



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

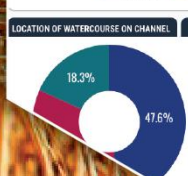
NATIONAL PROGRAM FOR IMPROVEMENT OF WATERCOURSES IN PAKISTAN PHASE-II: (NPIWC-II)

MONITORING, EVALUATION AND IMPACT EVALUATION CONSULTANTS



MONTHLY MONITORING REPORT

APRIL 2024



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



In Association with **S&S Associates**



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

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

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

MONTHLY MONITORING REPORT APRIL 2024

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ACRONYMS

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

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

EXECUTIVE SUMMARY

The “Monitoring Report for the month of April 2024” comprises five chapters:

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

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

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

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

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

Chapter-3 explains the purpose of the Monthly Monitoring Report (MMR). This current MMR covers the period from 1st April 2024 to 30th April 2024.

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

- Regular Monitoring of the Interventions in the Field
- Monitoring of online data collection and Data entry
- Monitoring through Android-based Mobile Application under implementation by field staff.
- Data collection of interventions in MIS/GIS database
- Submitted the MMR for March 2024.
- Submitted the QM&ER for Jan-March 2024.
- Meetings of ME&IE Consultants with the respective Stakeholders about Project Progress / Issues in hand and its prospects.

Chapter-4 highlights the quarterly work plan for the period of 1st April 2024 to 30th June 2024. The work plan consists of the following activities:

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

The detailed time for the 2nd quarter of year 2024 is provided in the Tentative Work Plan **Annex-A**.

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

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

No.	Activities Planned for the Reporting Quarter		Status	
1	Pre-Field Activities			
	1.1	Refresher Training of Field Staff for Baseline Survey & End Line Impact Survey	Completed	
2	Field Activities:			
	2.1	Regular Monitoring of Interventions in the field	In Progress	
	2.2	Data collection of the interventions in the field	In Progress	
	2.3	Baseline and Endline Impact survey Fild visits	In Progress	
	2.4	Online data entry in android-based application	In Progress	
3	ICT Assignment:			
	3.1	Improvement of website of NPIWC-II	In Progress	
	3.2	Monitoring online data collection and Data entry	In Progress	
	3.3	Monitoring Android based Mobile Application under implementation by field staff.	In Progress	
	3.4	Data collection of interventions in MIS/GIS database	In Progress	
	3.5	Capacity Building Trainings / Refresher of Departments	In Progress	
	3.6	Data Cleaning.	In Progress	
4	Coordination			
	4.1	Meetings of TL, ME&IE Consultants with NPC regarding Project Progress / Issues	Meetings conducted regularly	
	4.2	Meeting of DTLs with respective DTL of NWMC	Meetings conducted regularly	
	4.3	Internal Meetings of ME&IE Consultants	Weekly meetings conducted on regular basis	
5	Deliverables:			
	5.1	Monthly Monitoring Reports (MMRs)	39 th MMR (Mar 2024)	Submitted
			40 th MMR (Apr 2024)	Report in Hand
5.2	Quarterly Monitoring & Evaluation Report (QM&ER)	QM&ER Apr-Jun 2024	Will be submitted on stipulated time	

CHAPTER-1: PROJECT INTRODUCTION

1.1 PROJECT PROFILE

This section covers the following detail of the project:

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

Project Areas: Punjab, Khyber Pakhtunkhwa, Balochistan, Gilgit Baltistan, Azad Jammu & Kashmir, and Islamabad Capital Territory (ICT)

Sponsoring Agency Ministry of National Food Security & Research

Executing Agencies (EAs): Following are different EAs:
Federal Project Management Unit (FPMU),
i. DGA OFWM Punjab
ii. DG OFWM KP
iii. DGA OFWM Baluchistan
iv. Director Irrigation and Small Dams, AJ&K
v. Director WM, GB
vi. Director Agriculture Extension Services (AES) ICT

Project Period: 5 Year (2019-2024)

Total Project Cost: Rs. 154,542.355 million (Umbrella PC-1, including Sindh)

ME&IE Consultancy Period: 4 years

ME&IE Consultant: JV of G3 Engineering Consultants (Pvt.) Ltd., EASE PAK Engineering Services (Pvt.) Ltd., Centre for Social Research and Development (CSR), ADA Consultants Inc. Canada, and S&S Associates.

ME&IE Consultant Mobilized: November 07, 2020

1.2 PROJECT DESCRIPTION

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

1.2.1 Project Development Objectives

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

1.2.2 Project Objectives – General & Quantitative

The following are the project's general and quantitative:

1) General Objectives:

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

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

2) Quantitative Objectives' Outputs and Impacts:

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

Project outputs

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

with a 60% subsidy through cost-sharing arrangements with the expectation to save about 50% of irrigation water for wheat and about 68% of irrigation water for paddy crops.

Project impacts

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

Project indirect benefits to industry/economic activities

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

Awareness support to farmers

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

1.2.3 Project Beneficiaries

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

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

1.2.4 Project Components

The NPIWC-II project comprises four components.

C1: ORGANIZATION OF WATER USERS ASSOCIATIONS:

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

- i) Provide a right of way for constructing a 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 by standards and specifications under the supervision of OFWM field staff,
- vii) Regularly undertake O&M of improved watercourses after its construction.

C2: WATERCOURSE IMPROVEMENTS:

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

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

C3: CONSTRUCTION OF WATER STORAGE TANKS:

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

- i) Store water during the rainy season and times of no use in the commands of perennial /

- non-perennial canals for subsequent irrigations at the critical crop growth stages,
- ii) Provide flexibility for storage of plentiful canals and rainfall runoff water for its more expedient use subsequently,
- iii) Collect, store and filter water from:
 - Small Dams, springs, streams, mullahs etc.
 - Rainfall runoff over agricultural catchment during rainy season
 - Tube-wells and dug wells of low flows
 - Tail-waters from agricultural fields
- iv) Regulate the flows so that it can be used efficiently when needed at large flow rates.

C4: PROVISION OF LASER LAND LEVELING UNITS:

