office OFWM

Date	February 8, 2023
Venue	Director General OFWM Office Davis Road, Lahore

Participants:

- Hafiz Qaisar Yasin Director Headquarters OFWM
- Mr. Tahir Mehmood Focal Person of DGA OFWM/ DDA Headquarters (OFWM)
- Muhammad Yousaf Bhatti Deputy Team Leader Punjab ME&IE Consultants
- Mr. Awais Jahangeer Focal Person to DGA OFWM, ME&IE Consultants

Discussion/Decision

- i. Focal Person to DGA OFWM, ME&IE Consultants shared the data collection progress report for PMIS Dashboard. He briefed that data collection of watercourses and water storage ponds till now has been completed from all field offices & directorates of OFWM. The focal Person of DGA OFWM appreciated the efforts of ME&IE Consultants in completing the task
- ii. Furthermore, the Focal Person to DGA OFWM, ME&IE Consultants added that data received from the field is under cleaning/validation process and will be integrated into the PMIS Dashboard till 15th February 2023. He added that ME&IE Consultants will give the presentation on the PMIS Dashboard with extended features till 20th February 2023 and all possible requirements of the department will be fulfilled.
- iii. The Focal Person of DGA OFWM ensured the provision of initial data relevant to Laser Land Leveler (till up to date) at the earliest from headquarters as decided in the last meeting on 16th January 2023. He further added the provision of detailed data on LLL as per the decided format may take time. On this matter Deputy Team Leader Punjab, ME&IE proposed

that ME&IE Consultant's team can assist in the headquarters for collecting the data from files.

- iv. Focal Person to DGA OFWM discussed the field staff training schedule and the program is ready. Furthermore, he shared the tentative agenda & training module. DDA Headquarters responded that training will be started from the Lahore Division and after testing of Android Based application & its implementation will move further to the next divisions. Further, he added after consultation with DGA OFWM & Director of Agriculture OFWM Lahore division.
- v. Focal Person to DGA OFWM, ME&IE Consultants presented the *.apk (Android Based Application) for the data collection of Watercourses & Water storage ponds from the field. He briefed that ME&IE Consultants developed the application as per decided tools and now the application is ready to implement.
- vi. the date & time will be intimated later and all other necessary arrangements will be made.
- vii. DTL Punjab ME&IE Consultants asked for the provision of glimpses and event details relevant to NPIWC-II of the Punjab Component for the project's official website. The focal Person of DGA OFWM responded that the team is working on this matter and data will be provided positively by next week.
- viii. ME&IE Consultants appreciated the support of OFWM Directorates, Deputy Directors, Assistant Directors, and field staff in recent field surveys with ME&IE Consultant's field teams for the LLL service provider & project beneficiary's interviews. Moreover, DTL Punjab shared the field observation/recommendations for improvement on the basis of recent field surveys and feedback from farmers.
- ix. Directorate Headquarters appreciated the work done by ME&IE Consultants for data collection and emphasized strong coordination among departments & consultants and this will bring a win-win position for all stakeholders of the project.

Decisions:

- i. ME&IE Consultants ensured to integrate of all data of WC&WST collected from the field on the PMIS Dashboard till 15th February 2023.
- ii. ME&IE Consultants will give detailed presentations on PMIS Dashboard till 20th February 2022
- iii. Focal Person of DGA OFWM will provide the initial data of LLL delivered till now by Tuesday 14th February 2023.
- iv. ME&IE Consultants will depute their field teams (if needed) to DGA OFWM Office for

data collection of LLL from files at the request of the Focal Person of DGA OFWM.

v. Focal Person of DGA OFWM will provide the date and training schedule after consultation positively by next week.

vi. Focal Person of DGA OFWM will provide glimpses and data for the project's official website positively by next week.



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

15. Meeting Held with Director OFWM

Date	February 16, 2023
Venue	Directorate (Agriculture) OFWM Office Thokar Niaz Baig Lahore Division
Participants:	
i.	Mr. Dr. Ahmad Bilal, Director (Agri) OFWM Lahore Division
ii.	Azhar Mehmood Engineer Director (Agri) OFWM Lahore Division
iii.	Mr. Muhammad Yousaf Bhatti Deputy Team Leader ME&IE Consultants Punjab Zone
iv.	Mr. Awais Jahangeer Focal Person to D.G OFWM ME&IE Consultants Lahore
Discussion/Decision	
i.	The Deputy Team Leader ME&IE Consultants briefed about ME&IE Consultant's Activities in Lahore Division
ii.	The Focal Person to DGA OFWM ME&IE Consultants Agreed to share the Basic Intervention Data after necessary rectification. ME&IE consultants & OFWM officials both agreed on basic data rectification/validation for PMIS-Dashboard
iii.	The Focal Person of ME & IE Consultants also endorsed the suggestion from the Focal person to the DGA office that the training on Android-based application systems for the field staff will be initiated from Lahore.
iv.	The Participants also share information on

serving the Supplies company's SCC in Lahore. The Consultants also share the Field Experience about Laser Land Leveler usage in the Field



ME&IE Consultants meeting with Director OFWM Lahore Division Dr. Ahmed Bilal

16. Meeting Held with Director OFWM Training Institute

Date	February 16, 2023
Venue	Director OFWM Training Institute office Thokar Niaz Baig Lahore.
Participants:	
i.	Dr. Maqsood Ahmed, Director OFWM Training Institute, Lahore.
ii.	Dr. Mazhar Ahmed, Agronomist Training Institute, Lahore
iii.	Mr. Muhammad Yousaf Bhatti, Deputy Team Leader ME&IE Consultants, Punjab Zone
iv.	Mr. Awais Jahangeer, Focal Person to D.G OFWM, ME&IE Consultants Lahore
Discussion/Decision	
i.	A detailed discussion was held on the role of the OFWM Training institute. The Director fully explained the "Capacity building" strategy for enhancing land and water productivity.
ii.	Dr. Maqsood Ahmad explained the Institute's activities. He also briefed on the training of the operator of the laser land leveler under NPIWC-II. A note has also been added on institute role and training for operators of laser land levellers under National Program. Annexure B
iii.	The ME&IE consultant team also shared certain issues of various interventions, particularly of the laser land leveler supply company.
iv.	The deputy team leader also extended certainly applicable suggestions regarding laser land leveler intervention.



The Consults Team discussing the role the of institute in NPIWC-II

17. Meeting Held with Director General OFWM

Date	March 27, 2023
Venue	Director General OFWM Office Davis Road, Lahore

Participants:

- i. Mr. Tahir Mehmood, Focal Person of DGA OFWM/ DDA Headquarters (OFWM)
- ii. Mr. Awais Jahangeer, Focal Person to DGA OFWM, ME&IE Consultants Punjab Zone Lahore

Discussion/Decision

- i. Both participants discussed the existing situation of the project in detail.
- ii. Focal Person to DGA OFWM ME&IE Consultants inquired about the training schedule for the field staff on the android-based application to collect the data from the field. The focal Person of DGA OFWM proposed to conduct training by the end of April. It was agreed by ME and IE Consultants.
- iii. Focal Person of DGA OFWM/Deputy Director Headquarters suggested sending monthly progress reports directly to NPC Office without the endorsement of the DGA OFWM Punjab Office. It was also agreed by both participants.
- iv. Focal Person to DGA OFWM ME&IE Consultants requested regular meetings in DGA OFWM Office to share the progress of the project. The focal Person of DGA OFWM/DDA Headquarters responded on the matter positively.
- v. Both participants discussed the existing situation of the project in detail
- vi. Focal Person to DGA OFWM ME&IE Consultants inquired about the training schedule for the field staff on the android-based application to collect the data from the field. The focal Person of DGA OFWM proposed to conduct training by the end of April. It was agreed by ME and IE Consultants.

- vii. Focal Person of DGA OFWM/Deputy Director Headquarters suggested sending monthly progress reports directly to NPC Office without the endorsement of the DGA OFWM Punjab Office. It was also agreed by both participants.
- viii. Focal Person to DGA OFWM ME&IE Consultants requested regular meetings in DGA OFWM Office to share the progress of the project. The focal Person of DGA OFWM/DDA Headquarters responded on the matter positively.
- ix. Participants discussed the project progress is stopped for the time being due to financial constraints and still previous liabilities are pending.



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

18. Meeting Held with Director General OFWM

Date	May 30, 2023
Venue	Director General OFWM Office Davis Road, Lahore

Participants:

- i. Mr. Tahir Mehmood Focal Person of DGA OFWM/ DDA Headquarters (OFWM)
- ii. Muhammad Yousaf Bhatti Deputy Team Leader Punjab zone Lahore
- iii. Mr. Awais Jahangeer Focal Person to DGA OFWM, ME&IE Consultants Punjab Zone Lahore

Discussion/Decision

- i. Deputy Team Leader, ME&IE Consultants briefed about the ongoing activities of consultants, constraints & shared the overall performance and achievements. Focal Person of DGA OFWM appreciated the coordination of ME&IE Consultants.
- ii. Focal Person to DGA OFWM office ME&IE Consultants shared the plan for upcoming field visits for the impact and baseline-3 survey of Watercourses, Water storage ponds and Laser Land Leveler all over the Punjab.
- iii. In reference letter No, 1-3/2020-FPMU (M&E) dated 23rd December 2022 and its reminder

dated 4th May 2023 the discussion was held again and Focal Person of DGA OFWM proposed to submit the MMR report directly to NPC Office and OFWM Punjab Office will make comment on the report if needed after the submission.

- iv. Furthermore, it was discussed & decided to conduct the meetings in DGA OFWM whenever it need needed between ME&IE Consultants & Focal Person of DGA OFWM.
- v. Focal Person of DGA OFWM highlighted the financial constraints due to which the ground working & field activities under NPIWC-II are leaving behind.



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

4.6.7 Other Assignment Relevant to the Project

During the period under review following visit were made to allied industries.

4.6.7.1 3.4.1 Visit Pak Punjab PCPL (Pre-Cast Concrete Parabolic Lining) Segment Yard Karor Pakka

Date 22-12-2021

The main features of the yard are:

- i. Name - Pak Punjab Traders
- ii. Ownership – Muhammad Manzoor s/o Karim Baksh
- iii. Area – Approximate 5 acres without any wall
- iv. Address – Kehror Paka Maiisi Road District Lodhran

Visited the Pak Punjab PCPL Segment Yard at Tehsil Kahror Pakka and met with the owners and technical staff. The visit aimed to assess the backward linkages under NPIWC-II, employment generation& industrial growth.

Salient Features

- i. Total employment: 150 people for the production line, 50 people for other purposes like loading unloading etc.
- ii. Wages for Nacca Making: 180-250 Rs/Nacca/Person
- iii. Wages for Segment Making: 200-300 Rs/Segment/Person
- iv. Production capacity of Yard: 500-600 segments/Day
- v. 800 Nacca's/Day
- vi. Pak Punjab Traders own 5 yards in different areas of south Punjab with the approximately same capacity.
- vii. The labor employed belongs to the local area and does not require any specific experience or qualification. They learn to work in this trade gradually and become semi-skilled persons.
- viii. This factory also opens opportunities for various vendors and middlemen between the factory government and other private users of Naccas.



Pak Punjab PCPL Segment Yard Karor Pakka Visit and Meeting of ME&IE Consultants

4.6.7.2 Visit Laser Land Leveler Production Unit

Date 23-12-2021

The main features of the production unit are:

- i. Name – Hanzala Traders and Laser Land Leveler
- ii. Ownership – Muhammad Zeeshan Aslam
- iii. Area – 1 Km Ludan Road Vehari

Visited the Hanzala Traders and Laser Land Service Providers (Registered firm) & interviewed the owner of the firm. The purpose of the visit was to learn about the manufacturing process related to LLL

Units, employment generation, and industrial growth in this project.

Salient Features

- i. Total Employment: 12 people Regular and 6 people on daily wages for the production line
- ii. 3 technical people working like a sub-engineer.
- iii. Production capacity of Yard: 200-250 Units/Annum (Supply to government sector NPIWC-II and simultaneously to private farmers)
- iv. Hanzla Traders serve as 35 (sale, services and spare parts) also gives maintenance facilities to farmers for laser land levellers
- v. They manufacture locally more than 70% of parts of the laser in their factory
- vi. Just the remaining electronic parts are imported from China, Germany, USA



Methodology of Measurement of Water Flow:

Methodology of Measurement of Water Flows is placed as **Annex. J.**

4.6.8 Post Field Activities

The ME&IE Consultant's team remained busy with the data Collection/Validation of the data of the last years about the project interventions. The data were reviewed for submission to PMIS -Dashboard. Basic data of the various interventions from the field were collected, from various districts, for the purpose of identification for the intervention site and collection.

4.7 ACTIVITIES COMPLETED BY KP ZONE (2022-23)

Brief Summary of activities performed by ME/IE Consultants during reporting year 2022-23.

- Revising Monitoring and Evaluation Survey Tools
- Field Teams Engineers Training

- Field monitoring visits
- Baseline Survey visits
- Impact Survey visits
- Coordination with OFWM Department KP
- Data Editing/Uploading to the revised MTs
- Validation of the uploaded MTs
- Preparation of progress reports i.e., MMRs & QMRs etc.
- Collection, cleaning and entering of data for dashboard from OFWM.
- Training Workshops
- Refresher training on new version of ODK
- Internal meetings
- Progress review zoom meetings

4.7.1 Tangible Achievement of the 1st Quarter (July August, and September 2022)

During the 1st quarter of FY 2022-23, the official activities of ME&IE consultants KP Zonal office were consisted of conducting surveys, attending meetings and workshop for revising MTs for the surveys at National Office Islamabad, providing training to the Field Teams and coordination with the OFWM Department KP. In addition to these, regular contacts were made with District Directors OFWM regarding facilitation of our survey teams in the field. Several meetings Project coordinator were held regarding newly launched schemes in the year 2021-22 of Water Courses and Water Storage Tanks in KP. Following are the tangible achievement of the 1st Quarter:

Revising MTs:

Keeping in view the objectives of the NPIWC-II project data and the observations reported by the field teams the Team Leader and ICT team NPIWC-II Consultants decided to arrange a four days' workshop for the FTIs and the DTLs of the KP, Punjab, Balochistan, and Capital territory Islamabad at National Office Islamabad. The workshop lasted for four days; i.e., from September 21 to 24, 2022. The FTIs from all the zones along with the DTLs and other Core Team members actively participated in the works and contributed towards the revising of the MTs. The authorized representative of the G3 consultants also attended the workshop and advised the participants to try their level best towards the achievements and timely completion of the task.

Field Teams Training:

On the return from the workshop the FTIs were assigned the task to offer the training to their respective teams at their zonal offices. In the

supervision of the DTL the FTIs of the KP zonal office Peshawar offered training to the field team engineers for four days including one day field trip for demonstration of water measurement on site. The FTIs discussed each and every question of all the MTs with the field team engineers in detail.

4.7.2 Workshop:

A 4 days' workshop of the ME&IE consultant was held at National office Islamabad from September 21st to 24th 2022. Agenda of the workshop was to revise the Monitoring Tools in the light of problems faced by the field teams during the surveys at different provinces. All the core team members and field team in-charge participated in the workshop. Detailed deliberations were held among the participants during the four days sessions. Finally, necessary amendments were made and the MTs were revised and approved by the authorities concerned. At the end of the workshop Choudhary Saifullah Ejaz, authorized representative and Director of the G3 Consultants thanked the workshop participants for their patience and contribution in the successful completion of the workshop.



Participants of the Workshop held on 21-24 September 2022, held at National Office Islamabad

Meeting with the NPC, Dy NPC and Team Leader

On August 26, 2022 the NPC along with the Dy. NPC and Team Leader paid a visit to the zonal office Peshawar KP of the ME/IE Consultants, NPIWC – II. And held a meeting with the DTL KP Zone. Agenda of the meeting was to review the Progress of the ME/IE Consultants, NPIWC – II. KP Zonal office Peshawar.

The DTL Zonal office Peshawar made a presentation of the progress made so far and the on-going activities of the project. After presentation of the DTL the NPC and Dy. NPC raised a number of questions the DTL responded to those questions and made them satisfied. The NPC also met with the Field Team In-charges (FTIs) and discussed the personal and field related problems. The NPC

assured them that due consideration will be given to these problems.



View 1: Meeting with the NPC, Dy. NPC and Team Leader of the ME/IE Consultants NPIWC-II at KP Zonal Office



View 2: Meeting with the NPC, Dy. NPC and Team Leader of the ME/IE Consultants NPIWC-II at KP Zonal Office

Training Workshop:

The training workshop on Capacity Building (Android Based Data Collection Application and Improvement of the Quality of Data Collection) for the staff of the Khyber Pakhtunkhwa districts field teams of (NPIWC-II). The training for one day was conducted at Directorate OFWM office, Peshawar on August 12, 2022. The Director General OFWM, Mr. Javed Iqbal and Hamid Ullah (Focal Person) also attended the training workshop, encouraging participants to take the training seriously with the aim of improving data collection and overcoming pendency and discrepancies of the collected data.

Training Methodology and Approach:

The multitude of training methodologies was utilized in order to make sure all the participants get the whole concepts and they learn to present better-quality data.

Discussion Approach

A participatory-discussion approach was used because the target staff were in a better position to identify existing weaknesses, strengths and need for change. In the course of discussion, the members of

survey teams familiarized themselves with the environment and were provided proper guidance for gathering the Baseline-IV, data in respect of Agricultural and Technical aspects.

Training Method

Participatory training methods were used during the workshops, which involved the learners actively. During the training workshops, the following learner-centered training methods were used:

- Brainstorming for good data collection.
- Group discussion.
- Demonstrations of discrepancies of the formerly collected data.

As much as possible, Trainers stuck to the workshop timetable while at the same time working through materials at the participant's pace. In order to accommodate every participant and to allow them to participate freely, ample time was given for discussion, which helped to bring out their experiences.

Training Intervention:

Delivery Process: The training was delivered in three modules. The capacity levels of the various participants differed from one to the other, which presented a challenge in the delivery of the trainings. To overcome this challenge, different approaches were used.

Module 1 – Understanding of Digital Data Collection and their Benefits

- Problems in Data Collection and Management
- Data reliability (will we get the same data, when collected again?)
- Data validity (Are we measuring what we say we are measuring?)
- Data integrity (Is the data free of manipulation?)
- Data accuracy/precision (Is the data measuring the "indicator" accurately?)
- Data timeliness (Are you getting the data in time?)
- Data security/confidentiality (Loss of data / loss of privacy)
- How technology help us to address the above issues?
- Why use Mobile Technology in Data Collection?

Module 2 – Introduction to Data Collection Forms

- Technical discussion on each field of the Watercourse Data Collection forms
- Technical discussion on each field of Data Collection forms

Module 3 – Introduction to Android based Application & Digital Data Collection Forms

- Application Interface
- Digital Forms
- Fill Blank Form
- Edit save Form
- Send Finalized Form
- Pre-Designed Forms of Watercourses and Water Storage Tanks

Module 4 – Discussion

- All participants discussed their related forms
- Discuss the data validation and review the mistakes during the discussion

Participants Feedbacks

At the end of the workshop, participants were invited to fill up the feedback forms. While most participant responses were aligned with the workshop objectives, there were many who had never participated in such training before and were fairly unclear about what to expect. The list of feedbacks has been summarized below:

- earn more about the Android Application
- Knowledge to improve the technical skills
- How the teams will save time in comparison to conventional data collection methods
- How delays can be handled between activities
- Reduce the communication gaps between teams and higher authorities
- Learn more about the Watercourses activities data
- Knowledge on conservations
- To be committed up to the end of the Training Workshop
- To learn how to conduct trainings
- To be able to transfer knowledge to other team members

To learn about keeping good records

Glimpses of Trainings



Mr. Fawad Ahmad ICT Manager at KP Office Peshawar is delivering lecture during training



Mr. Shumail ICT Manager at National Office Islamabad is delivering lecture during training

Coordination with the OFWM Department:

The DTL, FTIs and ICT Manager kept close coordination both face to face and digitally with officials of the OFWM Department KP throughout the quarter under reference. Coordination with OFWM Department is a routine activity of the ME&IE consultants KP zone. Before launching the surveys, the field teams shared the field plan with the said department for facilitating their data collection from the respondents. The consultants are thankful for their generous cooperation in this regard.

4.7.3 Tangible Achievement of the 2nd Quarter (October, November and December 2022)

During the 2nd quarter of 2022, the official of ME&IE consultants KP Zonal office were engaged in field activities as well as coordination with the OFWM Department KP and routine office activities. In addition to these, regular contacts were made with District Directors OFWM regarding facilitation of our survey teams in the field. Several meetings with Project coordinator were held regarding newly launched schemes in the year 2021-22 of Water Courses and Water Storage Tanks in KP. Following are the tangible achievement of the 2nd Quarter:

- Meetings with OFWM focal person/ district officers
- Baseline & Impact field survey visits
- Data Editing/Uploading to the revised MTs
- Validation of the uploaded MTs
- Refresher training on new version of ODK
- Coordination and meetings with OFWM focal person/ district officers for the missing data on dashboard such as CNIC duplicates and Technical/ Social data etc.
- Coordination with department was done for Technical Sanction issued for new schemes.
- Prepared work plan and implemented for field visits

- Collection, cleaning and entering of data for dashboard from OFWM.
- Writing of MMRs for the month of October, November and December 2022

4.7.4 Tangible Achievement of the 3rd Quarter (January, February and March 2023)

During the 3rd quarter, the official activities of ME&IE consultants KP Zonal office were very much engaged in field activities as well as coordination/meetings with the OFWM Department KP and other official routine office activities. In addition to these, regular contacts were made with District Directors OFWM regarding facilitation of our field teams. Several meetings with Project coordinator were held regarding newly launched schemes in the year 2022-23 of Water Courses and Water Storage Tanks in KP. Following are the tangible achievement of the 3rd Quarter:

- Meetings with OFWM focal person/ district officers
- Baseline & Impact field survey visits in KP & GB
- Data Editing/Uploading to the revised MTs
- Coordination and meetings with OFWM focal person/ district officers for the missing data on dashboard such as CNIC duplicates and Technical/ Social data etc.
- Coordination with department was done for Technical Sanction issued for new schemes.
- Prepared work plan and implemented for field visits
- Collection, cleaning and entering of data for dashboard from OFWM.
- Writing of MMRs for the month of January, February and March 2023

4.7.5 Tangible Achievement of the 4th Quarter (April, May and June 2023)

A number of activities have been performed by the ME&IE consultants KP Zonal office. ME&IE consultants KP field teams were engaged in Baseline and Impact survey field activities in June 2023. The Consultants kept close contacts with all the stakeholders of the NPIWC-II, viz Directorate of OFWM KP, Focal Person/Coordinator NPIWC-II of OFWM Department, District Directors OFWM Department and relevant officials. The purpose of these contacts, both physical as well as digitally online, was to update the ME&IE Consultants about the schemes launched under the NPIWC-II Project in the KP. Continuous guidance both through contacts as well as through telephonic calls were offered to the

OFWM Department KP officials in uploading the data through android application to the Dashboard. Several meetings with Project coordinator were held regarding newly launched schemes in the year 2022-23 of Water Courses and Water Storage Tanks in KP.

Tangible Achievement of the 4th Quarter

- Meetings with OFWM Department KP Officials
- Field survey visits
- Monitoring of data entry to the Dashboard of the OFWM Department Officials
- Close Coordination with OFWM focal person/ district officers for the missing data on dashboard such as CNIC duplicates and Technical/ Social data etc.
- Coordination with the OFWM Department KP for Technical Sanction issued for new schemes.
- Prepared quarterly work plan
- Collection, cleaning and entering of data for dashboard from OFWM.
- Writing of MMRs for the month of April, May and June 2023

Overall Progress:

Meetings:

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

4.7.6 Baseline and Impact field Surveys:

Two rounds of surveys were conducted for baseline and impact evaluation, by the field teams. Three field teams were launched, one to the Southern zone, one to Central zone and the other to Northern zone. In the month of July 2022 till February 2023 the teams' focus was on baseline survey, while from July 2022 to June 2023 the impact evaluation data

were collected by the field teams. In January 2023, Field Teams visited GB to gather Baseline and Impact data from 39 watercourses and 14 WST schemes. Details of which are given in **Annex-E to I.**

4.7.7 Data Entry and GPS validation:

During the reporting period, KP Teams entered and validated the GPS locations for hundreds of schemes of Balochistan 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.

4.7.8 Capacity Building of OFWM staff on Android Application

Various trainings on android application have been imparted by the ME&IE Consultants from time to time to the officials of OFWM in Southern, Central and Northern zones. Now they are able to enter the data directly to the dashboard from their offices. However, when they face any hurdle the ME/IE continuous support was provided to OFWM officials on telephone for any issue while operating android system and/or data collection process. IT team carried out various visits to Directorate of OFWM KP and assess the understanding of field staff for utilization of android app 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.

4.8 ACTIVITIES COMPLETED BY BALOCHISTAN ZONE (2022-23)

The Activities cover a range of topics, including updated field progress, field visits details, social and gender initiatives, challenges faced due to adverse weather conditions i.e., heavy rains / flood, office relocation, training initiatives, and stakeholder engagement.

4.8.1 Various Aspects of Activities of Balochistan Zone during FY 2022-2023

The past year has seen significant field progress with numerous milestones achieved. Our team worked diligently to advance the project's objectives and deliverables.

Activities of Social and Gender Group:

Balochistan, with its unique tribal landscape, presents distinct challenges for implementing social and gender initiatives. Our team, recognizing the importance of inclusivity and empowerment, has proactively engaged in activities to address these challenges and foster positive change within the tribal context. These efforts have gradually led to shifts in mindset and attitudes, fostering greater support for gender-inclusive initiatives.

Impact of Heavy Rains/Floods in Balochistan:

Adverse weather conditions, such as heavy rains and floods, posed challenges to our project activities, particularly in the Naseerabad zone of Balochistan. These conditions led to disruptions and damage to project interventions.

Relocation of Office Building:

The office building of ME&IE Consultants has been relocated to a new location. The new site offers improved accessibility and enhanced facilities. The new building is situated adjacent to the Project Consultants' office and is just 3 kilometers away from the OFWM office.

Refresher Training at National Office, Islamabad:

A comprehensive refresher training was conducted at our National Office in Islamabad for Field Team incharges from all provinces. This training aimed to enhance their skills, align practices, and reinforce a unified approach to project implementation.

Capacity Building Training on OFWM Data Collection Application – Dashboard, Balochistan:

Our training initiatives included a focus on capacity building for field staff, particularly in utilizing the Android-based OFWM data collection application to complete the task of Dashboard, Balochistan. This training equipped our team with enhanced data management capabilities, leading to more informed decision-making.

Divisional Headquarters Visit for Dashboard Data Collection:

A notable undertaking involved visits to 05 Divisional Headquarters of OFWM, Balochistan to collect and validate dashboard data. The ME&IE Consultants' field staff provided their entire support and assistance to OFWM staff during these activities. This enabled us to complete the task of Dashboard, Balochistan.

Success Story:

The ME&IE Consultants worked on a success story that exemplified the transformative impact of our projects. This story serves as a testament to the dedication and effectiveness of NPIWC-II initiatives in improving lives and communities.

Stakeholder Engagement:

Throughout the year, we fostered robust communication and collaboration with our stakeholders. Multiple meetings were held to ensure a shared understanding of project objectives, challenges, and progress, facilitating a collective approach to achieving our goals.

In conclusion, the past year has been characterized by resilience, adaptability, and a shared commitment to our projects' success. Despite challenges posed by weather disruptions and other factors, our team's dedication, comprehensive training initiatives, and collaborative engagement with stakeholders have been pivotal in driving progress. Looking ahead, we remain committed to delivering meaningful outcomes and impactful interventions in the realm of Monitoring and Evaluation.

Updated Field Progress of ME&IE Consultants – Balochistan

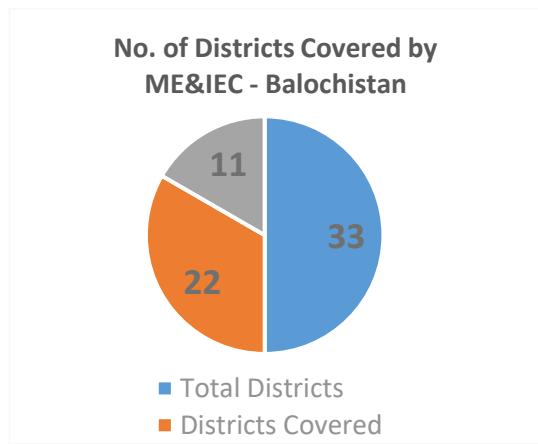
The ME&IE Consultants, Balochistan have monitored 17 sites during the pre-testing of Monitoring Tools in different months. A total of 13 sites were monitored during executive visits with high officials. From inception to date, the ME&IE Consultants Balochistan field teams conducted baseline vis-a'-vis impact surveys of 61 watercourses in as well as baseline vis-a'-vis impact surveys of 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%. Details of which are given in Annex-E to I.

Districts Covered:

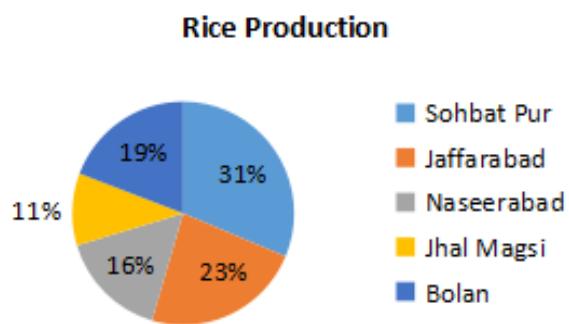
There are 33 districts in Balochistan, 02 more districts have been notified but their administrative setup yet to be functional. The Balochistan Team has planned to cover all Balochistan as each district has different agriculture setup. All districts have different crops, vegetable, fruits based on their different climate and soil types. Some districts i.e., Quetta, Ziarat, Kalat, Muslim Bagh have extreme cold weather while some districts i.e., Sibi, Naseerabad, Jaffarabad, Sohbatpur, Lasbella lies in extreme hot weather. Due to this reason ME&IEC, Balochistan have planned to cover all Balochistan to

give a complete picture of cropping pattern and its intensity, social and gender data, water situation, cost production etc., to make more authentic data.

The Balochistan Zonal field teams have monitored the sites of 22 districts of 33 districts, the remaining 11 districts to be covered in upcoming months.



4.8.2 EFFECT OF HEAVY RAINS AND FLOOD ON NPIWC-II INTERVENTIONS.



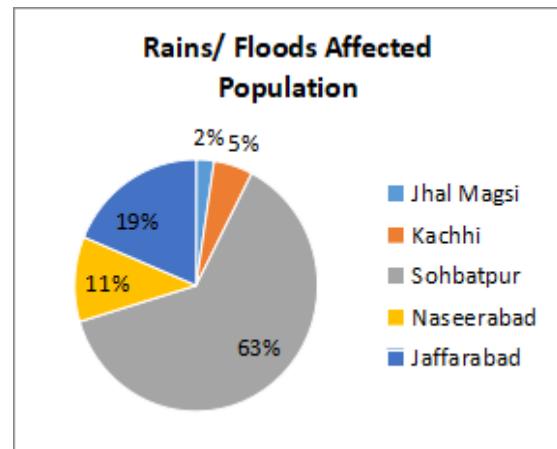
The heavy rains and floods in Balochistan have caused extensive loss of crops, fruits, vegetables, livestock, livelihoods, and human lives as well. The situation is likely to worsen as heavy rains continue to batter areas that have already been inundated by more than two months of rain.



The torrential rains inundated large parts of eastern Balochistan. In particular, the Naseerabad Division was more adversely affected. A sizeable percentage of agriculture and livestock were also lost due to the flooding. Floods damaged approximately 565 km of roads and 304,000 acres of agricultural land while 712 livestock also died in Balochistan as per Govt. of Balochistan. Due to damaged roads and bridges, the field activities of ME&IE Consultants were affected badly.

The internet services, communication networks all were affected due to heavy rains and floods throughout Balochistan.

The top four most affected districts in terms of heavy losses of agriculture, livestock, infrastructures, and human lives are Bolan, Jaffarabad, Sohbatpur, Naseerabad & Jhal Magsi.



Heavy losses of crops were observed. The rise is one of the major crops of Naseerabad Zone. As per official reports the crops on 1.3 million acres of land were affected in the two districts of Naseerabad Division, causing a loss of about Rs. 18 billion to farmers and growers.

The crop sector is the second most important sub-sector after livestock in Balochistan, and a source of livelihood for the rural population. Unlike major crops cultivated in Punjab or Sindh, farmers in Balochistan mainly engage in vegetables and orchard production. In addition, the Naseerabad division lost its 92% of agricultural crops, particularly rice, Cotton, and vegetables (onion, Tomatoes etc.)

The all interventions of NPIWC-II i.e., Watercourses and Water Storage Tanks are completely submerged into flood water in Naseerabad Division. The official activities of OFWM are suspended, however,

concerned DDs are in touch with farmers/beneficiaries and collecting the data regarding losses of crops, damages of structures etc.



The offices of OFWM, Sohbatpur and Naseerabad submerged in flood.

The heavy rains / floods Balochistan. The NPIWC-II interventions also affected various districts. The losses/damages of NPIWC-II intervention are being surveyed by the concerned DDs of respective districts.

The citations of some districts are given below:

District Quetta:



View of damaged WST and flood affected command area, District Quetta

District Kharan:



View of damaged PVC Pipe and Watercourse, District Kharan

District Pishin





View of damaged Culvert, Watercourse and PVC Pipe,
District Pishin

District Killa Saifullah



View of heavy rain affected Cultivated Command Area,
District Killa Saifullah

District Mastung:



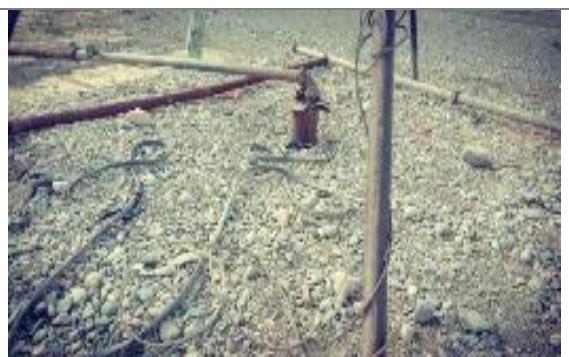
View of damaged PVC Pipe, District Mastung

District Loralai



View of damaged PVC Pipes, District Loralai

District Zhob



View of affected borewell pipes, District Zhob

4.8.3 REALLOCATION OF ZONAL OFFICE, QUETTA

In the month of September 2022, the office building of the zonal office, Quetta has been shifted to House # 40, Marri Street, Arbab Karam Khan Road, Quetta from House # 543/3, Chiltan Road, Cantt, Quetta.

The key advantages of new building are as under:

- About 03 KM away from the office of DG, OFWM, Balochistan.
- Five minutes walking distance from the Project Consultants (NESPAK) Office.
- Easy accessibility to staff and other stockholders.
- Sufficient space for office arrangements and vehicle parking.



The view of new office building of ME&IE Consultants, Zonal Office, Quetta, Balochistan

4.8.4 04 DAYS' WORKSHOP, REFRESHER TRAINING & ANNUAL PLANNING

The head office arranged a 04 days workshop of all DTLs/Zonal Heads including Field Team In-charges of all provinces in the month of September 2022. The core team members also participated in this workshop. It was conducted at the National Office, Islamabad from 21st to 24th September 2022.

Training objectives:

This training/refresher was held to enable the participants to improve the Android-based data collection for Baseline, Impact, and Monitoring Surveys.

Day-1:

- Introduction of participants
- Management Speech
- Role of FTI/Supervisors & Enumerators
- Survey Methodology
- Issues/Problems at Province Level
- Presentation of Monitoring Tools
- General Discussion
- ME&IEC updated progress

Day-2

- Importance of technology during field survey
- Farming practices and input data
- Planning of 2022-23
- Speech by NPC, FPMU
- Android Application and Digital Forms
- Discussion of hurdles, issues, data monitoring, validation checks
- Annual Work plan and Budget

Day-3

- Field visit along all participants
- Water Flow Measurement through Pygmy Meter
- Discussion session, field experience and hurdles
- Meeting of TL, DTLs and Core Team Members on planning for next quarter and discussion of management issues.

Day-4

- Field Data Validations
- Management Speech
- Closing remarks by all DTLs
- Wrap-up Session



The NPC, FPMU, NPYWC-II, Director, G3EC / Representative of JVs and other participants in workshop, Islamabad



Meeting of TL, DTLs and Core Team Members - Islamabad



The FTI giving training to M&E Officer, Zonal Office, Quetta



Field visit and water flow measurement through Pygmy Meter.



The DTL giving session to M&E Officer, Zonal Office, Quetta.



Visit of NRC office, Islamabad



Group photo of ME&IEC Team with Management, National Office, Islamabad

4.8.5 02 DAYS' TRAINING OF M&E OFFICERS AT ZONAL OFFICE QUETTA

Two days of training/refresher were conducted in the Regional Office, Quetta. The training was given by DTL and FTIs. The aim of this training/refresher was to transfer what they learned to the M&E Officer in a 04 days workshop.

Comprehensive discussions were made on MTs and M&E Officers gave their suggestion as per their ground experiences.

4.8.6 TRAINING ON CAPACITY BUILDING OF FIELD STAFF, OFWM (ANDROID BASED DATA COLLECTION APPLICATION) – DASHBOARD, BALOCHISTAN

The dashboard is a “real-time” user interface showing graphical and tabular information of multiple data sets. Dashboards allow users to appreciate a situation at a glance and aid in making informed decisions. The way in which data are presented directly affects how they are understood and interpreted / consequently the decisions that are made because of the data.

The ME&IE Consultants conducted two days of training on the 7th and 8th of December in Quetta. The Directors, Deputy Directors, and other staff of OFWM, Agriculture Department have participated. The main objective of the training was to build capacity among Divisions, districts, and Field Teams to use real-time data collection through an Android application.

The dashboard implementation phase consists of three stages

Stage I - Digitize and Migrate the Data

- Digitize the hard copy data
- Process the preliminary data cleaning and validation

- Migrate the complete data in the respective databases.

Stage II – Nominations of Data Collection Focal Personals at District Level

- For the selection of nomination from all districts by selecting a member (WMO or field engineer) from each district of Balochistan.

Stage III - Training and Capacity Building

Training was designed for multiple groups of users as mentioned below:

- DG, OFWM, Balochistan / Representative
- Regional Directors, OFWM, Balochistan.
- Deputy Directors, OFWM, Balochistan
- Field Teams, OFWM, Balochistan
- Project Consultants (NWMC) – Balochistan

The DG, OFWM, Balochistan has nominated a Focal Person to perform the following assignments:

- Coordination between DG, OFWM, Balochistan & PMIS team of ME&IE Consultants.
- Coordinate with the PMIS team for bottlenecks/problems resolution
- Coordinate with District DDs to facilitate the PMIS team
- Provide any other technical support on behalf of DG OFWM department

Data Entry Responsibility (OFWM):

The OFWM field staff were nominated to fill the missing previously completed and on-going schemes and validate the data through a customized android base application developed by the ME&IE consultants. The ME&IE Consultants are fully engaged to give them facilitations in data feeding or any trouble shooting.

Data Verification Responsibility (OFWM & ME&IE):

After conducting the training successfully, the ME&IE PMIS team receives data (Aggregate Server) from OFWM Staff through customized Android-based applications, and after cleaning and validation the wrong data are communicated to concerned staff for correction.

Benefits of GIS-based Management Information System:

- Comprehensively tracking the project inputs and outputs using mainly the set of key performance indicators outlined under each component at frequent intervals.
- Monitoring of project outcome indicators.

- Robustly analysing the relevant ME&IE data.
- Reporting progress on an open-access and regular basis, to support knowledge sharing, greater transparency, and improved project governance.

Pics of training/workshop conducted on 7th and 8th Dec. 2022:



Recitation of Holy Quran by DTL, ME&IE Consultants.
First day of training.



View of training by ICT Team.





View of participants.



View of training certificates distribution. Last Day of Training.



The OFWM field staff doing practical work / Mock Exercise through an Android Application.



NPIWC-II, MIS Balochistan, Group:



The Team Leader, ME&IE Consultants give speech on Monitoring & Evaluation aspects.



The ME&IE Consultants have made a group of all field staff of OFWM to resolve the issues related to Android Data Application timely. The ME&IEC are fully engaged with the field staff of OFWM to accomplish this task as soon as possible. The field staff of OFWM are also visiting the ME&IEC office, physically to discuss the issues and for assistance in data uploading. The FTI/Focal Person and other ME&IE Consultants staff provide their full support and cooperation to the Field Staff of OFWM, Balochistan in data feeding.



The newly appointed Mr. Jahangir Marri, Agriculture Officer, District Kohlu visited the ME&IEC office to learn how to operate the Android Data Application, dated 30th Dec. 2022.