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

1.2.5 Project Targets

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

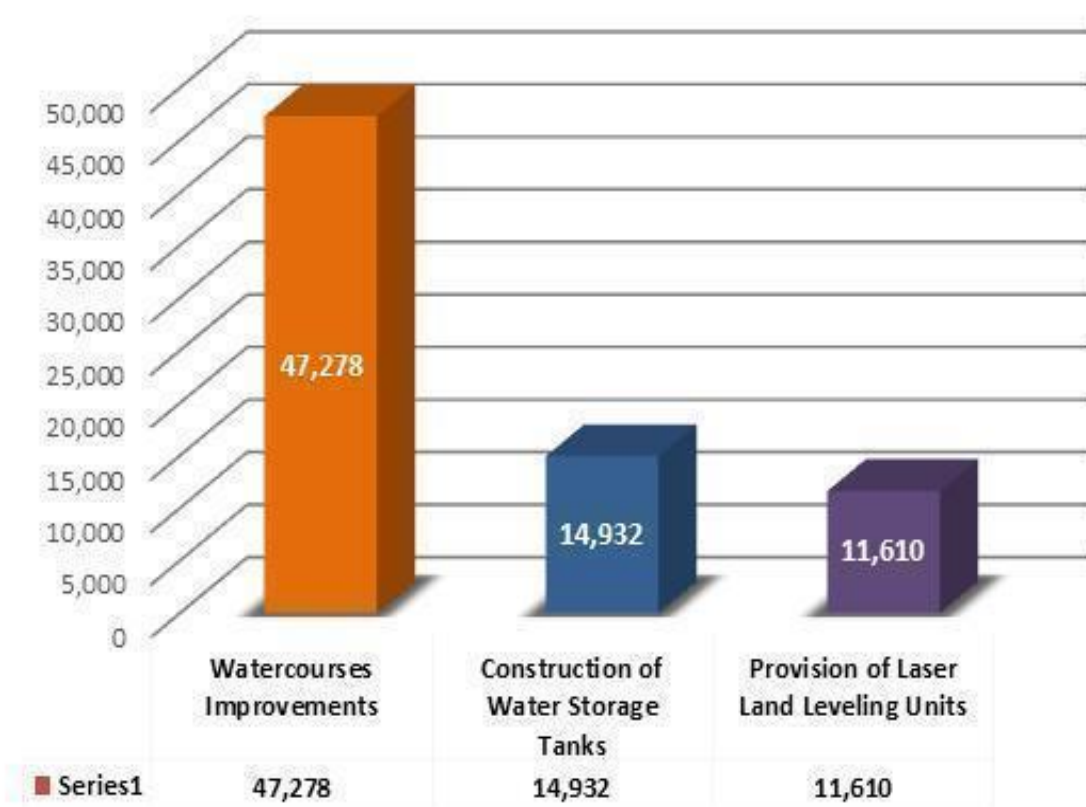


Figure 1.1: NPIWC-II Project WCs, WSTs, and LLL Targets in Pakistan

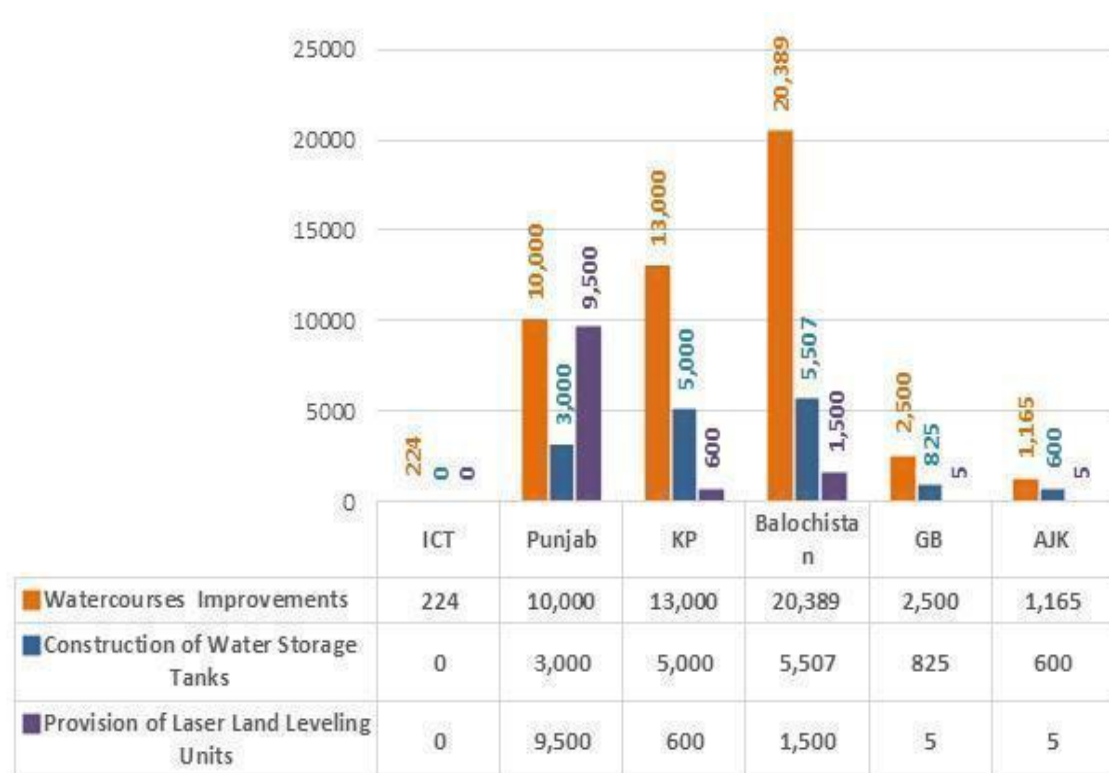


Figure 1 2: Zone-Wise WCs Improvement, WSTs, and LLL Target

CHAPTER 2: SCOPE AND SERVICES OF ME&IE CONSULTANTS

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

2.1 OBJECTIVES OF CONSULTING SERVICES

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

2.2 SCOPE OF CONSULTING SERVICES

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

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

- ensuring the maintenance of watercourses, water storage tanks, and laser land Levelers,
- viii. The 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, laser Levelers database, etc. (while the project's IT staff will maintain the website),
- xi. Provide technical support for the development of a custom-designed mobile application (Android-based) to capture on-site project progress and geo-tagged photos. It should be synchronized with the central MIS/GIS database and application for instant reporting and feedback to the management.

The said requirement is based on the following functional features:

- Development of a GIS database with all spatial layers related to activities being undertaken under the project
- Give technical assistance for up-dation/up-gradation of water management GIS database.
- Development of web-based GIS application as a dashboard interface for comprehensive representation of all spatial and tabular information: custom-designed web GIS application be developed for large LED screens, should be self-operative and represent project data on multiple layouts of an application interface.
- Development of an 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.
- The application should generate custom-designed reports and analyses as per user-defined requirements.
- The application should generate alerts (SMS, email, web notifications) to the user on the non-conformance of the project's key indicators; the application should have the provision to custom define alert levels and desired notifications.

2.3 MONITORING STRATEGY OF CONSULTANTS

The monitoring strategy planned to be followed by ME&IE Consultants is briefly described in **Table-2.2**. However, detailed methodology and procedures to

carry out the ME&IE of the project interventions were explained in Chapter 6 of the Inception Report.

Table 2.2: Monitoring Strategy for ME&IE Activities

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

Sr. No.	Monitoring Activity	ME&IE Team Responsible	Monitoring Strategy
			savings will be estimated for all project watercourses. The savings will be reported per watercourse, per annum, and aggregate for the project in LPS and Acre feet.
			Water Savings on WSTs <ul style="list-style-type: none"> Since WSTs will be filled and emptied continuously, the water savings will be assessed based on water pumped from the tank to irrigate the fields. The assessment will be done either by readings on the pump gauge or periodically interviewing the farmer. Based on water savings on sample WSTs, total water savings will be estimated for all project WSTs. The savings will be reported per WST, per annum, and aggregate for the project in LPS and in Acre feet. Water savings due to Laser Land Leveling <ul style="list-style-type: none"> Water savings at field level will be assessed through farmers' interviews. The impact survey form will include questions to be asked from the farmers who got their land leveled: <ul style="list-style-type: none"> In how much time an acre was irrigated before watercourse improvement and land leveling In how much time an acre is irrigated after watercourse improvement with land leveling The difference will be water saving due to laser land leveling
			Based on water savings on sample LLL units, total water savings will be estimated for all project LLL units. The savings will be reported per LLL unit, per annum, and aggregate for the project in LPS and in Acre feet.
4	Community mobilization	Social and Gender Specialist and Socio-Economic Expert	<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 surveys same forms will be used and the same sampled farmers will be interviewed Data on variables such as crop yields, irrigated area, cropping pattern, cropping intensity, farm income, and employment will be collected and analyzed The difference between before and after situations minus natural growth will be assumed as economic benefits to agriculture.
6	Impact evaluation-on the economy	Team Leader, Agricultural Economist and Socio-Economic Expert	<ul style="list-style-type: none"> The results of the baseline and impact surveys will be used to quantify the impact on the economy Additional food produced due to the project will be estimated. It is benefitted towards food security Project costs and benefits will be compared in economic and

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

2.4 FRAMEWORK AND RESULTS-BASED MONITORING (RBM) INDICATORS

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

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

CHAPTER 3: CONSULTANTS' ACTIVITIES DURING THE REPORTING MONTH

As a regular part of the ME&IE assignment, routine field visits & monitoring of project interventions in the field remained continued by ME&IE consultants. The Consultants also carried out different in-house activities related to ME&IE assignment:

3.1 SUBMISSION OF MONTHLY MONITORING REPORT (MMR)

As per contractual obligation, the consultants have submitted thirty-ninth MMR (March 2024). While the fortieth MMR (the Report in hand) for April 2024 (1st April 2024 to 30th April 2024) is being submitted.