4.8.7 Visit of 05 Divisional Headquarter to Collect the Dashboard Data – Balochistan

The ME&IE Consultants conducted a two-day training/workshop regarding data collection through Android Application on 7th and 8th December 2022 in Quetta. It was observed the progress of data receiving was quite weak, in spite of several reminders. Therefore ME&IE Consultants planned a rush plan to visit all districts' headquarters to expedite the work and give them support and assistance too. The activity was carried out in a phased manner. In the first phase, ME&IE Consultants covered five Divisions i.e Quetta, Naseerabad, Sibi, Zhob and Loralai in the month of January 2023. The second phase was conducted in the month of February 2023 and covered remaining 03 divisions i.e., Kalat, Makran, and Rakshan. In these activities, multiple meetings and data-feeding / data-validation activities were conducted.

4.8.7.1 Meetings of ME&IE Consultants – Balochistan

During this year enormous meetings were held by the ME&IEC, Balochistan with client and other stakeholders. The detail of few important meetings is given below:

Date	19 July 2022
Venue	Office of the DDA, OFWM Killa Saifullah
Participants	
<ul style="list-style-type: none"> Mr. Abdul Khaliq Jogeza, DDA, OFWM, Agriculture Department, Govt. of Balochistan. Mr. Molvi Rozi Khan Mr. Mati Ullah Sub-Engineer, OFWM Mr. Manzoor Ahmad Kasi ME&IE Expert, ME&IEC Mr. Qaisar Khan, ME&IE Officer, ME&IEC 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> The work plan regarding Midline Survey shared by OFWM staff The protocols and required data regarding Midline Survey were discussed The DDA ensured ME & IEC for entire support and coordination at all times. 	
	



Meeting in the office of DDA Dist. Killa Saifullah

Date	20 July 2022
Venue	Office of the DDA, OFWM, Mastung
Participants	
<ul style="list-style-type: none"> Mr. Faqir Muhammad, DDA, OFWM, Mastung Mr. Sher Ahmed, Sub-Engineer, OFWM Mr. Dad Muhammad, Sub-Engineer, OFWM Mr. Manzoor Ahmed Kasi, FTI/M&E Expert. Mr. Basit Khan, M&E Officer Mr. Hamza H. Qureshi, M&E Officer 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> Beneficiary's lists F.Y 2020-2021 and 2021-2022 Scheme Files Technical Sanctions 	



Meeting in the Office of the DDA OFWM, Mastung

Date	20/07/2022
Venue	Deputy Director OFWM Office Loralai
Participants	
<ul style="list-style-type: none"> Muhammad Anwar, DDA, OFWM. Abdul Hadi, Engineer OFWM Naseeb Jan FTI/M&E Expert 	
Meeting Agenda/Points discussed:	
<p>Discussion held on midline survey activities.</p> <ul style="list-style-type: none"> Discussions on overall monitoring activities to be done once planned. Discussed beneficiaries lists in detail. The Deputy Director appreciated and extended his maximum support to the ME & IE team for such activities in his district. 	



Meeting in the office of DDA Dist. Loralai

Date	27 July 2022
Venue	Office of the DG, OFWM, Agriculture Department, Govt. of Balochistan, Rani Bagh, Sariab Road, Quetta.

Participants

- Mr. Abdul Wahab Kakar, Director General, OFWM, Balochistan.
- Mr. Bashir Agha, Director, PMU, National Programme, Balochistan
- Mr. Khalid Mehmood, DTL, NWMC, NESPAK, Balochistan
- Mr. Rizwan Ahmed, DTL, ME&IEC, G3EC, Balochistan

Meeting Agenda/Points discussed:

- Discussed overall progress of National Program
- Discussed strategy for news works F.Y. 2022-23 (Different suggestions were given by all participants)
- The DTL, ME&IEC Consultants highlight the long pending issue regarding provisions of data for Dashboard. The DG gave necessary directives to concerned officials at the spot and assured that required data will be provided to ME & IEC as soon as possible.
- It was decided a coordination meeting of all stakeholders will be conducted every 2 months.



Meeting held in Office of Director General, OFWM, Balochistan

Meeting Agenda/Points discussed:

- A meeting was held with DG, OFWM, Balochistan regarding data collection for Dashboard, Balochistan.



Meeting held in Office of Director General, OFWM, Balochistan

Date	12 Sep. 2022
Venue	Office of the DG, OFWM, Agriculture Department, Govt. of Balochistan, Rani Bagh, Sariab Road, Quetta.

Participants

- Mr. Asif Kakar, NPC, FPMU, NPIWC-II
- Mr. Abdul Wahab Kakar, Director General, OFWM, Balochistan.
- Mr. Bashir Agha, Director, Water Management
- Mr. Abdul Wali, Deputy Director, Technical, OFWM, Quetta.
- Mr. Behram Malgani, Agriculture Officer, OFWM, Quetta.
- Mr. Khalid Mehmood, DTL, NWMC, NESPAK, Balochistan
- Mr. Rizwan Ahmed, DTL, ME&IEC, G3EC, Balochistan
- Mr. Manzoor Kasi, M&E Expert, ME&IE Consultants.

Meeting Agenda/Points discussed:

- A presentation on overall progress of National Programs given by DG, OFWM, Balochistan to the NPC, FPMU, NPIWC-II.
- The issues regarding funding, project budget was discussed
- A report regarding flood damages was presented to the NPC, FPMU, NPIWC-II.
- The targets / funds for F.Y. 2022-23 were discussed.
- The NPC, FPMU, NPIWC-II discussed the issues facing ME & IEC regarding collecting the data for Dashboard, Balochistan. The DG, OFWM, Balochistan assured the NPC and ME&IEC for their best cooperation in this regard and the DG, OFWM, Balochistan give necessary directions to all DDs to provide desire data to ME&IEC immediately

Date	10 Sep. 2022
Venue	Office of the DG, OFWM, Agriculture Department, Govt. of Balochistan, Rani Bagh, Sariab Road, Quetta.

Participants

- Mr. Abdul Wahab Kakar, Director General, OFWM, Balochistan.
- Mr. Manzoor Kasi, M&E Expert, ME&IE Consultants.



Meeting held in Office of Director General, OFWM, Balochistan

Date	30 Sep. 2022
Venue	Office of the DG, OFWM, Agriculture Department, Govt. of Balochistan, Rani Bagh, Sariab Road, Quetta.
Participants	
<ul style="list-style-type: none"> Mr. Abdul Wali, Deputy Director, Technical, OFWM, Quetta. Mr. Behram Malghani, Agriculture Officer, OFWM, Quetta Mr. Rizwan Ahmed, DTL, ME&IEC, Balochistan. Mr. Manzoor Kasi, M&E Expert, ME&IE Consultants. 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> A meeting was held with Deputy Director, Abdul Wali, Deputy Director, Technical, OFWM, Quetta and Mr. Behram Malghani, Agriculture Officer, OFWM, Quetta regarding data collection for Dashboard, Balochistan. 	



Meeting held in Office of Director General, OFWM, Balochistan

Date	03 Oct. 2022
Venue	Office of the DG, OFWM, Balochistan
Participants	
<ul style="list-style-type: none"> Mr. Abdul Wali, Deputy Director, Technical, OFWM, Balochistan, Quetta. Mr. Rizwan Ahmed, DTL, ME&IE Consultants, NPYWC-II, Balochistan. 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> A meeting was held on point agenda with DD, Technical regarding data collection of missing data of F.Y. 2019-20, 2020-21 and 2021-22 for Dashboard, Balochistan. The works of F.Y. 2022-23 were also discussed. 	

Date	03 Oct. 2022
Venue	Office of the DTL, NWMC, Arbab Karam Khan Road, Quetta.
Participants	
<ul style="list-style-type: none"> Mr. Khalid Mehmood, DTL, NWMC, NPIWC-II, Balochistan. Mr. Rizwan Ahmed, DTL, ME&IE Consultants, NPIWC-II, Balochistan. 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> A meeting was held with DTL, NWMC to discuss the project interventions. The DTL, ME&IE Consultants requested DTL, NWMC to provide updated physical progress of all interventions for Dashboard, Balochistan. 	

Date	04 Oct. 2022
Venue	Office of the DG, OFWM, Balochistan
Participants	
<ul style="list-style-type: none"> Mr. Behram Malghani, Agriculture Officer, OFWM, Balochistan, Quetta. Mr. Rizwan Ahmed, DTL, Balochistan ME&IE Consultants 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> A meeting was held with the Agriculture Officer, regarding data collection of missing data of F.Y. 2019-20, 2020-21 and 2021-22 for Dashboard, Balochistan. The Agriculture Officer shared some missing data of F.Y. 2019-20. The Agriculture rest assured DTL, ME&IE Consultants to provide all desired data with coordination of concerned DDs ASAP. 	

Date	5 th October, 2022
Venue	Office of the DG OFWM, Balochistan
Participants	
<ul style="list-style-type: none"> Mr. Abdul Wahab, DG OFWM, Balochistan Mr. Manzoor Ahmed Kasi, FTI/M&EE/Focal Person Mr. Hamza H. Qureshi, M&EO 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> Discussed about the Data required for Dashboard. Directions to DDA Headquarter about the Acquisition of Data. 	
<p>Meeting with Mr. Abdul Wahab, Director General, OFWM, Balochistan in his good office</p>	

Date	08 Oct. 2022
Venue	Office of the DTL, ME&IE Consultants, Arbab Karam Khan Road, Quetta.
Participants	
•	Mr. Khalid Mehmood, DTL, NWMC, NPYWC-II, Balochistan.
•	Mr. Rizwan Ahmed, DTL, ME&IE Consultants, NPIWC-II, Balochistan.
Meeting Agenda/Points discussed:	
•	The DTL, ME&IE Consultants welcomed DTL, NWMC in his new office and discussed different project related issues.
•	The DTL, ME&IE Consultants shared updated status of data received for Dashboard, Balochistan. The DTL, ME&IE Consultants also highlight the importance / effectiveness of Dashboard which will be beneficial for all stockholders to check any site of NPIWC-II anywhere or any time after implementation of Dashboard, Balochistan.

- Discussed field activities/Impact Assessment Survey.
- Discussed the beneficiaries' list of FY. 2022-23
- The DD talked about the losses faced due to heavy flood in last quarter



View of meeting's participants

Date	13 th October, 2022
Venue	Office of the DG OFWM, Balochistan
Participants	
•	Mr. Aminullah Bugti, DDA OFWM, Dera Bugti
•	Mr. Gohar Maghi, DDA OFWM, Jhal Maghi
•	Mr. Manzoor Ahmed Kasi, FTI/M&EE/Focal Person
•	Mr. Hamza H. Qureshi, M&EO
Meeting Agenda/Points discussed:	
•	Discussion about the Beneficiaries lists with respect to the dashboard of F.Y 2020-2021 and 2021-2022.



Meeting with DDs, OFWM.

Date	11 th November, 2022
Venue	DG Office, OFWM, Rani Bagh, Quetta.
Participants	
•	Mr. Abdul Wahab, DG, OFWM, Agriculture Department, GoB, Quetta.
•	Mr. Saifullah Ejaz Ch, Authorized Representative of JVs/Director G3EC
•	Mr. Rizwan Ahmed, Deputy Team Leader, ME&IE Consultants, Balochistan
•	Mr. Behram Mulghani, Agriculture Officer, OFWM, Quetta
•	Mr. Abdul Wali, DD Quetta, Mr. Manzoor Kasi, Focal Person / FTI, M&EC, Balochistan.
Meeting Agenda/Points discussed:	
•	The DG, welcomed the Authorized Representative of GV / Director, G3EC.
•	The DTL, Balochistan shared the updated progress of Balochistan Zone with DG, OFWM.
•	The backlogs regarding data collection for Dashboard, Balochistan shared by the Authorized Representative of JVs / Director, G3EC in detail.
•	The Authorized Representative of JVs / Director, G3EC gave a presentation to DG, OFWM and all Directors, OFWM on Dashboard.
•	The DG, OFWM ensured to M&E Consultants on their best cooperation at all times especially data providing for Dashboard, Balochistan.

Date	8 th Nov. 2022
Venue	Office of the DDA, OFWM, Pishin
Participants	
•	Mr. Faiz Ullah Shah, DDA OFWM
•	Mr. Naeem Tareen, WMO
•	Mr. Imran Agha, WMO
•	Mr. Manzoor Ahmad Kasi, FTI, M&EC
•	Mr. Qaisar Khan, M&E Officer, M&EC
•	Mr. Basit Ahmad, M&E Officer, M&EC
•	Mr. Muhammad Umair, M&E Officer, ME&EC
Meeting Agenda/Points discussed:	



View of meeting with DG, OFWM, Balochistan and the Authorized Representative of JVs / Director, G3EC giving a presentation to DG, OFWM and other staff

Date	11 th November, 2022
Venue	Office of the ME&IE Consultants, Arbab Karam Khan Road, Quetta.
Participants	
<ul style="list-style-type: none"> Mr. Asif Kakar, NPC, FPMU, NPIWC-II Mr. Saifullah Ejaz Ch, Authorized Representative of JVs/Director G3EC Mr. Rizwan Ahmed, Deputy Team Leader, ME&IE Consultants, Balochistan Mr. Manzoor Kasi, Focal Person / FTI, M&EC, Balochistan. All Field and Support Staff of ME&IE Consultants, Balochistan 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> The DTL, Balochistan shared updated progress of Balochistan Zone with NPC, FPMU. The IT Team will visit Balochistan Zone and finalize Dashboard Data along with implementation of Dashboard. Salary structure should be the same across the board as per respective cadre. Staff Salaries will be paid within one week. Tools, etc. will also be provided soon. 5. Mr. Saifullah Ejaz, Authorized Representative of JV of NPIWC-II will ensure his personal visits of Balochistan Zone once in a month by any means. The meeting ended with a vote of thanks from the 	

NPC, FPMU.



View of meeting and group of photos with NPC, FPMU, NPIWC-II at Zonal Office, Quetta.

Date	23 rd and 24 th November, 2022
Venue	DG Office, OFWM, Balochistan, Rani Bagh, Sariab Road, Quetta.
Participants	
<ul style="list-style-type: none"> Mr. Rizwan Ahmed, DTL, ME&IE Consultants, Balochistan. Mr. Behram Malgani, Agriculture Officer, Mr. Manzoor Kasi, Focal Persona / FTI, ME&IE Consultants. Mr. Rizwan Saleem, IT Specialist, ME&IE Consultants. Mr. Shumail, IT In charge, M&E Consultants 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> The IT Specialist, ME&IEC shared the format regarding data collection The OFWM gave their feedback on data collection format After detailed discussion of two days, the Format got finalized. The IT Specialist, ME&IEC give a presentation on new MTs The DTL, Balochistan briefed the forum about data collection on field and role and responsibilities. 	
	
	
	
<p><i>View of meeting and presentation at DG, OFWM Office, Quetta.</i></p>	
Date	30-11-2022
Venue	Circuit House, District Turbat/Kech.
Participants	
<ul style="list-style-type: none"> Mr. Asif Kakar, NPC, FPMU, NPIWC-II. Mr. Ali Raza, TL, NWMC. Mr. Mehbob, DD, OFWM, Kech Mr. Khalid Mehmood, DTL, NWMC, Balochistan Mr. Rizwan Ahmed, DTL, ME&IE Consultants, Balochistan. 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> The updated progress and issues were discussed The NPC, FPMU, NPIWC-II asked DD, Kech to submit his issues / problems after consultation with his staff for further submission. The law-and-order situation of Kech districts was discussed. The field visit plan was discussed. 	
Date	26 th November, 2022
Venue	ME&IEC Office, Marri Street, Arbab Karam Khan Road, Quetta.
Participants	
<ul style="list-style-type: none"> Mr. Khalid Mehmood, DTL, NWMC, Balochistan Mr. Rizwan Ahmed, DTL, ME&IE Consultants, Balochistan. 	



The worthy NPC, FPMU, NPIWC-II held a meeting with DD, OFWM, Kech District and Consultants at Circuit House, Kech.

Date	02-12-2022
Venue	Rest House, District Panjgor.

Participants

- Mr. Zaman, DD, OFWM, Panjgor
- Mr. Rizwan Ahmed, Deputy Team Leader, ME&IE Consultants, Balochistan
- Mr. Aminullah, Site Engineer, NWMC, District Panjgor.
- Mr. Saleem Abro, M&E Officer, ME&IE Consultants.

Meeting Agenda/Points discussed:

- The DTL, ME&IE Consultants shared the field plan with DD, OFWM, Panjgor
- The DD Panjgor shared updated data / beneficiary lists of previous financial years with ME&IEC.
- The DTL, ME&IE Consultants shared the issues regarding data collection and non-availability of record/data/files at sites.



View of meeting held with DD, OFWM, Panjgor Districts.

training / workshop conducted on capacity building / data submission through Android based Data Application.

- The IT team shared the Android Data Application with Focal Person of DG, OFWM and briefed him about Dashboard implementation.
- The issues / problems regarding data collection were also discussed.



View of meeting.

Date	12-12-2022
Venue	DG Office, OFWM, Rani Bagh, Quetta.

Participants

- Mr. Bashir Agha, Director, Water Management, Agriculture Department, Balochistan, Quetta.
- Mr. Meharullah, Director, Monitoring, OFWM, Balochistan.
- Deputy Directors, OFWM, (all districts of Balochistan)
- Mr. Abdul Wali, DD, HQ, Quetta
- Mr. Behram Mulghani, Agriculture Officer, OFWM, Quetta
- Mr. Yasir, Agriculture Officer, OFWM, Quetta
- Mr. Khalid Mehmood, DTL, NWMC, Balochistan
- Mr. Rizwan Ahmed, Deputy Team Leader, ME&IE Consultants, Balochistan

Meeting Agenda/Points discussed:

- The Director, Water Management welcomed all the participants.
- All DDs shared the updated physical progress of their respective zones.
- The DTL, ME&IE Consultants highlight the issue of weak response of Field Staff, OFWM regarding data provision / validation on Android Data Application.
- The OFWM authorities asked all the DDs to provide the missing data and validate the available data as soon as possible.



Date	09-12-2022
Venue	Office of DG, OFWM, Sariab Road, Rani Bagh, Quetta.

Participants

- Mr. Behram Mulghani, Agriculture Officer, OFWM / Focal Persona.
- Dr. Usman Mustafa, TL, ME&IE Consultants.
- Mr. Rizwan Ahmed, DTL, ME&IEC, Balochistan.
- Mr. Shumail, IT Expert, ME&IEC.

Meeting Agenda/Points discussed:

- The ME&IE Consultants thanked to Focal Persona of DG, OFWM on his support to make successful the



Progress Review Meeting held in good office of DG, OFWM, Sariab Road, Quetta

Date	21-12-2022
Venue	Office of DD, OFWM, Jaffarabad.
Participants	
•	Mr. Tariq Baloch, FIT / M&E Expert, ME&IE Consultants.
•	Field Staff, OFWM, Jaffarabad.
Meeting Agenda/Points discussed:	
•	A meeting was held of ME&IE Consultants with Field Staff, OFWM at DD Office, Jaffarabad regarding data entry / validation of data through Android Data Application.
•	The Field Staff shared the issues and problems regarding data provision.
	
<p>View of Meeting at DD, OFWM, Jaffarabad.</p>	

Date	21-12-2022
Venue	Office of DG, OFWM, Sariab Road, Rani Bagh, Quetta.
Participants	
•	Mr. Behram Mulghani, Agriculture Officer, OFWM, Balochistan, Quetta.
•	Mr. Rizwan Ahmed, DTL, ME&IE Consultants, Balochistan.
Meeting Agenda/Points discussed:	
•	The ME&IE Consultants thanked to Focal Persona of DG, OFWM on his support to make successful the training / workshop conducted on capacity building / data submission through Android based Data Application.
•	The DTL, ME&IE Consultants shared updated progress of data received at district level.
	
<p>Meeting with Mr. Behram, Agriculture Officer, OFWM / Focal Person at DG, Office, Quetta.</p>	

Date	17 th January 2023
Venue	Zonal Office, Quetta
Participants	
•	Mr. Mukhtar Ahmed, DD, OFWM, Ziarat
•	Mr. Rizwan Ahmed, DTL, ME&IEC, Balochistan
Meeting Agenda/Points discussed:	
•	The DD, OFWM, and Ziarat visited the Consultant's office at Quetta to discuss the data-feeding issues they are facing. The DTL provided him with an orientation on the Android data collection application since he was unable to attend the training provided by the IT Department of the Consultants.
	
<p>View of an internal meeting held to finalize the visit plan to collect data for Dashboard, Balochistan</p>	

Date	25 th January 2023
Venue	Zonal Office, Quetta
Participants	

<ul style="list-style-type: none"> Mr. Rizwan Ahmed, DTL, ME&IEC, Balochistan Mr. Manzoor Kasi, Focal Person / FTI, ME&IEC. Mr. Naseeb Jan, FTI, ME&IEC. Mr. Basit Kakar, M&E Officer, ME&IEC Mr. Qaisar Tareen, M&E Officer, ME&IEC Mr. Arsalan, M&E Officer, ME&IEC Mr. Umair, M&E Officer, ME&IEC Mr. Umair, Account Assistant, ME&IEC Mr. Nazeer, Computer Operator, ME&IEC
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Meeting Agenda/Points discussed:

- The DLT discussed the visit plan and assigned the task and timelines.
- FTIs shared visits plan with tentative expenses



View of the internal meeting held to finalize the visit plan to collect data for Dashboard, Balochistan

Date	26 th January 2023
Venue	Office of the DG, OFWM, Balochistan, Rani Bagh, Sariab Road, Quetta

Participants

- Mr. Rizwan Ahmed, DTL, ME&IEC, Balochistan
- Mr. Behram Mulghani, Focal Person, OFWM, Quetta
- Mr. Naseeb Jan, FTI, ME&IE Consultants

Meeting Agenda/Points discussed:

- The DTL, ME&IEC shared a visit plan to five divisional headquarters with Focal Person to collect the data of Dashboard, Balochistan at district levels.
- The Focal Person promptly responded and informed the DDs about the planned visits by the ME&IEC
- The Focal Person assured the ME&IEC of full support from the department at all levels.



View of meeting with Focal Persona, OFWM, Quetta.

Date	26 th January 2023
Venue	Office of the DD, Sibi

Participants

- Mr. Barkat Buledi, DDA, OFWM, Sibi
- Mr. Manzoor Kasi, Focal Person / FTI, ME&IE Consultants,
- Mr. Qaisar Tareen, M&E Officer, ME&IE Consultants
- Mr. Basit Kakar, M&E Officer, ME&IE Consultants.

Meeting Agenda/Points discussed:

- The ME&IE Consultants visited the office of DD, OFWM, Sibi twice to resolve the issues regarding data uploading.
- There were issues with the availability of data in the Sibi district, but the OFWM staff was advised to fill in the available data and resolve these issues with the support of the DG Office.



Group photo of OFWM and ME&IE Consultants staff at Sibi Office.

Date	25 th January 2023
Venue	Office of the DG, OFWM, Balochistan, Rani Bagh, Sariab Road, Quetta

Participants

- Mr. Wahab Kakar, DG, OFWM, Agriculture Department, Govt. of Balochistan, Quetta
- Mr. Rizwan Ahmed, DTL, ME&IEC, Balochistan
- Mr. Behram Mulghani, Focal Person, OFWM, Quetta

Meeting Agenda/Points discussed:

- The DTL, ME&IEC shared updated progress of data received from DDs on Dashboard, Balochistan
- DTL, ME&IEC shared the grievances of the consultant regarding the weak response of DDs regarding data validation on Dashboard, Balochistan
- The DG, OFWM asked Focal Person, OFWM issue notices to all DDs to expedite the work and complete this task immediately, or else strict action will be taken by the department

Date	26 th January 2023
Venue	Punjab Zonal Office Lahore
Participants	
• Mr. Rizwan Ahmed, DTL, ME&IEC, Balochistan	
• Mr. Imran, Agriculture Officer, OFWM, Pishin.	
• Mr. Umair, Account Assistant, ME&IEC	
• Mr. Nazeer, Computer Operator, ME&IEC	
Meeting Agenda/Points discussed:	
• The OFWM staff of District Pishin visited the ME&IE Consultants.	
• The OFWM staff shared some issues they faced with data uploading, which were promptly resolved by the ME&IEC team.	
• The forum distributed the data entry works among OFWM and ME&IE Consultants staff so that it could be completed on time.	
	
<i>View of a meeting held at Zonal office, Quetta.</i>	

Date	27 th January 2023
Venue	Office of the DD, OFWM, Loralai
Participants	
• Mr. Muhammad Anwar, DDA, OFWM, Loralai	
• Mr. Niamat Ullah, DDA, OFWM, Musakhail	
• Mr. Tika Khan, Ex DDA, OFWM, Dukki	
• Mr. Muhammad Raza, Agriculture Officer, District Sherani	
• Mr. Naseeb Jan, FTI, ME&IE Consultants	
• Mr. Arsalan, M&E Officer, ME&IE Consultants.	
• Mr. Umair, M&E Officer, ME&IE Consultants.	
Meeting Agenda/Points discussed:	
• The ME&IEC field team met with DDs, OFWM, of District Loralai, and Musa Khail to discuss the issues regarding data collection of Dashboard, Balochistan.	
• The ME&IEC staff also met with Ex DD, OFWM, and Duki to solve the data issued regarding his tenure.	
• The DDs gave a very good response and now data feeding is in progress in these districts.	
	
	
<i>ME&IE Team Balochistan held a meeting with Deputy Director Loralai Mr. Muhammad Anwar, Deputy Director Musa Khail, Mr. Niamat Ullah, and Ex-Deputy Director Dukki Mr. Tika Khan at Divisional Head Quarter Loralai in terms of Data Validation for Dashboard and solve the issues hurdles being faced by them during data feeding via App in their respective Districts.</i>	

Date	29 th January 2023
Venue	Office of DD, OFWM, Kachi
Participants	
• Mr. Gohar Magsi, DD, OFWM	
• Mr. Manzoor Kasi, Focal Person / FTI, ME&IE Consultants,	
• Mr. Qaisar Tareen, M&E Officer, ME&IE Consultants	
• Mr. Basit Kakar, M&E Officer, ME&IE Consultants.	
Meeting Agenda/Points discussed:	
• The ME&IEC field team met with DD, OFWM, and Gohar Magsi to discuss the issues regarding data collection of Dashboard, Balochistan.	
• The ME&IEC staff solved the issues raised by the DD and their staff, and now the data-feeding process is in progress.	
	
<i>View of a meeting with DD, Gohar Magsi, and his staff</i>	

Date	28 th January 2023
Venue	Office of the DDA, OFWM, Jaffarabad
Participants	
• Mr. Manzoor Kasi, Focal Person / FTI, ME&IE Consultants.	

- The Sub Engineer, OFWM, District Dera Bugti.
- Mr. Qaisar Tareen, M&E Officer, ME&IE Consultants
- Mr. Basit Kakar, M&E Officer, ME&IE Consultants.

Meeting Agenda/Points discussed:

- The ME&IEC field team met with the OFWM staff of district Dera Bugti to discuss the matter of the dashboard.
- The OFWM staff of the Sibi district shared the issues / problems faced during the data collection and uploading. The ME&IEC staff resolve IT-related issues promptly.



View of a meeting of ME&IEC staff and OFWM staff, Dera Bugti

the OFWM staff, and now the data-feeding process is ongoing.



The ME&IEC staff give support to OFWM staff in data uploading of the dashboard.

Date	28 th January 2023
Venue	Office of the DD, OFWM, Jaffarabad

Participants

- Mr. Lal Jan, DDA, OFWM, Jaffarabad
- Mr. Manzoor Kasi, Focal Person / FTI, ME&IE Consultants,
- Mr. Qaisar Tareen, M&E Officer, ME&IE Consultants
- Mr. Basit Kakar, M&E Officer, ME&IE Consultants.

Meeting Agenda/Points discussed:

- The ME&IEC field team met with the OFWM staff of district Jaffarabad to discuss the matter of the dashboard.
- The OFWM staff of the Jaffarabad district shared the issues / problems faced during the data collection and uploading. The ME&IEC staff resolve IT-related issues promptly.



Meeting with DDA Jaffarabad and group photo of OFWM and Consultants staff

Date	28 th January 2023
Venue	Office of the DDA, OFWM, Loralai

Participants

- The OFWM Staff of District Loralai, Duki, and Musa Khail
- Mr. Naseeb Jan, FTI, ME&IE Consultants
- Mr. Arsalan, M&E Officer, ME&IE Consultants.
- Mr. Umair, M&E Officer, ME&IE Consultants.

Meeting Agenda/Points discussed:

- The ME&IEC field team visited the office of the DD, Loralai regarding data collection of Dashboard, Balochistan.
- The OFWM staff of Duki and Musakhail also joined this session and shared their problems faced during the data collection and uploading for the dashboard, Balochistan.
- The ME&IE consultants solved these issues raised by

Date	29 th January 2023
Venue	Office of the DD, OFWM, Sohbatpur

Participants

- Mr. Imdad, DDA, OFWM, SohbatPur
- Mr. Manzoor Kasi, Focal Person / FTI, ME&IE Consultants,
- Mr. Qaisar Tareen, M&E Officer, ME&IE Consultants

- Mr. Basit Kakar, M&E Officer, ME&IE Consultants.

Meeting Agenda/Points discussed:

- The ME&IEC field team visited the office of the DD, Sohbatpur regarding data collection of Dashboard, Balochistan.
- The ME&IE consultants solved these issues raised by the OFWM staff, and now the data-feeding process is ongoing.



View of meeting with Mr. Imdad, DDA, Mr. Qasim Sub Engineer and group photo of ME&IEC and OFWM staff at District Sohbatpur



View of group session at zonal office, Quetta regarding dashboard activities.



Date	30 th January 2023
Venue	The Zonal Office, Quetta of ME&IE Consultants.

Participants

- Mr. Rizwan Ahmed, DTL, ME&IEC, Balochistan
- Qari Basit, Sub Engineer, OFWM, Quetta
- Mr. Saleem Abro, M&E Officer, ME&IEC
- Mr. Umair, Account Assistant, ME&IEC
- Mr. Nazeer, Computer Operator, ME&IEC

Meeting Agenda/Points discussed:

- A group session was held in the office of DTL, ME&IEC, Quetta regarding data entry of Quetta district on the dashboard, Balochistan
- The DTL, ME&IEC distributed the data feeding task among OFWM and ME&IEC staff so that the data feeding could be completed on time keeping in mind the lack of staff in the Quetta district.

Date	30 th January 2023
Venue	Punjab Zonal Office Lahore
Participants	

- Mr. Noor Ahmed, DD, OFWM, District Quetta
- Mr. Faqir Muhammad, DD, OFWM, District Mastung
- Mr. Rizwan Ahmed, DTL, ME&IEC, Balochistan
- Mr. Nazeer, Computer Operator, ME&IEC

Meeting Agenda/Points discussed:

- The ME&IE Consultants visited the office of DD, Quetta, and met with DD, Quetta, and DD, Mastung, and discussed the issues faced by the OFWM staff regarding data uploading for the dashboard, Balochistan.
- The DD Quetta informed the DTL that he has a shortage of staff, the DTL offered him services of ME&IEC and distributed the works among OFWM and ME&IE Consultants so that the missing data could be filled in the stipulated time.



View of meeting with DD, Quetta at his office.

Date	30th January 2023
Venue	Punjab Zonal Office Lahore

Participants

- Mr. Umar Khan, WMO, OFWM, Zhob
- Mr. Muhammad Raza, Agriculture Officer, District Sherani
- Mr. Naseeb Jan, FTI, ME&IE Consultants
- Mr. Arsalan, M&E Officer, ME&IE Consultants.
- Mr. Umair, M&E Officer, ME&IE Consultants.

Meeting Agenda/Points discussed:

- The ME&IEC field team visited the office of the DD, Zhob regarding data collection of Dashboard, Balochistan.
- The ME&IEC staff also covered district Sheerani at the Zhob office and solved the issues and uploaded the data of Sheerani.
- The OFWM staff shared some issues they faced with data uploading, which were promptly resolved by the ME&IEC team and briefed them about the importance of dabs board implementation.



View of meeting at District Zhob

- Mr. Qaisar Tareen, M&E Officer, ME&IE Consultants
- Mr. Basit Kakar, M&E Officer, ME&IE Consultants.

Meeting Agenda/Points discussed:

- The ME&IEC field team visited the office of the DD, DM Jamali regarding data collection of Dashboard, Balochistan.
- The ME&IEC staff also met with DD, Jaffarabad, and discussed the issues regarding the dashboard, Balochistan.
- The Naseerabad zone gave a good and prompt response to ME&IE staff and completed their zones in the stipulated time.



group photo of ME&IEC staff with DDA Dera Murad Jamali. Mr. Saeed Khosa, DDA Jaffarabad. Mr. Lal Jan Kethran, along with their staff at DM Jamali.

Date	31 st January 2023
Venue	Office of the DD, OFWM, Mastung

Participants

- Mr. Faqir Muhammad, DD, OFWM, Mastung
- Mr. Rizwan Ahmed, DTL, ME&IE Consultants, Balochistan
- Mr. Shair Ahmed, Sub Engr. OFWM, Mastung
- Mr. Sultan Ahmed, Sub Engineer, OFWM, Mastung
- Mr. Umair, ME&IE Consultants
- Mr. Nazir, ME&IE Consultants

Meeting Agenda/Points discussed:

- The ME&IEC field team visited the office of the DD, Mastung regarding data collection of Dashboard, Balochistan.
- The DD, OFWM, and their staff shared some issues

Date	30 th January 2023
Venue	Office of the DD, OFWM, Dera Murad Jamali

Participants

- Mr. Saeed Khosa, DDA, OFWM, Dera Murad Jamali
- Mr. Lal Jan Kethran, DD, OFWM, Jaffarabad
- Mr. Manzoor Kasi, Focal Person / FTI, ME&IE Consultants,

they faced with data uploading, which were promptly resolved by the ME&IEC team.

- The process of uploading data is ongoing.
- All participants agreed on a date to complete the task by 2nd Feb. 2023.



Address the Field Team and discussion on MTs about the Social & Gender aspect.



Trickle down on data feeding and Data validation for the Dashboard at district Kila Saifullah.

Date	31 st January 2023
Venue	Office of the DDA, OFWM, Dhadar.
Participants	
• The DDA, OFWM, Dhadar	
• Mr. Manzoor Kasi, Focal Person / FTI, ME&IE Consultants,	
• Mr. Qaisar Tareen, M&E Officer, ME&IE Consultants	
• Mr. Basit Kakar, M&E Officer, ME&IE Consultants.	

Meeting Agenda/Points discussed:

- The ME&IEC field team visited the office of the DD, Dhadar regarding data collection of Dashboard, Balochistan.
- The DD, OFWM, and their staff shared some issues they faced with data uploading, which were promptly resolved by the ME&IEC team.
- The process of uploading data is ongoing.



Office of DDA Dhadar, along with Sub Engineer. Uploading the data of FY 2021-22, Dist Dhadar, Naseerabad Division

Date	31 st January 2023
Venue	Office of the DD, OFWM, Killa Saifullah
Participants	
• Mr. Muhammad Sadiq, DD, OFWM, Barkhan	
• Mr. Abdul Salam, Sub Engineer, OFWM, Killa Saifullah	
• Mr. Naseeb Jan, FTI, ME&IE Consultants	
• Mr. Arsalan, M&E Officer, ME&IE Consultants.	
• Mr. Umair, M&E Officer, ME&IE Consultants.	
Meeting Agenda/Points discussed:	
• The ME&IEC field team visited the office of the DD, Killa Saifullah, where they met with OFWM staff of Killa Saifullah and DD, OFWM, Barkhan regarding data collection of Dashboard, Balochistan.	
• The OFWM staff shared some issues they faced with data uploading, which were promptly resolved by the ME&IEC team and briefed them about the importance of dabs board implementation.	
• The OFWM staff gave a very positive response and the process of uploading data is now ongoing.	

Date	1 st February 2023
Venue	Office of DD, OFWM, Ziarat.
Participants	

- Mr. Mukhtiar Ahmed, Kakar, DD, OFWM, Ziarat.
- Mr. Naseeb Jan, FTI, ME&IE Consultants
- Mr. Arsalan, M&E Officer, ME&IE Consultants.
- Mr. Umair, M&E Officer, ME&IE Consultants.

Meeting Agenda/Points discussed:

- The ME&IEC field team met with DD, OFWM, and Ziarat and provided him with support in data feeding, the Dashboard, of Balochistan.
- The DD, and OFWM shared some issues they faced with data uploading, which were promptly resolved by the ME&IEC team.
- The process of uploading data is ongoing.



ME&IE Team Balochistan is engaged with Ex-DD OFWM Ziarat Mr. Mukhtar Ahmad Kakar Deputy Director OFWM office Ziarat in terms of Data feeding and Data Validation for the Dashboard.

during the data collection and uploading for the dashboard, Balochistan.

- The ME&IE consultants solved these issues raised by the OFWM staff, and now the data-feeding process is ongoing.

View of data validation by OFWM staff of Rakshan Division at district Kharan



Date	10 th February 2023
Venue	Office of the DD, OFWM, Noshki.

Participants

- Mr. Dad Muhammad, AE, OFWM, District Noshki
- Mr. Abdul Ghaffar, SE, OFWM, District Noshki
- Mr. Syed Arif Shah, AAE, OFWM, District Washuk
- Mr. Naseeb Jan, FTI / M&E Expert, ME&IEC, Balochistan
- Mr. Muhammad Umair, M&E Officer ME&IEC, Balochistan

Meeting Agenda/Points discussed:

- An official meeting was held with OFWM staff at district Noshki.
- The OFWM staff shared some issues they faced with data uploading, which were promptly resolved by the ME&IEC team and briefed them about the importance of dabs board implementation.



meeting held with OFWM staff at district Noshki

Date	11 th February 2023
Venue	Office of the DD, OFWM, Noshki.
Participants	

Date	09 th February 2023
Venue	Office of the DD, OFWM, Kharan.

Participants

- Mr. Zia ur Rehman SE OFWM, District Kharan
- Mr. Safar Khan SE OFWN District Chaghi
- Mr. Mujeeb ur Rehman, WMO, OFWM
- Mr. Abdul Latif AE, Dawood Khan, OFWM, District Washuk
- Mr. Abdul Salam AAE, OFWM
- Mr. Naseeb Jan FTI / M&E Expert, ME&IEC, Balochistan
- Mr. Muhammad Umair M&E Officer ME&IEC

Meeting Agenda/Points discussed:

- The ME&IEC field team visited the Rakshan Division regarding data collection / validation of Dashboard, Balochistan of respective districts.
- The OFWM staff of Chagai and Washuk District also joined this session and shared their problems faced

- Mr. Abdul Ghaffar, OFWM SE. Noshki
- Mr. Dad Muhammad AE OFWM Noshki
- Mr. Syed Arif Shah AAE OFWM, Washuk
- Mr. Naseeb Jan FTI / M&E Expert, ME&IEC, Balochistan
- Mr. Muhammad Umair M&E Officer ME&IEC

Meeting Agenda/Points discussed:

- The ME&IEC field team visited the office of the DD, Noshki, where they met with OFWM staff of respective districts regarding data collection of Dashboard, Balochistan.
- The OFWM staff gave a very positive response and the process of uploading data is now ongoing.



Data validation of districts Noshki and Washuk at District Noshki.



View of DD Office, Khudar and data validation of district Khuzdar



Date	10 th February 2023
Venue	Zonal Office, Quetta
Participants	
<ul style="list-style-type: none"> • Mr. Tariq, Agriculture Officer, OFWM, District Khuzdar • Mr. Muhammad Khan, Agriculture Officer, OFWM, District Khuzdar. • Mr. Manzoor Kasi, Focal Person / FTI, ME&IEC. • Mr. Arsalan, M&E Officer, ME&IEC 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> • The DLT discussed the visit plan and assigned the task and timelines. • FTIs shared visits plan with tentative expenses 	



Date	09 th February 2023
Venue	Office of the DD, Panjgur
Participants	
<ul style="list-style-type: none"> • Mr. Zaman, DD, OFWM, District Panjgur. • Mr. Muhammad Ashraf, Secretary, Marking Committee, Agriculture Department, District Panjgur. • Mr. Skindar, Sub Engr. OFWM, District Panjgur • Agriculture Officer, OFWM, District Panjgur • Mr. Manzoor Kasi, Focal Person / FTI, ME&IE Consultants, • Mr. Arsalan, M&E Officer, ME&IE Consultants 	

Meeting Agenda/Points discussed:
<ul style="list-style-type: none"> • The ME&IE Consultants visited the two divisions Makran and Kalat, and met with OFWM staff regarding data collection / validation. • The ME&IE consultants solved the issues raised by the OFWM staff, and now the data-feeding process is ongoing.