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

egral part of the monitoring and evaluation framework.

of the monitoring and evaluation framework.

3.2 ACTIVITIES ICT UNIT – APRIL 2024

The report presented below provides a brief overview of the significant actions that ICT-UNIT ME&IE consultants have addressed and illustrated in the presentation of monthly monitoring report, April 2024:

- Submitted the deliverables including reports: QM&ER (Jan to March 2024) and MMR March-2024 after editing, verifying, and processing of the same integrated reports compiled by the

respective stakeholders across all the zones/units of the NPIWC-II, project.

- A Tentative Visit Plan being drafted to meet the remaining targets of end-line survey using the available information compiled on the Dashboard by the ME&IE ICT-Team consultants.
- The Team Leader and Deputy Team Leader of the ICT-Unit and National Office at Islamabad supervised admin and Financial liabilities.
- Coordination meetings within and across the respective stakeholders managed and held including OFWM, FPMU, FWMC, Agricultural Extension, Team Leader, DTLs, field team consultants, etc.
- Capacity building of professional human resources continued as per routine duty of the professionals of this project.

3.2.1 Overall Progress:

Concerning acquainting the past updated activities of the ME&IE consultants, Islamabad Unit, they had completed the Baseline- I & II, Midline Impact survey while Baseline-III & Endline survey as well as the ongoing and routine regular monitoring and spot-checking activities are in progress in collaboration with cooperating field operational departments, viz., OFWM, Water Users Associations, and beneficiaries of the targeted schemes (i.e., WC, WST). From inception to date, the ME&IE Consultants ICT field team conducted baseline vis-a'-vis impact surveys of **43** watercourses in AJK & ICT as well as baseline vis-a'-vis impact surveys of more than **18** water storage tanks in AJK and **19** in Potohar region of Punjab Zone. The details about those schemes have already been presented in the tabular and graphic forms in the previous MMRs.

3.2.2 Quarterly Work and Visit Plan – Islamabad Unit

The ME&IE consultants of ICT & AJK Units have achieved a significant milestone, i.e., about 5% and greater than 5% of the total completed interventions in AJK, ICT, and Punjab (Barani zone) against the demand of client office. The specific details for the targeted sampled districts is following in tabular format at the end of this section. The ME&IE consultants of ICT & AJK Units have revisited the tentative field survey schedule for conducting the remaining field visits of Baseline-III & endline surveys, regular monitoring, spot checking, and impact surveys/case studies. These surveys will be

focused on sampled households and schemes related to WC improvements, WST construction, and provision of Laser Land Levelers.

The following Lectures were delivered by the consultant of this project during the month of April-2024:

3.2.3 Monitoring & Evaluation (M&E) and Smart Indicators

Dr. Usman Mustafa, Team Leader, ME&IE Consultant delivered a lecture at Project Planning and Management Institute (PPMI), Ministry of Planning and Development, Government of Pakistan, Islamabad entitled **“Monitoring & Evaluation (M&E) and Smart Indicators”** on April 17, 2024. The lecture was attended by around 45 participants representing different public and private institutes throughout the country. The main topics covered by Dr. Mustafa were basic terminology covered under the topic. Definition and explanation of Monitoring and Evaluation (M&E). Difference between M&E. Definition of Indicators, their types, benefits, and selection criteria for good indicators with the help of examples in order enhance the comprehension of the participants. What is a “Smart indicator”? The participants showed a lot of interest which was reflected by their interactive sections and questions. A case study of quantitative analysis related to “Childhood vaccination” was also presented in the training.

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Image of the lecture Session at PPMI, Islamabad





Image of the lecture Session at NCRD, Islamabad

3.2.4 Quantification/ Evaluation Methods: Cost-Benefit Analysis, Cost-Effectiveness Analysis

Dr. Usman Mustafa, Team Leader, ME&IE Consultant delivered a lecture at the National Centre of Rural Development (NCRD), Islamabad entitled “Quantification Evaluation Methods: Cost-Benefit Analysis, Cost-Effectiveness Analysis” on April 19, 2024. The lectures were attended by 35 participants belonging throughout the country. Specifically, the participants were from different Federal and Provincial Government and Semi-government organizations and Institutes. The main topic covered by Dr. Mustafa was basic terminology exhibited under the topic. The usefulness of qualitative methods along with different approaches to qualitative research. What is qualitative data analysis? The Steps include of benefits and challenges of doing qualitative data analysis. Besides the cost-effectiveness analysis that was also discussed during the training program. The participants showed a lot of interest which was reflected by their interactive sections, feedback, and questions raised. A case study of quantitative analysis related to “Childhood vaccination” was also presented in the training.

Some of the Challenges & Mitigation Measures Adopted are discussed as under:

All the staff members are devoted to fulfilling the manned responsibilities. Similarly, the OFWM is helping and coordinating towards ME&IE consultants’ ICT-Unit, despite lack of financial resources from the main pool of funds, the consultants have achieved the target for the ICT, AJK, Gilgit-Baltistan Unit and Punjab Barani targeted sampled areas.

• Key Proposals to Manage the suggested Field as well as HQs. Plans:

- First aid boxes, and necessities like, umbrellas, and water with a cooler must be provided to the field teams to combat emergencies,
- Tablet may be provided to the Field team members for facilitating online data transfer.

3.3 ACTIVITIES PUNJAB ZONE – APRIL 2024

During the month of April, due to certain unavoidable circumstances like financial constraints, limited field activities were carried out by the ME&IE consultants.

The ME &IE consultant’s activities remained around its usual functions as under.

- Pre - Field Activities
- Post - Field Activities
- Field activities
- Meeting with Stakeholders/Beneficiaries
- Internal Meetings/ Capacity Building Sessions
- Any other relevant assignment of the project.

During April 2024, due to certain unavoidable circumstances particularly the financial crunch, the outdoor activities of the ME&IE consultants remained lower than normal. However, Punjab zone has successfully performed / evaluated various activities of the project as under:

3.3.1 Pre-Field Activities

Deputy team leader had a number of meetings with the field team members and Agri, Economist (National Office), The main focus was on Remaining parts of the impact survey of water courses and provision of laser land levelers. Under the current scenario the details discussions were held on the following points.

- All ecological zone / District Should be Covered.
- Due representation should be given to each ecological zone and district while drawing the sample from the remaining part to maintain the Balance.
- Regarding views/perception of the respondents, particularly on farms community, be clearly observed and recorded.
- Efforts are to be made to cover the desired sample size of water courses and Laser Land Leveler units in this quarter (April to June 2024)

5. Sample to be drawn in remaining districts for provision of Laser Land Leveler units of the Punjab. Ecological zone.



DTL Discussing with Field team Members on Field Survey Strategies



Meeting of DTL with Agri Economist discussing the next Baseline/Impact Survey III

3.3.2 Field Activities

During the month under review the field activities of the OFWM were limited due to certain constraints at their end. Similarly, the Consultants field activities also remained limited. However, ME&IE consultants were quite in contact with OFWM field staff during the month about the field operations. From inception to the reporting month, the ME&IE Consultants' Punjab field team conducted baseline vis-a' vis impact surveys on a total of **250** watercourses. In addition, they completed baseline and impact surveys for **80** water storage tanks (**61** by Punjab field team and **19** of Potohar Region by ICT Field team) and conducted impact assessments on **148** PLL interventions.

3.3.3 Post Field Activities

The post field activities included Review of accumulated data and its validation. Such activities

pertained to monitoring, baseline and Impact survey of the interventions.

3.3.4 Coordination / Meetings with Stakeholders / Beneficiaries

The coordination meetings with stakeholders / beneficiaries of the project were necessary to update the field activities status, The ME&IE consultants coordinated with stakeholders / beneficiaries. Such efforts were necessary to strengthen the relationship between consultants and stakeholders particularly the field staff of OFMW.

3.3.5 Internal Meetings

1. Visit of Team Leader (National Office).

Dr. Usman Mustafa Team Leader, national office Islamabad visited Punjab zonal office Lahore on April 15, 2024.