Group photo of OFWM and data validation / uploading at District Panjgur.

Date	27 th March 2023
Venue	Agriculture Office, Rani Bagh, Sariab Road, Quetta
Participants	
<ul style="list-style-type: none"> Mr. Abdul Wahab Kakar, Director General, OFWM, Agriculture Department, Balochistan (Chair) Mr. Bashir Agha, Director, Water Management, Agriculture Department, Balochistan, Quetta. Mr. Meharullah, Director, Monitoring, OFWM, Balochistan. Mr. Fahim Tareen, Director, Agriculture Department. Deputy Directors, OFWM, (all districts of Balochistan) Mr. Abdul Wali, DD, HQ, Quetta Mr. Behram Mulghani, Agriculture Officer, OFWM, Quetta Mr. Khalid Mehmood, DTL, NWMC, Balochistan Mr. Rizwan Ahmed, Deputy Team Leader, ME&IE Consultants, Balochistan 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> All DDs and both consultants, NWMC and ME&IEC, shared their progress as of February 28, 2023. The issues related to the works of FY 2022-23 were discussed in detail. The DG, OFWM advised all DDs to give their budget as per the finalized beneficiary list so that physical works could be started immediately (FY 2022-23). The DTL of ME&IEC gave a presentation on updated status regarding "dashboard data validation" by OFWM staff. The DG of OFWM gave necessary directions to all DDs to complete the validation task immediately and consult with ME&IEC in case of any difficulty. The DTL of ME&IEC requested all DDs to upload the beneficiary list (FY 2022-23) on the dashboard after finalizing/completing the departmental process so that the 3rd Baseline Survey could be started accordingly. 	



View of meeting held at Agriculture Department, Rani Bagh, Sariab Road, Quetta.

Date	5 th May 2023
Venue	ME&IE Consultants Office, Arbab Karam Khan Road, Marri Street, Quetta
Participants	
<ul style="list-style-type: none"> Mr. Rizwan Ahmed, DTL, ME&IE Consultants, NPIWC-II, Balochistan, Quetta Mr. Manzoor Kasi, Focal Person / FTI, ME&IE Consultants, NPIWC-II, Balochistan Mr. Naseeb Jan, FTI / M&E Expert, ME&IE Consultants, 	

NPIWC-II, Balochistan
• Mr. Basit Kakar, M&E Officer, ME&IE Consultants, NPIWC-II, Balochistan
• Mr. Qaisar Tareen, M&E Officer, ME&IE Consultants, NPIWC-II, Balochistan
• Mr. Arsalan, M&E Officer, ME&IE Consultants, NPIWC-II, Balochistan
• Mr. Saleem Abro, M&E Officer, ME&IE Consultants, NPIWC-II, Balochistan
• Mr. Umair, M&E Officer, ME&IE Consultants, NPIWC-II, Balochistan
• All Support Staff ME&IE Consultants, NPIWC-II, Balochistan, Quetta

Meeting Agenda/Points discussed:

- The planning, strategy, and sampling size for Baseline – III were discussed.
- The FTIs shared an updated status regarding the Dashboard in Balochistan. The problems and hurdles regarding data uploading and validation of the Dashboard in Balochistan were also discussed in detail.
- The DTL shared a mechanism to maintain office decorum. All staff agreed and ensured their cooperation and compliance.



View of internal meeting held at Zonal Office, Quetta.

(F.Y. 2022-23) to DTL, Balochistan.

- The beneficiary list of F.Y. 2022-23 were discussed.
- The DTL shared / discussed the updated states and issues of Dashboard, Balochistan.



Meeting with Focal Person, OFWM, Agriculture Deptt, Balochistan, Quetta.

Date	25 th May 2023
Venue	Agriculture Office, Rani Bagh, Sariab Road, Quetta

Participants

- Mr. Pir Muhammad, DD, OFWM, District, Sherani,
- Mr. Naseeb Jan, FTI / M&E Expert, ME&IE Consultants.

Meeting Agenda/Points discussed:

- The data being found missed in terms of validation & feeding for Dashboard, Balochistan have been discussed
- Requested the DD, Sherani to provide beneficiary list for FY 2023-24 for upcoming Baseline
- Regular monitoring of WC & WST also came into discussion.



Meeting with DD, Sherani, OFWM, Balochistan

Date	23 rd May 2023
Venue	Agriculture Office, Rani Bagh, Sariab Road, Quetta
Participants	
<ul style="list-style-type: none"> • Mr. Behram Mulghani, Focal Person, OFWM, Agriculture Deptt, Balochistan, Quetta. • Mr. Rizwan Ahmed, DTL, ME&IE Consultants, NPIWC-II, Balochistan, Quetta 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> • The focal person gave district wise targets of NPIWC-II 	

Date	26 th May 2023
Venue	Agriculture Office, Rani Bagh, Sariab Road, Quetta
Participants	
<ul style="list-style-type: none"> • Mr. Ali Raza Jamali, Director General, OFWM, Agriculture Department, Balochistan, Quetta. • Mr. Manzoor Kasi, FTI / M&E Expert, ME&IE Consultants. 	
Meeting Agenda/Points discussed:	
<ul style="list-style-type: none"> • The beneficiary list of FY 2022-23 was discussed in detail. 	

- The progress of data validation and uploading of Dashboard, Balochistan by DDs were discussed.
- The DG, OFWM updated by Focal Person about the updated progress of ME&IE Consultants.



Meeting with Ali Raza Jamali, Director General, Agriculture, OFWM, Balochistan, Quetta.

- The Grievances Redress Mechanisms (GRM) for NPIWC-II were discussed.
- The progress of data validation and uploading of Dashboard, Balochistan by DDs were discussed.
- The DG, OFWM updated by Focal Person about the updated progress of ME&IE Consultants.

Date	29 th May 2023
Venue	Agriculture Office, Rani Bagh, Sariab Road, Quetta

Participants

- Mr. Habib Ullah, WMO, OFWM, District Zhob.
- Mr. Naseeb Jan, FTI / M&E Expert, ME&IE Consultants.

Meeting Agenda/Points discussed:

- The FTI shared updated progress of field activities of the Division.
- The FTI requested the OFWM staff to provide beneficiary list of FY 2023-24 for upcoming Baseline
- The missing data regarding Dashboard, Balochistan (Zhob Division) was discussed in detail



Meeting with WMO, OFWM, Zhob District

Month	May 2023
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The Focal Person, ME&IE Consultants met/ contacted with multiple OFWM officials as listed below:

- Mr. Yahya, DD, OFWM, OFWM, Agriculture Department, District, Duki
- Mr. Shahid Ronjha, DD, OFWM, OFWM, Agriculture Department, District Lasbela
- Mr. Imdad, DD, OFWM, Agriculture Department, District Sohbatput.
- Mr. Inam, DD, OFWM, OFWM, Agriculture Department, District Dera Bugti.
- Mr. Lal Jan Kethran, DD, OFWM, OFWM, Agriculture Department, D. M. Jamali
- Mr. Muhammad Saeed, DD, OFWM, OFWM, Agriculture Department, Usta Muhammad.
- Mr. Sanaullah Badini, DD, OFWM, OFWM, Agriculture Department, District Nushki,
- Mr. Zaman, DD, OFWM, OFWM, Agriculture Department, District Panjgur
- Mr. Chakar Khan, OFWM, OFWM, Agriculture Department, District Gwadar

Points discussed:

- The beneficiary list of FY 2022-23 was discussed in detail.
- The progress of data validation and uploading of Dashboard, Balochistan by DDs were discussed.
- The DG, OFWM updated by Focal Person about the updated progress of ME&IE Consultants.

Date	07 June 2023
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Venue	ME&IE Consultants Office, Arbab Karam Khan Road, Marri Street, Quetta
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Participants

- Hafiz Abdul Rauf, Member PBOM, ME&IE Consultants, NPIWC-II.
- Mr. Rizwan Ahmed, DTL, ME&IE Consultants, NPIWC-II, Balochistan, Quetta
- Mr. Manzoor Kasi, Focal Person / FTI, ME&IE Consultants, NPIWC-II, Balochistan
- 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.

Month	May 2023
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The DTL Balochistan, ME&IE Consultants met / contacted with multiple OFWM officials as list below:

- Mr. Abdul Wali, Deputy Director, Technical, OFWM, Agriculture Department, Quetta
- Mr. Asif, DD, OFWM, Agriculture Department, District Kharan
- Mr. Noor Ahmed, DD, OFWM, Agriculture Department, District, Quetta

Points discussed:

- 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.



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

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, NPIWC-II. They expressed their best wishes for the continued success of the NPIWC-II project in his new role and appreciated his dedication and contributions.



Farewell Party in honor of DTL, Balochistan.

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, NPIWC-II, 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 toward achieving project objectives and milestones.

4.8.8 Success Story

Success story of intervention under the Project "National Program for Improvement of Watercourses in Pakistan, Phase-II (NPYWC-II)"

Construction of Water Storage Tank, F.Y. 2020-21, Scheme Waseemullah Khan, Killi Qambrani, District Quetta, Balochistan



Balochistan has been blessed with all types of ecological zones; the only limiting factor is water. By using water storage tanks, farmers can efficiently store and utilize water for irrigation, ensuring that water is not wasted. With a water storage tank, farmers have greater flexibility in when they water their crops. They can store water during times when it is plentiful and use it during times when it is scarce, providing greater control over their irrigation schedule. Overall, the use of water storage tanks can help farmers maximize their crop yields and improve the sustainability of their agricultural practices, while also conserving valuable water resources.

There was a farmer named Waseemullah Khan who lived in a village called Mustafabad, Killi Qambrani, in District Quetta. He had been cultivating cucumbers on 16 tunnel farms for a long time. However, due to the limited availability of water, he could not expand his farm or increase production. Tunnel farming isn't quite as simple; fertilizers and sprays needed for tunnel farming are more in quantity compared to those needed for conventional farming. In tunnel farming, hybrid seeds are used which need high fertilization and high-water management, to achieve maximum yield. He used to get water from his own tube well.

One day, he heard about the NPIWC-II project, which provided water storage tanks to farmers on a cost-sharing basis, with the farmer contributing 25% and the government contributing 75%. He immediately applied to avail of this facility and contacted the concerned officials of OFWM, Balochistan. After fulfilling the formalities, his scheme was approved by the department and a water storage tank of 60'x60' was sanctioned. Mr. Waseem was quite optimistic that with the help of the water storage tank, he would be able to irrigate

his farm properly and increase the number of tunnel farms too.



After the construction of the WEST, Muhammad Waseem started to see the results of this intervention. With the better management of water, his cucumber plants had grown significantly, and the yield had increased too.



The quality of the cucumbers was also better, which helped him fetch a higher price in the market. Now the number of tunnels has increased from 16 to 29, and cucumber production has increased by 45%.



Impact on Livestock

After the provision of the WST, the farmer got a water-drinking facility for cattle and buffaloes. Now the farmer is raising fodder for livestock instead of relying on wild and native bushes to feed their animals. These activities will improve the nutritional status of all family members in general, specifically in females and kids. Pure fresh milk and other dairy items are also available for the whole family. The farmer is planning to increase livestock in the upcoming days.



fertilizer, resulting in uniform growth of plants and enhanced quality of products. Explaining the advantage of drip irrigation, 50 to 70 percent of irrigation water is being saved by the farmer through this technology. The technology also helps in the efficient utilization of fertilizer, and yield increases by up to 45 percent, with water application uniformity reaching over 90 percent.



As a result of this intervention, Muhammad Waseem's income had doubled, and he was able to provide a better life for his family. The increased production also helped create employment opportunities.

Drip Irrigation System:

He also installed a drip irrigation system, which helped him save water and ensured that the plants received the required amount of water. In drip irrigation, the soil is always kept at "field capacity," which enables the crop to easily absorb the required water and nutrients and grow healthier. Besides, each plant gets an equal share of water and

4.9 ICT TEAM ACTIVITIES (2022-23)

4.9.1 Implementation of MIS Dashboard

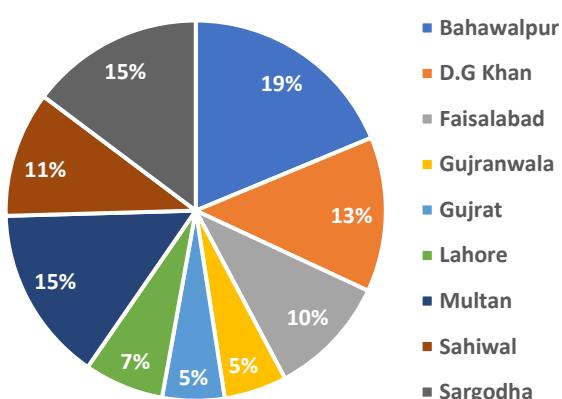
The Dashboard has been implemented in Punjab, KP, Balochistan, AJK and ICT zones:

The progress of Interventions is live on the Dashboard application.

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

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

Punjab – Division Wise Completed WC

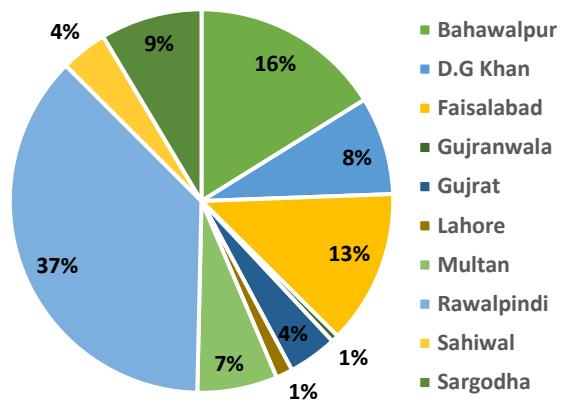


Total **911** Water Storage Ponds data have been received from Punjab zone and available live on GIS Dashboard. (Detailed Summary attached as **Annex-O**)

Punjab – WSP Data Summary				
Division	19-20	20-21	2021-22	Overall
Bahawalpur	23	46	91	160
D.G Khan	27	30	25	82
Faisalabad	24	48	57	129
Gujranwala	0	4	2	6
Gujrat	2	10	29	41
Lahore	0	9	5	14
Multan	16	25	26	67
Rawalpindi	0	174	194	368
Sahiwal	9	15	15	39

Punjab – WSP Data Summary				
Division	19-20	20-21	2021-22	Overall
Sargodha	6	32	47	85
Bahawalpur	23	46	91	160
Overall	107	393	491	991

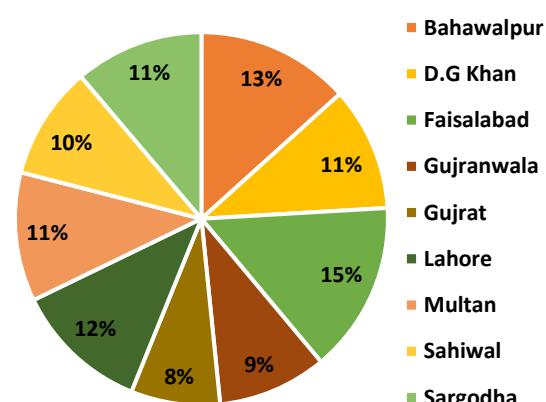
Punjab – Division Wise Completed WSP



So far, Total **6026** PLL data have been received from Punjab zone and available live on GIS Dashboard. All PLL units have been delivered and currently there's no under progress PLL unit as per received data. (Detailed Summary attached as **Annex-P**)

Punjab – PLL Data Summary					
Division	19-20	20-21	21-22	22-23	Overall
Bahawalpur	81	290	344	88	803
D.G Khan	50	228	277	93	648
Faisalabad	93	316	387	98	894
Gujranwala	49	214	283	25	571
Gujrat	52	159	221	34	466
Lahore	64	231	323	87	705
Multan	102	228	269	75	674
Sahiwal	71	159	273	88	591
Sargodha	78	235	312	49	674
Overall	640	2060	2689	637	6026

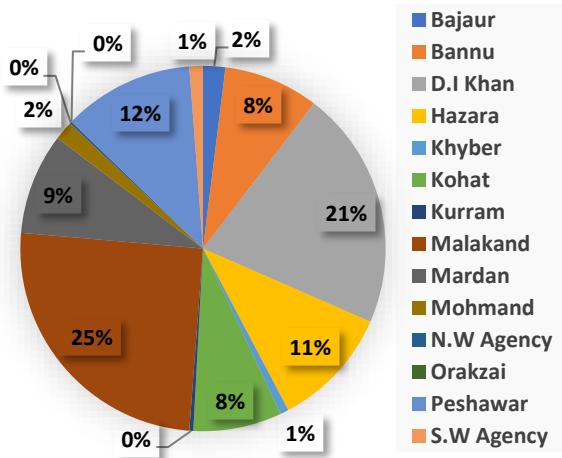
Punjab – Division Wise Completed PLL



KP – WC Data - Summary					
Division	19-20	20-21	2021-22	22-23	Overall
Bajaur	3	19	40	17	79
Bannu	75	35	94	28	232
D.I Khan	431	14	105	0	550
Hazara	86	71	152	46	355
Khyber	6	13	7	0	26
Kohat	98	41	57	9	205
Kurram	3	5	3	0	11
Malakand	179	178	467	33	857
Mardan	105	67	96	7	275
Mohmand	4	26	13	0	43
N.Waziristan	2	3	5	1	11
Orakzai	0	1	0	0	1
Peshawar	141	90	95	10	336
S.Waziristan	3	12	15	2	32
Overall	1136	575	1149	153	3013

So far, Total **3013** Watercourses data have been received from KP zone and available live on GIS Dashboard. By which **2586** Watercourses has been lined, 24 Watercourses Work Order Cancelled and remaining **352** watercourses are under progress on different stages like 1st Milestone, 2nd Milestone, and Work Order Issued. The remaining 4 Watercourses are pending with Work Order Approval. (Detailed Summary attached as **Annex-Q**)

KP – Division Wise Completed WC

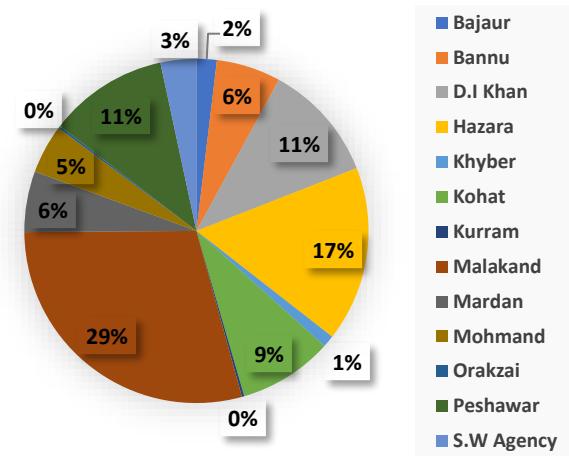


KP – WST Data Summary					
Division	19-20	20-21	21-22	22-23	Overall
Bajaur	1	10	9	1	21
Bannu	13	18	23	2	56
D.I Khan	81	6	19	0	106
Hazara	28	47	85	7	167
Khyber	1	9	12	0	22
Kohat	29	17	32	1	79
Kurram	1	1	0	0	2
Malakand	74	94	177	4	349
Mardan	16	9	26	4	55
Mohmand	1	36	4	0	41

KP – WST Data Summary					
Division	19-20	20-21	21-22	22-23	Overall
Orakzai	0	2	0	0	2
Peshawar	36	25	65	6	132
S.W Agency	0	15	15	0	30
N.W Agency	0	0	8	1	9
Overall	281	289	475	26	1071

Overall Water Storage Tank data submissions are 1071 of which 892 WST have been completed and 119 are under progress. While 60 Water Storage Tanks Work Order Pending. (Detailed Summary attached as **Annex-R**).

KP – Division Wise Completed WST



KP – PLL Data Summary					
Division	19-20	20-21	21-22	22-23	Overall
D.I Khan	0	0	50	0	50
Overall	0	0	50	0	50

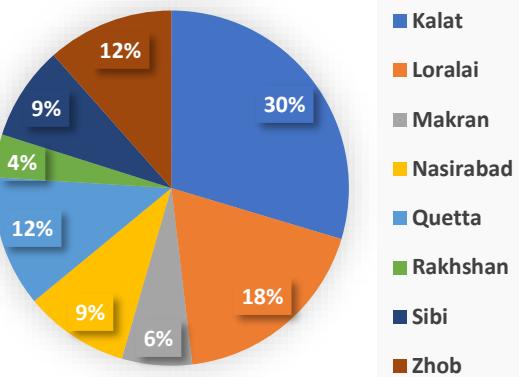
So far, Total **50** PLL have been delivered and partial data received from KP zone and available live on GIS Dashboard. (Detailed Summary attached as **Annex-S**).

Balochistan – WC Data Summary					
Division	19-20	20-21	21-22	22-23	Overall
Kalat	597	143	287	0	1027
Loralai	344	148	137	10	639
Makran	204	56	49	0	309
Nasirabad	216	111	191	0	518
Quetta	244	50	87	0	381
Rakhshan	126	58	82	0	266
Sibi	184	59	88	0	331
Zhob	232	69	81	0	382
Overall	2147	694	1002	10	3853

Total **3853** Watercourses data has been received from Balochistan zone of which **3172** Watercourses has been lined, **623** Watercourses are pending at TS Stage and remaining **58** watercourses are under

progress pending. (Detailed Summary attached as **Annex-T**)

Balochistan – Division Wise Completed WC



Division	Balochistan – PLL Data Summary				
	19-20	20-21	21-22	22-23	Overall
Kalat	0	4	0	0	4
Makran	0	11	0	0	11
Nasirabad	0	16	0	0	16
Quetta	0	1	0	0	1
Sibi	0	2	0	0	2
Overall	0	34	0	0	34

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

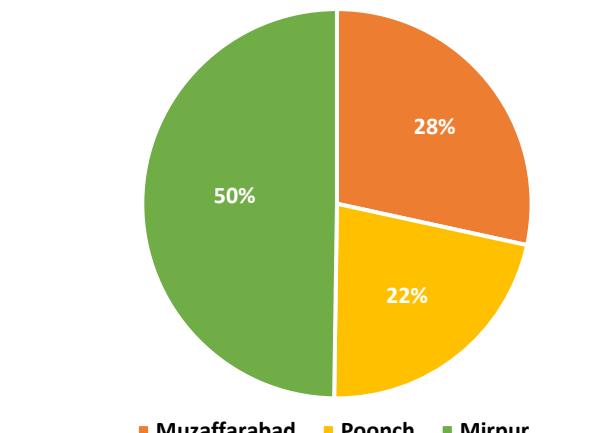
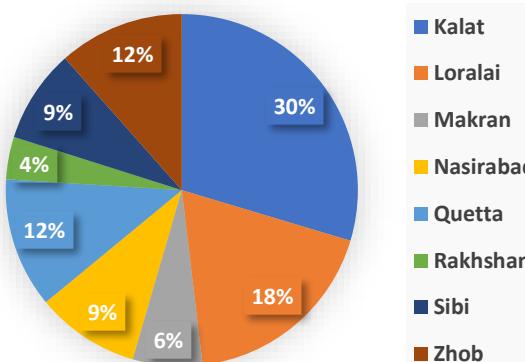
AJK – WC Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
MZD	32	94	77	23	226
Poonch	37	38	78	21	174
Mirpur	38	107	85	22	252
Overall	107	239	240	66	652

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

Balochistan – WST Data Summary				
Division	2019-20	2020-21	2021-22	Overall
Kalat	95	154	442	691
Loralai	51	57	111	219
Makran	50	57	168	275
Nasirabad	29	48	83	160
Quetta	53	87	111	251
Rakhshan	26	68	58	152
Sibi	35	35	61	131
Zhob	49	61	117	227
Overall	388	567	1151	2106

Total **2106** Water Storage Tank data has been received from Balochistan zone of which **1042** Watercourses have been lined, **1039** Water Storage Tank at TS Stage and remaining **25** Water Storage Tanks are under progress. (Detailed Summary attached as **Annex-U**).

Balochistan – Division Wise Completed WST



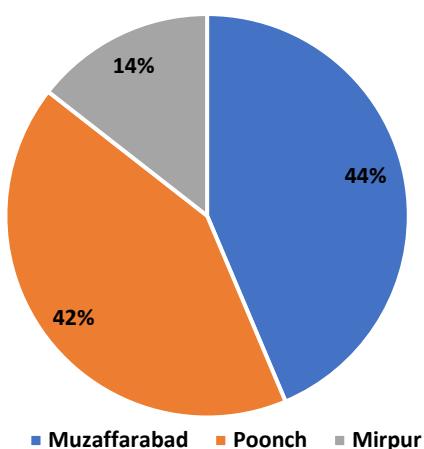
AJK – WST/WHS Data Summary					
Division	19-20	20-21	21-22	22-23	Overall
MZD	35	61	83	9	188
Poonch	13	48	142	101	304
Mirpur	2	16	44	7	69
Overall	50	125	269	117	561

A total of **561** Water Storage Tank data has been received from AJK zone of which **346** Water Storage Tank have been lined, **99** Water Storage Tanks are pending at TS Stage, **26** Water Storage Tanks are

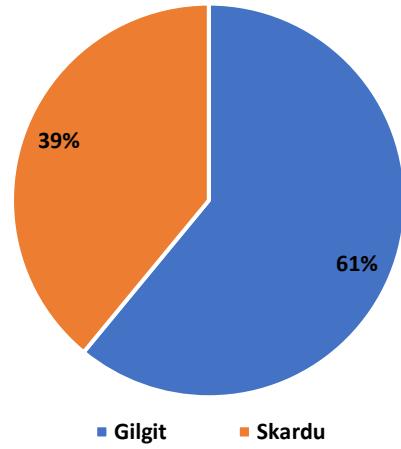
under progress pending and **90** Watercourses Work Order have been cancelled. (Detailed Summary attached as **Annex-X**).

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

AJK – Division Wise Completed WST



GB – Division Wise Completed WST



GB – WC Data Summary

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

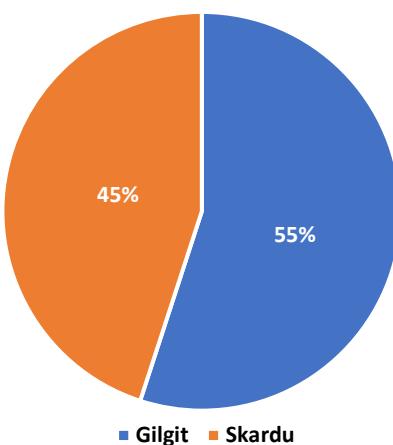
ICT – WC Data Summary

Division	2019-20	2020-21	2021-22	2022-23	Overall
ICT	0	20	14	0	34
Overall	0	20	14	0	34

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

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

GB – Division Wise Completed WC



4.9.2 Trainings and Capacity Building

A two-day training workshop was held in Quetta, OFWM Department Balochistan from 07 to 08 December 2022. The OFWM nominated staff participated in the training workshop. (Training Agenda attached as **Annex-BB**).

4.9.3 Refresher Trainings and Capacity Building

A one-day refresher training workshop was held on Zonal level to enhance the capabilities of OFWM Department Staff.

Training Location	Date
Peshawar	12/08/2022
Abbottabad	22/01/2023
Peshawar	06/02/2023
Swat	07/02/2023
Bannu	09/02/2023

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

4.9.4 On-Going Data Validation & Cleaning

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

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

4.10 ACTIVITIES COMPLETED BY SOCIAL & GENDER TEAM (2022- 2023)

The Annual Social & Gender report covers the activities of ICT and AJ&K Units, and PUNJAB & BALOCHISTAN Zones with effect from 1st July 2022 to 30th June 2023.

This report provides the progress made in various activities relating to the accomplishment of Social and gender-related activities e.g., Field visit surveys to evaluate the status of female participation in certain activities, to collect data related to social and gender aspects. Visits were conducted for gathering information pertaining to case studies, focus group discussion, and other basic data for baseline and midline/ impact studies i.e., before and after the interventions.

4.10.1 Overall Progress:

- Activities conducted in the current monitoring year are listed as follows:
- Social & Gender Specialist carried out regular visits in the project targeted areas of ICT, Rawalpindi, Mirpur, Muzaffarabad, Jhelum Valley, Chakwal, and Ziarat & Noshki throughout the reporting year.
- Prepared Baseline-II of Social & Gender.
- Conducted field visits for case studies of different project interventions.
- Engaged in the drafting of the case studies.
- Capacity building of team members by participating as well as extending training sessions and workshops at some appropriate forums from the professionals with the peer team members.
- Held meetings with the cooperating department as well as in-house professionals.

- Contributed to the vetting of integrated reports including MMR/ QMR and AMR reports at the end of every respective deadline period.
- A total of 12 MMRs have been prepared and submitted.
- Contributed to the QMR reports at the end of every third month. A total of four Quarterly reports have been prepared and submitted.
- Social & Gender specialist, had carried field visits to ICT, Punjab & AJK of Watercourses and water storage tank till date.
- Impact report of gender baseline-II was prepared and shared.
- A case study of Lehri-6 (Mirpur AJK) has been prepared along with a documentary.
- A pictorial album of Social and gender-related field activities was prepared with captions.
- 02 FGDs (Focus Group Discussions) were conducted in districts, Jhelum Valley and Muzaffarabad.
- Social & Gender tools were prepared and used in field interventions. Social & Gender specialist attended 02 trainings i.e., Result Based Management (RBM) & Planning and Management Development Projects at Islamabad under NRCD & PPMI organizations.
- Draft GRM (Grievances Redressal Mechanism) report has been prepared. The final draft will be shared after the feedback from all zonal DTLs.

4.10.2 Field Visit to Sampled Interventions

Following sampled interventions were visited throughout the year (July 2022-Jun3-2023) by the Social & Gender Specialist

Table 4.8: Overall Progress of Social & Gender Team (July 2022-June 2023)

Overall Progress of Social & Gender Team (July 2022-June 2023)																									
Brief profile of Interventions					Beneficiary Profile					Farming & Household Decision Making			Farming & Household activities		Land ownership info		Income	NPIWC-II / WUAs knowledge		Facilities provided by owner					
Sr. No.#	Province	District	Name of Schemes	WST/WC	Respondent Name	Age	Education level	Owner/Beneficiary	Labor: PH/CHL	Making house hold Decision (Always: A, Rarely: R, Never: N)	Knowledge about farming activities	Decision making in farming activities Always: A Rarely: R Never: N	Farming activity Always: A Rarely: R Never: N	*Farming activities (1-9)	*Household activities (Multiple activities 1-7)	Land ownership	Area own	Contributing in income generation Always: A Rarely: R Never: N	Knowledge about WUAs	Participation of female in WUAs meeting	Member of WUAs	Knowledge about NPIWC-II	Shelter by owner/Labor	Food/dairy products by owner	Income given by owner per month
1	ICT	ICT	Pindbagwal	WC	Shazia	40	M.A	Y	N	A	Y	A	A	0	6	Y	N	N	N	N	Y	Y	Y	15000/-	
2		ICT	Pindbagwal	WC	Waheeda Bibi	30	Illiterate	N	PHL	A	Y	A	A	8	7	N	N	A	N	N	N	Y	Y	Y	15000/-
3		ICT	Tarlai Kalan	WC	Sara	40	M.A	Y	N	A	Y	A	N	0	6	Y	N	N	N	N	Y	Y	Y	15000/-	
4		ICT	Sihala	WC	Badam Gul	30	Illiterate	N	N	A	Y	A	A	8	6	N	N	N	N	N	Y	Y	Y	20000/-	
5		ICT	Muza Arah	WC	Zar Bibi	52	Primary	Y	N	R	Y	R	N	9	6	N	N	N	N	N	Y	N	N	N	
6		ICT	Thanda Pani	WC	Sobia	45	F.A	Y	N	A	Y	A	R	9	6	Y	N	N	N	N	Y	N	N	N	
7	Punjab	Rawalpindi	Mouza Shah Bagh	WST	Nasreen	35	Illiterate	N	PHL	A	Y	A	A	8	6	N	N	A	N	N	Y	Y	Y	20000/-	

Overall Progress of Social & Gender Team (July 2022-June 2023)																									
Brief profile of Interventions					Beneficiary Profile					Farming & Household Decision Making			Farming & Household activities		Land ownership info		Income		NPIWC-II / WUAs knowledge		Facilities provided by owner				
Sr. No.#	Province	District	Name of Schemes	WST/WC	Respondent Name	Age	Education level	Owner/Beneficiary	Labor: PHL/CHL	Making house hold Decision (Always: A, Rarely: R, Never: N)	Knowledge about farming activities	Decision making in farming activities Always: A Rarely: R Never: N	Farming activity Always: A Rarely: R Never: N	*Farming activities (1-9)	*Household activities (Multiple activities 1-7)	Land ownership	Area own	Contributing in income generation Always: A Rarely: R Never: N	Knowledge about WUAs	Participation of female in WUAs meeting	Member of WUAs	Knowledge about NPIWC-II	Shelter by owner/labor	Food/dairy products by owner	Income given by owner per month
8	AJK	Rawalpindi	Maira Sangal	WST	Jameela	70	Illiterate	Y N	A	Y	A	R	1	6	Y	N	N	N	N	Y	N	N	N		
9		Hasan Abdal	Bafahad	WST	Sania	38	M.A	Y N	R	N	N	N	0	6	Y	N	N	N	N	Y	N	N	N		
10		Kalar kahar	Chak Khushi	WST	Saira	40	Illiterate	N PHL	A	Y	A	A	8	6	N	N	A	N	N	N	Y	Y	Y	20000/-	
11	AJK	Muzaffarabad	Maira Dupatta	WC	Yasmin	75	F.A	Y N	A	Y	A	A	3	6	Y	N	N	N	N	Y	N	N	N		
12		Muzaffarabad	Dhani Mai Sahiba	WC	Nosheen	38	F.A	Y N	A	Y	A	A	3	6	Y	N	A	N	N	Y	N	N	N		
13		Muzaffarabad	Dhani Mai Sahiba	WC	Khurshid	65	Illiterate	Y N	A	Y	A	A	3	6	Y	N	A	N	N	Y	N	N	N		
14		Muzaffarabad	Kardila	WC	Sehrish	28	MSc	Y N	A	Y	A	R	3	6	Y	N	A	N	N	Y	N	N	N		
15		Jhelum Valley	Kukarwarra	WC	Samina	50	Metric	Y N	A	Y	A	A	4	6	Y	N	A	N	N	Y	N	N	N		
16		Jhelum Valley	Gujar Bandi	WST	Maida Naqvi	35	M.A	Y N	A	Y	A	R	1	4	Y	N	A	N	N	Y	N	N	15000/-		
17		Jhelum Valley	Khatae	WC	Shakeela	32	Primary	Y N	A	Y	A	A	3	6	N	N	N	N	N	Y	N	N	N		
18		Jhelum Valley	Khatae	WC	Nagina	35	Illiterate	N CHL	R	Y	R	A	3	6	N	N	A	N	N	Y	N	N	N		

Overall Progress of Social & Gender Team (July 2022-June 2023)																									
Brief profile of Interventions					Beneficiary Profile					Farming & Household Decision Making			Farming & Household activities			Land ownership info		Income		NPIWC-II / WUAs knowledge		Facilities provided by owner			
Sr. No.#	Province	District	Name of Schemes	WST/WC	Respondent Name	Age	Education level	Owner/Beneficiary	Labor: PHL/CHL	Making house hold Decision (Always: A, Rarely: R, Never: N)	Knowledge about farming activities	Decision making in farming activities Always: A Rarely: R Never: N	Farming activity Always: A Rarely: R Never: N	*Farming activities (1-9)	*Household activities (Multiple activities 1-7)	Land ownership	Area own	Contributing in income generation Always: A Rarely: R Never: N	Knowledge about WUAs	Participation of female in WUAs meeting	Member of WUAs	Knowledge about NPIWC-II	Shelter by owner/labor	Food/dairy products by owner	Income given by owner per month
19		Jhelum Valley	Khatae	WC	Rehana	22	Metric	N	N	N	Y	N	R	3	6	N	N	N	N	N	N	Y	N	N	N
20		Mirpur	New Sunian	WC	Sadiya Majid	46	B.A	Y	N	A	Y	A	R	3	6	Y	N	N	N	N	N	Y	N	N	15000/-
21		Mirpur	Lehri-6	WST	Shazia	35	Illiterate	N	PHL	R	Y	A	A	8	6	N	N	A	N	N	N	N	Y	N	15000/-
22	Balochistan	Noshki	Batto Landi	WC	Rasheeda	28	Illiterate	N	N	N	Y	N	A	1	6	N	N	N	N	N	N	N	N	N	N
23		Ziarat	Sasnak	WST	Hameeda	35	Illiterate	N	N	N	N	N	N	0	6	N	N	N	N	N	N	N	N	N	N
24		Ziarat	Sasnak	WST	Razia	29	Illiterate	N	N	N	N	N	N	0	6	N	N	N	N	N	N	N	N	N	N

4.10.3 Sampled interventions surveyed by S&G during the current Monitoring year

Table 4.9: Sampled interventions surveyed by S&G during the current Monitoring year

Sampled interventions surveyed by S&G during the current Monitoring year			
	Name of Scheme Maira Duppata	District/Province Muzaffarabad/AJK	Responses of female quoted
<i>Mrs. Yaseem Nazir gave interview to S&G specialist at Maira Duppata</i>	Type of intervention Water course	Mrs. Yasmeen stated that these schemes had given them a chance to raise the standard of living for the low-wage earning workers in their community.	
		Mrs. Yasmin Nazir is a well-educated woman, and her husband constantly supports her in sharing her decisions on important family matters. She owns a sizable amount of land in the area, but she is unaware of her ownership. Mrs. Yasmeen has good knowledge about farming and crops. She is aware of the project's NPIWC II, but she is unaware of WUAs.	

Sampled interventions surveyed by S&G during the current Monitoring year			
	Name of Scheme Kakar Wala	District/Province Jhelum Valley/AJK	Responses of female quoted
<i>Mrs. Samina Gillani giving her views about the performance of project intervention</i>	Type of intervention WC/WST	Mrs. Syed said that after the intervention she can start kitchen gardening on a commercial level in the future. According to her in Jhelum Valley water scarcity is the main issue in the area.	
		Mrs. Syeda Samina Gillani is an educated woman and her husband is a supportive partner who frequently encouraged her to make decisions for the family. She is allowed to travel alone because her spouse refuses to impose any restrictions on her. She is familiar with farming and crops; nevertheless, she is unaware of the actual size of the property she owns. She is aware of the NPIWC project and WUAs.	

Name of Scheme	Gujar Bandi	Responses of female quoted
District/Province	Jhelum valley/AJK	<p>She is very much satisfied with the targeted intervention. It is not only benefiting the upper class but also to the labor class. Additionally, the landlord had provided a house for living, foodstuffs, and crops' share in return to their farm labor employed for cultivation of crop production.</p>
Type of intervention	WST	
	<p>Mrs. Maida Naqvi's husband is a very supportive spouse who usually encourages his wife to make decisions for the family. She is the owner of the land but she is unaware of how much area she owns. She is well aware of farming and crops. She was also interested in farming activities. She is aware of the NPIWC-II project but not familiar with WUAs.</p>	

Name of scheme	Khatae	Responses of female quoted
District/AJK	Jhelum valley/AJK	<p>She informed the team that after the intervention the major problem of the water is solved and they will be able to utilize the water for domestic purposes as well as for the land. Moreover, they got work opportunities on landowner farms. Both husband and wife work together to earn for living.</p>
Type of intervention	Water Course	
	<p>Mrs. Nagina's husband is a daily paid labor. Her husband is a very supportive spouse who usually encourages his wife to make decisions for the family. She does not own any land. She was also interested in farming activities. She was</p>	

	well aware of the crops. She is aware of the NPIWC-II project; but she is not familiar with WUAs.
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 <p>Mrs. Sehrish gave information to S&G Specialist at Kardala</p>	Name of scheme	Kardala	Responses of female quoted
	District/AJ K	Jhelum valley/AJK	Mrs. Sehrish stated that "I want to work and want to get proper knowledge related to farming. I want to get training in the farming technique to build my capacity and from which the women of the area could contribute positively for the community
	Type of intervention	Water Course	<p>Mrs. Sehrish's husband is very supportive and usually encourages her in making decisions for the family. She is the owner of land but she is unaware of how much land comes under her ownership. She is well-versed in farming and crop husbandry and also interested in farming activities. She is aware of the NPIWC-II project but not familiar with WUAs.</p>

 <p>Mrs. Shazia gave an interview to S&G Specialist</p>	Name of scheme	Lehri-6	Responses of female quoted
	District/AJ K	Mirpur/AJK	Mrs. Shazia said that she spent the majority of her time in farming activities starting from sowing to picking vegetables as well as marketing in the local area for fetching reasonable revenue.
	Type of intervention	Watercourse	<p>Mrs. Shazia is well-versed in farming of crops. She is aware of the NPIWC-II project, but not familiar with WUAs. Her husband is very supportive and usually</p>

	encourages her to make decisions for the family.	
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 <p>Mrs. Sadia gave interview to S&G Specialist at New Sunian Scheme</p>	Name of scheme	New Sunian	Responses of female quoted
	District/Province	Mirpur/AJK	Sadia mentioned that after the introduction of intervention, the farm is harvesting good field crops and vegetables. Her children prefer to eat food made out of the crops grown at their farm lands. Children's health is also improving and they have reduced the grocery buying from the market.
	Type of intervention	Water Course	Mrs. Sadia Majid is 46 years old, an educated woman. She has good knowledge of agriculture and crops. She has her own non-cultivated land, but unaware of how much area she owns. She has knowledge of the NPIWC-II project but she doesn't know about WUAs. Her spouse usually encourages to make decisions for the family.