The main objective of the visit was to review the performance of the zonal office and discussion on incoming field survey.

A meeting was held in DTL office in this regard. This meeting was attended by all the field team members and supporting staff

DTL Punjab zone briefed Team Leader about Progress and achievements of zonal office. The Team Leader has shown his satisfaction over the performance of Punjab Zonal office Lahore.

Meanwhile he also showed concerns over the delaying of reports on continuous basis. Team Leader gave Clear instructions to Data Controller for improving the situation, Moreover, Team leader said it is the responsibility of Data Controller and Concerned DTLs to submit report in time.

Further, Team Leader showed deep Concerns over the Non-Functioning of Dashboard at DG office and asked DTL Punjab to resolve this matter as soon as possible. The team leader also issued necessary guidelines during discussions on administrative and financial issues. During the detailed discussions the meeting session on upcoming field survey became a CAPACITY BUILDING SESSION when DTL Punjab highlighted the bottle necks of this task.

Then the Team Leader emphasized DTL Punjab to complete remaining endline impact field visits immediately without any further delay He provided a complete rather a comprehensive lecture on this upcoming field surveys. He provided in-depth

knowledge starting from sampling methodology, data collection instruments, use of android based system and other ICT technologies.

The participants were fully satisfied. Towards the end the Team Leader emphasized that field team should highlight the Positive aspects of the project in upcoming Reports and Videos based on reality.



Dr Usman Mustafa Team Leader National Office particularly meeting in Zonal Office Punjab Lahore



View of the participation of the meeting

3.4 ACTIVITIES KP ZONE – APRIL 2024

In addition to the routine activities i.e; to keep close coordination with the OFWM Department Khyber Pakhtunkhwa for the on-going schemes under the NPIWC-II in the province, the ME/IE Consultants KP Zone frequently paid visits to the Client's office for meetings both formal and informal during month under reference. The focus of these meeting was mainly on the data entry to the Dashboard and training to OFWM official by the ICT Specialist of the ME/IE Consultants. Whenever the client faced any difficulty in the data entry to the Dashboard, the ICT Specialist offered his services to them.

On the retirement of the DG OFWM Department KP the ME/IE Consultants made a presentation to the new DG of the OFWM regarding the Dashboard on April 22, 2024, in the Conference Room of the Department. In pursuance to this presentation the ICT team of the ME/IE Consultants arranged a two-day training in Peshawar on April 29-30, 2024.

The activities conducted by ME&IE consultants during the month of April were not very different from the previous months. The following activities were carried out in the month of April 2024.

Major Activities of the ME&IE Consultants, KP

- ❖ Meetings with Client (Formal and Informal)
- ❖ Presentation to the New DG OFWM by the ME/IE Consultants regarding the Dashboard.
- ❖ Training to the OFWM Officials by the ME/IE Consultants
- ❖ Field Monitoring
- ❖ Monitoring of data
- ❖ Verification of WC and WSTs through Google Earth
- ❖ Writing of MMR of March 2024

Meetings were held with OFWM Officials in continuation of the 28th of March Meeting at OFWM office.

The meetings were held on 1st, 17th, 18th and 22nd April in the response of 28th March meeting where it was requested by client to correct any ambiguity in data and dashboard and provide a refresher training for their field staff.

The field team supported the ICT team in verification of geographic coordinates of Watercourses and Water Storage tanks through google earth and other mechanisms.

Drafted KP MMR report for the month of April 2024.

What follows next is details of activities carried out during the month of April.

3.4.1 Updated progress of ME&IE Consultants - KP.

Overall Progress:

Meetings: During the current reporting month coordination meetings were carried out with OFWM department of KP for the following points on April 01, 2024.

Venue: OFWM Office Peshawar

Participants: Mr. Hayat Khan, Mr. Jameel, Muhammad Bilal

1. Dashboard Data Update:

- Focal Person (FPKP) Discussed on the current status of dashboard data and the need for regular updates with timely and accurate data for decision-making purposes. However, it was emphasized that

the data updating process is the responsibility of OFWM staff through Android application and G3 can assist in this process.

- To correct any errors or discrepancies in the existing data to maintain accuracy, reliability and significance of comprehensive data reflection for assessing performance and identifying trends. It was assured that the relevant person from G3 will ensure to correct all data issues.
2. Availability of Full-Time Data Manager:
 - Discussion on the necessity of having dedicated support for data-related activities. It was informed that a full-time data manager is placed at Islamabad office, who moves to any station upon request for managing any shortcoming in data and dashboard. It was assured that the ICT specialist can come to Peshawar any time to address any technical data issues.
 3. Area-wise Refresher Training for OFWM Staff:
 - Proposal to conduct refresher training sessions for OFWM (On Farm Water Management) staff on data entry procedures.
 - Recognition of the need to reinforce data entry skills among staff members to improve data quality.
 4. Preparation of Key Training Personnel:
 - Discussion on identifying and preparing key personnel from Districts to serve as trainers for future training sessions.
 - Agreed to empower selected individuals with necessary skills and knowledge to conduct training sessions independently in the future.
 5. Training for OFWM Technical Staff on Dashboard Operation:
 - Recognition of the importance of training technical staff members on operating the dashboard effectively.
 - It was agreed that technical support will be extended for technical staff in understanding Dashboard.



Meeting of ME/IE Consultants with Focal Person
NPIWC-II of OFWM Department KP

Meeting on 17th April

Venue: OFWM Office Peshawar

Participants: Hayat Khan, Muhammad Bilal, Mehboob and Jameel

The following points were discussed in the meeting.

1. Correction of Watercourse Coordinates:
 - Identified watercourses with coordinates outside boundaries on the GIS dashboard need correction. It was agreed to call upon the relevant person to ensure accurate representation of watercourse locations.
2. Reflecting Actual Field Values:
 - Emphasis on the need for dashboard data to reflect the actual and updated situation in the field.
 - It was updated that OFWM may devise strategies to update data entries to align with real-time observations and field values through their field offices.
3. Access for OFWM Technical Staff:
 - Support OFWM technical staff with easy access to all entered data.
 - Decision to explore options for creating a downloadable link or platform for technical staff to access data efficiently.

Meeting 18th April,

Venue: OFWM Office Peshawar

Participants: Mr. Hayat Khan, Mr. Rizwan (AD Planning Division), Engr Ilyas (NESPAC), Mr. Mehboob, Mr. Jameel, Mr. Muhammad Bilal (FTI), Mr. Shumail (Data Analyst), Mr. Qaisar (FTI)

The following points discussed.

Reasons for Out of Boundary Coordinates:

- Discussion on the factors contributing to watercourse coordinates being outside the boundaries on the GIS dashboard. It was updated to

the meeting members that Android app is giving accurate support in data collection however, in start of project, initial data of already completed watercourses was entered by G3 staff in the office of OFWM instead its entry at field level. The data which was collected by OFWM staff on papers was in Degree: Minutes: Seconds, while Android app needed it in Degree Decimal system. It was an error of conversion as well collection of data at field level.

- It was agreed to devise a mechanism to solve these discrepancies and to prevent recurrence in the future. It was also suggested that this data could be re-checked at Deputy Commissioners office GIS section with dedicated District staff, so they can make it within boundaries.
- It was also emphasized that all those watercourses which move within more than 1 District, may also be given some appropriate District location, so it could not be reported out of boundary.

1. Data Accuracy and Field Values:

- Inquiry into why the dashboard data does not accurately reflect the current situation in the field. It was shared that data collection is the sole responsibility of field staff of OFWM. If they may not enter any field, the data will always show as incomplete even the watercourse may be completed in field from all sections.
- Identifying the need for better coordination between field data collection and dashboard updates to ensure alignment. It was suggested that Computer Operators of relevant districts may also be given access to Android app and they will be able to access any incomplete data of any watercourse and may enter its details from the hard file being prepared by field engineers or water management officers.

2. Access to Data for OFWM Technical Staff:

- Acknowledgment of the necessity to provide OFWM technical staff with access to all entered data, so they can make any analysis and present it to any level.
- Decision to establish a downloadable link or platform for technical staff to access data promptly and efficiently.

3. Correction of Dashboard Data:

- Recognition of the importance of correcting inaccuracies in the dashboard data. It was

shared that some values of watercourses and water storage tanks mismatch within the values of dashboard.

- Agreement to prioritize the correction of data discrepancies to enhance the reliability and usability of the dashboard.

4. Training of OFWM staff:

- It was decided that G3 team will sit with the staff of OFWM and make a workable plan for the training of OFWM staff in different Districts at some zonal areas. It was discussed that G3 team will come next day and finalize the training program with dates.



Meeting of ME/IE Consultants with OFWM Department KP



Mr. Hayat Khan(focal person), Mr. Rizwan(AD Planning Div), Mr. Asif (OFWM) and Mr Ilyas(NESPAK).



Members of ME/IE Consultants Muhammad Bilal, Qaisar Khan and Shumail Mehmood

Presentation to DG OFWM KP Peshawar on 22nd April 2024.

Venue: OFWM Office, Peshawar

Participants:

1. Mr. Naseeb ur Rahman (DG OFWM)
2. Mr. Hayat Khan (FP KP),
3. Usman Mustafa (Team Leader NPIWC-G3), Dr. Humayun Khan (Dy Team Lead, KP NPIWC-G3),
4. Mr. Mehboob(GIS specialist),
5. Mr. Jameel(GIS analyst),

6. Mr. Muhammad Bilal (FTI),
7. Mr. Shumail (Data Analyst),
8. Mr. Qaisar (FTI)

The following points discussed.

1. Reasons for Out of Boundary Coordinates:
 - Discussion on the factors contributing to watercourse coordinates being outside the boundaries on the GIS dashboard was discussed in further details. It was updated to the DG that all the data on Dashboard reflect the entries made by the staff of OFWM. It was further told him that any error or shortcoming in data is also at the part of the team of OFWM. It was discussed that in the meeting of 18 April, a detailed strategy was discussed to overcome this issue and OFWM staff will manage it in coming days.
2. Addition of outcomes in Dashboard:
 - DG emphasized that Dashboard do not reflect information about; Farmers, their land holding, before and after intervention (GCA, CCA, water saving, timing of irrigation, and cropping intensities etc.).
 - It was informed to him that many of these parameters were added on advice of Mr. Hayat Khan one year before and field teams of OFWM started to collect data on these parameters also. However, as it was included 1 year before, so previous all data which was entered by OFWM staff lacks this information. It was also told that this information is available with OFWM staff on their hard files and it could be entered by them in their respective apps any time.
 - DG advised Mr. Hayat Khan to write a letter to field office and ask them to enter this information at their earliest.
3. Training of OFWM staff:
 - It was discussed by DG that G3 team will sit with the staff of OFWM and make a workable plan for the training of OFWM staff in different Districts at some zonal areas. It was discussed that G3 team may perform this activity at their earliest, however, Mr Hayat Khan updated him that they are devising this plan and as early it will be ready, it will be shared.



Meeting of ME/IE Consultants with OFWM Department KP



Mr. Naseeb Rehman (DG OFWM), Mr. Hayat Khan(focal person), Mr. Mehboob (GIS Specialist), Mr. Jameel (GIS Analyst) and Mr Haris.



Members of ME/IE Consultants Dr. Usman Mustafa (Team Lead), Dr Humayun (DTL KP), Muhammad Bilal(FTI), Muhammad Waseem (Admin) Qaisar Khan (FTE)

REFRESHER TRAINING

Dates: April 29=30, 2024

Venue: Conference Room of OFWM Department:

Resource Persons: ME/IE Consultants KP Zone:

Participants: PFWM Officials:

A two days refresher training was imparted to the officials of OFWM Department by the ME/IE Consultants to officials of the OFWM Department KP on April 29-30, 2024. The purpose of the training to train the OFWM officials for entry data to the Dashboard. The ICT team of the G-3 consultants imparted this training to the client staff of the KP.

FIELD ACTIVITIES:

The monitoring / Baseline pertains to Various interventions of the project viz improvement of watercourses, water user associations, construction of water storage tanks and laser land levelers. Such surveys are carried out from time to time as a part of regular activity of ME&IE Consultants. From inception to date the KP field team of ME&IE Consultants conducted baseline vis-a'-vis impact surveys of **205** watercourses in KP and **40** in GB. Moreover, the consultants had completed baseline vis-a-vis impact surveys of **79** water storage tanks in KP and **15** in GB. Impact assessment field visits of **05** PLL interventions were also carried out in KP.

DATA ENTRY AND GPS VALIDATION:

During the reporting month KP Teams entered and validated the GPS locations for hundreds of schemes of 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.

CAPACITY BUILDING OF ME&IE CONSULTANTS AND OFWM STAFF ON ANDROID APPLICATION:

During the current reporting month, formal/informal support was provided to OFWM officials. However, continuous support was provided to OFWM officials on telephone for any issue while operating android system and/or data collection process.

3.4.2 Justification for not Meeting the Targets.

Lack of financial resources was the main hurdle in the meeting the targets well in time.

3.4.3 Key Challenges & Mitigation Measures Adopted.

Some Limitations:

- Due to overall economic situation & liquidity crunches prevailing in the country currently, funds release delays were evident leading to slowing down progress of overall project.
- Directorate remains involved in implementation of other funded projects with the NPIW-II. So, they are not able to give much time to ME&IE Consultants.

3.4.4 Suggestions:

For the Smooth operations of field activities following are suggested.

- There should be a proper modus operandi for meetings and consistent follow-up among

stakeholders to ensure smooth functioning of all aspects and timely resolutions of any impeding hindrances.

- ning of all aspects and timely resolutions of any impeding hindrances.
- Exposure of Dashboard with its broader perspective and application may present amongst the relevant authorities for its importance and further release of funds for the project activities.

3.4.5 Quarterly Work Plan – KP Zone

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

3.5 ACTIVITIES DONE BY BALOCHISTAN ZONE – APRIL 2024

3.5.1 Updated Progress of ME&IE Consultants – Balochistan

The ME&IE Consultants, Balochistan, have monitored **17** sites during the pre-testing of Monitoring Tools in different months. A total of **13** sites were monitored during executive visits with high officials. The ME&IE Consultants, Balochistan have conducted three baseline surveys, the first was conducted in 2021, the second was conducted in 2022 and the third was in 2023-24. A total of **351** sites were monitored during the baseline surveys i.e., **203** Watercourses and **148** Water Storage Tanks. The ME&IE, field teams monitored **07** sites of PLL out of 34 total sites; the percentage of monitored sites is 20%. The Impact Assessment Survey was conducted in the 2022-23 and 2024 in which **351** sites (**203** Watercourses and **148** Water Storage Tanks) have been visited so far. Regular monitoring/spot-checking is another important activity of ME&IE Consultants in which more than **385** sites of different districts have been monitored till the reporting month. In regular monitoring, ME&IE Consultants monitored ongoing / completed sites covering till date. The district wise updated status of the total activities done is given in the table below:

Table-3.1 District-wise Summary of M&E Consultants Field visits till April 2024

Sr. #	District	Baseline Survey		Impact Assessment Survey		Impact Survey (LLL)
		WC	WST	WC	WST	
1	Quetta	4	15	4	15	-
2	Pishin	10	9	10	9	-
3	Killa Abdullah	5	3	5	3	-
4	Ziarat	4	4	4	4	-
5	Mastung	9	8	9	8	-
6	Nushki	6	3	6	3	-
7	Sibi	3	3	3	3	-
8	Jhal Magsi	2	4	2	4	-
9	Kachhi	5	10	5	10	-
10	Naseerabad	9	6	9	6	-
11	Jaffarabad	7	1	7	1	4
12	Sohbatpur	10	1	10	1	3
13	Loralai	17	7	17	7	-
14	Dukki	2	2	2	2	-
15	Zhob	4	4	4	4	-
16	Kila-Saifullah	12	6	12	6	-
17	Musa khel	11	2	11	2	-
18	Sherani	4	2	4	2	-
19	Khuzdar	8	7	8	7	-
20	Kalat	13	9	13	9	-
21	Pangur	8	8	8	8	-
22	Awaran	8	4	8	4	-
23	Barkhan	3	3	3	3	-
24	Chaghi	4	3	4	3	-
25	Dera Bugti	5	2	5	2	-
26	Gwadar	2	1	2	1	-
27	Harnai	2	1	2	1	-
28	Kech	6	5	6	5	-
29	Kharan	4	2	4	2	-
30	Kohlu	3	2	3	2	-
31	Lasbela	10	8	10	8	-
32	Surab	2	2	2	2	-
33	Washuk	1	1	1	1	-
Sub-Total		203	148	203	148	7

3.5.2 Updated Status of Technical Sanctions.

The DG of OFWM issued numerous Technical Sanctions (TS) for different zones in the month of January 2024. Detail of TS Shared with Data Analyst of ICT Team in April. 2024.