 <p>Focus Group Discussion (FGD) conducted at Khatae</p>	Name of scheme	Khatae	Responses of female quoted
	District/Province	Jhelum valley/AJK	Focus group discussion was conducted in which the team was informed that the children along with the women of the community traveled at a distance that had affected them medically. Now after the intervention, they are living tension-free as the water is available nearby to them which can be utilized anytime without any hassle and fear.
	Type of intervention	Water Course	Focus group discussion conducted in Khatae village by 10 women.

Name of Scheme	Pind Baigwal	Responses of female quoted
District/Province	ICT	Mrs. Waheeda Bibi is very thankful to the owner, Mr. Khanzada because they are giving vegetables and milk products free of cost. Visiting the markets for grocery purposes has decreased which saved their time and money. She enjoys fresh eatables and is now concentrating more on her and her family's health.
Type of intervention	Water Course	Mrs. Waheeda Bibi's husband worked together as permanent hired labor at owner's farm. She has no knowledge of the NPIWC-II Project and WUAs. She was well aware of the crop's husbandry. She didn't own land.
	<i>Mrs. Waheeda Husband Mr. Ali gave information related to S&G</i>	

Name of Scheme	Maira Sangal	Responses of female quoted
District/Province	Rawalpindi	The owner was providing them other benefits apart from their basic salaries. They were getting vegetables for their own use which saves their money and time. Her monthly expenditure is less than before. She is concentrating more on her family's health.
Type of intervention	Water Storage Tank	Mrs. Nasreen and her husband are PHL laborers. She has no knowledge of the NPIWC-II Project and WUAs. She was well aware of the crops. She hasn't owned a piece of land. Both husband and wife were making decisions in respect of the education and marriage matters of their children and other household matters.
	<i>Mrs. Nasreen gave an interview with the S&G specialist at Maira Sangal</i>	

Name of	Khatae	Responses of female quoted

Scheme		
 <p>Focus group discussion at Khatae</p>	District/Province Jhelum valley/AJK	<p>Focus group discussion was conducted in which the team was informed that the children along with the women of the community have to travel long distances for make their livelihood that badly affected their health. Now after the intervention they are living tension-free as the water is available to them near to the home which can be utilized anytime without any fear.</p>
	Type of intervention Watercourse	<p>Focus group discussion conducted in Khatae village through the participating process of 12 women.</p>
 <p>Mrs. Sara Bibi expressed the impact of the intervention team at Chak Khushi</p>	Name of Scheme Chak khushi	Responses of female quoted
	District/Province Kallar kahar	<p>The woman stated that after the water intervention, her husband got an employment opportunity. We got shelter and food from the owner. We are happy as my husband is earning sufficient for making better living.</p>
 <p>Mrs. Sara Bibi expressed the impact of the intervention team at Chak Khushi</p>	Type of intervention Water Storage Tank	<p>Mrs. Sara is a 35-year-old illiterate woman. She is participating in farming activities and has good knowledge about farming and crops.</p> <ul style="list-style-type: none"> Her husband usually encourages his wife to make decisions for the family. <p>She hasn't owned a piece of land</p> <p>She doesn't know about the NPIWC-II project as well as about WUAs.</p>

Name of Scheme	Dhani Mai Sahiba	Responses of female quoted
District/Province Muzaffarabad/AJK		<p>After the earthquake I lost my 05 children which had affected me badly. The intervention brought peace into my life in such a way that I am engaged in the farming</p>
Type of intervention Water Course		

	<p>activity which keeps me busy. The lack of water has been covered and now it has solved several problems. My health is also improved by the intake of fresh vegetables.</p>
<p>Mrs. Khurshid Bibi is 65 years old.</p> <ul style="list-style-type: none"> • Her husband usually encourages his wife to make decisions for the family. • She is landless but she always participates in farming activities <p>She doesn't know about the NPIWC-II project as well as WUAs.</p>	

	<p>Name of Scheme Pind baigwal</p> <p>District/Province ICT</p> <p>Type of intervention Water Course</p> <p>Mrs. Shazia is a 40-year-old. Her husband keeps her wife involved in all decisions. She has good knowledge of agriculture and crops but is not actively participating in agricultural activities. She was not aware of the NPIWC-II project and WUAs. She hasn't owned a piece of land.</p>	<p>I have hired laborers on the farming land. The opportunity of employment has eased the living of many laborers. They got the source of income and we had enough space to provide them shelter. They are hardworking and as a reward, they also get the crop products for their own use.</p>
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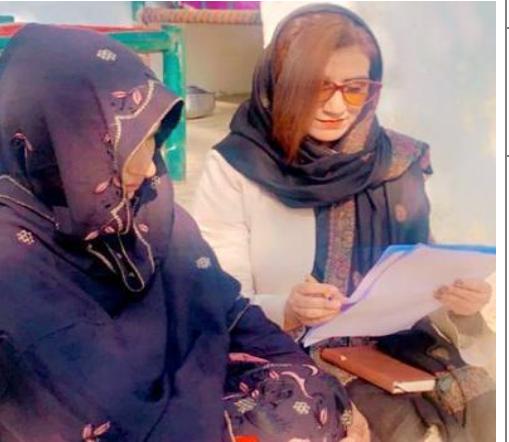
	<p>Name of Scheme Bafahand</p> <p>District/Province Hasan Abdal</p> <p>Type of intervention Water Storage Tank</p>	<p>Our family norms are traditional which keeps the women far from the decision making and in the involvement of the farming activities.</p>
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Mrs. Sania's husband gave impact of the Scheme at Bafahand	Mrs. Sania is an educated woman. Mrs. Sania doesn't own a piece of land. She has knowledge about recently cultivated crops but she is not participating in agriculture activities. Mrs. Sania has no knowledge about the NPIWC-II Project and has no idea regarding WUAs.	
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 <p>Zameer Hussain farmer gave data to team</p>	Name of Scheme	Mouza shahbagh	<p>Wife of Mr. Zamir Khan told the team that despite being disabled he was able to extend the farming activity after the intervention. He had provided employment opportunities to many laborers and was now able to produce fresh and healthy crops which had given profit in return.</p>
	District/Province	Rawalpindi	
	Type of intervention	Water Storage Tank	

	Name of scheme	Mouza Ara	<p>Mrs. Zar Bibi shared that her husband Mr. Muhammad Amjad didn't involve her in any decision-making matters. This is due to cultural and strict family customs. She said that she is totally dependent on her husband and can't go anywhere without her husband's company.</p>
	District/Province	ICT	
	Type of intervention	Water Course	

	<p>She is not allowed to participate in agriculture activities. She hasn't owned a piece of land. She has no knowledge of WUAs and NPIWC-II Project</p>	
<p><i>Mrs. Zar Bibi husband Mr. Muhammad Amjad discussing the intervention impact with team</i></p>		

	<p>Name of Scheme Sihala District/Province ICT Type of intervention Water Course</p> <p>Mrs. Badam Gul is 35 -an old illiterate woman. She is participating in farming activities and has good knowledge about farming and crops. Her husband usually encourages his wife to make decisions for the family. Mrs. Badam Gul hasn't owned a piece of land She doesn't know about the NPIWC-II project as well as the working of WUAs.</p>	<p>Mrs. Badam Gul stated we migrated to Sihala for income generation. After the water intervention, my husband got an employment opportunity. We got shelter and food from the owner. We are happy as my husband is earning well.</p>
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	<p>Name of Scheme Thanda pani District/Province ICT Type of intervention Water Course</p>	<p>Responses of female quoted</p> <p>Mrs. Sobia stated that in her family, females are not used to work against any labor activities.</p>
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Mrs. Sobia's husband gave an interview to the team	Mrs. Sobia is a 45-year-old and her husband always involved her in most of the decisions. Mrs. Sobia doesn't own a piece of land. She has knowledge about recently cultivated crops but she is not participating in agriculture activities. Mrs. Sobia has no knowledge about the NPIWC-II Project and has no idea regarding WUAs.	
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4.10.4 Key Findings and Observations from Field Visits

Table 4.10: Key Findings and Observations by Social & Gender Team Extracted from Field Visits of Study Area

ICT FINDING		
S.#	Before Intervention	Change after Intervention
1	Below-poverty families were unemployed. No opportunity for work as a labor.	Below-average poverty laborers got the opportunity to work on farms, and landlords provided them shelter.
2	They were spending a lot of money on purchasing vegetables, cereal, and dairy products from the market.	Now they are using their own crop products and vegetables from their own farm which are fresh and healthy. Thus, their health is improving.
3	Visiting markets which are at a distance from their home which dedicate their day to this activity.	Their workload has decreased in terms of visiting markets for food items and time-saving.
4	Few numbers of livestock.	Increase in a number of livestock that involved the females in making of dairy products which is beneficial for them in terms of income as well as a source of nutrition for their children.
PUNJAB FINDING		
S.#	Before Intervention	Change after Intervention
1	Below-poverty families were unemployed. No opportunity for work as a labor.	Below-average poverty laborers (females also included) got the opportunity to work on farms, and landlords provided them shelter.
2	They were spending a lot of money on purchasing vegetables, crop products, and dairy products from the market.	Now they are using their own crops and vegetables from their own farm which are fresh and healthy. It saves a lot of their money as well as time saved.
3	Females were doing kitchen gardening on the backyard of their homes.	Now female members are practically engaged in both personal and professional kitchen gardening.
KEY FINDINGS		
<ul style="list-style-type: none"> Females were well aware of the crop husbandry but no participation in the farming activities. It was observed that females were not participating in farming activities. Most women haven't owned a piece of land. Female family members' education level was primary. Females were not involved in decision-making. They have knowledge that the government has given the facility for the water tanks/courses. Household activities are mostly done by women. There are no WUAs because only one member was holding the land, especially in ICT areas. 		

- Females were well aware of the crops but not participating in farming activities.
- Women haven't owned a piece of land.
- Mostly women are doing household activities.
- Females were well aware of the crops and the land held by them, they were active in decision-making related to the land sale, purchase or tenancy condition, etc.
- Females were not encouraged to participate in marketing of the crops and vegetables to the area. The stereotype has still made the females lacking in the field of marketing and men are found to be active in this activity.
- Females are not earning a justified income as they are kept in the premises of their house. They are unfamiliar with the cost of income they are earning through farming activity.

AZAD JUMMU KASHMIR FINDING

S.#	Before Intervention	Change After Intervention
1	Below-poverty families were unemployed. No opportunity for work as a labor.	Below-average poverty laborers which include female farmers got the opportunity to work on farms, and landlords provided them shelter.
2	Most females have to travel for more than an hour for the collection of domestic water. Women faced health issues traveling with water containers.	Now time is saved and there is no need to travel. The water course is near their home.
3	They were spending a lot of money on purchasing vegetables, crops, and dairy products from the market.	Now they are using their own crops and vegetables from their own farm which are fresh and healthy. It saves a lot of their money and their health is improving.
4	Females were doing kitchen gardening on the home level only.	Now female members are practically engaged in both personal and professional kitchen gardening. They are now interested in considering farming at a bigger level for income generation.
5	Before WUAs were not formed.	WUAs (Males) are very active so there is a reduction in water-related disputes.

KEY FINDINGS

- Azad Kashmir does not receive as much rainfall as the Punjab province, which results in the soil remaining infertile.
- Women's agricultural labor is an extra workload besides doing household chores and caring for children and family elders.
- Female farmers also worked together with male farmers on the field. Mostly, the crops are grown by men as compared to women whereas picking and soil cleaning activity is done by female farmers.
- Females were doing kitchen gardening on the home level only.
- The farmers are facing many issues including scarcity of water both at domestic and irrigation purposes, land degradation due to water logging and salinity, and low agricultural production. These issues have significantly affected the livelihood sources of farming communities and pushed them towards deep poverty.
- The involvement of women in agriculture production is more than men but they are not appreciated due to social and cultural norms. These restrictions keep the women away from natural resources and decision-making.
- Women are mostly involved in pre- and post-crop production like sowing, thinning, weeding, picking, harvesting, and seed storage.
- In relation to households, women play an important role in water management, as they are the collectors, users, and managers of water. Because of these roles, women have considerable knowledge about water resources, including quality and reliability, restrictions, and acceptable storage methods.
- Women do not play any role in decision-making regarding water management at the field level, purchase/sale of farming implements, land preparation, and determination of type and doses of chemical (i.e., fertilizer, pesticide, herbicide) uses due to traditional and cultural barriers.

- Female members are practically engaged in both personal and professional kitchen gardening. Several seasonal vegetables like okra, Kurram saag (type Sarson/ brassica), and onions are cultivated.
- WUAs (Male) are very active so there is a reduction in water-related disputes.
- Rural women are undertaking a lot of work; their work is not well acknowledged by male members as well as society.
- Female farmers also worked together with male farmers on the field. Mostly, the crops are grown by men as compared to women whereas picking and seed sowing activities are done by female farmers.

4.10.5 CONCLUSION

- The sampled survey data depicts the information of women from all zones/units of Pakistan (Punjab, Balochistan, AJK, and ICT) on their level of knowledge of the project. The sampled survey data analysis explains the clear picture of land ownership. The data allows us to distinguish between females who own land and those who do not own land in accordance with the sampled zone. The data elaborates that 50% of females owned land while the other 50% were landless at the studied farm considering all of the zones.
- According to the sampled survey data, a higher percentage of women from all zones are involved in household decision-making rather than farming decision-making. The statistics show that women in Balochistan were not adequately empowered as a result of prevailing standards and a low literacy rate, particularly among rural females.
- After conducting sample interviews, the literacy percentage in certain zones was high, indicating a positive sign, except in Mirpur and Ziarat/Noshki, where women are completely illiterate. Although it should also be considered that the data was collected from only a few sampled beneficiaries, the status may vary throughout the districts.
- The analysis of the sampled survey data shows that the percentage was astonishingly high for making decisions in consultation with female partners in regard to home matters, while just a small proportion showed that female partners were rarely consulted.
- The household activity illustrated, the overall results of the sampled survey explained that the majority of women participated in cooking, caring for the elderly members of the home, washing clothes and dishes, cleaning their house, and looking after the children.
- The survey data analysis revealed that the general image of female farmers' knowledge was very poor (i.e., 100%) about the WUAs' awareness in the NPIWC-II project's targeted areas. It was highlighted as a major area for increasing the capability of water consumers, particularly male partners and women, by introducing female trainers even at the household level. As a result, it is advised that outreach extension employees provide skill-building training in order to engage more women in program activities.
- According to the sampled survey analyzed information, 100% of the women stated that they have information about the initiative of the project, NPIWC-II, being launched at their respective watercourse.
- The survey results clearly demonstrated that female involvement in WUA meetings linked to problem-solving activities was extremely low. All sampled females claimed no participation from all zones of Pakistan since they had no knowledge of WUA in their location. It suggested that there could be social or cultural barriers preventing the women from participating in WUA membership meetings.
- The results indicated that 100% of the female participants were never invited to any WUA meeting, while a majority of those sampled interview females did not receive an invitation or did not attend any WUA meetings. Depending on the data information that no female was a member of WUAs, and they were aware of their spouse and other family members/ WUA members. This information depicts that the Social and Gender consultants in this project should be encouraged to work hard to strengthen the awareness campaign in order to generate a sense of ownership to make the project objectives more plausible/ acceptable.
- The sampled survey data depicts the information of women from all zones of

Pakistan (Punjab, Balochistan, AJK, and ICT) on their level of knowledge in farming activities. Based on the results of the sample examination, the women of AJK have the highest proportion of land preparation activities (91%), while the women of Balochistan have the lowest rate. The data indicates that the women in the AJK zone were particularly active during the seed sowing operation, comprising 91% of the total, while the women in Punjab are the second most active in the sowing activity when compared with the other zones.

- Fifty percent of Punjab zone women were involved in transplantation activity, while 33% of ICT women involved in transplantation activity. Only 50% of women in Punjab were involved in plantation activity against 33% of women in the ICT zone involved in plantation activity, and 9% of women in AJK participated in plantation activity. According to the information provided during the survey of the area, 33% of ICT women, 50% of Punjab women, and 9% of AJK women were active in picking. The women of Punjab play a major role in marketing, with a percentage of 50, while the women of Balochistan were involved the least with nil response. Although the data only prevails about the sampled interviews taken, it should be considered that the data revealed the status of the provinces as a whole may vary from the collected data results.

4.10.6 Capacity Building & Trainings

4.10.6.1 Five days Training Course on “Planning and Management for Development Projects”

Training objectives:

- Understanding Different Approaches of Development Planning & Projects,
- Consideration for Selecting a Development Approach: Product, Project and Organizational Consideration,
- Setting a project design through need identification approaches,
- The Project Cycle Management:
 - Different phases of project cycle,
- Role of the Project Management Office,
- Project Monitoring and Evaluation through Logical Framework Analysis,
- Project Monitoring and Evaluation System (PMES),
- Understanding project management disciplines,

- Managing project finances, budget and supply chain,
- Risk Management and Project Stakeholder Management



Training Course on “Planning and Management for Development Projects” at PPMI, Islamabad

4.10.6.2 Three days Training on ‘Result Based Mgt’

Training objectives:

- Understanding the logical framework approach.
- Defining program objectives and outcomes.
- Developing a result chain and theory of change.
- Using results to inform decision-making processes.
- Conducting risk assessments and risk management in RBM.



Dr. Usman Mustafa, Team Leader, NPIWC-II Project Lecturing on RBM

- Applying RBM in adaptive management and learning.
- Incorporating feedback and lessons learned into program design.
- Integrating RBM into organizational culture and processes.
- Capacity building for RBM at individual and organizational levels.
- Overcoming challenges and barriers in implementing RBM.

- Result-based monitoring, setting up a monitoring and evaluation framework.
- Developing a monitoring plan and data collection tools.
- Collecting, analysing, and interpreting data for monitoring purposes.
- Results-Based Evaluation.

4.10.6.3 Two days training on “GENDER MAINSTREAMING”

Training objectives:

- Waves of feminism and evolution of gender rights.
- Gender and health.
- Gender mainstreaming in organization.
- Gender perspective and problem analysis.
- Role of leadership for gender mainstreaming.

4.11 CASE STUDIES OF INTERVENTION CONDUCTED BY OF ME&IE CONSULTANTS

4.11.1 Wasteland into Agricultural Land in DG Khan, Punjab Conversion of

Consultants conducted a case study on the Project Intervention in Punjab. A Water Storage Tank of a farmer, Mr. Muhammad Zareef was selected for this study. Muhammad Zareef is a resident of village Bajha Tehsil Koh-e-Suleman, District D. G. Khan. He is an educated and well-known progressive farmer. By his Profession he is a Farmer. He has been associated with farming for the last 10 years. In this tehsil he has only 8 acres of land of his forefathers.

Depth of WST:	6ft
Command area of water storage tank:	8Acre
No of beneficiaries:	1
Name of the Crop	Citrus and Wheat / Maize as intercrop
	
<i>View of Water Storage Tank OF Mr. Zareef at Village Bajha, Tehsil Koh-e-Suleman</i>	

Status before Construction of WST

According to Mr. Muhammad Zareef; before construction of WST, his land was barren. It was located in hilly area and its terrain was uneven. He did not grow any crop because its soil consists of gravels. It was not possible to grow any crop in this area. Rain / flood from hills brings fertile soil along with its water. This fertile soil makes a layer on the surface of this land. Every year a layer of soil increased on his land. Due to increased layers of fertile soil the land became useful for growing crops and farmers was able to grow crops on this type of land. Farmer have shortage of water for crops. He had no proper system to store rain water as well. There are no proper roads. It is very difficult to travel in this area.

Whereas he holds certain pieces of land in other areas.

Basic Profile of Water Storage Tank

WST Owner:	Muhammad Zareef
Name of village:	Bajha
Tehsil & District:	D.G khan, Koh-e-Suleman
Source of irrigation:	Tubewell, Rainwater
The shape of the water storage tank:	Trapezoidal
Size of water storage tank:	60x60ft

Guidance from On Farm Water Management Department:

OFWM department officials motivated the farmer to avail the opportunity from the NPIWC-II Program launched by the Govt. and to construct Water Storage Tank (WST) on subsidy basis. They briefed him about different aspects of NPIWC-II. In spite of the fact that his farm is located in hilly area and with the assistance of OFWM department he constructed the Tank and started storage of water.

He started construction of WST on 15-Jan 2020 and was completed within two months. He installed a tube well in 2020 but it could not fulfill his water requirement. Direct supply of the water to the farm took 3-4 days to irrigate one acre whereas irrigation through a water storage tank took 3 to 4 hours.

There is no shortage of water in the Rabi season. During the Kharif season he faced acute shortage of water. His crop wholly depends upon rain water in kharif season. He installed a pump to put rain water into the WST to store water in to the tank.

Beneficiary Satisfaction:

Mr. Muhammad Zareef the owner of WST is very happy and fully satisfied by the role of OFWM department as his barren land has been converted into Agricultural land due to intervention under the NPIWC-II Program. Now after construction of WST he is growing Citrus Orchard on his land. Other main crops being grown are Wheat/ Berseem/ Maize and Sorghum as well.

Increase in Livestock:

Before the construction of WST, the land was barren; he does not have any livestock because of lack of fodder. Now he can grow food easily. He has started to keep livestock as well. Now he also has

Buffaloes, Cows, Goats, and Sheep which are major sources of food and income for his family.



ME&IE Team at Water storage tank of Mr. Zareef. ADA Koh-e-Suleman OFWM also accompanied this visit.

4.11.1.1 Success Story on Water Storage Tank in Thal, Bhakkar District, Punjab

Rehabilitation of Sandy Dunes of Thal Area in Bhakkar District by Water Storage Tank

If anybody has seen the dunes in Thal area, He can well imagine my position, before the construction of Water storage tank on my land during 2020-21. With the help of modern technology of construction of Water Storage Tank, I was able to cultivate the few areas of desolated land of mine.



Picture 4.1: WST Owner Nazeer Ahmad

Mankera is the tehsil of Bhakkar surrounded by the Thal dessert. Mankera is the main town of Mankera Tehsil, an administrative unit of Bhakkar District in Pakistan's Punjab province. Mankera's one third land is covered with sand area characterized by huge sand dunes. People are largely dependent on agriculture of which the main crop is gram (Channa),

which heavily rely on rain; as a result, they are poor. Education and health care services are also poor.



Deserted Area of Thal in Mankera

Nazeer Ahmad is a local farmer of Mankera who has land of 12.5 acres in the village of Dagar Kotli. Before the WST intervention, the land was sown with gram (Channa) which was solely dependent on the rainfall. According to Nazeer Ahmad, the rainfall pattern was changing following the years which had made effect on the crop production of gram. Either the production was very low or the crop would burn out. Nazeer was worried about the income that had facilitated his household.

Table 1 WST Beneficiary Details

WST Owner	Nazeer Ahmad
Tehsil & District	Mankera / Bhakkar
Culturable Command Area	12.5 Acres
Source of Irrigation	Tube Well
Quality of Under Ground water	Fit for Irrigation
Major Crops	Citrus (Shakri), Sunflower, Gram (Channa)
Financial Year	2020-21

As fate would have it, one day Nazeer Ahmad was reading a newspaper that had advertised of a subsidized project of provision of Water Storage Tank. He contacted the OFWM department of Mankera and filed an application for the construction of Water Storage Tank which was later on accepted by the department. He was fully satisfied with the cooperation of the OFWM who guided him through at all the stages. The source of water through which the WST was filled via pumping through underground water which was fueled by solar panels.



View of WST in the midst of the deserted land



Cultivation of Sunflower



Figure showing tube well pumping from ground water

A year has passed since the construction of the water storage tank, Nazeer Ahmad has sown citrus (shakri), sunflower, wheat and gram (channa). Before the intervention he was able to cultivate merely 2 to 3 acres but now when the problem of shortage of water has overcome, the cultivated has increased to 10 to 12.5 acres.



Cultivation of Plants Citrus (Shakri)



Picture 4.2: Monakka

Balochistan is the main pocket for grape production. The area under grape in Balochistan is about 3400 hectares with the production of about **34300 tones**. Most growing areas of grape in Balochistan are Quetta, Kalat, Mastung, Pishin, Zairat, Loralai, Kanak, Khuzdar etc. Raw grapes are 81% water, 18% carbohydrates, 1% protein, and have negligible fat.

During the current month ME&IEC worked on case study that how Agriculture's Farm Incomes could be increased and utilization of agriculture processed product in Balochistan.

This study was carried out in Pishin district, which is known as the main grapes producing area of Balochistan. Monakka are simply dried grapes produced from grapes mostly produced in Pishin district of northern upland Balochistan. Ripened grapes are either marketed in the fresh form to different markets or transformed to raisins to increase its shelf life. Two types of grapes drying common in the area; when the drying process is

done in the sun shine after pre-drying treatment the end product is locally called as Monakka, while when drying process is done in a shady and well-ventilated room without any treatment the end product is locally called as Kishmish, they both are collectively called as raisins.

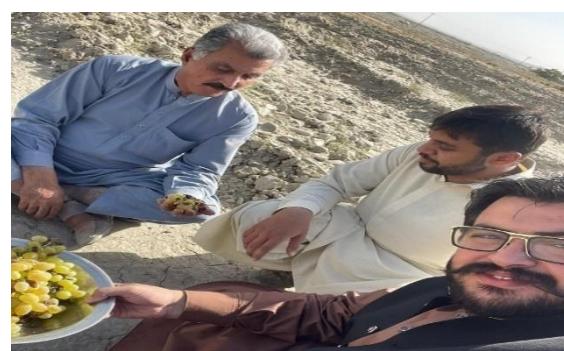
The ME&IEC field team visited the agriculture farm of Haji Mohammad Sadiq Tareen. He had 250-acre Cultivable Command Area, in which 40 acres were being used for cultivating grapes. Total thirty (30) labors were working in all process. The resources which were in used i.e., baskets, water, kiln, Sulfur and a mud coated land for drying raisins.

Process:

- First collect the ripe grapes from branches and remove the grapes from stems.
- The grapes put in to small baskets.
- The filled grapes baskets dipped in to kiln for 5 to 10 seconds which already filled by boiled sulfur.
- After process through boiled sulfur, it dipped in to cold water for 5 to 10 seconds.
- After above process, all grapes spread on mud coated land to dry in sun light which takes 5-7 days to turns grapes in to Monakka.
- In last, they collect the Monakka and put into bags for sale in markets.



Fresh grapes collected from farm for further process



Picture 4.3: ME&IEC Field Team at grape's farm



Grapes are being dipped in to kiln for 5 to 10 seconds.



The Monakka are ready to sell in Market

The Study Results

- The study results revealed that 3000 kg of fresh grapes are required to produce 1000 kg of Monakka with grape raisins ratio of 3:1. Similarly for making 1000 kg Kishmish, 3500 kg of fresh Kishmishi or Sunderkhani grapes are required with a ratio of 3.5:1. Overall average yields of Munakka and Kishmish produced from one-acre grapes were, 1528 and 1148 kg, respectively in the study area.
- The study results showed that drying of grapes is a good source of income generation in the grapes growing area.
- The difference in total revenue is showing in below table:

Place	Total Cultivated Area (40 Acre)	Per Acre Production (KGs)	Total Production (KGs)	Rate (Rs.)	Total Revenue (Rs.)
On Farm	Grapes	4584	83,360	75	13,752,000
	Monakka	1528	61,120	550	33,616,000

Local Market (Balochistan)	Difference				19,864,000
	Grapes	4584	183,360	150	27,504,000
	Monakka	1528	61,120	1280	78,233,600
Difference				50,729,600	

- The grapes are also used for making jam, grape juice, jelly, grape seed extract, vinegar, and grape seed oil, or dried as raisins. There are many types of grapes including green, red, black, yellow and pink. They grow in clusters and come in seeded and seedless varieties.
- Another usage of grapes is to make raisins, which produced commercially by "drying harvested grape berries". For a grape berry to dry, water inside the grape must be removed completely from the interior of the cells onto the surface of the grape where the water droplets can evaporate. When grapes come to raisins, Raisins have essential nutrients like vitamins and minerals. All these help in fighting with free radicals in our system, stabilizing them, and preventing them from causing oxidative damage to our cells including the white blood cells that form the backbone of our immune system.
- There are so many crops, fruit and vegetable in Balochistan which produced several types of processed products which need to proper guidance for its use to increase their income. Ultimately this increase in income will impact on GDP of Pakistan. Agriculture has huge contribution toward GDP of Pakistan economy. Increase in GDP shows the developing progress of the economy. By promoting the processed products in agriculture sector, the GDP can be increased. Employment contributes to GDP; it is as with the increase in employment through processed product industries the per capita income will increase which results to increase in GDP rate of the economy. The 3rd largest sector of contributing to GDP is agriculture.

Bottlenecks:

Water, not land, is usually the main factor limiting agricultural productivity and growth of farm incomes. Low quality inputs, poor marketing practices, and limited access to extension services and market information also constrain agricultural productivity.

Suggestions:

- Establishment of by- product industry
- Establishment of small crushing mills of agriculture wastes all over Balochistan
- Initiate the projects like Farm to Market Road
- Procurement of training
- Arrangement of incentives in the form of credit or subsidies
- Encouragement of market competition
- Formulation of demand-driven strategies to markets premises

Study Participants:

- Mr. Manzoor Kasi, M&E Expert
- Mr. Qaisar Khan, M&E Officer
- Mr. Hamza, M&E Officer
- Ms. Mah Gul Noor, M&E Officer

CHAPTER-5: PROJECT DELIVERABLES ACCOMPLISHMENT STATUS

5.1 MAJOR DELIVERABLES

- Monthly Monitoring Reports
- Quarterly Monitoring Reports
- Baseline Survey Report Phase-II
- Midterm Impact Report
- Annual Monitoring Report

5.2 DETAIL OF DELIVERABLES WITH CURRENT STATUS

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

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

Document	Status
Monthly Monitoring Report-Twenty Third (NOVEMBER 2022)	Submitted within stipulated time
Monthly Monitoring Report-Twenty Fourth (DECEMBER 2022)	Submitted
Monthly Monitoring Report-Twenty Fifth (JANUARY 2023)	Submitted
Monthly Monitoring Report-Twenty Sixth (FEBRUARY 2023)	Submitted
Monthly Monitoring Report-Twenty Seventh (March 2023)	Submitted
Monthly Monitoring Report-Twenty Seventh (April 2023)	Submitted
Monthly Monitoring Report-Twenty-Eight (May 2023)	Submitted
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: <ul style="list-style-type: none"> Monitoring Tools Survey Manual PAM Working Paper on Technology and Methodology for Implementation of Android Based Field Progress Data Collection and GIS Based Progress Monitoring Analytical Dashboard. Baseline-Endline Manual Survey Manual Android Application PMIS Dashboard Manual 	Submitted

5.3 DELIVERABLES/REPORTING REQUIREMENTS

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

5.4 MATRIX OF RESPONSIBILITIES

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

5.5 QUARTERLY WORK PLANS

Activities in Annual tenure are divided in four quarters. Each Quarter tenure comprises of three months. The work plan of all four quarters, is provided as **Annex-A**.

CHAPTER-6: ISSUES NEED TO BE ADDRESSED

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.
- NWMC (NESPAK) had to provide the digital/editable progress data of interventions to M&E Consultants on provided format for the Dashboard which was provided very late. Later, the data provided by NWMC of 3671 completed schemes was in shape of poor scanned quality. which was useless for M&E Consultants for dashboard. Non provision of data by NWMC and provision of incomplete data from OFWM departments caused the delay in completion of implementation phase of Dashboard.
- 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 in-house exercise we have witnessed some stuck-up cases. Following are different levels/stages in term of day's and area of jurisdiction:

Days	Departments
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.

Annex. A: Quarterly Work Plans, Planned In Four Quarters

(First Quarter, Jul 2022 to Sep 2022)

(Second Quarter, Oct 2022 to Dec 2022)

(Third Quarter, Jan 2023 to Mar 2023)

(Fourth Quarter, Apr 2023 to Jun 2023)

TENTATIVE WORK PLANNED FOR THE QUARTER (JULY TO SEPTEMBER 2022)												Legend	
No.	ACTIVITIES	3 Months-Year 2022 (Weeks)											
		July				August				September			
		WK-1	WK-2	WK-3	WK-4	WK-1	WK-2	WK-3	WK-4	WK-1	WK-2	WK-3	WK-4
1	Field Activities												
	1.1 Regular Monitoring of Interventions in the Field												
	1.2 Data collection of the interventions in the field												
	1.3 Online data entry in android based application												
2	ICT Assignment												
	2.1 Development of website of NPIWC-II												
	2.2 Monitoring online data collection and Data entry												
	2.3 Monitoring Android based Mobile Application under implementation by field staff.												
	2.4 Data collection of interventions in MIS/GIS database												
	2.5 Designing of dashboard of Project Interventions												
3	Coordination												
	3.1 Meetings of TL with NPC and OFWM Departments regarding Project Progress / Issues												
	3.2 Meeting of DTLs with respective DTL of PC												
4	Deliverable												
	4.1 Monthly Monitoring Report												
	4.2 Quarterly Monitoring Report												
	4.3 Final Baseline Survey Report												

TENTATIVE WORK PLANNED FOR THE QUARTER (Oct 2022 To Dec 2022)												Legend		
No.	ACTIVITIES	3 Months-Year 2022 (Weeks)												
		Oct				Nov				Dec				
		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 Preparation for 2nd-Phase Baseline Survey (Finalization of MTs)													
	1.2 Internal Meetings of ME&IE Consultants' Zonal Offices for development of Methodology for 2nd Phase Baseline Survey													
	1.3 Training of Field Staff for 2nd-Phase Baseline Survey													
2	Field Activities													
	2.1 Regular Monitoring of Interventions in the Field													
	2.2 Data collection of the interventions in the field													
	2.3 Baseline Survey stage - 2													
	2.4 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 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 (January-March 2022)													
	5.3 Preparation of Baseline Survey Report 2nd-Phase													

TENTATIVE WORK PLANNED FOR THE QUARTER (January 2023 To March 2023)												Legend				
No.	ACTIVITIES	3 Months-Year 2023 (Weeks)														
		January				February				March						
		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	Preparation for 3rd-Phase Baseline Survey (Finalization of MTs)															
1.2	Internal Meetings of ME&IE Consultants' Zonal Offices for development of Methodology for 3rd Phase Baseline Survey															
1.3	Training of Field Staff for 3rd-Phase Baseline Survey															
2	Field Activities															
2.1	Regular Monitoring of Interventions in the Field															
2.2	Data collection of the interventions in the field															
2.3	PLL, Baseline Phase-II & Impact Survey															
2.4	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 (Oct-Dec 2022)															
5.3	Mid-Line Monitoring & Impact Evaluation Report (Draft)															
5.4	Preparation of Baseline Survey Report 2nd-Phase															
5.5	Consolidation of Baseline Survey Phase-I & II Reports															

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

Annex. B: Project Matrix of Responsibilities

		MATRIX OF RESPONSIBILITIES			
SR. NO.	DELIVERABLE / ACTIVITIES	NPC-FPMU	Agriculture Dept. (OFENM)	Project Consultants	ME&IE Consultants
1	Provision of Pre-requisite data of project components for starting of Field Activities: • Organization of Water Users Associations, • Watercourses Improvement, • Water Storage Tanks, • Laser Land Levelers,	O	●	-	-
2	Certification of operational documents of the project, • Design, cost estimates, completion reports of watercourses, • Design, cost estimates, completion reports of water storage tanks,	O	○	●	-
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	-	-	-	●

Annex. C: Project Monitoring Log-Frame

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

PROJECT SUBCOMPONENTS	TARGETS	ACTIVITIES	OUTPUTS	OUTCOME-1	OUTCOMES-2	GOALS / IMPACT	METHODOLOGY FOR MEASURING RESULTS	
	basis: 40% farmers in terms of labour, and 60% funded by project.	<p>(WUAs);</p> <p>b) Registration of 47,278 WUAs;</p> <p>c) Improvement and realignment of earthen section of 47,278 watercourses;</p> <p>d) Lining of up to 50% length of 47,278 watercourse either by:</p> <ul style="list-style-type: none"> • Precast concrete parabolic lining (PCPL) segments, or • Rectangular brick masonry, or any other method as approved by the project 	<p>c) 47,278 watercourses improved and lined;</p>	<p>decreased by about 15 percentage points.</p> <p>b) 1.654 million households benefited from the activity;</p> <p>c) 11.347 million acres served with improved watercourses</p>	<p>watercourses by 5-24%;</p> <p>b) Increase in crop yields.</p> <p>c) Increase in irrigated area</p> <p>d) Increase in agriculture output per unit of water by about 37%</p>	<p>for farm labour;</p> <p>c) Reduction in poverty;</p> <p>d) Enhanced food security for the country.</p>	<p>b) Agriculture survey before and after watercourse improvement on 2-5% sample basis;</p> <p>c) The survey will determine:</p> <ul style="list-style-type: none"> • Cropping pattern before and after the improvement; • Cropping intensities before and after improvement; • Before and after crop yields; • Before and after 	

PROJECT SUBCOMPONENTS	TARGETS	ACTIVITIES	OUTPUTS	OUTCOME-1	OUTCOMES-2	GOALS / IMPACT	METHODOLOGY FOR MEASURING RESULTS	
							employment ; d) The difference between before and after will be considered the result of the intervention after netting out the contribution of the growth pattern of the crop sector otherwise.	
C3: Construction of Water Storage Tanks (WSTs)	<p>a) Construction of 14,932 water storage tanks</p> <p>b) They agree to contribute 40% of the cost</p> <p>c) Agree to first construct the tank with his/her own funds and then received</p>	<p>a) 14,932 small farmers mobilized to construct water storage tanks for irrigation</p> <p>b) Agree to first construct the tank with his/her own funds and then received</p>	<p>a) 14,932 WSTs constructed</p> <p>b) 14,932 WSTs operated and maintained</p>	<p>a) Water which was otherwise largely going to be wasted is saved</p> <p>b) Irrigation provided at critical stages of the crops</p> <p>c) Flexibility achieved for irrigation</p>	<p>a) More area irrigated</p> <p>b) Increased cropping intensities</p>	<p>a) Increased crop yields</p> <p>b) Increased total crop output quantum</p> <p>c) Increased farm income</p> <p>d) Increased farm employment</p>	<p>a) 2-5% sample of WSTs will be surveyed</p> <p>b) A data collection form will be designed to measure water saving due to WSTs</p> <p>c) The forms used for baseline and impact surveys in case of watercourses</p>	e)

PROJECT SUBCOMPONENTS	TARGETS	ACTIVITIES	OUTPUTS	OUTCOME-1	OUTCOMES-2	GOALS / IMPACT	METHODOLOGY FOR MEASURING RESULTS	
		subsidy at 40% on issuance of FCR					will also be used for WSTs d) Same data analysis will be carried out here as in case of watercourses.	
C4: Provision of Land Leveling Units	a) Provision of 11,610 laser land leveling units to farmers and service providers on a cost sharing basis: 50% by farmer / service provider and 50% by the project.	a) 11,610 laser units provided to farmers / service providers; b) Farmers trained in using the units.	a) 11,610 farmers / service providers received PLL units; b) Farmers / service providers received training in using the units.	a) Land levelled on Farmers' / service providers' farms; b) Land levelled on fellow farmers on rent; c) Total 3.483million acres levelled by 11,610 units.	a) Water application efficiency increased at field level; b) Even germination of seed. c) Field application losses reduced by 10 percentage points d) Water productivity increased by 24%	e) Increased area under irrigated crops; f) Enhanced crop yields g) Increased farm income	a) The land levelling is expected to save irrigation water and result in better and even germination of seeds which can enhance crop yields. The crop yields thus affected will be reflected in agriculture sample surveys. b) 2-4% sample units will be visited by ME&IE Consultants teams after one years of	f)

PROJECT SUBCOMPONENTS	TARGETS	ACTIVITIES	OUTPUTS	OUTCOME-1	OUTCOMES-2	GOALS / IMPACT	METHODOLOGY FOR MEASURING RESULTS	
							<ul style="list-style-type: none"> delivery c) The unit will be verified d) Area treated during the year will be collected e) Farmers' feedback collected on quality of the unit, quality of the after-sale service, etc. 	