3.5.3 Updated Status of Dashboard Balochistan.

The DTL, Balochistan zone has diligently undertaken several visits to the DG, OFWM Office, and these efforts have attained positive results, with the OFWM staff responding positively and cooperatively.

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

This significant data forward in achieving our objectives for the Dashboard of Balochistan.

The worthy DG, OFWM, Balochistan is requested to direct the concerned officials to expedite the data validation process of the last three financial years i.e. 2019-20, 2020-21, and 2021-22, and provide the necessary support and resources they require. It is also requested give the necessary direction to

all DDs and concerned staff to upload the beneficiary data on “Dashboard, Balochistan” through the Android Based data application of the current F.Y. 2023-24 so that the ME&IE Consultants could update their field visits plan and complete

remaining Baseline and impact field survey activities accordingly.

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

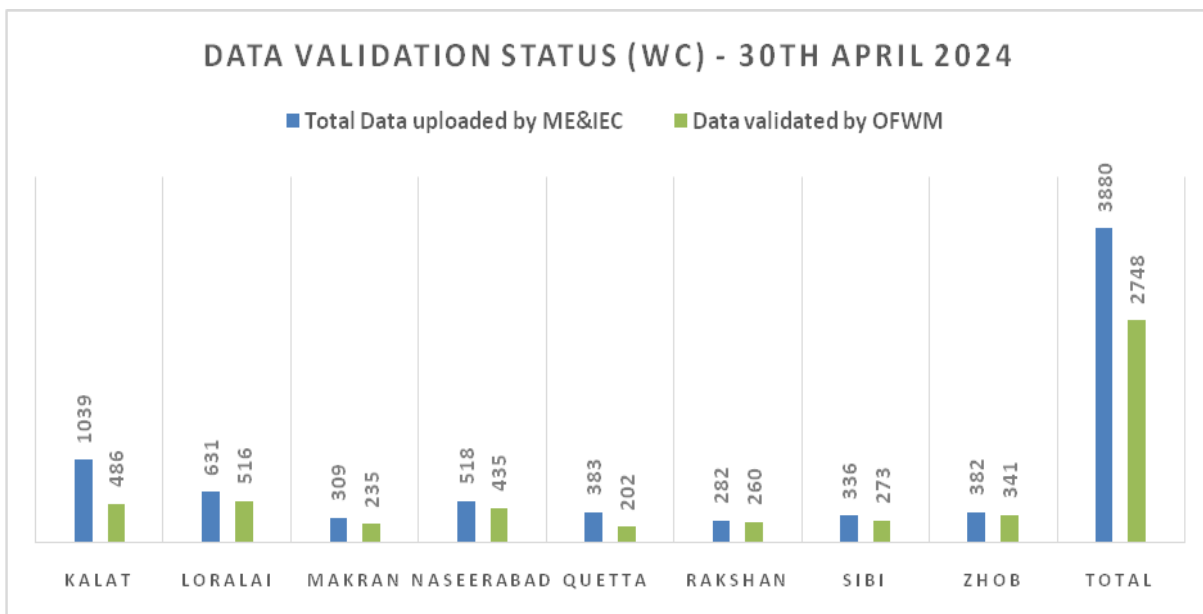
• **District-wise Progress of Dashboard, Balochistan (Watercourses)**

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

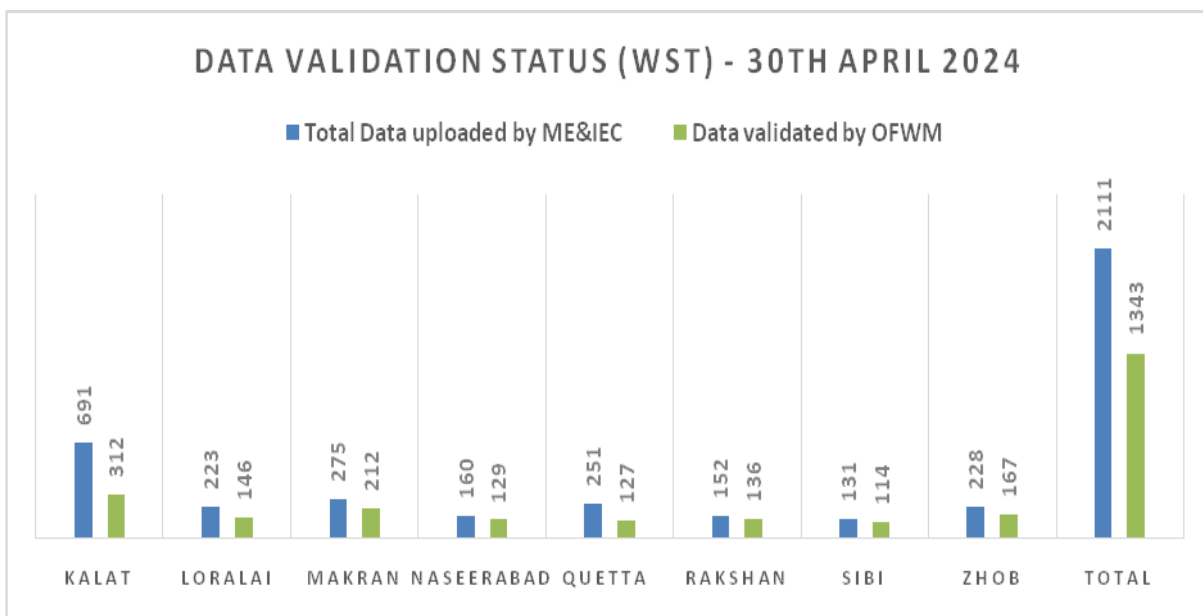
• District-wise Progress of Dashboard, Balochistan (Water Storage Tanks)

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

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



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



3.5.4 Meetings:

Date	24 th April 2024
Venue	Village Abdul Rehman Bangulzai Dera Murad Jamali Naseerabad Lat. 28.549601 Long. 68.18352
Participants	
1. Mr. Mohammad Waris Former 2. Mr. Saleem, FTI, ME&IEC, NPIWC-II.	
Meeting Agenda / Subject: Assessment of Water Storage Tank Impact	
<p>➤ Summary: -</p> <ul style="list-style-type: none"> On March 24, 2024, a meeting was convened with Former Mr. Muhammad Waris to discuss the efficacy and impact of the water storage tank in our locality. Mr. Waris provided valuable insights regarding the transformation brought about by the installation of the water storage tank. Prior to its establishment, accessing clean water posed a significant challenge, necessitating journeys to distant locations. However, with the tank now operational, water procurement has become significantly more convenient, benefiting not only ourselves but also the surrounding community. <p>➤ Current Challenges: -</p> <ul style="list-style-type: none"> Despite the evident advantages, recent heavy rains have weakened the structural integrity of the tank walls. Consequently, the tank's capacity to store water has been compromised, hindering our ability to utilize this essential resource effectively. <p>➤ Recommendations: -</p> <ul style="list-style-type: none"> It is imperative that immediate steps be taken to repair the damaged sections of the water storage tank. By addressing these structural issues promptly, we can ensure the continued availability of clean water to our community for an extended period. Additionally, investing in regular maintenance measures will safeguard the longevity and functionality of the tank, thereby enhancing its overall utility. <p>➤ Conclusion: -</p> <ul style="list-style-type: none"> In conclusion, the water storage tank has undoubtedly been a valuable asset in addressing the water accessibility challenges faced by our community. However, proactive maintenance and repair efforts are essential to sustain its efficacy and ensure uninterrupted access to clean water in the future. Therefore, it is recommended that necessary actions be taken promptly to address the identified 	

concerns and uphold the integrity of this vital resource.



View of meeting with Mr. Mohammd Waris Former and Saleem Ahmed, NPIWC-II held at WST

Date	24 th April 2024
Venue	Village Abdul Rehman Bangulzai Dera Murad Jamali Naseerabad Lat. 28.549601 Long. 68.18352
Participants	
1. Mr. Mohammad Waris Former 2. Mr. Saleem Ahmed, FTI, ME&IE Consultants, NPIWC-II, Balochistan, Quetta.	
Meeting Agenda / Subject: Impact of Water Course Improvements on Farming Efficiency and Income Generation	
<p>➤ Summary: -</p> <ul style="list-style-type: none"> On March 24, Mr. Muhammad Waris, a local farmer, elucidated the transformative effects of water course enhancements on agricultural practices within the community. Previously, the utilization of older water courses necessitated considerable labor and time expenditure for irrigation purposes, resulting in inefficient land irrigation and water wastage. However, with the implementation of modernized water course systems, significant improvements have been observed. The upgraded water course infrastructure requires minimal effort for maintenance and operation, leading to enhanced land irrigation efficiency. Consequently, the cultivated land exhibits 	

improved productivity, contributing to increased agricultural yields and subsequently higher income generation for farmers. The optimization of water resource utilization not only saves valuable time but also facilitates the expansion of cultivated land, thus bolstering overall profitability within the farming sector.



View of meeting with Mr. Mohammad Waris, Former, held at Water course, Naseerabad.

Date	24 th April 2024
Venue	Village Saffar Khan Jamali Dera Murad Jamali Naseerabad Lat. 28.553352 Long. 68.180936
Participants	
<ol style="list-style-type: none"> 1. Mr. Sher Mohammad Former. 2. Mr. Saleem, M&E Officer, ME&IE Consultants, NPIWC-II, Balochistan, Quetta 	
Meeting Agenda/Subject: -	
Impact Assessment of Water Course Upgrades on Agricultural Efficiency and Economic Returns	
<p>➤ Summary:</p> <ul style="list-style-type: none"> ● On March 24, Sher Mohammad, a prominent local farmer, provided insights into the transformative effects of recent water course improvements on agricultural operations in the community. Historically, the utilization of outdated water course infrastructure posed significant challenges, including labor-intensive maintenance requirements and suboptimal land irrigation, resulting in inefficiencies and resource wastage. However, the adoption of modernized water course systems has yielded 	

notable benefits. The upgraded infrastructure demands minimal maintenance efforts and operational inputs, leading to enhanced land irrigation efficiency. Consequently, cultivated land exhibits improved productivity, fostering higher agricultural yields and increased income generation for farmers. The optimization of water resource utilization not only saves valuable time but also enables the expansion of cultivated land, thereby enhancing overall profitability within the agricultural sector.



View of meeting with Mr. Sher Mohammad Former held at Water course

Date	24 th April 2024
Venue	Village Ghulam Qadir Jamali Dera Murad Jamali Naseerabad Lat. 28.559743 Long. 68.156742
Participants	1. Mr. Khair Bux Former. 2. Mr. Saleem, M&E Officer, ME&IE Consultants, NPIWC-II, Balochistan, Quetta
Meeting Agenda / Subject: -	impact of Enhanced Water Course Infrastructure on Agricultural Efficiency and Economic Performance
➤ Summary:	<ul style="list-style-type: none"> On March 24, Khair Bux, a respected figure in the local farming community, shared valuable insights regarding the impact of recent water course enhancements on agricultural practices. Historically, outdated water course systems presented formidable challenges, including labor-intensive maintenance and suboptimal land irrigation, resulting in inefficiencies and resource depletion. However, the implementation of modernized water course infrastructure has ushered in significant improvements. The upgraded systems require minimal maintenance efforts and operational inputs, leading to heightened land irrigation efficiency. As a result, cultivated land exhibits enhanced productivity, yielding higher agricultural outputs and bolstering income generation for farmers. The optimized utilization of water resources not only saves valuable time but also facilitates the expansion of cultivated land, thus enhancing overall profitability within the agricultural sector.



View of meeting with Mr. Khair Bux Former held at Water course

Date	25 th April 2024
Venue	Village GormanikotJhat Pat Dera Allah Yar Jaffarabad Lat. 28.365499 Long. 68.318836
Participants	1. Mr. Gullab Khan Former. 2. Mr. Saleem, M&E Officer, ME&IE Consultants, NPIWC-II, Balochistan, Quetta
Meeting Agenda / Subject: -	Comprehensive Analysis of Laser Land Leveller Enhancing Agricultural Productivity and Farmer Prosperity
➤ Summary:	<ul style="list-style-type: none"> Gullab Khan, a respected authority within the agricultural sector, provided valuable insights on March 25 regarding the multifaceted impact of laser land leveller on farming practices. Emphasizing the efficacy of this technology, Khan underscored its pivotal role in efficiently smoothing land surfaces, thereby facilitating improved irrigation accessibility and enhanced agricultural productivity. Furthermore, the adoption of laser land leveller has streamlined land preparation processes, leading to optimized water distribution, minimized water wastage, and increased crop yields. Beyond the immediate benefits of improved harvest quality and quantity, the widespread integration of this technology is catalyzing a broader transformation within the farming community. Farmers are experiencing enhanced economic

prosperity, driven by increased agricultural output, reduced input costs, and improved resource utilization. Moreover, the long-term sustainability of agricultural operations is being bolstered, positioning farmers for continued success and resilience in the face of evolving environmental and economic challenges.



View of meeting with Mr. Gullab Khan Former held at PLL

Date	25 th April 2024
Venue	Village GormanikotJhat Pat Dera Allah Yar Jaffarabad Lat. 28.375403 Long. 68.350953

Participants

1. Mr. Gull Bahar Former.
2. Mr. Saleem, M&E Officer, ME&IE Consultants, NPIWC-II, Balochistan, Quetta

Meeting Agenda / Subject: -

Impact Assessment of Laser Land Levelers on Agricultural Productivity and Farmer Prosperity

➤ Summary:

- On March 25, Former Gul Bahar highlighted the transformative impact of laser land levelers on agricultural practices. He emphasized the machine's efficacy in efficiently smoothing land surfaces, which facilitates improved irrigation accessibility and enhances agricultural productivity. The utilization of laser land levelers has streamlined land preparation processes, resulting in optimized water distribution and increased crop yields. Consequently, farmers are experiencing notable improvements in harvest quality and quantity, paving the way for enhanced prosperity within the agricultural community.



View of meeting with Mr. Gull Bahar Former held at PLL

Date	27 th April 2024
Venue	Village GormaniKotJhat Pat Dera Allah Yar Jaffarabad Lat. 28.375403 Long. 68.350953

Participants

1. Mrs. Saeeda Former.
2. Mr. Saleem, M&E Officer, ME&IE Consultants, NPIWC-II, Balochistan, Quetta

Meeting Agenda / Subject: -

Impact Assessment of Laser Land Levelers on Agricultural Productivity and Farmer Prosperity

➤ Summary:

- On March 25, Buzgar Gul Bihar highlighted the transformative impact of laser land levelers on agricultural practices. He emphasized the machine's efficacy in efficiently smoothing land surfaces, which facilitates improved irrigation accessibility and enhances agricultural productivity. The utilization of laser land levelers has streamlined land preparation processes, resulting in optimized water distribution and increased crop yields. Consequently, farmers are experiencing notable improvements in harvest quality and quantity, paving the way for enhanced prosperity within the agricultural community.