Annex. D: Project 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

Annex. E: Baseline Field Survey Visits by Field Teams During Reporting Period – Watercourses

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
Baseline	01/07/2022	2	WC	11083412013	Punjab	Rahim Yar Khan	20245/R
Baseline	02/07/2022	2	WC	11083412005	Punjab	Rahim Yar Khan	9636/TR
Baseline	02/07/2022	2	WC	11083432003	Punjab	Rahim Yar Khan	58940/R
Baseline	04/07/2022	2	WC	11083232001	Punjab	Rahim Yar Khan	118915/TR
Baseline	04/07/2022	2	WC	11083232003	Punjab	Rahim Yar Khan	92500/R
Baseline	05/07/2022	2	WC	11083232002	Punjab	Rahim Yar Khan	95500/R
Baseline	05/07/2022	2	WC	11083232031	Punjab	Rahim Yar Khan	1560/L
Baseline	06/07/2022	2	WC	11083332031	Punjab	Rahim Yar Khan	20585/R
Baseline	06/07/2022	2	WC	11083412002	Punjab	Rahim Yar Khan	33100/R
Baseline	07/07/2022	2	WC	11083312006	Punjab	Rahim Yar Khan	17635/R
Baseline	07/07/2022	2	WC	11083332035	Punjab	Rahim Yar Khan	93445/L
Baseline	10/10/2022	3	WC	11081132021	Punjab	Bahawalpur	4320/L
Baseline	05/12/2022	1	WC	11011232007	Punjab	Lahore	13600/L
Baseline	06/12/2022	1	WC	11032332012	Punjab	Okara	16125/R
Baseline	06/12/2022	3	WC	11073132001	Punjab	Lodhran	33855/R
Baseline	07/12/2022	3	WC	11073132002	Punjab	Lodhran	15750/L
Baseline	08/12/2022	1	WC	11032332008	Punjab	Okara	12535/TR
Baseline	09/12/2022	1	WC	11032232007	Punjab	Okara	81400/R
Baseline	09/12/2022	3	WC	11073332002	Punjab	Lodhran	27405/L
Baseline	10/12/2022	1	WC	11032232040	Punjab	Okara	23980/R
Baseline	10/12/2022	1	WC	11032332009	Punjab	Okara	7550/L
Baseline	10/12/2022	3	WC	11073312002	Punjab	Lodhran	18100/L
Baseline	10/12/2022	3	WC	11073332004	Punjab	Lodhran	126231/R
Baseline	13/12/2022	1	WC	11032212004	Punjab	Okara	14100/R
Baseline	13/12/2022	3	WC	11073332005	Punjab	Lodhran	49000/R
Baseline	14/12/2022	1	WC	11032232006	Punjab	Okara	4050/L
Baseline	14/12/2022	3	WC	11073332006	Punjab	Lodhran	6900/R
Baseline	15/12/2022	1	WC	11032132001	Punjab	Okara	87000/TL
Baseline	15/12/2022	3	WC	11073312006	Punjab	Lodhran	12702/L
Baseline	16/12/2022	1	WC	11032232004	Punjab	Okara	22627/R
Baseline	16/12/2022	3	WC	11073332003	Punjab	Lodhran	2925/R
Baseline	17/12/2022	1	WC	11032212002	Punjab	Okara	90600/TR

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
Baseline	17/12/2022	3	WC	11073312005	Punjab	Lodhran	52200/TF
Baseline	19/12/2022	3	WC	11073312001	Punjab	Lodhran	43818/L
Baseline	20/12/2022	3	WC	11073332001	Punjab	Lodhran	70978/TL
Baseline	21/12/2022	3	WC	11073312015	Punjab	Lodhran	61450/TL
Baseline	22/12/2022	3	WC	11073312004	Punjab	Lodhran	102970/R
Baseline	23/12/2022	3	WC	11094132030	Punjab	Rajanpur	4000/L
Baseline	03/01/2023	1	WC	11024332001	Punjab	Toba Tek Singh	443650/L
Baseline	03/01/2023	2	WC	11061112002	Punjab	Gujrat	30000/L
Baseline	03/01/2023	2	WC	11061132004	Punjab	Gujrat	9136/L
Baseline	03/01/2023	3	WC	11072232014	Punjab	Khanewal	87400/R
Baseline	04/01/2023	1	WC	11024332005	Punjab	Toba Tek Singh	2500/L
Baseline	04/01/2023	2	WC	11061112001	Punjab	Gujrat	7132/R
Baseline	04/01/2023	3	WC	11072232015	Punjab	Khanewal	11415/L
Baseline	05/01/2023	1	WC	11024132013	Punjab	Toba Tek Singh	58460/L
Baseline	05/01/2023	2	WC	11061132003	Punjab	Gujrat	12884/R
Baseline	05/01/2023	3	WC	11072232001	Punjab	Khanewal	264704/L
Baseline	06/01/2023	1	WC	11024132007	Punjab	Toba Tek Singh	30896/R
Baseline	06/01/2023	2	WC	11061132002	Punjab	Gujrat	46895/L
Baseline	06/01/2023	3	WC	11072232002	Punjab	Khanewal	24830/R
Baseline	07/01/2023	1	WC	11024232007	Punjab	Toba Tek Singh	445/L
Baseline	07/01/2023	2	WC	11061132005	Punjab	Gujrat	30000/L
Baseline	07/01/2023	3	WC	11072232003	Punjab	Khanewal	47460/R
Baseline	08/01/2023	2	WC	11033132017	Punjab	Pakpattan	20440/R
Baseline	09/01/2023	1	WC	11023332018	Punjab	Jhang	35478/R
Baseline	09/01/2023	2	WC	11033112002	Punjab	Pakpattan	12996/R
Baseline	09/01/2023	3	WC	11072412003	Punjab	Khanewal	1500/R
Baseline	10/01/2023	1	WC	11023332015	Punjab	Jhang	43486/L
Baseline	10/01/2023	2	WC	11033232021	Punjab	Pakpattan	4393/L
Baseline	10/01/2023	2	WC	11053332003	Punjab	Sialkot	29800/L
Baseline	10/01/2023	3	WC	11072432019	Punjab	Khanewal	4050/R
Baseline	11/01/2023	1	WC	11023312002	Punjab	Jhang	17720/R
Baseline	11/01/2023	1	WC	11023312005	Punjab	Jhang	88668/L
Baseline	11/01/2023	2	WC	11053232001	Punjab	Sialkot	2000/R

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
Baseline	12/01/2023	1	WC	11021332001	Punjab	Faisalabad	30694/R
Baseline	12/01/2023	1	WC	11021332010	Punjab	Faisalabad	18985/L
Baseline	12/01/2023	2	WC	11033132015	Punjab	Pakpattan	33500/R
Baseline	12/01/2023	2	WC	11053332002	Punjab	Sialkot	131000/R
Baseline	13/01/2023	1	WC	11012432002	Punjab	Kasur	45316/L
Baseline	13/01/2023	2	WC	11033132013	Punjab	Pakpattan	37030/L
Baseline	13/01/2023	2	WC	11053232002	Punjab	Sialkot	1980/L
Baseline	14/01/2023	1	WC	11021432017	Punjab	Faisalabad	47007/L
Baseline	14/01/2023	1	WC	11022132002	Punjab	Chiniot	17006/R
Baseline	14/01/2023	2	WC	11053232003	Punjab	Sialkot	24200/TL
Baseline	07/02/2023	2	WC	11041632008	Punjab	Sargodha	28900/R
Baseline	07/02/2023	3	WC	11074132008	Punjab	Vehari	71750/L
Baseline	08/02/2023	2	WC	11033112003	Punjab	Pakpattan	24763/L
Baseline	08/02/2023	3	WC	11073132024	Punjab	Lodhran	63534/L
Baseline	08/02/2023	3	WC	11074212002	Punjab	Vehari	289500/R
Baseline	08/02/2023	3	WC	11074232005	Punjab	Vehari	2000/R
Baseline	09/02/2023	2	WC	11063232001	Punjab	Mandi Bahauddin	13726/L
Baseline	09/02/2023	2	WC	11063312002	Punjab	Mandi Bahauddin	23014/L
Baseline	10/02/2023	2	WC	11063212003	Punjab	Mandi Bahauddin	104720/R
Baseline	10/02/2023	3	WC	11074232003	Punjab	Vehari	10780/R
Baseline	11/02/2023	2	WC	11052112001	Punjab	Narowal	18500/R
Baseline	12/02/2023	3	WC	11074132009	Punjab	Vehari	13020/R
Baseline	13/02/2023	3	WC	11074432010	Punjab	Vehari	25178/L
Baseline	17/02/2023	1	WC	11013132003	Punjab	Nankana Sahib	33400/TF
Baseline	20/02/2023	1	WC	11013132005	Punjab	Nankana Sahib	24642/TL
Baseline	21/02/2023	1	WC	11013132006	Punjab	Nankana Sahib	24642/TF
Baseline	21/02/2023	1	WC	11032212001	Punjab	Okara	48010/TL
Baseline	04/07/2022	2	WC	12021412087	KP	Dera Ismail Khan	Ghulam Sadiq
Baseline	04/07/2022	2	WC	12021412093	KP	Dera Ismail Khan	Muhammad Sher Tw Wc
Baseline	05/07/2022	2	WC	12021112097	KP	Dera Ismail Khan	Ikram ullah
Baseline	05/07/2022	1	WC	12071116012	KP	Peshawar	Zahir ul Amin
Baseline	06/07/2022	2	WC	12021512110	KP	Dera Ismail Khan	Sardar Malik Liaqat
Baseline	14/07/2022	1	WC	12073232003	KP	Nowshera	Mogha No 19725/L

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
Baseline	23/07/2022	2	WC	12021112089	KP	Dera Ismail Khan	Ijaz U Din Tw Wc
Baseline	23/07/2022	2	WC	12021112099	KP	Dera Ismail Khan	Saif ur rehman
Baseline	26/07/2022	2	WC	12021112096	KP	Dera Ismail Khan	Sabir Hussain Tw Wc
Baseline	26/07/2022	2	WC	12021312014	KP	Dera Ismail Khan	Muhammad Haris
Baseline	27/07/2022	2	WC	12021412082	KP	Dera Ismail Khan	Allah Dad Tw
Baseline	28/07/2022	2	WC	12021112103	KP	Dera Ismail Khan	Sana Ullah Tw wc
Baseline	28/07/2022	2	WC	12021113002	KP	Dera Ismail Khan	Abdul Razaq
Baseline	29/07/2022	2	WC	12021112098	KP	Dera Ismail Khan	Ali Muhammad
Baseline	29/07/2022	2	WC	12021112101	KP	Dera Ismail Khan	Shahnawaz Tw Wc
Baseline	02/08/2022	2	WC	12021512123	KP	Dera Ismail Khan	Zameer Hussain Tw Wc
Baseline	02/08/2022	2	WC	12021512137	KP	Dera Ismail Khan	Qayum nawaz Tw Wc
Baseline	02/08/2022	3	WC	12033113025	KP	Haripur	Ahsan Raza
Baseline	04/08/2022	3	WC	12033313001	KP	Haripur	Akhtar Zaman
Baseline	04/08/2022	3	WC	12033313002	KP	Haripur	Ghulam Asghar
Baseline	05/12/2022	3	WC	12033113027	KP	Haripur	Muhammad Zaman
Baseline	05/12/2022	3	WC	12033316001	KP	Haripur	Shabir Muhammad Abbasi
Baseline	06/12/2022	3	WC	12031116013	KP	Abbottabad	Abid Gul
Baseline	07/12/2022	3	WC	12036116016	KP	Mansehra	Batrairh Pipe WC
Baseline	07/12/2022	3	WC	12036116020	KP	Mansehra	AKHTAR Zaib Khan Pipe WC
Baseline	08/12/2022	3	WC	12036212009	KP	Mansehra	CPEC Bajnah Chowk WC
Baseline	08/12/2022	3	WC	12036216017	KP	Mansehra	Batangi Timbri pipe WC
Baseline	09/12/2022	3	WC	12036216018	KP	Mansehra	Kamad Bela Pipe WC
Baseline	12/12/2022	3	WC	12036116010	KP	Mansehra	Hashir Pipe WC
Baseline	12/12/2022	3	WC	12036116023	KP	Mansehra	Gulzar Ahmed Khan WC
Baseline	13/12/2022	3	WC	12036116005	KP	Mansehra	Moeen
Baseline	13/12/2022	3	WC	12036316017	KP	Mansehra	Kashtra PWC
Baseline	14/12/2022	3	WC	12036216015	KP	Mansehra	Naror Trangri Pipe WC
Baseline	14/12/2022	3	WC	12036216020	KP	Mansehra	Uddi Kassi Pipe WC
Baseline	14/12/2022	3	WC	12036216022	KP	Mansehra	Timbri kattha Pipe WC
Baseline	15/12/2022	3	WC	12036212006	KP	Mansehra	51886-R
Baseline	15/12/2022	3	WC	12036236001	KP	Mansehra	Perwaiz Khan
Baseline	15/12/2022	1	WC	12072312002	KP	Charsadda	19195-L
Baseline	15/12/2022	1	WC	12072312008	KP	Charsadda	42200-R

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
Baseline	16/12/2022	3	WC	12033233001	KP	Haripur	Muhammad Zareen
Baseline	16/12/2022	3	WC	12033312002	KP	Haripur	Tahir Mehmood
Baseline	16/12/2022	1	WC	12072212001	KP	Charsadda	Khan Bacha
Baseline	16/12/2022	1	WC	12072316002	KP	Charsadda	Fazal Subhan 1
Baseline	19/12/2022	1	WC	12072312004	KP	Charsadda	11930-T.F
Baseline	19/12/2022	1	WC	12072316008	KP	Charsadda	Noor Ul Amin
Baseline	20/12/2022	1	WC	12061132002	KP	Mardan	6550-R
Baseline	20/12/2022	1	WC	12061512010	KP	Mardan	1700-L
Baseline	21/12/2022	1	WC	12061112035	KP	Mardan	Fazal Subhan
Baseline	21/12/2022	1	WC	12061113004	KP	Mardan	Muhammad Zeb
Baseline	22/12/2022	1	WC	12073132004	KP	Nowshera	180300-R
Baseline	22/12/2022	1	WC	12073312003	KP	Nowshera	3900-R
Baseline	22/12/2022	1	WC	12073312004	KP	Nowshera	21000-L
Baseline	23/12/2022	1	WC	12073112016	KP	Nowshera	6600-L
Baseline	23/12/2022	1	WC	12073113004	KP	Nowshera	Abdullah Khattak
Baseline	23/12/2022	1	WC	12073132003	KP	Nowshera	9284.T.F
Baseline	26/12/2022	1	WC	12073113018	KP	Nowshera	Muhammad Akbar
Baseline	26/12/2022	1	WC	12073213008	KP	Nowshera	Afsar khan
Baseline	27/12/2022	1	WC	12073112009	KP	Nowshera	Sartaj
Baseline	27/12/2022	1	WC	12073113015	KP	Nowshera	Shahin Shah
Baseline	27/12/2022	1	WC	12073113024	KP	Nowshera	Shahid
Baseline	28/12/2022	1	WC	12073113021	KP	Nowshera	Shahzad Gul
Baseline	28/12/2022	1	WC	12073313004	KP	Nowshera	Tayab khan
Baseline	28/12/2022	1	WC	12073313005	KP	Nowshera	Waseem Muhammad
Baseline	03/01/2023	1	WC	12071112042	KP	Peshawar	Ikram Ullah
Baseline	03/01/2023	1	WC	12071116003	KP	Peshawar	Rashid Zaman
Baseline	04/01/2023	1	WC	12071132004	KP	Peshawar	70000-L-Hazar Khwani
Baseline	04/01/2023	1	WC	12071132008	KP	Peshawar	159000-L Wgc
Baseline	05/01/2023	1	WC	12071116011	KP	Peshawar	Adil zaman
Baseline	05/01/2023	1	WC	12071412001	KP	Peshawar	Amjad Ali
Baseline	06/01/2023	1	WC	12071212001	KP	Peshawar	Kashif Twc
Baseline	06/01/2023	1	WC	12071216001	KP	Peshawar	Iqbal Hussain
Baseline	09/01/2023	1	WC	12071112045	KP	Peshawar	Tahir khan

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
Baseline	09/01/2023	1	WC	12071112047	KP	Peshawar	Wajid khan
Baseline	10/01/2023	2	WC	12021312012	KP	Dera Ismail Khan	Akhtar Ullah
Baseline	10/01/2023	2	WC	12021312013	KP	Dera Ismail Khan	Muhammad Ayaz
Baseline	10/01/2023	1	WC	12062113007	KP	Swabi	WC NO.12320/R
Baseline	10/01/2023	1	WC	12062312003	KP	Swabi	13000-L
Baseline	11/01/2023	2	WC	12021112088	KP	Dera Ismail Khan	Gul Khan Tw
Baseline	11/01/2023	2	WC	12021112095	KP	Dera Ismail Khan	Ghulam Abbas shah
Baseline	11/01/2023	1	WC	12061313001	KP	Mardan	No. 1134/R
Baseline	11/01/2023	1	WC	12071116001	KP	Peshawar	Abdul Majeed
Baseline	12/01/2023	2	WC	12021512121	KP	Dera Ismail Khan	Muhammad Aftab Tw Wc
Baseline	12/01/2023	2	WC	12021513005	KP	Dera Ismail Khan	Hayat Ullah
Baseline	13/01/2023	2	WC	12021412085	KP	Dera Ismail Khan	Malik Khurshid Tw
Baseline	13/01/2023	2	WC	12021412089	KP	Dera Ismail Khan	Muhammad Akram Tw Wc
Baseline	16/01/2023	2	WC	12021512112	KP	Dera Ismail Khan	Muhammad Tw Wc
Baseline	16/01/2023	2	WC	12021512117	KP	Dera Ismail Khan	Sona Tw Wc
Baseline	17/01/2023	2	WC	12021112090	KP	Dera Ismail Khan	Shah jahan Tw Wc
Baseline	17/01/2023	2	WC	12021412091	KP	Dera Ismail Khan	Nazeer Aehmad
Baseline	19/01/2023	2	WC	12041113026	KP	Kohat	Abdul Qadir
Baseline	19/01/2023	2	WC	12041113060	KP	Kohat	Ahsan Hayat
Baseline	24/01/2023	1	WC	12052216003	KP	Buner	Umer Wahid
Baseline	24/01/2023	1	WC	12052216004	KP	Buner	Amir Nawab Khan
Baseline	25/01/2023	1	WC	12052616011	KP	Buner	Laiq Zada TWWC
Baseline	25/01/2023	1	WC	12052616021	KP	Buner	Qayyum Zada TWWC
Baseline	26/01/2023	1	WC	12052216022	KP	Buner	T/W WC wazir ali
Baseline	26/01/2023	1	WC	12052416007	KP	Buner	Rahat Shah
Baseline	27/01/2023	1	WC	12056516030	KP	Swat	Sadam Hussain
Baseline	27/01/2023	1	WC	12056516060	KP	Swat	Abdullah
Baseline	27/01/2023	1	WC	12056516071	KP	Swat	Bahader zeb
Baseline	07/02/2023	2	WC	12041112001	KP	Kohat	12400-R
Baseline	07/02/2023	2	WC	12041113033	KP	Kohat	Hazrat Umar
Baseline	07/02/2023	1	WC	12056416019	KP	Swat	Muhammad ishaq
Baseline	07/02/2023	1	WC	12056416026	KP	Swat	Qadar Gul
Baseline	08/02/2023	2	WC	12011112003	KP	Bannu	Noor Naib Khan

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
Baseline	08/02/2023	2	WC	12011118002	KP	Bannu	Adhami Degan
Baseline	08/02/2023	1	WC	12056416024	KP	Swat	Asad Ali
Baseline	08/02/2023	1	WC	12056716071	KP	Swat	Wahid zada
Baseline	09/02/2023	2	WC	12011112001	KP	Bannu	Faisal Khan-2
Baseline	09/02/2023	2	WC	12011112002	KP	Bannu	Faisal Khan-1
Baseline	09/02/2023	1	WC	12056616010	KP	Swat	Fawad Ullah
Baseline	09/02/2023	1	WC	12056616013	KP	Swat	Khurshid Ali
Baseline	10/02/2023	2	WC	12012312002	KP	Lakki Marwat	Vial Shahjee Wala
Baseline	10/02/2023	2	WC	12012312004	KP	Lakki Marwat	Vail Nimzar
Baseline	10/02/2023	1	WC	12056216021	KP	Swat	Akbar shah
Baseline	13/02/2023	2	WC	12021112042	KP	Dera Ismail Khan	3500-L
Baseline	13/02/2023	2	WC	12021112047	KP	Dera Ismail Khan	3800-L
Baseline	13/02/2023	2	WC	12021112079	KP	Dera Ismail Khan	17600-R
Baseline	13/02/2023	1	WC	12054216001	KP	Lower Dir	171+500-L
Baseline	14/02/2023	2	WC	12021412063	KP	Dera Ismail Khan	2900-R
Baseline	14/02/2023	2	WC	12021512026	KP	Dera Ismail Khan	3143-R
Baseline	14/02/2023	1	WC	12051116001	KP	Malakand	Asmatullah
Baseline	14/02/2023	1	WC	12051212012	KP	Malakand	10181-L
Baseline	15/02/2023	1	WC	12051212006	KP	Malakand	32650-L
Baseline	15/02/2023	1	WC	12051212029	KP	Malakand	Mogha 25461/ R
Baseline	16/02/2023	1	WC	12051212017	KP	Malakand	Mogha 3593/R
Baseline	16/02/2023	1	WC	12051212026	KP	Malakand	Mogha 1148/R
Baseline	18/08/2022	1	WC	16110116011	ICT	ICT	Ch.Khanzada Khan
Baseline	18/08/2022	1	WC	16110116017	ICT	ICT	Muhammad Amjad Khan
BLS & Impact	16/01/2023	1	WC	14032118023	GB	Gilgit	Main Nallah To Mustafa House
BLS & Impact	16/01/2023	2	WC	14032118024	GB	Gilgit	Main Channel To Qari Javaid House
BLS & Impact	16/01/2023	3	WC	14032315006	GB	Gilgit	Nallah To Junaid Land Pari
BLS & Impact	16/01/2023	3	WC	14032317003	GB	Gilgit	Kkh To Ahmed Sayed Land Drot
BLS & Impact	17/01/2023	3	WC	14031218030	GB	Ghizer	Gotch Gan Hamuchal Paen Shairqila
BLS & Impact	17/01/2023	2	WC	14034216001	GB	Hunza	Tazeem Channel Gojal
BLS & Impact	17/01/2023	2	WC	14034915006	GB	Hunza	Maliki Dallah Head To Altit Fort Area
BLS & Impact	17/01/2023	1	WC	14035118017	GB	Nagar	Base On Hotel To Yar Mohallah Gulmet
BLS & Impact	17/01/2023	1	WC	14035118018	GB	Nagar	Imam Bargah To Mir Muhammad Land Sharyar

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
BLS & Impact	18/01/2023	1	WC	14021118019	GB	Astore	Trashing Main Channel
BLS & Impact	18/01/2023	1	WC	14021118020	GB	Astore	Hayat Land
BLS & Impact	18/01/2023	2	WC	14031218031	GB	Ghizer	Intake To Khari Hatoon Near Hasis Bridge
BLS & Impact	18/01/2023	3	WC	14031918020	GB	Ghizer	Akber House To Fida Land Morkha Yaseen
BLS & Impact	18/01/2023	3	WC	14033118012	GB	Ghizer	Qurban House Sadique Land Handarp Polo Ground
BLS & Impact	19/01/2023	1	WC	14022115001	GB	Diamer	Wc From Misar Haji House To Wadan House
BLS & Impact	19/01/2023	1	WC	14022115002	GB	Diamer	Wc From Nallah To Latti Bala
BLS & Impact	19/01/2023	2	WC	14023215002	GB	Diamer	Wc From Nallah To Ghali Dar
BLS & Impact	19/01/2023	3	WC	14023218004	GB	Diamer	Wc At Shiniki Het Goner Farm
BLS & Impact	20/01/2023	2	WC	14014115044	GB	Skardu	Mir Pi Shahma Sermic
BLS & Impact	20/01/2023	3	WC	14014915002	GB	Skardu	Gond Bainsa Bilamik
BLS & Impact	20/01/2023	1	WC	14023218005	GB	Diamer	Niat Nallah To Malkush
BLS & Impact	20/01/2023	1	WC	14023218009	GB	Diamer	Nallah To Khai Botogha
BLS & Impact	23/01/2023	3	WC	14014918005	GB	Skardu	Center Bilamik Roundu From Main Channel To Jingkha
BLS & Impact	23/01/2023	3	WC	14014918006	GB	Skardu	Nang Harka Harpo Bala Roundu From Main Channel To Link Road
BLS & Impact	23/01/2023	2	WC	14014918007	GB	Skardu	Choliskam From Nallah To Road Talu Roundu
BLS & Impact	23/01/2023	2	WC	14014918008	GB	Skardu	Goma Biala Thowar Roundu
BLS & Impact	23/01/2023	1	WC	14014918009	GB	Skardu	Nasaso Yulbu Roundu
BLS & Impact	24/01/2023	2	WC	14013115001	GB	Shigar	Gorey Hrka Ned From Main Cool To Ali Ahmad Plot
BLS & Impact	24/01/2023	3	WC	14013115002	GB	Shigar	Sarfa Khor Dassu Shiger
BLS & Impact	24/01/2023	1	WC	14014915003	GB	Kharmang	Gamba Drong Paari From Community Hall Muhallah Mishyari
BLS & Impact	24/01/2023	1	WC	14014915004	GB	Kharmang	Chenger Susithang From Main Channel To Link Road
BLS & Impact	25/01/2023	2	WC	14011115004	GB	Ghanche	Gharis Khaplu
BLS & Impact	25/01/2023	2	WC	14011115005	GB	Ghanche	Bargani Ranthaq To Sargaib Rzing Khaplu
BLS & Impact	25/01/2023	1	WC	14013118001	GB	Shigar	Banpi Yarkhor Tissar From Nallah To Haider Plot
BLS & Impact	25/01/2023	1	WC	14013118002	GB	Shigar	Masjid Hrka Kayo Gulabpur From Main Nallah To Main Channel
BLS & Impact	26/01/2023	1	WC	14011115007	GB	Ghanche	Muldumar Rzing To Albowa Bagh Khaplu
BLS & Impact	26/01/2023	1	WC	14011115008	GB	Ghanche	Oli Harkha Thasqong
BLS & Impact	26/01/2023	2	WC	14011115009	GB	Ghanche	Ayub Land To Kacho Land Barah
BLS & Impact	26/01/2023	2	WC	14011115010	GB	Ghanche	Xoksi Harka Barah Pain
Baseline	30/07/2022	2	WC	13065113020	Balochistan	Ziarat	Naik Muhammad
Baseline	08/08/2022	1	WC	15031112007	AJK	Bhimber	Machia-2
Baseline	08/08/2022	1	WC	15031112023	AJK	Bhimber	Kachi 2

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
Baseline	07/09/2022	1	WC	15012125001	AJK	Jhelum	Goharabad
Baseline	07/09/2022	1	WC	15012125003	AJK	Jhelum	Kukarwara
Baseline	20/10/2022	1	WC	15021215005	AJK	Bagh	Kalsota Nathgran
Baseline	21/12/2022	1	WC	15021115008	AJK	Bagh	Tach Banipassri
Baseline	16/01/2023	1	WC	15033112018	AJK	Mirpur	Dalyala
Baseline	16/01/2023	1	WC	15033112054	AJK	Mirpur	Chapran-2
Baseline	17/01/2023	1	WC	15033112068	AJK	Mirpur	Raipur
Baseline	18/01/2023	1	WC	15031112035	AJK	Bhimber	Sokasan
Baseline	18/01/2023	1	WC	15031212006	AJK	Bhimber	Malkay-4
Baseline	26/01/2023	1	WC	15023116001	AJK	Poonch	Lower Dhothan
Baseline	26/01/2023	1	WC	15023328001	AJK	Poonch	Upper Sawa
Baseline	26/01/2023	1	WC	15024215001	AJK	Sudhnoti	Tarnoti To Dhok
Baseline	13/02/2023	1	WC	15012318001	AJK	Jhelum	Chatkari
Baseline	14/02/2023	1	WC	15013125005	AJK	Neelum	Kanoor To Lawat Khawaja Seri
Baseline	14/02/2023	1	WC	15013218002	AJK	Neelum	Shesha Pahar To Kiyani Muhalla
Baseline	15/02/2023	1	WC	15011215005	AJK	Muzaffarabad	Meldi Kasi To Parla
Baseline	15/02/2023	1	WC	15011218001	AJK	Muzaffarabad	Doba Upper Phagla

Annex. F: Baseline Field Survey Visits by Field Teams During Reporting Period – Water Storage Tanks

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
Baseline	03/07/2022	2	WST	21083412001	Punjab	Rahim Yar Khan	Abdul Ghaffar Khan Abbasi:Aziz-Ur-Rehman
Baseline	03/07/2022	2	WST	21083412002	Punjab	Rahim Yar Khan	Abuzar:Abdul Kareem
Baseline	10/10/2022	3	WST	21081312004	Punjab	Bahawalpur	Muhammad Parvaiz:Ch. Muhammad Yousuf
Baseline	26/12/2022	2	WST	21092312003	Punjab	Layyah	Muhammad Aslam:Ameer Ud Din
Baseline	04/01/2023	1	WST	21024313002	Punjab	Toba Tek Singh	Ch.Muhammad Ali:Safdar Ali
Baseline	05/01/2023	1	WST	21024113001	Punjab	Toba Tek Singh	Farhan Akbar:Muhammad Akbar
Baseline	09/01/2023	1	WST	21023210005	Punjab	Jhang	Tahir Sabtai:Ghulam Jaffer Khan
Baseline	16/01/2023	1	WST	21102112009	Punjab	Attock	Mian Muhammad Raza:Main Altaf Hussain
Baseline	18/01/2023	1	WST	21101612008	Punjab	Rawalpindi	Muhammad Shamroz:M. Ferooz
Baseline	18/01/2023	1	WST	21101614001	Punjab	Rawalpindi	Tariq Mahmood:Fazal Khan
Baseline	19/01/2023	1	WST	21033112003	Punjab	Pakpattan	M. Tayyab:Muhammad Anwer
Baseline	04/07/2022	1	WST	22071132040	KP	Peshawar	Ibrahim Khan
Baseline	04/07/2022	1	WST	22071132041	KP	Peshawar	Afaq Ahmad
Baseline	05/07/2022	2	WST	22021132018	KP	Dera Ismail Khan	Ikram Ullah Tw Wst
Baseline	05/07/2022	1	WST	22071132011	KP	Peshawar	Muhammad Usman
Baseline	05/07/2022	1	WST	22071132039	KP	Peshawar	Zahir Ul Amin
Baseline	28/07/2022	2	WST	22021332004	KP	Dera Ismail Khan	Umar Ameen Tw Wst
Baseline	30/07/2022	2	WST	22021432049	KP	Dera Ismail Khan	Fatima Begam
Baseline	02/08/2022	3	WST	22033132010	KP	Haripur	Ahsan Raza
Baseline	02/08/2022	3	WST	22033132012	KP	Haripur	Muhammad Zaman Khan
Baseline	03/08/2022	2	WST	22021342001	KP	Dera Ismail Khan	Javed Anwar Khan
Baseline	03/08/2022	2	WST	22021432001	KP	Dera Ismail Khan	Mumtaz
Baseline	03/08/2022	3	WST	22033132006	KP	Haripur	Khani Zaman
Baseline	04/08/2022	2	WST	22021432044	KP	Dera Ismail Khan	Saif Ullah Tw Wst
Baseline	04/08/2022	2	WST	22021432045	KP	Dera Ismail Khan	Ameer Asfand Yar
Baseline	04/08/2022	2	WST	22021432046	KP	Dera Ismail Khan	Abdul Majeed Tw Wst
Baseline	07/12/2022	3	WST	22036135009	KP	Mansehra	Saleem Khan Thakra Wst
Baseline	08/12/2022	3	WST	22036234001	KP	Mansehra	Saqib Sherazi
Baseline	09/12/2022	3	WST	22036235006	KP	Mansehra	Arshad Mehmood Wst
Baseline	13/12/2022	3	WST	22036335002	KP	Mansehra	Kashtra Wst
Baseline	21/12/2022	1	WST	22061132005	KP	Mardan	Ahmad Ali
Baseline	26/12/2022	1	WST	22073232002	KP	Nowshera	Sawabuddin

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
Baseline	26/12/2022	1	WST	22073232003	KP	Nowshera	Wajahat Khan
Baseline	27/12/2022	1	WST	22073132002	KP	Nowshera	Iftikhar
Baseline	28/12/2022	1	WST	22073332004	KP	Nowshera	Malook Khan
Baseline	03/01/2023	1	WST	22071132028	KP	Peshawar	Aqeel Afzal
Baseline	04/01/2023	3	WST	22031147001	KP	Abbottabad	Hanif Awan
Baseline	05/01/2023	3	WST	22032147001	KP	Battagram	Shamalai
Baseline	05/01/2023	1	WST	22071132005	KP	Peshawar	Aziz Khan
Baseline	06/01/2023	1	WST	22071132006	KP	Peshawar	Muhammad Uzair
Baseline	10/01/2023	2	WST	22021132001	KP	Dera Ismail Khan	Abdul Qayum
Baseline	10/01/2023	1	WST	22062232001	KP	Swabi	Mazhar Ali
Baseline	13/01/2023	2	WST	22021432047	KP	Dera Ismail Khan	Shafqat Ullah Tw Wst
Baseline	17/01/2023	1	WST	22101337001	KP	Khyber	Junaid
Baseline	24/01/2023	1	WST	22052232006	KP	Buner	Wst Mursaleen Shah
Baseline	26/01/2023	1	WST	22052232007	KP	Buner	Wst Rashid Ahmad
Baseline	08/02/2023	2	WST	22011132001	KP	Bannu	Ihsanu Llah Khan
Baseline	10/02/2023	1	WST	22056234017	KP	Swat	Abdur Raziq
Baseline	10/02/2023	1	WST	22056234022	KP	Swat	Taj Mohammad
Baseline	10/02/2023	1	WST	22056244002	KP	Swat	Nasar
Baseline	13/02/2023	1	WST	22054132008	KP	Lower Dir	Sajjad Khan
Baseline	14/02/2023	1	WST	22056234001	KP	Swat	Gul Roze
Baseline	15/02/2023	2	WST	22043332001	KP	Karak	Mir Wali
Baseline	15/02/2023	2	WST	22043332007	KP	Karak	Adnan
Baseline	16/02/2023	1	WST	22051332003	KP	Malakand	Shakeel Ahmed
Baseline	20/02/2023	1	WST	22055134002	KP	Shangla	Fazal Khuda
Baseline	21/02/2023	1	WST	22055134001	KP	Shangla	Intikhab Alam Wst
Baseline	22/02/2023	1	WST	22057144002	KP	Upper Dir	Tangai Bala
BLS & Impact	16/01/2023	1	WST	24032159014	GB	Gilgit	Dr Qalab Ali Land Jutal Dass
BLS & Impact	16/01/2023	2	WST	24032159015	GB	Gilgit	Dawood Land
BLS & Impact	17/01/2023	3	WST	24031159005	GB	Ghizer	Imran Land
BLS & Impact	17/01/2023	2	WST	24034959007	GB	Hunza	Tajir Land Bull Dass
BLS & Impact	17/01/2023	1	WST	24035159002	GB	Nagar	Community Land Duikar
BLS & Impact	18/01/2023	1	WST	24021959010	GB	Astore	Wali Shah Land .Mouza:Het
BLS & Impact	18/01/2023	2	WST	24033159008	GB	Ghizer	Mirza Khan Land

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
BLS & Impact	19/01/2023	2	WST	24023259009	GB	Diamer	Abdur-Rehman Land
BLS & Impact	19/01/2023	3	WST	24023259010	GB	Diamer	Sher Alam Land
BLS & Impact	20/01/2023	2	WST	24014159012	GB	Skardu	Murtaza Abad Qumra
BLS & Impact	20/01/2023	3	WST	24014159014	GB	Skardu	Khosho Chumik Skardu
BLS & Impact	24/01/2023	2	WST	24013159013	GB	Shigar	Ghazi Abad Wazir Pur Shiger
BLS & Impact	24/01/2023	3	WST	24013159014	GB	Shigar	Tharanpa Alchori Shiger
BLS & Impact	24/01/2023	1	WST	24014959008	GB	Kharmang	Gangani Kharmang
Baseline	19/07/2022	2	WST	23042439001	Balochistan	Quetta	Abdul Khaliq
Baseline	19/07/2022	3	WST	23072152004	Balochistan	Killa Saifullah	Abdul Wahab
Baseline	19/07/2022	3	WST	23072152052	Balochistan	Killa Saifullah	Shamsu-Ur Rehman
Baseline	20/07/2022	2	WST	23041152008	Balochistan	Quetta	Zafar ullah
Baseline	20/07/2022	2	WST	23041752019	Balochistan	Quetta	Saifullah
Baseline	20/07/2022	3	WST	23072652034	Balochistan	Killa Saifullah	Muhammad Rahim
Baseline	21/07/2022	2	WST	23015252001	Balochistan	Mastung	Abdul Samad
Baseline	21/07/2022	2	WST	23015259013	Balochistan	Mastung	Mohammad Alim
Baseline	21/07/2022	3	WST	23081152007	Balochistan	Loralai	Abdul Mateen
Baseline	22/07/2022	2	WST	23081152006	Balochistan	Loralai	Abdul Jalil
Baseline	22/07/2022	2	WST	23081152026	Balochistan	Loralai	Noorullah
Baseline	22/07/2022	3	WST	23081152066	Balochistan	Loralai	A Ghafar
Baseline	25/07/2022	1	WST	23031251001	Balochistan	Nasirabad	Allah Dina
Baseline	01/08/2022	2	WST	23081152004	Balochistan	Loralai	Abdul Hadi
Baseline	25/08/2022	1	WST	23034239004	Balochistan	Kachi	Imran Khan
Baseline	25/08/2022	2	WST	23043739002	Balochistan	Pishin	Haji Alam Khan
Baseline	19/10/2022	2	WST	23041859002	Balochistan	Quetta	Muhammad Haroon
Baseline	08/09/2022	1	WST	25011116019	AJK	Muzaffarabad	Potha Kacheli
Baseline	08/09/2022	1	WST	250111124034	AJK	Muzaffarabad	Poothi Farooqabad
Baseline	09/09/2022	1	WST	25011116055	AJK	Muzaffarabad	Saibthaan
Baseline	12/09/2022	1	WST	25032625002	AJK	Kotli	Tarala 2
Baseline	21/12/2022	1	WST	25021227008	AJK	Bagh	Kernota
Baseline	17/01/2023	1	WST	25033228001	AJK	Mirpur	Darari West
Baseline	26/01/2023	1	WST	25024316005	AJK	Sudhnoti	Jhanda Bagla
Baseline	27/01/2023	1	WST	25023216002	AJK	Poonch	Kanoli Chatra
Baseline	27/01/2023	1	WST	25023327004	AJK	Poonch	Lower Trasel

Annex. G: Impact Field Survey Visits by Field Teams During Reporting Period – Watercourses

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
Impact	19/07/2022	1	WC	11032232016	Punjab	Okara	10483/L
Impact	20/07/2022	1	WC	11032212020	Punjab	Okara	20100/L
Impact	20/07/2022	1	WC	11032232005	Punjab	Okara	67700/L
Impact	20/07/2022	3	WC	11093532013	Punjab	Muzaffargarh	26590/L
Impact	21/07/2022	1	WC	11032232045	Punjab	Okara	18000/L
Impact	21/07/2022	3	WC	11093512013	Punjab	Muzaffargarh	26338/R
Impact	21/07/2022	3	WC	11093532049	Punjab	Muzaffargarh	17600/L
Impact	22/07/2022	3	WC	11093532012	Punjab	Muzaffargarh	94934/L
Impact	22/07/2022	3	WC	11093532021	Punjab	Muzaffargarh	211073/R
Impact	23/07/2022	3	WC	11093532022	Punjab	Muzaffargarh	46922/L
Impact	25/07/2022	1	WC	11012112001	Punjab	Kasur	3854/L
Impact	25/07/2022	1	WC	11012232008	Punjab	Kasur	11430/R
Impact	25/07/2022	2	WC	11051532010	Punjab	Gujranwala	58622/TL
Impact	26/07/2022	2	WC	11051532006	Punjab	Gujranwala	12445/R
Impact	26/07/2022	2	WC	11051532026	Punjab	Gujranwala	18715/L
Impact	28/07/2022	2	WC	11051232001	Punjab	Gujranwala	21600/R
Impact	28/07/2022	2	WC	11051412001	Punjab	Gujranwala	73300/R
Impact	28/07/2022	2	WC	11051432001	Punjab	Gujranwala	125800/R
Impact	03/08/2022	2	WC	11051432013	Punjab	Gujranwala	63100/L
Impact	16/08/2022	1	WC	11031132009	Punjab	Sahiwal	87112/L
Impact	16/08/2022	1	WC	11031132010	Punjab	Sahiwal	28240/R
Impact	18/08/2022	1	WC	11031132008	Punjab	Sahiwal	6300/L
Impact	18/08/2022	1	WC	11031232064	Punjab	Sahiwal	32150/L
Impact	10/12/2022	2	WC	11062232019	Punjab	Hafizabad	41350/TL
Impact	10/12/2022	2	WC	11063332004	Punjab	Mandi Bahauddin	7000/R
Impact	11/12/2022	2	WC	11062132025	Punjab	Hafizabad	22447/L
Impact	11/12/2022	2	WC	11062232010	Punjab	Hafizabad	15404/R
Impact	16/12/2022	2	WC	11062232024	Punjab	Hafizabad	4256/R
Impact	21/12/2022	2	WC	11091432008	Punjab	Dera Ghazi Khan	11470/L
Impact	22/12/2022	2	WC	11091412002	Punjab	Dera Ghazi Khan	19288/L
Impact	23/12/2022	2	WC	11091132008	Punjab	Dera Ghazi Khan	59100/TR

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
Impact	16/01/2023	3	WC	11042132003	Punjab	Bhakkar	26750/L
Impact	16/01/2023	3	WC	11042132043	Punjab	Bhakkar	74750/R
Impact	17/01/2023	3	WC	11042312003	Punjab	Bhakkar	34000/TL
Impact	18/01/2023	2	WC	11062132036	Punjab	Hafizabad	6730/L
Impact	25/04/2023	2	WC	11062212003	Punjab	Hafizabad	7224/R
Impact	06/06/2023	1	WC	11032332012	Punjab	Okara	16125/R
Impact	06/06/2023	2	WC	11061132004	Punjab	Gujrat	9136/L
Impact	06/06/2023	3	WC	11073132001	Punjab	Lodhran	33855/R
Impact	07/06/2023	1	WC	11032212001	Punjab	Okara	48010/TL
Impact	07/06/2023	2	WC	11061112002	Punjab	Gujrat	30000/L
Impact	07/06/2023	3	WC	11073132002	Punjab	Lodhran	15750/L
Impact	08/06/2023	1	WC	11032332008	Punjab	Okara	12535/TR
Impact	08/06/2023	2	WC	11061112001	Punjab	Gujrat	7132/R
Impact	08/06/2023	3	WC	11073132024	Punjab	Lodhran	63534/L
Impact	09/06/2023	1	WC	11032232007	Punjab	Okara	81400/R
Impact	09/06/2023	2	WC	11061132003	Punjab	Gujrat	12884/R
Impact	09/06/2023	3	WC	11073332002	Punjab	Lodhran	27405/L
Impact	10/06/2023	1	WC	11032332009	Punjab	Okara	7550/L
Impact	10/06/2023	2	WC	11061132002	Punjab	Gujrat	46895/L
Impact	10/06/2023	3	WC	11073312002	Punjab	Lodhran	18100/L
Impact	12/06/2023	1	WC	11032232040	Punjab	Okara	23980/R
Impact	12/06/2023	2	WC	11061132005	Punjab	Gujrat	30000/L
Impact	12/06/2023	3	WC	11073332004	Punjab	Lodhran	126231/R
Impact	13/06/2023	1	WC	11032212004	Punjab	Okara	14100/R
Impact	13/06/2023	2	WC	11053332003	Punjab	Sialkot	29800/L
Impact	13/06/2023	3	WC	11073332005	Punjab	Lodhran	49000/R
Impact	14/06/2023	1	WC	11032232006	Punjab	Okara	4050/L
Impact	14/06/2023	2	WC	11053232001	Punjab	Sialkot	2000/R
Impact	14/06/2023	3	WC	11073332006	Punjab	Lodhran	6900/R
Impact	15/06/2023	1	WC	11032132001	Punjab	Okara	87000/TL
Impact	15/06/2023	2	WC	11053332002	Punjab	Sialkot	131000/R
Impact	16/06/2023	1	WC	11032232004	Punjab	Okara	22627/R
Impact	16/06/2023	2	WC	11053232002	Punjab	Sialkot	1980/L

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
Impact	16/06/2023	3	WC	11073312006	Punjab	Lodhran	12702/L
Impact	16/06/2023	3	WC	11073332003	Punjab	Lodhran	2925/R
Impact	17/06/2023	1	WC	11032212002	Punjab	Okara	90600/TR
Impact	17/06/2023	2	WC	11053232003	Punjab	Sialkot	24200/TL
Impact	17/06/2023	3	WC	11073312005	Punjab	Lodhran	52200/TF
Impact	19/06/2023	1	WC	11011232007	Punjab	Lahore	13600/L
Impact	19/06/2023	3	WC	11073312001	Punjab	Lodhran	43818/L
Impact	20/06/2023	3	WC	11073312015	Punjab	Lodhran	61450/TL
Impact	20/06/2023	3	WC	11073332001	Punjab	Lodhran	70978/TL
Impact	21/06/2023	3	WC	11073312004	Punjab	Lodhran	102970/R
Impact	21/06/2023	3	WC	11081132021	Punjab	Bahawalpur	4320/L
Impact	22/06/2023	1	WC	11031232032	Punjab	Sahiwal	97580/L
Impact	22/06/2023	1	WC	11031232066	Punjab	Sahiwal	30470/R
Impact	22/06/2023	3	WC	11094132030	Punjab	Rajanpur	4000/L
Impact	23/06/2023	1	WC	11074132008	Punjab	Vehari	71750/L
Impact	23/06/2023	1	WC	11074212002	Punjab	Vehari	289500/R
Impact	24/06/2023	1	WC	11074232003	Punjab	Vehari	10780/R
Impact	24/06/2023	1	WC	11074232005	Punjab	Vehari	2000/R
Impact	26/06/2023	1	WC	11074132009	Punjab	Vehari	13020/R
Impact	26/06/2023	1	WC	11074432010	Punjab	Vehari	25178/L
Impact	16/07/2022	2	WC	12021412080	KP	Dera Ismail Khan	Sona Khan
Impact	31/08/2022	3	WC	12033113007	KP	Haripur	Nazakat Khan
Impact	31/08/2022	3	WC	12033113013	KP	Haripur	Shakir Ali
Impact	31/08/2022	1	WC	12061112019	KP	Mardan	Ali Sarwar
Impact	01/09/2022	3	WC	12031116011	KP	Abbottabad	Bagotar Doga
Impact	01/09/2022	2	WC	12041113054	KP	Kohat	Asim Altaf
Impact	02/09/2022	2	WC	12011313019	KP	Bannu	Habib Ullah
Impact	02/09/2022	3	WC	12032116003	KP	Battagram	Badiuzzaman Khan
Impact	02/09/2022	3	WC	12036113010	KP	Mansehra	Ashique Hussain
Impact	03/09/2022	2	WC	12012113042	KP	Lakki Marwat	Gulo Khan
Impact	03/09/2022	3	WC	12037215005	KP	Torghar	Jaaga Bala
Impact	05/09/2022	2	WC	12021412079	KP	Dera Ismail Khan	Naimat Ullah
Impact	05/09/2022	1	WC	12062113002	KP	Swabi	Baz Muhammad

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
Impact	05/09/2022	1	WC	12062132002	KP	Swabi	026-L
Impact	06/09/2022	1	WC	12071118001	KP	Peshawar	Shad Muhammad
Impact	07/09/2022	1	WC	12072332008	KP	Charsadda	3077-R
Impact	07/09/2022	1	WC	12073113016	KP	Nowshera	Muhammad Tahir Shah
Impact	06/05/2023	1	WC	12051212017	KP	Malakand	Mogha 3593/R
Impact	06/05/2023	1	WC	12051212026	KP	Malakand	Mogha 1148/R
Impact	06/05/2023	1	WC	12051212029	KP	Malakand	Mogha 25461/ R
Impact	05/06/2023	2	WC	12021412063	KP	Dera Ismail Khan	2900-R
Impact	05/06/2023	2	WC	12021412082	KP	Dera Ismail Khan	Allah Dad Tw
Impact	06/06/2023	2	WC	12021412085	KP	Dera Ismail Khan	Malik Khurshid Tw
Impact	06/06/2023	2	WC	12021412086	KP	Dera Ismail Khan	Malik Habibullah Tw
Impact	06/06/2023	1	WC	12051116001	KP	Malakand	Asmatullah
Impact	06/06/2023	1	WC	12051212006	KP	Malakand	32650-L
Impact	06/06/2023	1	WC	12051212012	KP	Malakand	10181-L
Impact	07/06/2023	2	WC	12021412087	KP	Dera Ismail Khan	Ghulam Sadiq
Impact	07/06/2023	2	WC	12021412089	KP	Dera Ismail Khan	Muhammad Akram Tw Wc
Impact	07/06/2023	1	WC	12056216021	KP	Swat	Akbar shah
Impact	08/06/2023	2	WC	12021412090	KP	Dera Ismail Khan	Ghulam Rabani
Impact	08/06/2023	2	WC	12021412091	KP	Dera Ismail Khan	Nazeer Ahmad
Impact	08/06/2023	2	WC	12021412093	KP	Dera Ismail Khan	Muhammad Sher Tw Wc
Impact	08/06/2023	1	WC	12056416024	KP	Swat	Asad Ali
Impact	09/06/2023	1	WC	12056416019	KP	Swat	Muhammad ishaq
Impact	09/06/2023	1	WC	12056416026	KP	Swat	Qadar Gul
Impact	12/06/2023	2	WC	12021312012	KP	Dera Ismail Khan	Akhtar Ullah
Impact	12/06/2023	2	WC	12021312013	KP	Dera Ismail Khan	Muhammad Ayaz
Impact	12/06/2023	2	WC	12021312014	KP	Dera Ismail Khan	Muhammad Haris
Impact	12/06/2023	3	WC	12031116013	KP	Abbottabad	Abid Gul
Impact	12/06/2023	1	WC	12056516030	KP	Swat	Sadam Hussain
Impact	12/06/2023	1	WC	12056516060	KP	Swat	Abdullah
Impact	12/06/2023	1	WC	12056516071	KP	Swat	Bahader zeb
Impact	13/06/2023	2	WC	12021512026	KP	Dera Ismail Khan	3143-R
Impact	13/06/2023	2	WC	12021512110	KP	Dera Ismail Khan	Sardar Malik Liaqat
Impact	13/06/2023	2	WC	12021512112	KP	Dera Ismail Khan	Muhammad Tw Wc

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
Impact	13/06/2023	2	WC	12021512117	KP	Dera Ismail Khan	Sona Tw Wc
Impact	13/06/2023	1	WC	12056616010	KP	Swat	Fawad Ullah
Impact	13/06/2023	1	WC	12056616013	KP	Swat	Khurshid Ali
Impact	13/06/2023	1	WC	12056716071	KP	Swat	Wahid zada
Impact	14/06/2023	2	WC	12021512121	KP	Dera Ismail Khan	Muhammad Aftab Tw Wc
Impact	14/06/2023	2	WC	12021512123	KP	Dera Ismail Khan	Zameer Hussain Tw Wc
Impact	14/06/2023	2	WC	12021512135	KP	Dera Ismail Khan	Umar farooq
Impact	14/06/2023	2	WC	12021512137	KP	Dera Ismail Khan	Qayum nawaz Tw Wc
Impact	14/06/2023	2	WC	12021513005	KP	Dera Ismail Khan	Hayat Ullah
Impact	14/06/2023	3	WC	12036216017	KP	Mansehra	Batangi Timbri pipe WC
Impact	14/06/2023	3	WC	12036216018	KP	Mansehra	Kamad Bela Pipe WC
Impact	14/06/2023	3	WC	12036236001	KP	Mansehra	Perwaiz Khan
Impact	15/06/2023	2	WC	12021112042	KP	Dera Ismail Khan	3500-L
Impact	15/06/2023	2	WC	12021112047	KP	Dera Ismail Khan	3800-L
Impact	15/06/2023	2	WC	12021112079	KP	Dera Ismail Khan	17600-R
Impact	15/06/2023	3	WC	12036216020	KP	Mansehra	Uddi Kassi Pipe WC
Impact	15/06/2023	3	WC	12036216022	KP	Mansehra	Timbri kattha Pipe WC
Impact	15/06/2023	1	WC	12054216001	KP	Lower Dir	171+500-L
Impact	16/06/2023	2	WC	12021112089	KP	Dera Ismail Khan	Ijaz U Din Tw Wc
Impact	16/06/2023	2	WC	12021112095	KP	Dera Ismail Khan	Ghulam Abbas shah
Impact	16/06/2023	3	WC	12036212009	KP	Mansehra	CPEC Bajnah Chowk WC
Impact	16/06/2023	3	WC	12036216015	KP	Mansehra	Naror Trangri Pipe WC
Impact	19/06/2023	2	WC	12021112096	KP	Dera Ismail Khan	Sabir Hussain Tw Wc
Impact	19/06/2023	2	WC	12021112101	KP	Dera Ismail Khan	Shahnawaz Tw Wc
Impact	19/06/2023	2	WC	12021112103	KP	Dera Ismail Khan	Sana Ullah Tw wc
Impact	19/06/2023	3	WC	12036116010	KP	Mansehra	Hashir Pipe WC
Impact	19/06/2023	3	WC	12036212006	KP	Mansehra	51886-R
Impact	19/06/2023	1	WC	12071116001	KP	Peshawar	Abdul Majeed
Impact	19/06/2023	1	WC	12071132004	KP	Peshawar	70000-L-Hazar Khwani
Impact	19/06/2023	1	WC	12071132008	KP	Peshawar	159000-L Wgc
Impact	19/06/2023	1	WC	12071212001	KP	Peshawar	Kashif Twc
Impact	20/06/2023	2	WC	12021112098	KP	Dera Ismail Khan	Ali Muhammad
Impact	20/06/2023	2	WC	12021112099	KP	Dera Ismail Khan	Saif ur rehman

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
Impact	20/06/2023	3	WC	12036116005	KP	Mansehra	Moeen
Impact	20/06/2023	3	WC	12036316017	KP	Mansehra	Kashtra PWC
Impact	20/06/2023	1	WC	12071116003	KP	Peshawar	Rashid Zaman
Impact	20/06/2023	1	WC	12071116011	KP	Peshawar	Adil zaman
Impact	20/06/2023	1	WC	12071216001	KP	Peshawar	Iqbal Hussain
Impact	21/06/2023	2	WC	12021112088	KP	Dera Ismail Khan	Gul Khan Tw
Impact	21/06/2023	2	WC	12021112090	KP	Dera Ismail Khan	Shah jahan Tw Wc
Impact	21/06/2023	2	WC	12021113002	KP	Dera Ismail Khan	Abdul Razaq
Impact	21/06/2023	3	WC	12036116016	KP	Mansehra	Batrairh Pipe WC
Impact	21/06/2023	3	WC	12036116020	KP	Mansehra	AKHTAR Zaib Khan Pipe WC
Impact	21/06/2023	1	WC	12071112042	KP	Peshawar	Ikram Ullah
Impact	21/06/2023	1	WC	12071112045	KP	Peshawar	Tahir khan
Impact	21/06/2023	1	WC	12071116012	KP	Peshawar	Zahir ul Amin
Impact	22/06/2023	2	WC	12021112097	KP	Dera Ismail Khan	Ikram ullah
Impact	22/06/2023	2	WC	12021112108	KP	Dera Ismail Khan	Abass Tw Wc
Impact	22/06/2023	3	WC	12036116023	KP	Mansehra	Gulzar Ahmed Khan WC
Impact	23/06/2023	2	WC	12012312002	KP	Lakki Marwat	Vial Shahjee Wala
Impact	23/06/2023	2	WC	12012312004	KP	Lakki Marwat	Vail Nimzar
Impact	23/06/2023	3	WC	12033113027	KP	Haripur	Muhammad Zaman
Impact	23/06/2023	1	WC	12071112047	KP	Peshawar	Wajid khan
Impact	26/06/2023	2	WC	12011112001	KP	Bannu	Faisal Khan-2
Impact	26/06/2023	2	WC	12011112002	KP	Bannu	Faisal Khan-1
Impact	26/06/2023	3	WC	12033313002	KP	Haripur	Ghulam Asghar
Impact	26/06/2023	3	WC	12033316001	KP	Haripur	Shabir Muhammad Abbasi
Impact	26/06/2023	1	WC	12071412001	KP	Peshawar	Amjad Ali
Impact	26/06/2023	1	WC	12073313005	KP	Nowshera	Waseem Muhammad
Impact	27/06/2023	2	WC	12011112003	KP	Bannu	Noor Naib Khan
Impact	27/06/2023	2	WC	12011118002	KP	Bannu	Adhami Degan
Impact	27/06/2023	1	WC	12073312003	KP	Nowshera	3900-R
Impact	27/06/2023	1	WC	12073312004	KP	Nowshera	21000-L
Impact	27/06/2023	1	WC	12073313004	KP	Nowshera	Tayab khan
Impact	16/08/2022	1	WC	16110116002	ICT	ICT	Misbahuddin Chohan
Impact	16/08/2022	1	WC	16110116020	ICT	ICT	Sher Bahadar Zada Khan

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Impact	17/08/2022	1	WC	16110116008	ICT	ICT	Mohamad Hakeem Khan
Impact	18/08/2022	1	WC	16110116019	ICT	ICT	Omer Ali Khan
Impact	19/08/2022	1	WC	16110116012	ICT	ICT	Syed Zubair Hussain Shah
BLS & Impact	16/01/2023	1	WC	14032118023	GB	Gilgit	Main Nallah To Mustafa House
BLS & Impact	16/01/2023	2	WC	14032118024	GB	Gilgit	Main Channel To Qari Javaid House
BLS & Impact	16/01/2023	3	WC	14032315006	GB	Gilgit	Nallah To Junaid Land Pari
BLS & Impact	16/01/2023	3	WC	14032317003	GB	Gilgit	Kkh To Ahmed Sayed Land Drot
BLS & Impact	17/01/2023	3	WC	14031218030	GB	Ghizer	Gotch Gan Hamuchal Paen Shairqila
BLS & Impact	17/01/2023	2	WC	14034216001	GB	Hunza	Tazeem Channel Gojal
BLS & Impact	17/01/2023	2	WC	14034915006	GB	Hunza	Maliki Dallah Head To Altit Fort Area
BLS & Impact	17/01/2023	1	WC	14035118017	GB	Nagar	Base On Hotel To Yar Mohallah Gulmet
BLS & Impact	17/01/2023	1	WC	14035118018	GB	Nagar	Imam Bargah To Mir Muhammad Land Sharyar
BLS & Impact	18/01/2023	1	WC	14021118019	GB	Astore	Trashing Main Channel
BLS & Impact	18/01/2023	1	WC	14021118020	GB	Astore	Hayat Land
BLS & Impact	18/01/2023	2	WC	14031218031	GB	Ghizer	Intake To Khari Hatoon Near Hasis Bridge
BLS & Impact	18/01/2023	3	WC	14031918020	GB	Ghizer	Akber House To Fida Land Morkha Yaseen
BLS & Impact	18/01/2023	3	WC	14033118012	GB	Ghizer	Qurban House Sadique Land Handarp Polo Ground
BLS & Impact	19/01/2023	1	WC	14022115001	GB	Diamer	Wc From Misar Haji House To Wadan House
BLS & Impact	19/01/2023	1	WC	14022115002	GB	Diamer	Wc From Nallah To Latti Bala
BLS & Impact	19/01/2023	2	WC	14023215002	GB	Diamer	Wc From Nallah To Ghali Dar
BLS & Impact	19/01/2023	3	WC	14023218004	GB	Diamer	Wc At Shiniki Het Goner Farm
BLS & Impact	20/01/2023	2	WC	14014115044	GB	Skardu	Mir Pi Shahma Sermic
BLS & Impact	20/01/2023	3	WC	14014915002	GB	Skardu	Gond Bainsa Bilamik
BLS & Impact	20/01/2023	1	WC	14023218005	GB	Diamer	Niat Nallah To Malkush
BLS & Impact	20/01/2023	1	WC	14023218009	GB	Diamer	Nallah To Khai Botogha
BLS & Impact	23/01/2023	3	WC	14014918005	GB	Skardu	Center Bilamik Roundu From Main Channel To Jingkha
BLS & Impact	23/01/2023	3	WC	14014918006	GB	Skardu	Nang Harka Harpo Bala Roundu From Main Channel To Link Road
BLS & Impact	23/01/2023	2	WC	14014918007	GB	Skardu	Choliskam From Nallah To Road Talu Roundu
BLS & Impact	23/01/2023	2	WC	14014918008	GB	Skardu	Goma Biala Thowar Roundu
BLS & Impact	23/01/2023	1	WC	14014918009	GB	Skardu	Nasaso Yulbu Roundu
BLS & Impact	24/01/2023	2	WC	14013115001	GB	Shigar	Gorey Hrka Ned From Main Cool To Ali Ahmad Plot
BLS & Impact	24/01/2023	3	WC	14013115002	GB	Shigar	Sarfa Khor Dassu Shiger
BLS & Impact	24/01/2023	1	WC	14014915003	GB	Kharmang	Gamba Drong Paari From Community Hall Muhallah Mishyari

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
BLS & Impact	24/01/2023	1	WC	14014915004	GB	Kharmang	Chenger Susithang From Main Channel To Link Road
BLS & Impact	25/01/2023	2	WC	14011115004	GB	Ghanche	Gharis Khaplu
BLS & Impact	25/01/2023	2	WC	14011115005	GB	Ghanche	Bargani Ranthaq To Sargaib Rzing Khaplu
BLS & Impact	25/01/2023	1	WC	14013118001	GB	Shigar	Banpi Yarkhor Tissar From Nallah To Haider Plot
BLS & Impact	25/01/2023	1	WC	14013118002	GB	Shigar	Masjid Hrka Kayo Gulabpur From Main Nallah To Main Channel
BLS & Impact	26/01/2023	1	WC	14011115007	GB	Ghanche	Muldumar Rzing To Albowa Bagh Khaplu
BLS & Impact	26/01/2023	1	WC	14011115008	GB	Ghanche	Oli Harkha Thasqong
BLS & Impact	26/01/2023	2	WC	14011115009	GB	Ghanche	Ayub Land To Kacho Land Barah
BLS & Impact	26/01/2023	2	WC	14011115010	GB	Ghanche	Xoksi Harka Barah Pain
Impact	18/07/2022	2	WC	13072115003	Balochistan	Killa Saifullah	Mr. Muhammad Gulab
Impact	18/07/2022	2	WC	13072615003	Balochistan	Killa Saifullah	Malik Muhammad Youns
Impact	19/07/2022	3	WC	13041319001	Balochistan	Quetta	Abdul Malik
Impact	19/07/2022	2	WC	13041319002	Balochistan	Quetta	Abdul Raziq
Impact	19/07/2022	1	WC	13041319003	Balochistan	Quetta	Zubair Ahmed
Impact	20/07/2022	1	WC	13015111001	Balochistan	Mastung	Haji Mohammed alim
Impact	20/07/2022	2	WC	13015115014	Balochistan	Mastung	Abdul Ghani
Impact	21/07/2022	2	WC	13081113004	Balochistan	Loralai	Abdul Ghafar
Impact	21/07/2022	1	WC	13081113024	Balochistan	Loralai	Abdul Raziq
Impact	23/07/2022	1	WC	13035111002	Balochistan	Sohbatpur	Khalil Ahmad
Impact	23/07/2022	1	WC	13035211012	Balochistan	Sohbatpur	Shahzad Ali
Impact	24/07/2022	1	WC	13031311011	Balochistan	Nasirabad	Muhammad Safar
Impact	24/07/2022	2	WC	13035211010	Balochistan	Sohbatpur	Muhammad Bakhsh
Impact	22/08/2022	2	WC	13042119001	Balochistan	Killa Abdullah	Abdul Ghanni
Impact	23/08/2022	2	WC	13042119002	Balochistan	Killa Abdullah	Sana Ullah
Impact	10/10/2022	3	WC	13011415001	Balochistan	Kalat	Abdul Hameed
Impact	10/10/2022	2	WC	13011419001	Balochistan	Kalat	Abdul Qayoum
Impact	10/10/2022	1	WC	13011419002	Balochistan	Kalat	Mir Mohammad
Impact	11/10/2022	2	WC	13042115001	Balochistan	Killa Abdullah	Haji Rehmatullah
Impact	12/10/2022	2	WC	13053115002	Balochistan	Nushki	Shahnawaz Khan
Impact	12/10/2022	3	WC	13053119001	Balochistan	Nushki	Ameer Hamza
Impact	13/10/2022	2	WC	13073115001	Balochistan	Sherani	Mohammad Shah
Impact	13/10/2022	1	WC	13073115004	Balochistan	Sherani	Rahmat Shah
Impact	14/10/2022	3	WC	13061115011	Balochistan	Sibi	Mohammad Saud Bugti

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
Impact	19/10/2022	2	WC	13071113014	Balochistan	Zhab	Fareed Khan
Impact	19/10/2022	3	WC	13071119001	Balochistan	Zhab	Abdul Wahid
Impact	20/10/2022	3	WC	13065213028	Balochistan	Ziarat	Haji Raz Muhammad
Impact	07/11/2022	2	WC	13043625003	Balochistan	Pishin	Muhammad Anwar
Impact	08/11/2022	2	WC	13043615001	Balochistan	Pishin	Muhammad Munawar
Impact	11/11/2022	2	WC	13031311010	Balochistan	Nasirabad	Muhammad Munawar
Impact	25/11/2022	3	WC	13013215003	Balochistan	Khuzdar	Saeed Ahmed
Impact	25/11/2022	1	WC	13013929003	Balochistan	Khuzdar	Arshad Aziz
Impact	01/12/2022	2	WC	13032211036	Balochistan	Jaffarabad	Khair Muhammad & others
Impact	01/12/2022	2	WC	13032211054	Balochistan	Jaffarabad	Asadullah
Impact	02/12/2022	2	WC	13032211025	Balochistan	Jaffarabad	Muhib Ali Kandrani & others
Impact	05/12/2022	1	WC	13033911018	Balochistan	Jhal Magsi	Syed Safder Ali Shah
Impact	07/12/2022	2	WC	13034215005	Balochistan	Kachi	Rabia Maqbool
Impact	07/12/2022	1	WC	13034215014	Balochistan	Kachi	Syed Khurshed Shah
Impact	14/12/2022	1	WC	13013419003	Balochistan	Khuzdar	Noor Din
Impact	19/12/2022	1	WC	13015113033	Balochistan	Mastung	Nasrullah
Impact	19/12/2022	2	WC	13015113037	Balochistan	Mastung	Rehmat Khan
Impact	19/12/2022	3	WC	13015113055	Balochistan	Mastung	Abdul khliq
Impact	20/12/2022	1	WC	13084119001	Balochistan	Musakhail	Abdul Rahim
Impact	21/12/2022	3	WC	13031319001	Balochistan	Nasirabad	Asadullah
Impact	21/12/2022	1	WC	13031919004	Balochistan	Nasirabad	Abdul Quddus
Impact	21/12/2022	2	WC	13031919005	Balochistan	Nasirabad	Abdul Rehman
Impact	22/12/2022	1	WC	13031311007	Balochistan	Nasirabad	Khawand Bakhsh
Impact	22/12/2022	2	WC	13031919035	Balochistan	Nasirabad	Mureed
Impact	22/12/2022	3	WC	13031919038	Balochistan	Nasirabad	Naveed Ahmed
Impact	23/12/2022	2	WC	13031919041	Balochistan	Nasirabad	Sanaullah
Impact	26/12/2022	1	WC	13035119001	Balochistan	Sohbatpur	Abdul Bari
Impact	26/12/2022	2	WC	13035219001	Balochistan	Sohbatpur	Ghulam Haider
Impact	16/01/2023	1	WC	13035119002	Balochistan	Sohbatpur	Shafiq Ahmed
Impact	17/02/2023	3	WC	13035111008	Balochistan	Sohbatpur	Ms Tayaba
Impact	17/02/2023	2	WC	13035211021	Balochistan	Sohbatpur	Muhammad Ali
Impact	17/02/2023	2	WC	13035211024	Balochistan	Sohbatpur	Raheem Dad
Impact	17/02/2023	1	WC	13035211033	Balochistan	Sohbatpur	Shafi Muhammad

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
Impact	20/02/2023	3	WC	13072615001	Balochistan	Killa Saifullah	Muhammad Younus
Impact	20/02/2023	2	WC	13072615002	Balochistan	Killa Saifullah	Mulla Sadiq
Impact	22/02/2023	2	WC	13082119002	Balochistan	Loralai	Ahsan Ullah
Impact	14/03/2023	2	WC	13065113020	Balochistan	Ziarat	Naik Muhammad
Impact	08/08/2022	1	WC	15011125011	AJK	Muzaffarabad	Mera Dopatta
Impact	08/09/2022	1	WC	15011118006	AJK	Muzaffarabad	Dhani Mai Sahiba
Impact	15/11/2022	1	WC	15033112046	AJK	Mirpur	Lehri-6
Impact	15/11/2022	1	WC	15033112064	AJK	Mirpur	New Sunian
Impact	05/06/2023	1	WC	15031212030	AJK	Bhimber	Nawan Chak
Impact	06/06/2023	1	WC	15031112015	AJK	Bhimber	Dhandar Kalan
Impact	06/06/2023	1	WC	15031312003	AJK	Bhimber	Dara Bandi
Impact	07/06/2023	1	WC	15031212001	AJK	Bhimber	Khokhran Gujran-2
Impact	07/06/2023	1	WC	15031212005	AJK	Bhimber	Khokhran Gujran-1
Impact	12/06/2023	1	WC	15012125001	AJK	Jhelum	Goharabad
Impact	12/06/2023	1	WC	15012125003	AJK	Jhelum	Kukarwara
Impact	13/06/2023	1	WC	15012318001	AJK	Jhelum	Chatkari
Impact	14/06/2023	1	WC	15031112007	AJK	Bhimber	Machia-2
Impact	14/06/2023	1	WC	15031112023	AJK	Bhimber	Kachi 2
Impact	15/06/2023	1	WC	15031112035	AJK	Bhimber	Sokasan
Impact	15/06/2023	1	WC	15031212006	AJK	Bhimber	Malkay-4
Impact	20/06/2023	1	WC	15032415006	AJK	Kotli	Jandrot Kathar Zaireen
Impact	20/06/2023	1	WC	15032415008	AJK	Kotli	Maira Nakyal

Annex. H: Impact Field Survey Visits by Field Teams During Reporting Period – Water Storage Tanks

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
Impact	19/07/2022	1	WST	21103314025	Punjab	Chakwal	Muhammad Khan:Taj Muhammad
Impact	23/07/2022	3	WST	21093513001	Punjab	Muzaffargarh	Muhammad Tanveer Rasheed:Sheikh M. Rashid
Impact	23/07/2022	3	WST	21093513002	Punjab	Muzaffargarh	Waheed Ahmad Bhatti:Ahmad Bakhsh Bhatti
Impact	25/07/2022	1	WST	21103314038	Punjab	Chakwal	Rizwan Haider:Malik Muhammad Afzal
Impact	13/09/2022	2	WST	21051412001	Punjab	Gujranwala	Rana Jaleel:Naiq Muhammad
Impact	14/09/2022	2	WST	21061112001	Punjab	Gujrat	Shamim Haider:Sultan Ali
Impact	15/09/2022	1	WST	21012112001	Punjab	Kasur	M.Asghar Ali
Impact	16/09/2022	1	WST	21012213001	Punjab	Kasur	Arif Masood Butt
Impact	21/12/2022	2	WST	21091214002	Punjab	Dera Ghazi Khan	Muhammad Zareef:Muhammad Ibrahim
Impact	22/12/2022	2	WST	21091212004	Punjab	Dera Ghazi Khan	M. Babar Ashraf:Muhammad Ashraf
Impact	23/12/2022	2	WST	21091214001	Punjab	Dera Ghazi Khan	Muhammad Sharif:Muhammad Ibrahim
Impact	16/01/2023	3	WST	21041412003	Punjab	Bhakkar	Mian Rehmat Ullah:Ghulam Mustafa
Impact	16/01/2023	3	WST	21042312001	Punjab	Bhakkar	Ahmad Nawaz:Jindu
Impact	16/01/2023	2	WST	21043314006	Punjab	Khushab	Syed Jaffar Abbas:Syed Farukh Abbas
Impact	17/01/2023	3	WST	21042112001	Punjab	Bhakkar	Muhammad Shahid:Mushtaq Ahmad
Impact	17/01/2023	3	WST	21042412008	Punjab	Bhakkar	Muhammad Riaz:Muhammad Rafiq
Impact	18/01/2023	3	WST	21042412009	Punjab	Bhakkar	Nazeer Ahmad:Muhammad Sardar
Impact	05/06/2023	2	WST	21062113001	Punjab	Hafizabad	Ghanzfar Ghayas:Muhammad Mohsin
Impact	06/06/2023	2	WST	21062213005	Punjab	Hafizabad	Nusrat Tahira:W/O Fyaz Ahmad
Impact	07/06/2023	2	WST	21062213003	Punjab	Hafizabad	Muhammad Afzal:Bashir Ahmad
Impact	07/06/2023	3	WST	21073112002	Punjab	Lodhran	Muhammad Arif:Khoshi Muhamad
Impact	08/06/2023	1	WST	21032112003	Punjab	Okara	Rao Muhammad Farooq Khan:Abdul Majeed Khan
Impact	22/06/2023	3	WST	21081312004	Punjab	Bahawalpur	Muhammad Parvaiz:Ch. Muhammad Yousuf
Impact	22/06/2023	1	WST	21104212008	Punjab	Jhelum	Muhammad Abbas:Jahan Muhammad
Impact	23/06/2023	1	WST	21031114002	Punjab	Sahiwal	Younis Gill:Khursheed Alam Gill
Impact	31/08/2022	3	WST	22033132002	KP	Haripur	Nazakat Khan
Impact	06/09/2022	2	WST	22012132021	KP	Lakki Marwat	Ghulam Muhammad
Impact	06/09/2022	1	WST	22072332003	KP	Charsadda	Noshad
Impact	06/09/2022	1	WST	22073232001	KP	Nowshera	Rahaj Gul
Impact	08/09/2022	3	WST	22033232011	KP	Haripur	Abid Khan
Impact	13/09/2022	2	WST	22022132009	KP	Tank	Mehtab Ahmad
Impact	05/06/2023	2	WST	22021432045	KP	Dera Ismail Khan	Ameer Asfand Yar

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
Impact	05/06/2023	2	WST	22021432046	KP	Dera Ismail Khan	Abdul Majeed Tw Wst
Impact	06/06/2023	2	WST	22021432001	KP	Dera Ismail Khan	Mumtaz
Impact	06/06/2023	2	WST	22021432049	KP	Dera Ismail Khan	Fatima Begam
Impact	07/06/2023	2	WST	22021432044	KP	Dera Ismail Khan	Saif Ullah Tw Wst
Impact	07/06/2023	2	WST	22021432047	KP	Dera Ismail Khan	Shafqat Ullah Tw Wst
Impact	07/06/2023	1	WST	22051332003	KP	Malakand	Shakeel Ahmed
Impact	07/06/2023	1	WST	22056234017	KP	Swat	Abdur Raziq
Impact	07/06/2023	1	WST	22056244002	KP	Swat	Nasar
Impact	08/06/2023	1	WST	22056234001	KP	Swat	Gul Roze
Impact	08/06/2023	1	WST	22056234022	KP	Swat	Taj Mohammad
Impact	09/06/2023	2	WST	22021132001	KP	Dera Ismail Khan	Abdul Qayum
Impact	09/06/2023	2	WST	22021332004	KP	Dera Ismail Khan	Umar Ameen Tw Wst
Impact	09/06/2023	2	WST	22021342001	KP	Dera Ismail Khan	Javed Anwar Khan
Impact	12/06/2023	3	WST	22031147001	KP	Abbottabad	Hanif Awan
Impact	13/06/2023	3	WST	22032147001	KP	Battagram	Shamalai
Impact	13/06/2023	1	WST	22055134001	KP	Shangla	Fazal Khuda
Impact	13/06/2023	1	WST	22055134004	KP	Shangla	Intikhab Alam Wst
Impact	15/06/2023	3	WST	22036235006	KP	Mansehra	Arshad Mehmood Wst
Impact	15/06/2023	1	WST	22054132008	KP	Lower Dir	Sajjad Khan
Impact	16/06/2023	1	WST	22057144002	KP	Upper Dir	Tangai Bala
Impact	19/06/2023	3	WST	22036234001	KP	Mansehra	Saqib Sherazi
Impact	20/06/2023	3	WST	22036335002	KP	Mansehra	Kashtra Wst
Impact	20/06/2023	1	WST	22071132028	KP	Peshawar	Aqeel Afzal
Impact	21/06/2023	1	WST	22071132039	KP	Peshawar	Zahir Ul Amin
Impact	22/06/2023	2	WST	22021132018	KP	Dera Ismail Khan	Ikram Ullah Tw Wst
Impact	22/06/2023	3	WST	22036135009	KP	Mansehra	Saleem Khan Thakra Wst
Impact	22/06/2023	1	WST	22071132005	KP	Peshawar	Aziz Khan
Impact	22/06/2023	1	WST	22071132006	KP	Peshawar	Muhammad Uzair
Impact	22/06/2023	1	WST	22071132009	KP	Peshawar	Muhammad Usman
Impact	22/06/2023	1	WST	22071132040	KP	Peshawar	Ibrahim Khan
Impact	23/06/2023	3	WST	22033132012	KP	Haripur	Muhammad Zaman Khan
Impact	23/06/2023	1	WST	22071132041	KP	Peshawar	Afaq Ahmad
Impact	26/06/2023	2	WST	22011132001	KP	Bannu	Ihsanu Llah Khan

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
Impact	26/06/2023	1	WST	22073332004	KP	Nowshera	Malook Khan
BLS & Impact	16/01/2023	1	WST	24032159014	GB	Gilgit	Dr Qalab Ali Land Jutal Dass
BLS & Impact	16/01/2023	2	WST	24032159015	GB	Gilgit	Dawood Land
BLS & Impact	17/01/2023	3	WST	24031159005	GB	Ghizer	Imran Land
BLS & Impact	17/01/2023	2	WST	24034959007	GB	Hunza	Tajir Land Bull Dass
BLS & Impact	17/01/2023	1	WST	24035159002	GB	Nagar	Community Land Duikar
BLS & Impact	18/01/2023	1	WST	24021959010	GB	Astore	Wali Shah Land .Mouza:Het
BLS & Impact	18/01/2023	2	WST	24033159008	GB	Ghizer	Mirza Khan Land
BLS & Impact	19/01/2023	2	WST	24023259009	GB	Diamer	Abdur-Rehman Land
BLS & Impact	19/01/2023	3	WST	24023259010	GB	Diamer	Sher Alam Land
BLS & Impact	20/01/2023	2	WST	24014159012	GB	Skardu	Murtaza Abad Qumra
BLS & Impact	20/01/2023	3	WST	24014159014	GB	Skardu	Khosho Chumik Skardu
BLS & Impact	24/01/2023	2	WST	24013159013	GB	Shigar	Ghazi Abad Wazir Pur Shiger
BLS & Impact	24/01/2023	3	WST	24013159014	GB	Shigar	Tharanpa Alchori Shiger
BLS & Impact	24/01/2023	1	WST	24014959008	GB	Kharmang	Gangani Kharmang
Impact	18/07/2022	2	WST	23072152021	Balochistan	Killa Saifullah	Mr. Abdul Rasheed
Impact	19/07/2022	2	WST	23041552006	Balochistan	Quetta	Ahmed Yar
Impact	19/07/2022	3	WST	23041752012	Balochistan	Quetta	Abdul Majeed
Impact	19/07/2022	1	WST	23041752021	Balochistan	Quetta	Waseem Mullah Khan
Impact	20/07/2022	3	WST	23015139018	Balochistan	Mastung	Rehmat Khan
Impact	20/07/2022	2	WST	23015259003	Balochistan	Mastung	Abdul Samad
Impact	20/07/2022	1	WST	23015259017	Balochistan	Mastung	Muhammad Salman
Impact	21/07/2022	2	WST	23081152012	Balochistan	Loralai	Allauddin
Impact	21/07/2022	1	WST	23081152022	Balochistan	Loralai	Mazakar Habib
Impact	25/07/2022	1	WST	23031352003	Balochistan	Nasirabad	Abdul Rehman
Impact	22/08/2022	2	WST	23042439001	Balochistan	Killa Abdullah	Abdul Khaliq
Impact	24/08/2022	3	WST	23011452010	Balochistan	Kalat	Ghulam Mustafa
Impact	10/10/2022	1	WST	23011139006	Balochistan	Kalat	Muhammad Saleem
Impact	10/10/2022	3	WST	23011152008	Balochistan	Kalat	Ghulam Raza
Impact	10/10/2022	2	WST	23011439007	Balochistan	Kalat	Muhammad Yousaf
Impact	11/10/2022	2	WST	23042959002	Balochistan	Killa Abdullah	Abdul Qahar
Impact	12/10/2022	3	WST	23053152016	Balochistan	Nushki	Habib Ur Rehman
Impact	13/10/2022	2	WST	23073939001	Balochistan	Sherani	Malak Mir Adam

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
Impact	13/10/2022	1	WST	23073939002	Balochistan	Sherani	Rahmat Ullah
Impact	14/10/2022	3	WST	23061139005	Balochistan	Sibi	Muhammad Saud Bugti
Impact	17/10/2022	3	WST	23061139002	Balochistan	Sibi	Haroon Ur Rasheed Luni
Impact	18/10/2022	3	WST	23061139004	Balochistan	Sibi	Mazar Khan
Impact	19/10/2022	3	WST	23071139004	Balochistan	Zhob	Haji Akram
Impact	20/10/2022	3	WST	23065139001	Balochistan	Ziarat	Malik Abdul Ghaffar
Impact	07/11/2022	3	WST	23043152012	Balochistan	Pishin	Ainudeen
Impact	07/11/2022	3	WST	23043959001	Balochistan	Pishin	Haji Abdul Manan
Impact	08/11/2022	3	WST	23043152044	Balochistan	Pishin	Mohammad Yaseen
Impact	08/11/2022	3	WST	23043152051	Balochistan	Pishin	Qari Mohammad Younas
Impact	10/11/2022	1	WST	23031252002	Balochistan	Nasirabad	Javid Ahmed
Impact	10/11/2022	2	WST	23031352001	Balochistan	Nasirabad	Fareed Khan
Impact	11/11/2022	2	WST	23031352002	Balochistan	Nasirabad	Muhammad Din
Impact	25/11/2022	1	WST	23013259001	Balochistan	Khuzdar	Abdul Haq
Impact	25/11/2022	3	WST	23013454014	Balochistan	Khuzdar	Abdul Razzaq
Impact	05/12/2022	1	WST	23033939007	Balochistan	Jhal Magsi	Syed Safdar Ali Shah
Impact	05/12/2022	2	WST	23033959006	Balochistan	Jhal Magsi	Ghulam Hussain
Impact	06/12/2022	1	WST	23033959007	Balochistan	Jhal Magsi	Haji Abdul Rasheed
Impact	06/12/2022	2	WST	23033959010	Balochistan	Jhal Magsi	Jhan Zaib
Impact	07/12/2022	2	WST	23034239005	Balochistan	Kachi	Muhammad Mushtaq
Impact	07/12/2022	1	WST	23034252021	Balochistan	Kachi	Kareem Baksh
Impact	08/12/2022	2	WST	23034252002	Balochistan	Kachi	Abdul Nabi
Impact	08/12/2022	1	WST	23034252022	Balochistan	Kachi	Khuda Baksh
Impact	09/12/2022	2	WST	23034252029	Balochistan	Kachi	Mir Mohammad Baksh
Impact	09/12/2022	1	WST	23034252043	Balochistan	Kachi	Muneer Ahmed
Impact	12/12/2022	2	WST	23034252032	Balochistan	Kachi	Mohim Khan
Impact	12/12/2022	1	WST	23034252042	Balochistan	Kachi	Mukthyar Ahmeed
Impact	13/12/2022	2	WST	23034252048	Balochistan	Kachi	Rasheed Zaman
Impact	14/12/2022	1	WST	23013939017	Balochistan	Khuzdar	Mujeeb Ur Rehman
Impact	14/12/2022	3	WST	23013954001	Balochistan	Khuzdar	Ali Akber
Impact	15/12/2022	2	WST	23013154001	Balochistan	Khuzdar	Fareed Ahmed
Impact	15/12/2022	1	WST	23013454003	Balochistan	Khuzdar	Habib Ur Rehman
Impact	15/12/2022	3	WST	23013459001	Balochistan	Khuzdar	Gul Mohammad

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
Impact	20/12/2022	1	WST	23084152005	Balochistan	Musakhel	Dawod Khan
Impact	02/01/2023	1	WST	23043152035	Balochistan	Pishin	Malak Ahmed Khan
Impact	05/01/2023	3	WST	23041652001	Balochistan	Quetta	Muhammad Anwar
Impact	05/01/2023	2	WST	23041752004	Balochistan	Quetta	Haji Amanullah
Impact	05/01/2023	3	WST	23041752007	Balochistan	Quetta	Abdul Hameed
Impact	06/01/2023	1	WST	23041152010	Balochistan	Quetta	Abdul Khaliq
Impact	09/01/2023	1	WST	23041152008	Balochistan	Quetta	Zafar ullah
Impact	09/01/2023	2	WST	23041752019	Balochistan	Quetta	Saifulah
Impact	25/01/2023	1	WST	23031752002	Balochistan	Nasirabad	Sanaullah
Impact	02/02/2023	3	WST	23043152007	Balochistan	Pishin	Abdul Qadeer
Impact	03/02/2023	3	WST	23043852001	Balochistan	Pishin	Ameenullah
Impact	06/02/2023	3	WST	23043152037	Balochistan	Pishin	Malak Habib Ur Rehman
Impact	06/02/2023	2	WST	23043739002	Balochistan	Pishin	Haji Alam Khan
Impact	13/02/2023	1	WST	23034239004	Balochistan	Kachi	Imran Khan
Impact	15/02/2023	3	WST	23015252007	Balochistan	Mastung	Shaib Khan
Impact	15/02/2023	1	WST	23015352001	Balochistan	Mastung	Abdul Baqi
Impact	15/02/2023	2	WST	23015959038	Balochistan	Mastung	Qudrat Ullah
Impact	16/02/2023	2	WST	23015252001	Balochistan	Mastung	Abdul Samad
Impact	16/02/2023	1	WST	23015259013	Balochistan	Mastung	Mohammad Alim
Impact	20/02/2023	2	WST	23072152004	Balochistan	Killa Saifullah	Abdul Wahab
Impact	20/02/2023	3	WST	23072152052	Balochistan	Killa Saifullah	Shamsu-Ur Rehman
Impact	20/02/2023	1	WST	23072652034	Balochistan	Killa Saifullah	Muhammad Rahim
Impact	22/02/2023	2	WST	23081152006	Balochistan	Loralai	Abdul Jalil
Impact	22/02/2023	3	WST	23081152007	Balochistan	Loralai	Abdul Mateen
Impact	22/02/2023	1	WST	23081152026	Balochistan	Loralai	Noorullah
Impact	23/02/2023	2	WST	23081152004	Balochistan	Loralai	Abdul Hadi
Impact	23/02/2023	3	WST	23081152066	Balochistan	Loralai	A Ghafar
Impact	27/02/2023	1	WST	23031251001	Balochistan	Nasirabad	Allah Dina
Impact	14/03/2023	2	WST	23065152006	Balochistan	Ziarat	Naseebullah
Impact	15/03/2023	2	WST	23065152001	Balochistan	Ziarat	Arifullah
Impact	15/03/2023	3	WST	23065152007	Balochistan	Ziarat	Noor Muhammad
Impact	27/04/2023	3	WST	23041859002	Balochistan	Quetta	Muhammad Haroon
Impact	07/06/2023	1	WST	23041652006	Balochistan	Quetta	Abdul Quddus

Survey Type	Survey Date	Team.#	Intervention	Scheme ID	Zone	District	Scheme Name
Impact	08/06/2023	1	WST	23041552001	Balochistan	Quetta	Faqir Muhammad
Impact	05/06/2023	1	WST	25031127003	AJK	Bhimber	Machora
Impact	06/06/2023	1	WST	25031127001	AJK	Bhimber	Pithorani-2
Impact	08/06/2023	1	WST	25012116009	AJK	Jhelum	Doodhpura Lower
Impact	08/06/2023	1	WST	25012116013	AJK	Jhelum	Doodhpura
Impact	09/06/2023	1	WST	25012118002	AJK	Jhelum	Kakarwara
Impact	09/06/2023	1	WST	25012126001	AJK	Jhelum	Lower Gujar Bandi
Impact	19/06/2023	1	WST	25032416003	AJK	Kotli	Kugyali Khandar
Impact	19/06/2023	1	WST	25032625002	AJK	Kotli	Tarala 2
Impact	21/06/2023	1	WST	25011116046	AJK	Muzaffarabad	Pajgran
Impact	21/06/2023	1	WST	25011124023	AJK	Muzaffarabad	Baglota Dana
Impact	22/06/2023	1	WST	25011116019	AJK	Muzaffarabad	Potha Kacheli
Impact	22/06/2023	1	WST	25011124034	AJK	Muzaffarabad	Poothi Farooqabad
Impact	23/06/2023	1	WST	25011116055	AJK	Muzaffarabad	Saibthaan

Annex. I: PLL Field Survey Visits by Field Teams till Reporting Period

Survey Type	Survey Date	Team.#	Intervention	Zone	District	Scheme Name
Impact	04/07/2022	2	PLL	Punjab	Rahim Yar Khan	Muhammad Aslam Sohail:Ghulam Mustafa Sohail
Impact	19/01/2023	2	PLL	Punjab	Nankana Sahib	Abdul Sattar:Sardar Muhammad
Impact	19/01/2023	2	PLL	Punjab	Nankana Sahib	Aitazaz Hussain Bhatti:Nazir Ahmad
Impact	19/01/2023	2	PLL	Punjab	Nankana Sahib	M.imran:M.Sharif
Impact	19/01/2023	2	PLL	Punjab	Nankana Sahib	Muhammad Asim:Muhammad Saleem
Impact	19/01/2023	2	PLL	Punjab	Nankana Sahib	Zafar Iqbal:Nazeer Ahmad
Impact	20/01/2023	1	PLL	Punjab	Faisalabad	Arif Hussain Gill:Faqeer Hussain Gill
Impact	20/01/2023	1	PLL	Punjab	Faisalabad	Jamat Ali:Nawab Din
Impact	20/01/2023	1	PLL	Punjab	Faisalabad	Mahe wal:Noor Muhammad
Impact	20/01/2023	1	PLL	Punjab	Faisalabad	Muhammad Khan:Muhammad Akram
Impact	20/01/2023	2	PLL	Punjab	Sheikhupura	Asad ullah:Denar Ahmad
Impact	20/01/2023	2	PLL	Punjab	Sheikhupura	Ghulam Muhi-ud-DIN:Hassan Din
Impact	20/01/2023	2	PLL	Punjab	Sheikhupura	M.Akhtar:Niymat Ali
Impact	20/01/2023	2	PLL	Punjab	Sheikhupura	Mubarak Ali:Ghulam nabi
Impact	20/01/2023	2	PLL	Punjab	Sheikhupura	Muhammad Akram:Khushi Muhammad
Impact	20/01/2023	2	PLL	Punjab	Sheikhupura	Sajjad Ahmad:Nazir Ahmad
Impact	20/01/2023	2	PLL	Punjab	Sheikhupura	Shafqat Ali:M Shafee
Impact	20/01/2023	3	PLL	Punjab	Sialkot	Amjid Mehmood:Muhammad Sharif
Impact	20/01/2023	3	PLL	Punjab	Sialkot	Muhammad Naveed:Muhammad Mushtaq
Impact	20/01/2023	3	PLL	Punjab	Sialkot	Muhammad Zakaullah:Sana Ullah
Impact	20/01/2023	3	PLL	Punjab	Sialkot	Munir Ahmad:Barkat Ali
Impact	20/01/2023	3	PLL	Punjab	Sialkot	Wahid Ali:Muhammad Ismail
Impact	21/01/2023	1	PLL	Punjab	Faisalabad	Abdul Rauf:Fatah Muhammad
Impact	21/01/2023	1	PLL	Punjab	Faisalabad	Allah Ditta:Akbar Ali
Impact	21/01/2023	1	PLL	Punjab	Faisalabad	Arbab Saif Ullah:Saif Ullah
Impact	21/01/2023	1	PLL	Punjab	Faisalabad	Bashir Ahmed:Sadar Din
Impact	21/01/2023	1	PLL	Punjab	Faisalabad	Muhammad Anwar:Sardar Muhammad
Impact	21/01/2023	1	PLL	Punjab	Faisalabad	Muhammad Zubair:Muhammad Ali
Impact	21/01/2023	1	PLL	Punjab	Faisalabad	Touqeer Abbas:Abbas Ali
Impact	21/01/2023	3	PLL	Punjab	Gujranwala	Akhtar Hussain:Fateh Muhammad
Impact	21/01/2023	3	PLL	Punjab	Gujranwala	Fayaz Ahmad:Muhammad Khan
Impact	21/01/2023	3	PLL	Punjab	Gujranwala	Muhammad Asif:Muhammad Khan

Survey Type	Survey Date	Team.#	Intervention	Zone	District	Scheme Name
Impact	21/01/2023	3	PLL	Punjab	Gujranwala	Muhammad Farooq:Muhammad Hussain
Impact	21/01/2023	3	PLL	Punjab	Gujranwala	Nadeem Raza:Muhammad Khan
Impact	21/01/2023	3	PLL	Punjab	Gujranwala	Rafaqat Ali:Saif Ali
Impact	21/01/2023	3	PLL	Punjab	Gujranwala	Tariq Hussain:Talib Hussain
Impact	21/01/2023	2	PLL	Punjab	Kasur	Abid Hussain:Fareed Din
Impact	21/01/2023	2	PLL	Punjab	Kasur	Ali Asgar:Muhammad Din
Impact	21/01/2023	2	PLL	Punjab	Kasur	Bashir Ahmad:M.Shafi
Impact	21/01/2023	2	PLL	Punjab	Kasur	Ch.Muhabbat Ali:Rehmat Ali
Impact	22/01/2023	3	PLL	Punjab	Gujrat	Aftab Ahmad:Muhammad Naeem Ullah
Impact	22/01/2023	3	PLL	Punjab	Gujrat	Faisal Nawaz:Muhammad Nawaz
Impact	22/01/2023	3	PLL	Punjab	Gujrat	Naeem Sohail:Nazeer Ahmad
Impact	22/01/2023	3	PLL	Punjab	Gujrat	Nazar Hussain:Muhammad Din
Impact	22/01/2023	3	PLL	Punjab	Gujrat	Orangzaib:Muhammad Razaq
Impact	22/01/2023	3	PLL	Punjab	Gujrat	Qayyum Sarwar Qamar:Muhammad Sarwar
Impact	23/01/2023	3	PLL	Punjab	Hafizabad	Allah Rakha:Muhammad Iqbal
Impact	23/01/2023	3	PLL	Punjab	Hafizabad	Mumtaz Ahmad:Abdullah
Impact	23/01/2023	3	PLL	Punjab	Hafizabad	Samia Baig:Iftikhar Ahmad (Husband)
Impact	23/01/2023	3	PLL	Punjab	Hafizabad	Shahid Iqbal:munir Ahmad
Impact	23/01/2023	3	PLL	Punjab	Hafizabad	Usman Afzal Chatta:Muhammad Afzal Chatta
Impact	23/01/2023	1	PLL	Punjab	Jhang	Ajmal Nadeem:Shamir khan
Impact	23/01/2023	1	PLL	Punjab	Jhang	Bilal Hussain:Muhammad Ashraf
Impact	23/01/2023	1	PLL	Punjab	Jhang	Hanif Tahir:Muhammad Ramzan
Impact	23/01/2023	1	PLL	Punjab	Jhang	Shamir Khan:Muhabat Ali
Impact	23/01/2023	1	PLL	Punjab	Jhang	Umar Hayat:YASEEN
Impact	23/01/2023	2	PLL	Punjab	Khanewal	Amjad Hussain:Muhammad waryar
Impact	23/01/2023	2	PLL	Punjab	Khanewal	Asghar Ali:Muhammad Anwar
Impact	23/01/2023	2	PLL	Punjab	Khanewal	M.Abid khan:Khalil Ahmad
Impact	23/01/2023	2	PLL	Punjab	Khanewal	M.Ibrahim:M.Ismail
Impact	23/01/2023	2	PLL	Punjab	Khanewal	Muhammad Sharif:Muhammad Iqbal
Impact	23/01/2023	2	PLL	Punjab	Khanewal	Syed Asad Ali:Syed Shaheen Haider
Impact	23/01/2023	2	PLL	Punjab	Khanewal	Zia Ullah khan:Haq nawaz khan
Impact	24/01/2023	2	PLL	Punjab	Multan	Ali Ahmad:Bashir Ahmad
Impact	24/01/2023	2	PLL	Punjab	Multan	Ghulam Rasool:Nawab Din

Survey Type	Survey Date	Team.#	Intervention	Zone	District	Scheme Name
Impact	24/01/2023	2	PLL	Punjab	Multan	Khuda Bukhsh:Muhammad Bukhsh
Impact	24/01/2023	2	PLL	Punjab	Multan	M.Arif:M.Suleman
Impact	24/01/2023	2	PLL	Punjab	Multan	Muhammad Aslam:Allah Dad
Impact	24/01/2023	2	PLL	Punjab	Multan	Muhammad Iqbal:Bashir Ahmad
Impact	24/01/2023	2	PLL	Punjab	Multan	RIAZ HUSSAIN:M.Sharif Bajwa
Impact	24/01/2023	2	PLL	Punjab	Multan	Shoukat Hussain:Ameer Bukhsh
Impact	24/01/2023	3	PLL	Punjab	Sargodha	Ahmad Hussain:Noor Hussain
Impact	24/01/2023	3	PLL	Punjab	Sargodha	Allah Dad:Muhammad Khan
Impact	24/01/2023	3	PLL	Punjab	Sargodha	Muhammad Safdar:Shah Muhammad
Impact	24/01/2023	3	PLL	Punjab	Sargodha	Muhammad Sher:Ahmad Khan
Impact	24/01/2023	3	PLL	Punjab	Sargodha	Nouman Mumtaz:Muhammad Mumtaz
Impact	24/01/2023	3	PLL	Punjab	Sargodha	Saleh Muhammad:Allah Yar
Impact	24/01/2023	1	PLL	Punjab	Toba Tek Singh	Akram ul Haq:Muhammad Boota
Impact	24/01/2023	1	PLL	Punjab	Toba Tek Singh	Chawa:Ghulam Muhammad
Impact	24/01/2023	1	PLL	Punjab	Toba Tek Singh	Ghulam Murtaza:Akbar Ali
Impact	24/01/2023	1	PLL	Punjab	Toba Tek Singh	Ijaz Ahmed:Muhammad Sharif
Impact	24/01/2023	1	PLL	Punjab	Toba Tek Singh	Muhammad Ali:Abdul Hayee khan
Impact	24/01/2023	1	PLL	Punjab	Toba Tek Singh	Muhammad Jameel:Rukan Din
Impact	24/01/2023	1	PLL	Punjab	Toba Tek Singh	Umar Hayat:Noor Muhammad
Impact	24/01/2023	1	PLL	Punjab	Toba Tek Singh	Zafar Iqbal:Muhammad Aslam
Impact	25/01/2023	3	PLL	Punjab	Khushab	Ghulam Akbar:Atta Muhammad
Impact	25/01/2023	3	PLL	Punjab	Khushab	Khushi Muhammad:Atta Muhammad
Impact	25/01/2023	3	PLL	Punjab	Khushab	Mansab Dar:Ahmad Khan
Impact	25/01/2023	3	PLL	Punjab	Khushab	Muhammad Ramzan:Muhammad Khan
Impact	25/01/2023	3	PLL	Punjab	Khushab	Muhammad Safdar:Shah Muhammad
Impact	25/01/2023	3	PLL	Punjab	Khushab	Muhammad Shameer:Muhammad Ameer
Impact	25/01/2023	3	PLL	Punjab	Khushab	Sher Khan:Ahmad Khan
Impact	25/01/2023	3	PLL	Punjab	Khushab	Umer Daraz:Muhammad Raza
Impact	25/01/2023	2	PLL	Punjab	Lodhran	Abdul Malik:Azam Ali
Impact	25/01/2023	2	PLL	Punjab	Lodhran	Haq Nawaz:Peera datta
Impact	25/01/2023	2	PLL	Punjab	Lodhran	Haq Nawaz:Peera datta
Impact	25/01/2023	2	PLL	Punjab	Lodhran	Hazoor Ahmad:Pearinditta
Impact	25/01/2023	2	PLL	Punjab	Lodhran	Javeed Iqbal:M Sharif

Survey Type	Survey Date	Team.#	Intervention	Zone	District	Scheme Name
Impact	25/01/2023	2	PLL	Punjab	Lodhran	Mushtaq Hussain:Kamal pur jatyal
Impact	25/01/2023	2	PLL	Punjab	Lodhran	Talha Naeem:M.Afzal
Impact	25/01/2023	2	PLL	Punjab	Lodhran	Umar Farooq Khan:Shaib yar
Impact	25/01/2023	1	PLL	Punjab	Vehari	Ashraf Ali:Ali Muhammad
Impact	25/01/2023	1	PLL	Punjab	Vehari	Karam Elahi:Haji Allah Baksh
Impact	25/01/2023	1	PLL	Punjab	Vehari	Master Basir Ahmed:Atta Muhammad
Impact	25/01/2023	1	PLL	Punjab	Vehari	Muhammad Banyameen:Muhammad Sarwar
Impact	25/01/2023	1	PLL	Punjab	Vehari	Muhammad Nasrullah:Ghulam Nabi
Impact	25/01/2023	1	PLL	Punjab	Vehari	Muhammad Saleem:Rehmat Ullah
Impact	25/01/2023	1	PLL	Punjab	Vehari	Muhammad Yaqoob:Sajwara
Impact	25/01/2023	1	PLL	Punjab	Vehari	Sajjad Mehmood:Bashir Ahmed
Impact	26/01/2023	1	PLL	Punjab	Sahiwal	Abdul Farooq:Peer Muhammad
Impact	26/01/2023	1	PLL	Punjab	Sahiwal	Ali Rizwan khan:Zahoor Khan
Impact	26/01/2023	1	PLL	Punjab	Sahiwal	Muhammad Ibrar:M.Adrees
Impact	26/01/2023	1	PLL	Punjab	Sahiwal	Muhammad Nawaz:Noor Muhammd
Impact	26/01/2023	1	PLL	Punjab	Sahiwal	Muhammad Ramzan:Karam Ali
Impact	26/01/2023	1	PLL	Punjab	Sahiwal	Nazar Muhammad:Muhammad Nawaz Khan
Impact	26/01/2023	1	PLL	Punjab	Sahiwal	Noor Muhammad:Muhammad Ameer
Impact	26/01/2023	1	PLL	Punjab	Sahiwal	Usman ali:Arshad Akhter
Impact	27/01/2023	1	PLL	Punjab	Okara	Haji Muhammad Ashraf:Fazal Karim
Impact	27/01/2023	1	PLL	Punjab	Okara	Khan Muhammad:Wali Muhammad
Impact	27/01/2023	1	PLL	Punjab	Okara	Maqbool Ahmed:Sardar Muhammad Zafar
Impact	27/01/2023	1	PLL	Punjab	Okara	Muhammad Akram:Muhammad Ali
Impact	27/01/2023	1	PLL	Punjab	Okara	Muhammad Ramzan:Taj ud Din
Impact	27/01/2023	1	PLL	Punjab	Okara	Muhammad Younas Bhatti:Salamat Ali Bhatti
Impact	27/01/2023	1	PLL	Punjab	Okara	Sabir:Abdul Ghani
Impact	20/01/2023	1	PLL	KP	Dera Ismail Khan	Junaid Ahmad Khan:Jamshaid Ahmad khan
Impact	20/01/2023	1	PLL	KP	Dera Ismail Khan	Malik Muhammad Bhawal:Muhammad Afzal
Impact	20/01/2023	1	PLL	KP	Dera Ismail Khan	Muhammad Arif:Malik khuda Baksh
Impact	20/01/2023	1	PLL	KP	Dera Ismail Khan	Muhammad Arshad:Muhammad Yaqoob
Impact	21/01/2023	1	PLL	KP	Dera Ismail Khan	Muhammad Ramzan:Muhammad Hashim
Impact	23/01/2023	1	PLL	Balochistan	Jafarabad	Ejaz Ali:Mohammed Azeem
Impact	23/01/2023	1	PLL	Balochistan	Jafarabad	Javeed Ali:Mahabbat Khan

Survey Type	Survey Date	Team.#	Intervention	Zone	District	Scheme Name
Impact	23/01/2023	1	PLL	Balochistan	Jafarabad	Mohammed Kaleem:Haji Ameer Bux
Impact	23/01/2023	1	PLL	Balochistan	Jafarabad	Sher Khan:Ghulam Haider
Impact	24/01/2023	1	PLL	Balochistan	Sohbatpur	Ghulam Sabir:Abdul Rehman
Impact	24/01/2023	1	PLL	Balochistan	Sohbatpur	Mohammed Hassan:Noor Mohammed
Impact	24/01/2023	1	PLL	Balochistan	Sohbatpur	Mohiudin:Sabir

Annex. J : Pictorial Gallery of M&E Field Visit During 2022-23 In the Project Areas



















Annex. K : Methodology of Measurement of Water Flow

Methodology of Measurement of Water Flow:

Pygmy Current Meter- Working principle:

- Current meter Measures Velocity (V)
- Direct / By counting revolutions per unit of time
- Area of Segments (A)
- $Q = A \times V$

Segmental Area:

- Measure the top width of the water/channel
- Measure the bottom width of the channel
- Divide width in segments (each segment area = 10% of total area)
- Record the width of each segment
- Mark the distance from the initial point for each segment
- Take the average depth of water in each segment
- Measure velocities at 0.2 & 0.8 if depth >60 cm
- Measure velocities in the center of each segment
- Find average velocity by counting pings/table $V = 0.123 N + 0.007N$ = Revolutions/Second
- Calculate Q of each segment by $Q = A \times V$
- Add Q of all segments for total discharge

Specifications:

- Model 1205
- Flow Velocity – feet per second (meter per second)
- Minimum .25fps (.075 mps)
- Maximum 3 fps (.914 mps)
- Weight – Pounds (kilograms) .25 lb (.11kg)
- Suspension Means - Wading Rod

Field Observations:

Following are the field observations of the measurement of Water Flow by using a pygmy current meter at Water Course No 45136 /L.

Sr. No	Design Discharge (Cusec)	Actual Discharge Measured (Cusec)
1	3	2.60
2	3	2.55

Average Discharge = 2.57 Cusses

Following were the Field teams members who participated in the measurement of water flow at water course no 45136/L

Name	Designation
Awais Jahangeer	Field Team In charge /ME&IE Expert
Muhammad Zubair	Field Team In charge /ME&IE Expert

Annex. L: On Farm Water Management Training Institute

The Canal irrigation system in Pakistan is one of the oldest and of unique nature. The water flow from the rivers to the canal/minors and through water channels reaches the farm for irrigating the field.

The water availability from the river has been estimated at 142-million-acre feet per annum. Against this quantum of available water, only 49 million acre-feet are available at farm gets for irrigating the crops. The remaining water is lost in one way or the other during water flow. In this regard the ON Farm Water Management (OFWM) training institute in Lahore was established during 1980, for training purposes to improve land and water resources productivity.

The institute has passed through certain phases but its activities spin around the capacity building in enhancing the productivity per drop of water.

Training at the institute is offered to local and international participants. Various types of trainings given at the institutes, include:

- Non-development training for OFWM officers as basic pre-requirement for promotion from one grade to a higher grade. Courses are also offered for lower-grade persons. The staff members of other wings of the agriculture department also get benefits from such trainings.
- Duration of such courses varies from 2 weeks to 6 weeks depending upon the nature of the course.
- In-service training is also held for capacity building purposes from in survive OFWM and others departments from time to time.
- Training for development Projects - Such trainings are comprising short courses like awareness - seminars, field training, farmer days, Refresher courses/ program, orchard management /water conservation in barani area etc.
- Such facilities are extended to various stakeholders even the consultants. Training courses for operators of laser land levellers under NPIWC-II are part of such fatalities.
- Research activities relevant to water resources were also the part of this training institute. Since July 2022, such activities have been put under Director farms.
- As a pioneer institutes of training for improving the water saving, the role of OFWM training institute, is of vital importance, not only in Punjab but also for the entire Pakistan.
- Provision of Laser Land Leveling
 - a. Uneven farming fields are one of the main causes of water losses in field applications. According to some estimates such losses of water are more than 20% of the water available at the farm.
 - b. The leveled piece of lands besides providing water saving; also increase the land productivity and hence increase the crop yield and reduce the labor.
 - c. The various means of leveling off the field in the Punjab are:
 - i. Bullock Driven leveler
 - ii. Tractor Driven leveler
 - iii. Tractor Scraper
 - iv. Laser Land Leveler
 - d. As compared with other leveling technologies, the laser land leveling technology has been observed as highly beneficial. It saves irrigation water, irrigating time and efficiency of other agriculture inputs/practices. So, the productivity of land increases. The use of laser technology in leveling the field was introduced in the Punjab in 1985 through the On Farm Water Management program.

- e. The Provision of laser land leveler is one of the important components of National Program of improvement of water courses (NPIWC-II), for improving the productivity of irrigation water. In the Punjab province 9500 Laser land leveler units are to be provided to the farmers on subsidized rates.
- The OFWM institute in one way or other serving the user/ owner/ services provider of this intervention, in its proper use.
- Under the current National Program of improvement of water courses NPIWC-II, the OFWM training institute is also providing one-week training course. The training is being given to the service providers [Owners] of laser land leveler or its nominee/ Driver at Lahore, Training Institute Lahore. During the training, the trainees are provided free meal and accommodation facilities at the institute. The training comprises of on campus training (for 2 days) and field training for about 3 days. About 20-25 participants are enrolled at a time from different districts of the Punjab.
- The number of operators who have received trainings under NPIWC-II from the institute varies year to year as shown in the Table-2.

Numbers of Laser Land Leveler Operators Received training under NPIWC-2

Sr. No.	Financial Year	Nos.
1	2019-20	711
2	2020-21	1911
3	2021-22	2679
Total		5299

The participants of the training were from all districts of the Punjab province except Rawalpindi division where this intervention was not a component of the project in this area.

Annex. M: Grievance Redressal Mechanism (GRM)

Introduction

The grievance redressal mechanism (GRM) relates to the National Program for Improvement of Watercourse (NPIWC – II). The main responsibilities of the project lie 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 individual beneficiaries and stakeholders have a platform to voice their concerns seek a redressal and receive appropriate solutions within the scope of OFWM activities in the project.

Various interventions of the project

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

Establishment/ reactivation of a WUA is a prerequisite for the improvement of a watercourse intervention. Social issues/ complaints/ grievances/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.

Grievance issues/disputes

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

- Pre – Implementation stages – election/selection of members
- During an Implementation of the intervention particularly improvement of watercourses for Punjab.
- 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, reactivated prior it is a community-based approach for the task. The disputes/ grievances are expected to issue may arise 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 he National Program for Improvement of Watercourse (NPIWC – II). The main responsibilities of the project lie 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.

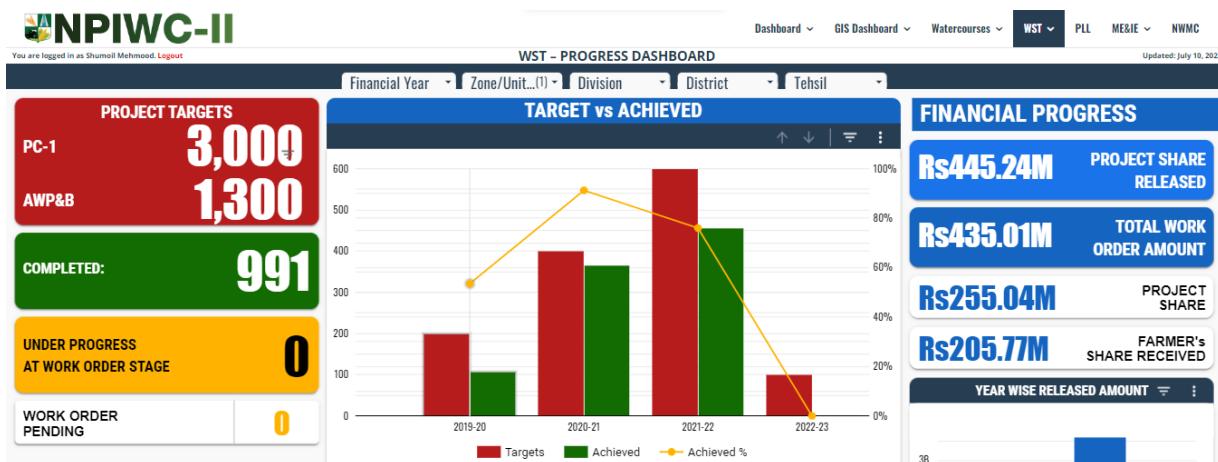
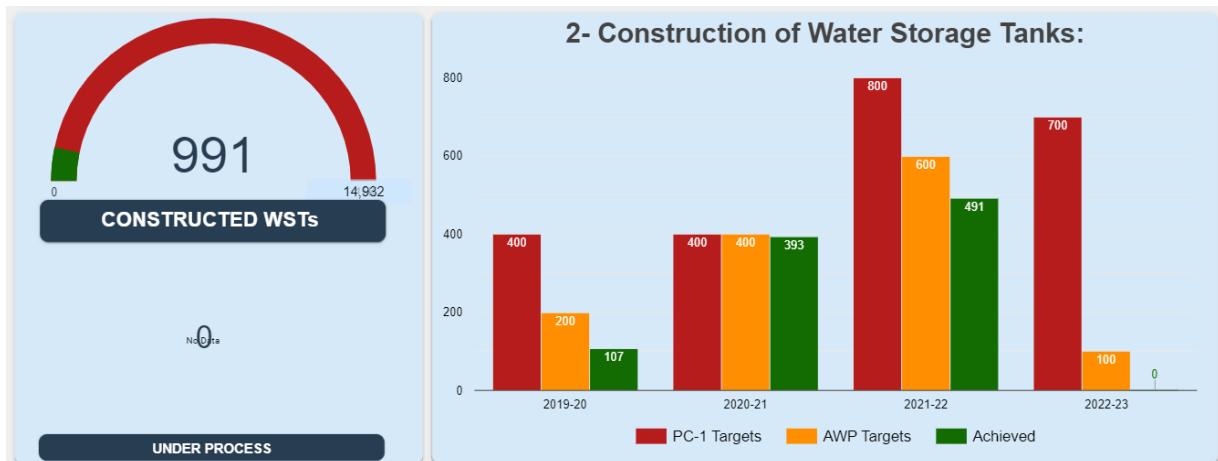
Annex. N: Punjab - Watercourse Data Submission - Summary

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



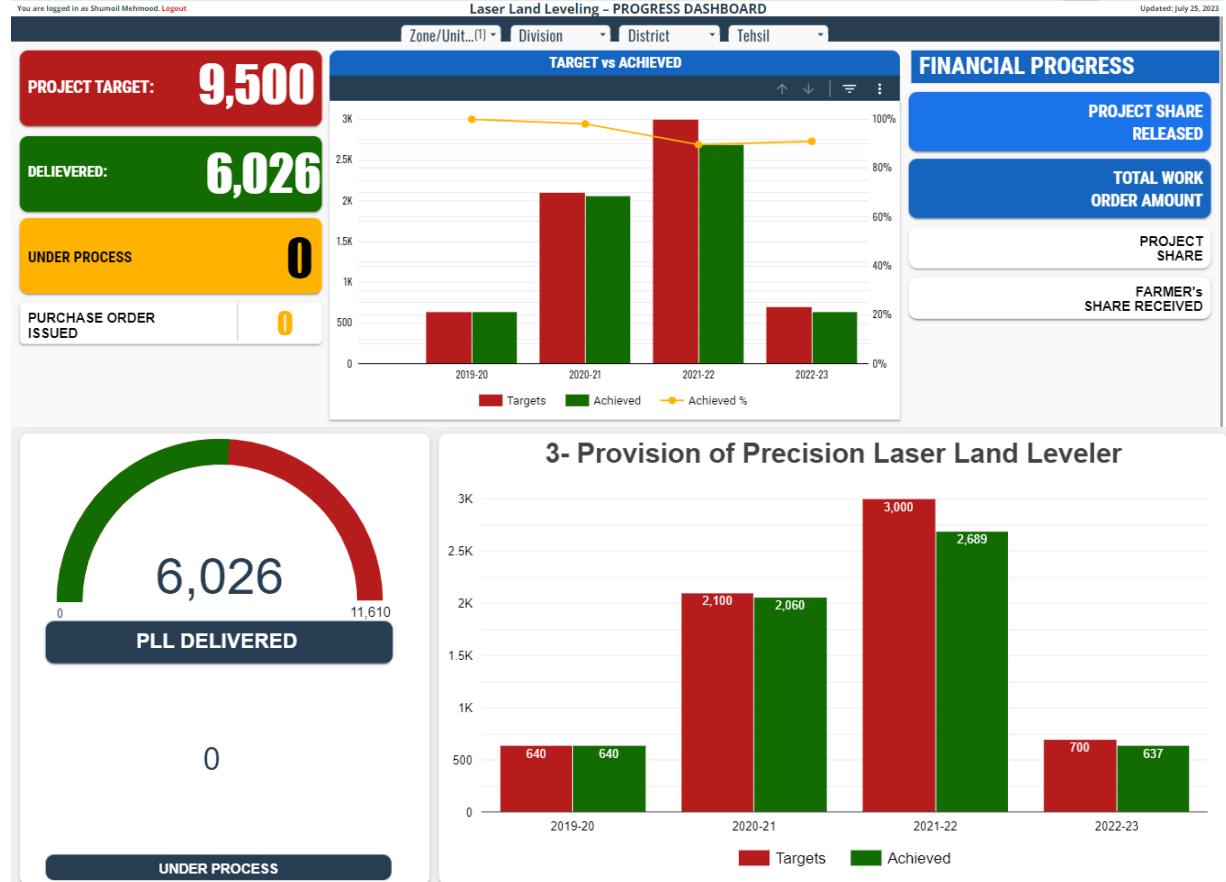
Annex. O: Punjab - WSP Data Submission - Summary

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



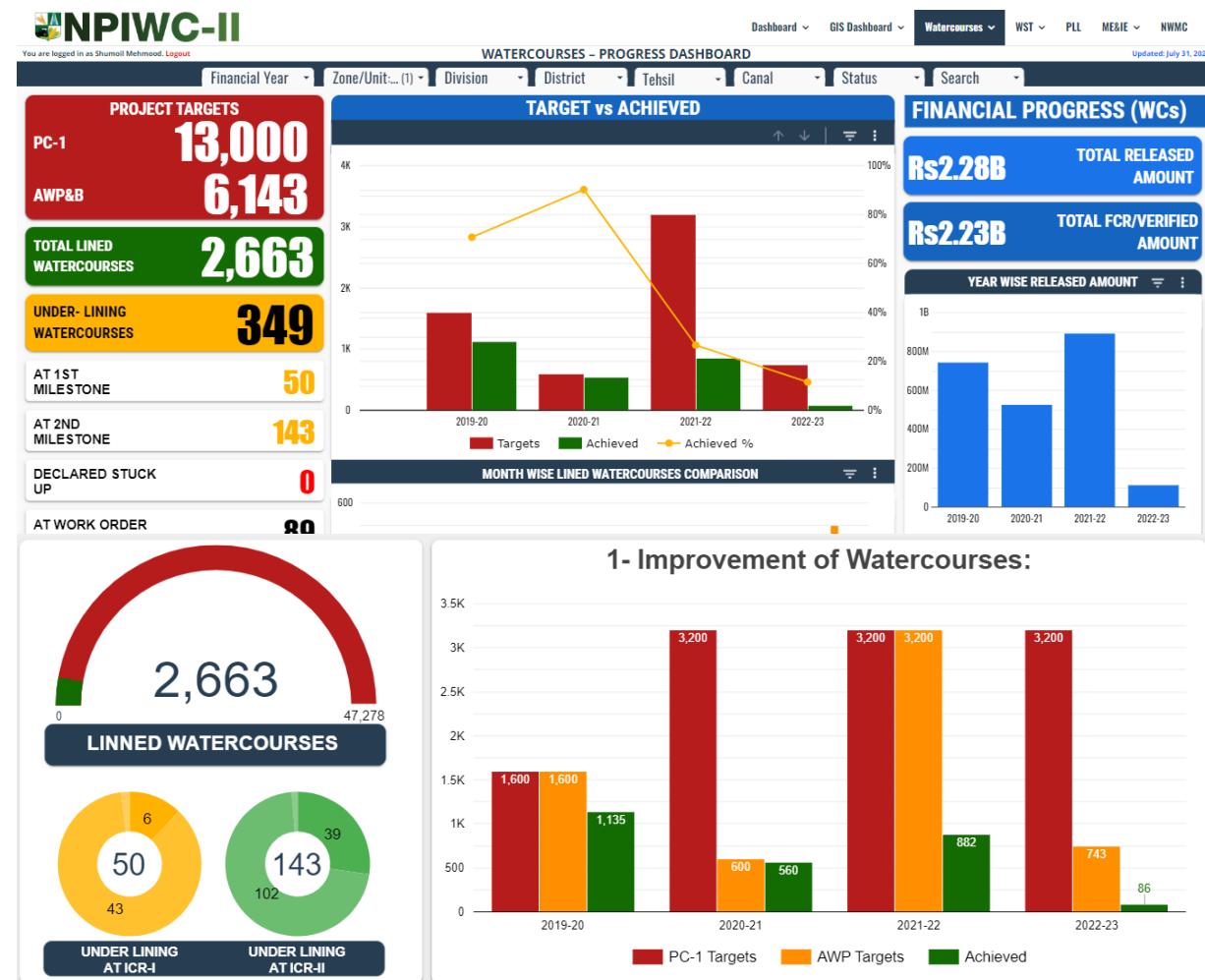
Annex. P: Punjab - PLL Data Submission - Summary

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



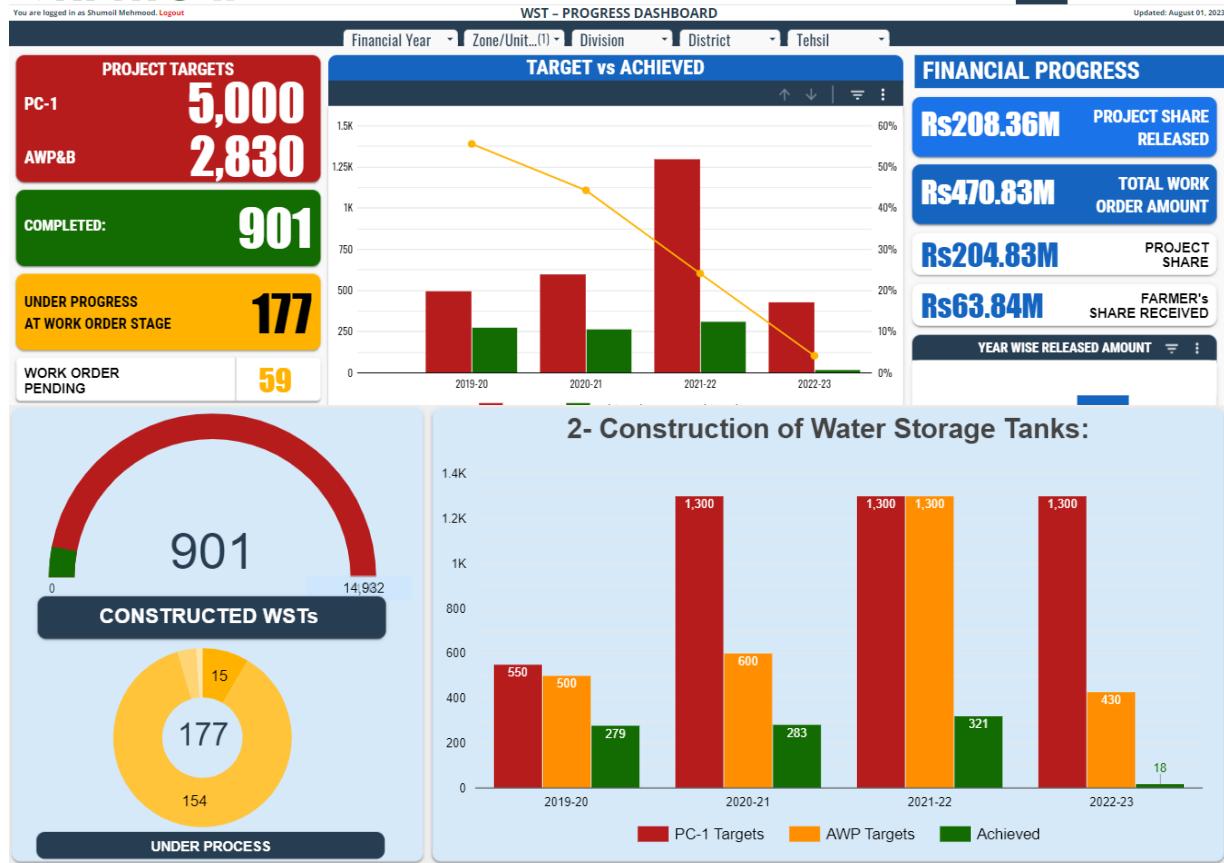
Annex. Q: KP - Watercourse Data Submission - Summary

KP - Watercourse Data Submission - Summary									
Division	District	Completed	Work Order Cancelled	Under Progress			Pending		Overall
				1st Milestone	2nd Milestone	Work Order Issued	TS Pending	Work Order Pending	
Bajaur Agency	Bajaur	51	0	6	3	13	6	0	79
Bajaur Agency Total		51	0	6	3	13	6	0	79
Bannu	Bannu	96	0	0	14	0	0	0	110
Bannu	Lakki Marwat	122	0	0	0	0	0	0	122
Bannu Total		218	0	0	14	0	0	0	232
D.I. Khan	D.I. Khan	508	0	3	0	0	0	0	511
D.I. Khan	Tank	39	0	0	0	0	0	0	39
D.I. Khan Total		547	0	3	0	0	0	0	550
Hazara	Abbottabad	27	0	1	1	0	1	0	30
Hazara	Battagram	39	0	3	0	0	0	0	42
Hazara	Haripur	70	0	0	3	0	0	0	73
Hazara	Lower Kohistan	7	0	0	0	13	1	0	21
Hazara	Mansehra	89	0	0	41	1	2	0	133
Hazara	Torghar	34	2	0	0	1	0	0	37
Hazara	Upper Kohistan	9	0	0	0	0	8	0	17
Hazara	Kolai Pallas	2	0	0	0	0	0	0	2
Hazara Total		277	2	4	45	15	12	0	355
Khyber Agency	Khyber	19	0	0	0	5	2	0	26
Khyber Agency Total		19	0	0	0	5	2	0	26
Kohat	Hangu	44	0	0	0	0	1	0	45
Kohat	Karak	67	0	0	1	0	0	0	68
Kohat	Kohat	92	0	0	0	0	0	0	92
Kohat Total		203	0	0	1	0	1	0	205
Kurram Agency	Kurram	9	0	0	1	0	1	0	11
Kurram Agency Total		9	0	0	1	0	1	0	11
Malakand	Buner	95	0	0	0	0	0	0	95
Malakand	Chitral	90	0	1	1	1	1	0	94
Malakand	Lower Dir	79	0	8	19	29	4	1	140
Malakand	Malakand	91	0	0	4	6	1	0	102
Malakand	Shangla	39	0	0	0	0	0	0	39
Malakand	Swat	170	3	35	57	1	21	0	287
Malakand	Upper Dir	87	0	0	13	0	0	0	100
Malakand Total		651	3	44	94	37	27	1	857
Mardan	Mardan	135	0	1	1	4	0	0	141
Mardan	Swabi	97	0	1	33	0	3	0	134
Mardan Total		232	0	2	34	4	3	0	275
Mohmand Agency	Upper Mohmand	32	0	0	0	0	0	0	32
Lower Mohmand		11	0	0	0	0	0	0	11
Mohmand Agency Total		43	0	0	0	0	0	0	43
Orakzai Agency	Orakzai	1	0	0	0	0	0	0	1
Orakzai Agency Total		1	0	0	0	0	0	0	1
Peshawar	Charsadda	135	1	0	0	15	1	0	152
Peshawar	Nowshera	97	0	0	0	1	2	0	100
Peshawar	Peshawar	67	1	3	3	4	5	1	84
Peshawar Total		299	2	3	3	20	8	1	336
S.W Agency	S.W Agency	31	0	0	0	1	0	0	32
S.W Agency Total		31	0	0	0	1	0	0	32
N.W Agency	N.W Agency	5	0	0	0	0	6	0	11
N.W Agency Total		5	0	0	0	0	6	0	11
Overall		2586	7	62	195	95	66	2	3013



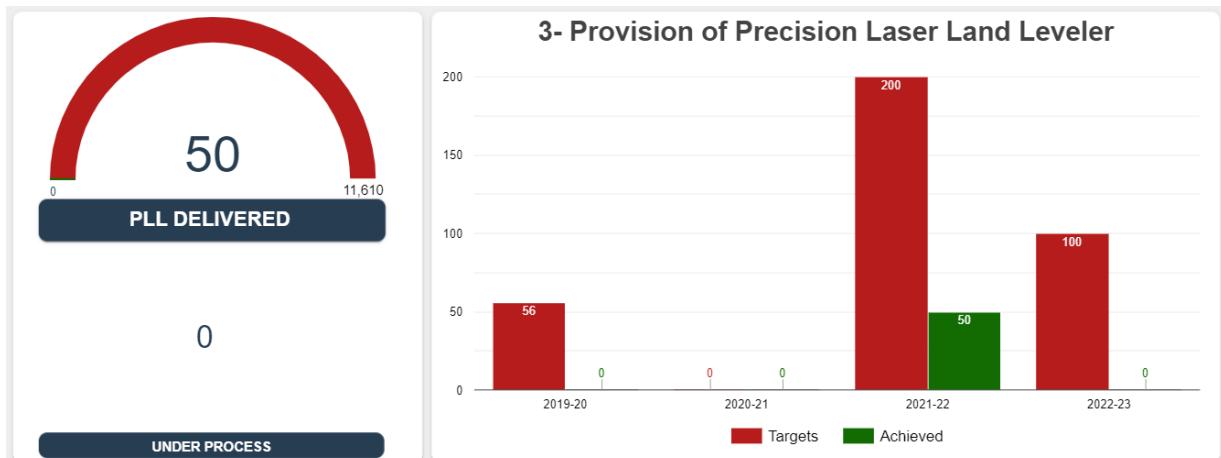
Annex. R: KP - WST Data Submission - Summary

Division	District	Completed	Under Progress			Pending	Overall
			1st Milestone	2nd Milestone	Work Order Issued		
Bajaur Agency	Bajaur	17	0	0	1	3	21
Bajaur Agency Total		17	0	0	1	3	21
Bannu	Bannu	11	0	1	0	1	13
Bannu	Lakki Marwat	35	0	0	0	0	35
Bannu Total		46	0	1	0	1	48
Dera Ismail Khan	Dera Ismail Khan	83	1	1	5	0	90
Dera Ismail Khan	Tank	16	0	0	0	0	16
Dera Ismail Khan Total		99	1	1	5	0	106
Hazara	Abbottabad	18	0	0	0	0	18
Hazara	Battagram	25	0	0	4	0	29
Hazara	Haripur	40	0	0	0	0	40
Hazara	Kolai Pallas	2	0	0	2	0	4
Hazara	Lower Kohistan	0	0	0	0	1	1
Hazara	Mansehra	38	1	2	3	0	44
Hazara	Torghar	17	0	0	1	0	18
Hazara	Upper Kohistan	7	0	0	0	6	13
Hazara Total		147	1	2	10	7	167
Khyber Agency	Khyber	10	0	0	6	6	22
Khyber Agency Total		10	0	0	6	6	22
Kohat	Hangu	14	0	0	0	0	14
Kohat	Karak	60	0	0	0	0	60
Kohat	Kohat	5	0	0	0	0	5
Kohat Total		79	0	0	0	0	79
Kurram Agency	Kurram	2	0	0	0	0	2
Kurram Agency Total		2	0	0	0	0	2
Malakand	Buner	43	0	0	0	0	43
Malakand	Chitral	21	0	0	0	0	21
Malakand	Lower Dir	17	3	5	12	0	37
Malakand	Malakand	24	0	0	0	0	24
Malakand	Shangla	21	0	0	1	0	22
Malakand	Swat	99	3	7	31	24	164
Malakand	Upper Dir	35	1	0	1	1	38
Malakand Total		260	7	12	45	25	349
Mardan	Mardan	33	0	0	1	0	34
Mardan	Swabi	18	0	2	0	1	21
Mardan Total		51	0	2	1	1	55
Mohmand Agency	Mohmand Agency	41	0	0	0	0	41
Mohmand Agency Total		41	0	0	0	0	41
Orakzai Agency	Orakzai	2	0	0	0	0	2
Orakzai Agency Total		2	0	0	0	0	2
Peshawar	Charsadda	13	0	0	1	0	14
Peshawar	Nowshera	62	0	0	0	0	62
Peshawar	Peshawar	25	3	2	13	13	56
Peshawar Total		100	3	2	14	13	132
S.W Agency	S.W Agency	30	0	0	0	0	30
S.W Agency Total		30	0	0	0	0	30
N.W Agency	N.W Agency	8	0	0	5	4	17
N.W Agency Total		8	0	0	5	4	17
Overall		892	12	20	87	60	1071



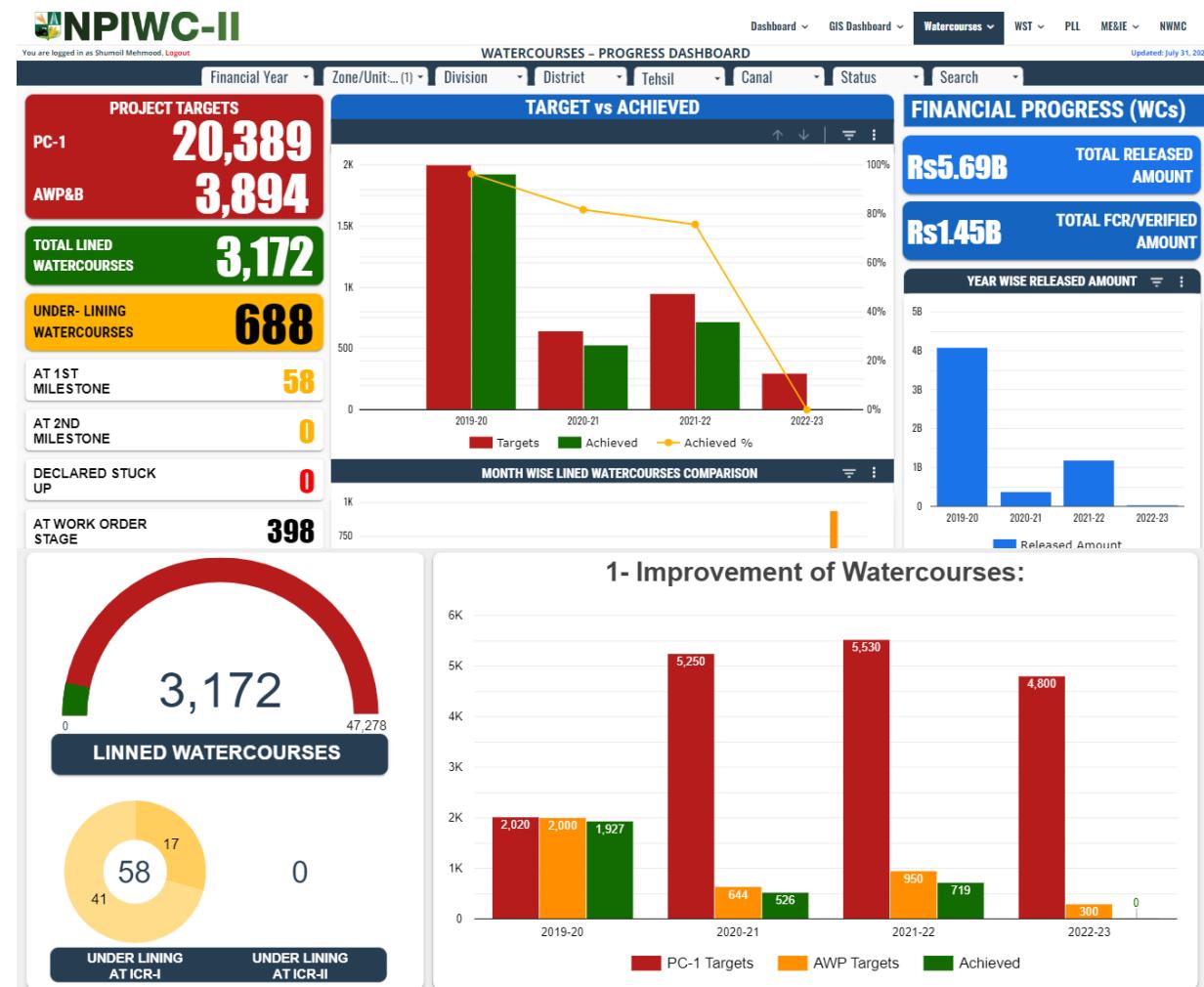
Annex. S: KP - PLL Data Submission - Summary

KP - PLL Data Submission - Summary				
Division	District	Delivered	Under Progress	Overall
D.I Khan	D.I Khan	50	0	50
Overall		50	0	50



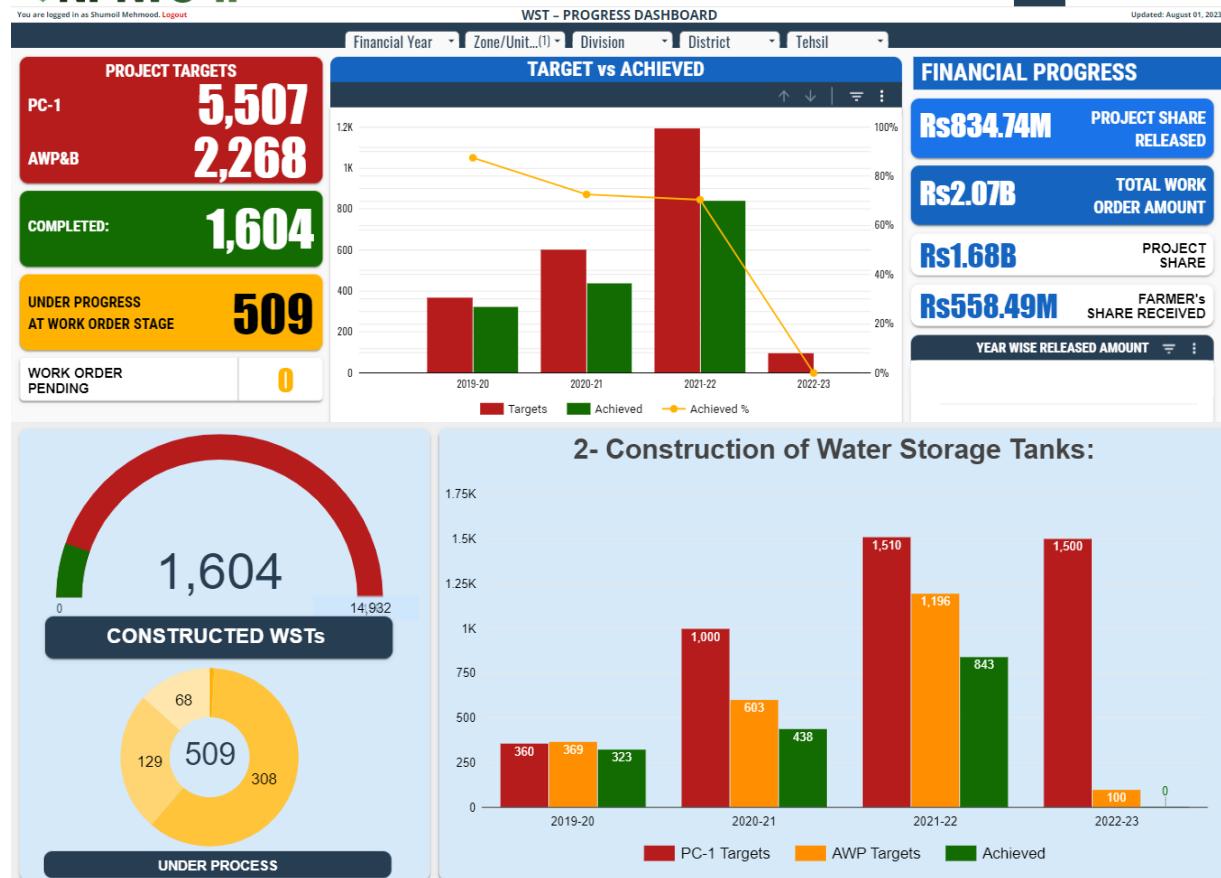
Annex. T: Balochistan - Watercourse Data Submission - Summary

Balochistan - Watercourse Data Submission - Summary							
Division	District	Completed	Under Progress			Pending	Overall
			1st Milestone	2nd Milestone	TS Issued		
Kalat	Awaran	150	0	0	0	1	151
Kalat	Kalat	281	0	0	0	1	282
Kalat	Khuzdar	165	0	0	0	0	165
Kalat	Lasbela	154	0	0	35	0	189
Kalat	Mastung	190	0	0	6	2	198
Kalat	Surab	0	0	0	19	23	42
Kalat Total		940	0	0	60	27	1027
Loralai	Barkhan	64	0	0	0	0	64
Loralai	Duki	0	0	0	43	0	43
Loralai	Loralai	335	0	0	0	0	335
Loralai	Musakhail	187	0	0	0	10	197
Loralai Total		586	0	0	43	10	639
Makran	Gwadar	23	0	0	0	0	23
Makran	Kech	59	0	0	9	64	132
Makran	Panjgur	121	0	0	33	0	154
Makran Total		203	0	0	42	64	309
Nasirabad	Jaffarabad	141	0	0	0	0	141
Nasirabad	Jhal Maghi	27	0	0	0	0	27
Nasirabad	Kachi	3	0	0	98	1	102
Nasirabad	Nasirabad	52	0	0	89	28	169
Nasirabad	Sohbatpur	79	0	0	0	0	79
Nasirabad Total		302	0	0	187	29	518
Quetta	Killa Abdullah	110	0	0	0	0	110
Quetta	Pishin	186	0	0	0	1	187
Quetta	Quetta	83	0	0	1	0	84
Quetta Total		379	0	0	1	1	381
Rakhshan	Chaghi	77	0	0	0	0	77
Rakhshan	Kharan	26	0	0	2	40	68
Rakhshan	Nushki	3	0	0	61	37	101
Rakhshan	Washuk	18	0	0	0	2	20
Rakhshan Total		124	0	0	63	79	266
Sibi	Dera Bugti	99	0	0	0	0	99
Sibi	Harnai	42	0	0	0	0	42
Sibi	Kohlu	0	58	0	0	0	58
Sibi	Sibi	60	0	0	0	0	60
Sibi	Ziarat	71	0	0	1	0	72
Sibi Total		272	58	0	1	0	331
Zhob	Killa Saifullah	235	0	0	0	0	235
Zhob	Sherani	51	0	0	0	15	66
Zhob	Zhob	80	0	0	1	0	81
Zhob Total		366	0	0	1	15	382
Overall		3172	58	0	398	225	3853



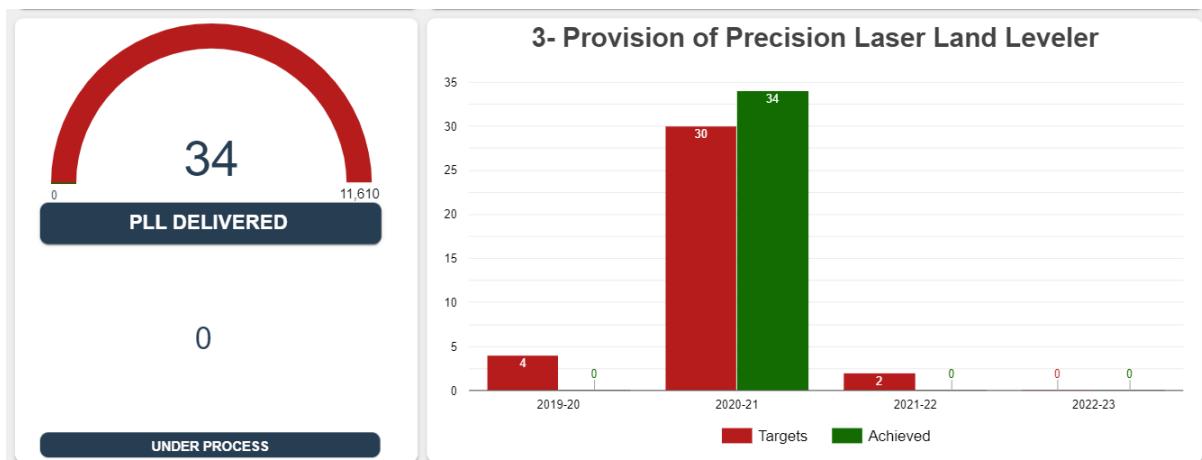
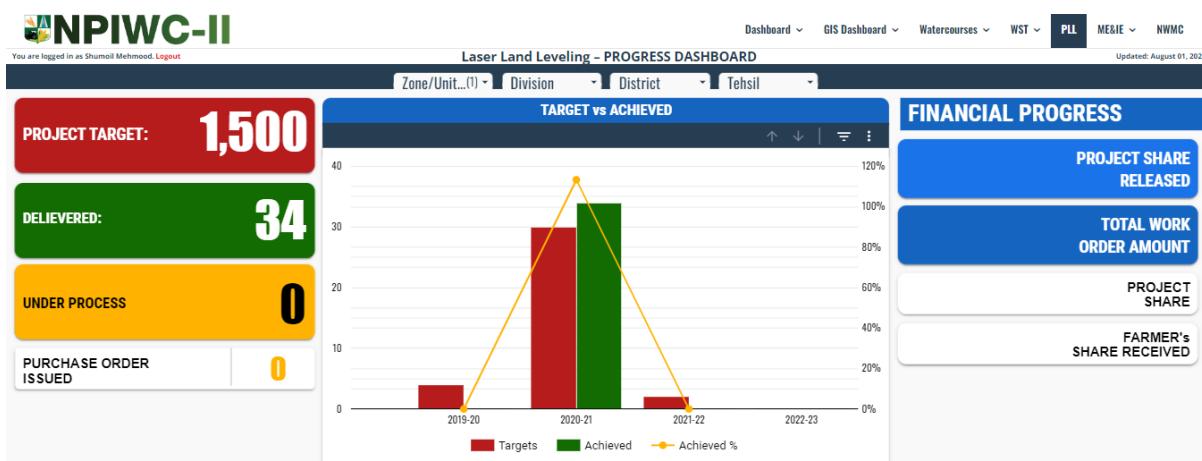
Annex. U: Balochistan - WST Data Submission - Summary

Division	District	Completed	Under Progress			Pending	Overall
			1st Milestone	2nd Milestone	TS Issued		
Kalat	Awaran	56	0	0	0	31	87
Kalat	Kalat	112	0	0	0	67	179
Kalat	Khuzdar	71	0	0	0	68	139
Kalat	Lasbela	105	0	0	0	45	150
Kalat	Mastung	94	0	0	1	12	107
Kalat	Surab	0	0	0	0	29	29
Kalat Total		438	0	0	1	252	691
Loralai	Barkhan	48	0	0	0	6	54
Loralai	Duki	0	0	0	16	13	29
Loralai	Loralai	49	0	0	0	60	109
Loralai	Musakhail	26	0	0	0	1	27
Loralai Total		123	0	0	16	80	219
Makran	Gwadar	7	0	0	0	0	7
Makran	Kech	35	0	0	0	64	99
Makran	Panjgur	39	0	0	0	130	169
Makran Total		81	0	0	0	194	275
Nasirabad	Jaffarabad	8	0	0	0	9	17
Nasirabad	Jhal Magsi	30	0	0	0	0	30
Nasirabad	Kachi	0	0	0	14	68	82
Nasirabad	Nasirabad	0	0	0	0	17	17
Nasirabad	Sohbatpur	1	0	0	0	13	14
Nasirabad Total		39	0	0	14	107	160
Quetta	Killa Abdullah	56	0	0	0	0	56
Quetta	Pishin	58	0	0	0	61	119
Quetta	Quetta	35	0	0	0	41	76
Quetta Total		149	0	0	0	102	251
Rakhshan	Chaghi	33	0	0	0	14	47
Rakhshan	Kharan	15	0	0	0	14	29
Rakhshan	Nushki	0	0	0	30	32	62
Rakhshan	Washuk	4	0	0	1	9	14
Rakhshan Total		52	0	0	31	69	152
Sibi	Dera Bugti	0	0	0	0	39	39
Sibi	Harnai	21	0	0	0	0	21
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		44	0	0	0	62	106
Zhob	Killa Saifullah	30	0	0	0	87	117
Zhob	Sherani	9	0	0	1	15	25
Zhob	Zhob	77	0	0	5	3	85
Zhob Total		116	0	0	6	105	227
Overall		1042	0	0	68	971	2081



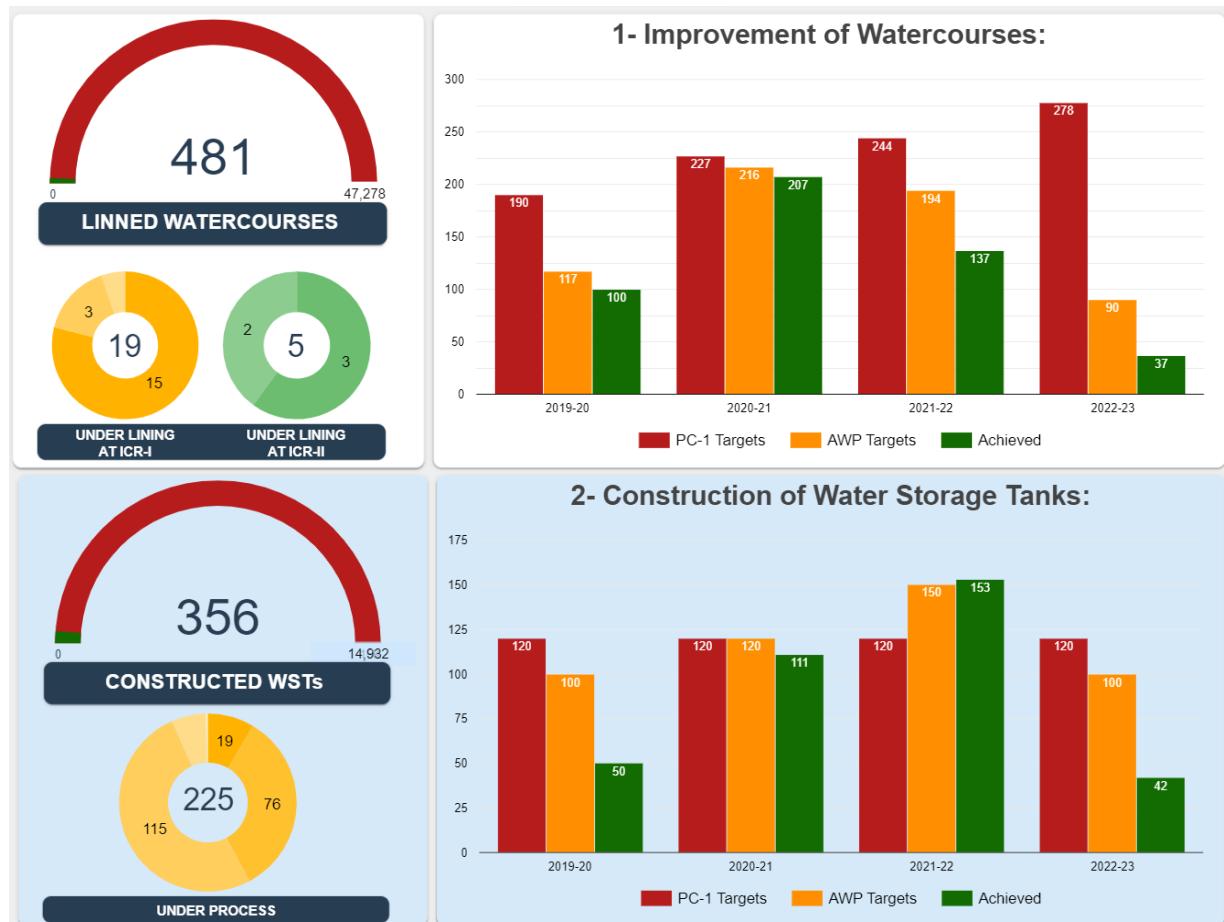
Annex. V: Balochistan - PLL Data Submission - Summary

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



Annex. W: AJK - Watercourses Data Submissions - Summary

Division	District	Completed	Work Order Cancelled	AJK - Watercourses Data Submissions - Summary			TS Pending	Work Order Pending	Overall
				1st Milestone	2nd Milestone	Work Order Issued			
MZD	MZD	89	5	2	4	10	13	0	123
	Jhelum	25	2	1	0	11	5	0	44
	Neelum	41	10	13	1	3	0	0	68
MZD Total		155	17	16	5	24	18	0	235
Poonch	Poonch	40	10	0	0	2	3	0	55
	Bagh	29	14	0	0	0	0	8	51
	Haveli	9	10	2	0	0	8	7	36
	Sudhnoti	23	16	0	0	1	0	0	40
Poonch Total		101	50	2	0	3	11	15	182
Mirpur	Mirpur	76	2	0	0	0	22	1	101
	Bhimber	110	0	1	0	0	0	0	111
	Kotli	39	22	0	0	1	1	11	74
Mirpur Total		225	24	1	0	1	23	12	286
Overall		481	91	19	5	28	52	27	703



Annex. X: AJK - WST/WHS Data Submissions - Summary

AJK - WST/WHS Data Submissions - Summary									
Division	District	Completed	Work Order Cancelled	Under Progress			Pending		Overall
				1st Milestone	2nd Milestone	Work Order Issued	TS Pending	Work Order Pending	
MZD	MZD	141	3	0	0	4	13	0	161
	Jhelum	17	0	0	0	7	3	0	27
MZD Total		158	3	0	0	11	16	0	188
Poonch	Poonch	54	19	0	1	0	21	0	95
	Bagh	44	20	0	0	0	20	0	84
	Haveli	26	16	3	0	0	33	0	78
	Sudhnoti	21	17	2	0	1	7	0	48
Poonch Total		145	72	5	1	1	81	0	305
Mirpur	Mirpur	11	3	0	0	2	5	0	21
	Bhimber	12	0	0	0	0	0	0	12
	Kotli	30	12	0	0	1	10	0	53
Mirpur Total		53	15	0	0	3	15	0	86
Overall		356	90	5	1	15	112	0	579

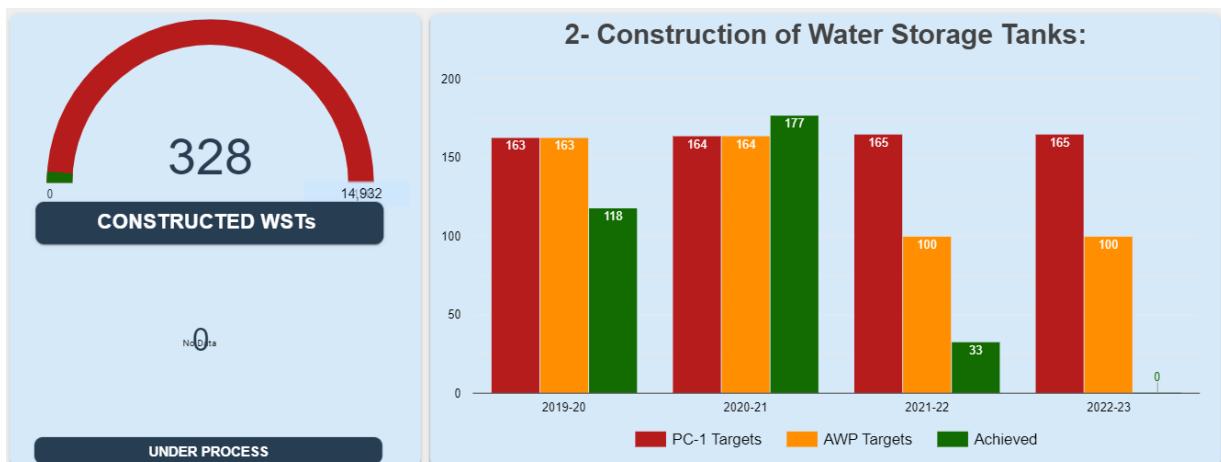
Annex. Y: GB - Watercourses Data Submission - Summary

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



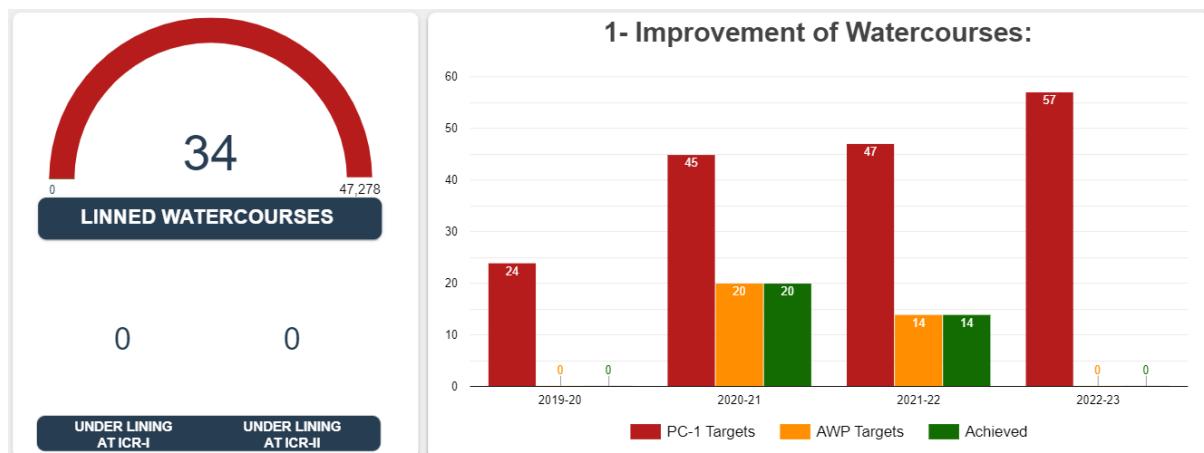
Annex. Z: GB - WST Data Submission - Summary

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



Annex. AA: ICT - Watercourse Data Submission - Summary

Division	District	Completed	ICT - Watercourse Data Submission - Summary				Overall
			1st Milestone	2nd Milestone	Work Order Issued	Work Order Pending	
ICT	ICT	34	0	0	0	0	34
Overall		34	0	0	0	0	34



Annex. BB: ANDROID APPLICATION TRAINING WORKSHOP

Two Days Training Workshop Field Data Collection Through Android Application

Organized by ME&IE Consultant

7th to 8th December 2022

Venue: Conference Hall, Agriculture Research Institute, Sariab Road, Quetta

Agenda

Training Objectives

This training workshop will enable participants to use the Android based data collection application for feeding data for MIS Dashboard.

Workshop Trainers

Name	Prefix	Role	Designation
Mr. Usman Mustafa	[UM]	Trainer	Team Leader
Mr. Rizwan Saleem	[RS]	Trainer	ICT Specialist
Mr. Shumail Mehmood	[SM]	Trainer	Data Analyst
Mr. Irfan Aziz	[IA]	Co-Trainer	Technical/Non-Technical

Wednesday, December 7 th , 2022			Day-1
Time		Topic	Presenter
10:00 AM	10:10 AM	Workshop Opening: Recitation of Holy Quran	
10:10 AM	10:30 AM	Inaugural speech	DG Sb, DTL (ME&IEC & NWMC)
10:30 AM	10:50 AM	Introduction of facilitators and participants	
10:50 AM	11:10 AM	Introduction to digital data collection & GIS based Progress Monitoring Dashboard	SM
11:10 AM	12:10 PM	Discussion on approved WC forms	SM
12:10 PM	1:00 PM	Discussion on approved WST forms	IA
1:00 PM	2:00 PM	Lunch/Prayer Break	
2:00 PM	2:30 PM	Introduction to Android data collection application	SM
2:30 PM	3:30 PM	Demonstration of approved WC forms on Android	SM, IA
3:30 PM	4:30 PM	Demonstration of approved WST forms on Android	IA
4:30 PM	4:50 PM	General discussion (Q&A Session)	SM
4:50 PM	5:00 PM	Day End Closing Remarks	

Thursday, December 8 th , 2022			Day-2
Time		Topic	Presenter
10:00 AM	11:00 AM	Rapid Revision Session of Android Application and Digital Forms	SM
11:00 AM	11:20 AM	Benefits of Digital Data Collection	DTL (ME&IEC & NWMC)
11:20 AM	1:00 PM	Hands-on training session	SM, IA
1:00 PM	2:00 PM	Lunch/Prayer Break	
2:00 PM	3:00 PM	Hands-on training session	SM, IA
3:00 PM	3:30 PM	Data submissions review and identification of errors	SM, IA
3:30 PM	4:10 PM	Discussion on hurdles/issues faced during field activity	SM, IA
4:10 PM	4:30 PM	Discussion on data monitoring/validation checks	SM
4:30 PM	5:00 PM	Wrap-up and Q&A Session	SM