View of Mrs. Saeeda BB with her family in field.



View of meeting with Mrs. Saeeda Former held at PLL

Date 19th April 2024

Venue	Village Chashma Achozai District:Quetta Tehsil:Baleli Chashma Achozai Farmer: Haji Shafique Ahmed Scope of Work: WST 30*30 FY:2022-2023 Command Area: 10 acres Cultivated Area: 08
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Participants

1. Mr Yaseen Khan
2. Mr. Mohiz Khan
3. Mr. Basit Ahmed FTI ME&IE Consultants, NPIWC-II, Balochistan, Quetta



➤ Summary:

- Impact survey of scheme



View of WST

Date 19th April 2024

Venue	Village Chashma Achozai District: Quetta Tehsil: Baleli Chashma Achozai Farmer: Haji Nisar Ahmed Scope of Work: WST 50*50 FY:2022-2023 Command Area: 06 acres Cultivated Area: 06
Participants	1. Mr. Abdul Wadood Tenant. 2. Mr. Basit Ahmed M&E Officer, ME&IE Consultants, NPIWC-II, Balochistan, Quetta
Summary:	● Impact survey
 	
Visit of WST	

3.5.5 Field Visits:

Mr. Naseeb Jan FTI Balochistan Zone

Date	19 th April 2024
Venue	Village:Asso Band UC: Maani Khwa District: Sherani Farmer Name: Akhtar Muhammad s/o Sher Muhammad Tenant Name: Niaz Muhammad Scope of Work: WST 60*60 Command Area: 10 acres Cultivated Area: 08 Acres Cultivated Crops: Wheat, Ginger Vegetable

Coordinates	Latitude .31.330004 Longitude.69.581798
Participants	1. Mr. Abdullah Field Assistant OFWM Sherani 2. Niaz Muhammad Tenant 3. Mr. Naseeb Jan, FTI, ME&IEC, NPIWC-II, Balochistan.
Meeting Agenda / Subject:	Assessment of Water Storage Tank and its impacts on crops yield.
Summary:	<ul style="list-style-type: none"> With the establishment of such scheme, water procurement has become significantly more convenient, benefiting not only the farmers in irrigating their lands but also the surrounding community in terms of drinking, livestock. As such schemes proved in increasing crop yields and barren lands of farmers which ultimately boost National GDP as well as living standards of farmers, their tenants and the surrounding communities.
 	



Date	19 th April 2024
Venue	Village: Pir Muhammad UC: Kapip District: Sherani Farmer Name: Juma Rahim s/o Barkat Scope of Work: PVC 3" 1000Rft Command Area: 15 acres Cultivated Area: 05 Acres Cultivated Crops: Wheat rainfed Coordinates Latitude .31.330140 Longitude. 69.670408

Participants

1. Mr. Abdullah Field Assistant OFWM Sherani
2. Mr. Naseeb Jan, FTI, ME&IEC, NPIWC-II. Balochistan.

Meeting Agenda / Subject:

Assessment of PVC Pipe and its impacts on crops yield.



Date	19 th April 2024
Venue	Village: Khan Alam Kapip UC: Kapip District: Sherani Farmer Name: Muhammad Nazar s/o Abdul Wadood Scope of Work: PVC 4" 1000Rft Command Area: 15 acres Cultivated Area: 10 Acres Barren Land: 05 Cropping pattern: Intercropping Orchard: Apricot, Almond Coordinates Latitude .31.322896 Longitude. 69.638469



Participants

1. Mr. Abdullah Field Assistant OFWM Sherani
2. Mr. Naseeb Jan, FTI, ME&IEC, NPIWC-II. Balochistan.

Meeting Agenda / Subject:

Assessment of PVC Pipe and its impacts on crops yield.



Date	19 th April 2024
Venue	Village: Khan Alam Kapip UC: Kapip District: Sherani Farmer Name: Baacho Khan s/o Taimour Shah Scope of Work: WST 60*60 Command Area: 20 acres Cultivated Area: 10 Acres Coordinates Latitude .31.333403 Longitude. 69.640407
Participants	
1. Mr. Abdullah Field Assistant OFWM Sherani 2. Mr. Naseeb Jan, FTI, ME&IEC, NPIWC-II. Balochistan.	
Meeting Agenda / Subject: Assessment of Water Storage Tank and its impacts on crops yield.	
<p>➤ Summary: -</p> <ul style="list-style-type: none"> ● With the establishment of such scheme, water procurement has become significantly more convenient, benefiting not only ourselves in irrigating land but also the surrounding community in terms of drinking water as well as livestock. ● Crop yield increased with such interventions. 	
	
	



3.6 SOCIAL & GENDER IMPACT REPORT – APRIL 2024

A data review of the project since its inception was carried out during this month, after carefully analyzing the data, it is established that incorporating gender into agriculture in Pakistan is vital for promoting gender equality and improving agricultural outcomes.

Following are some additional actions to consider:

1. Women's access to land and resources: we should advocate and raise voices for women's ownership and control of land, and ensure access to credit, inputs, and technology.
2. Capacity building and training: while designing projects it is imperative to budget for Providing gender-sensitive training on agricultural practices, entrepreneurship, and leadership for women farmers.
3. Gender-sensitive agricultural extension services: in all agriculture related projects, Train extension agents to address the specific needs and constraints of women farmers.
4. Promote women's participation in value chains: Encourage women's involvement in processing, marketing, and trading of agricultural products. We should give importance to train them.
5. Address gender-based violence and discrimination: Implement programs to raise awareness and prevent violence against women in agricultural settings.
6. Women-friendly agricultural technology: Develop and promote technologies that reduce women's labor and increase their productivity.
7. Inclusive agricultural policy-making: Ensure women's representation in policy-making processes and advocate for gender-responsive policies.

8. Access to credit and financial services: Facilitate women's access to credit, savings, and insurance services to support their agricultural endeavors.
9. Gender-disaggregated data collection: Collect and analyze data on women's contributions to agriculture to inform policy and programming decisions.
10. Community engagement and mobilization: Engage with local communities to challenge harmful gender stereotypes and promote gender equality in agriculture.
11. Support women's leadership in farmers' organizations: Encourage women's participation and leadership in farmers' organizations and cooperatives.
12. Address water and energy challenges: Implement solutions to reduce women's burden in fetching water and collecting fuelwood.
13. Promote climate-resilient agriculture: Support women farmers in adopting climate-resilient practices and accessing climate information.
14. Influence digital technologies: Utilize mobile apps, digital platforms, and other technologies to reach women farmers with information, services, and market access.
15. Encourage male allies: Engage men in promoting gender equality in agriculture, recognizing their role as allies and change agents. (above mentioned pointes are gathered from different reports of UN, FAO, UNDP, UNWOMEN)

These actions can help address the specific challenges faced by women in agriculture in Pakistan, promoting gender equality and improving the overall well-being of farming communities.

A **Gender Action Plan** is a strategy designed to promote gender equality and empower women and girls. To improve it, here are some potential suggestions:

1. Increase participation: Involve more stakeholders, including women and girls from diverse backgrounds, in the planning and decision-making process.
2. Set specific goals: Define clear, measurable objectives and indicators to track progress.
3. Address multiple dimensions: Consider intersectionality, including factors like race, ethnicity, sexual orientation, age, and disability.
4. Include men and boys: Engage them in gender equality efforts to foster allies and positive change.

5. Provide resources: Ensure adequate funding, training, and capacity-building for effective implementation.
6. Monitor and evaluate: Regularly assess and adjust the plan based on data and feedback.
7. Engage in policy reform: Advocate for policy changes that support gender equality.

As Pakistan Government is a signatory of sustainable development goals and Government of Pakistan is, trying to achieve all objectives and trying to improve situation by implementing different programs following goals are related with women empowerment. So, it is imperative to work on policy level to achieve following goals during inception and implementation of agriculture related projects to empower women.

- Sustainable Development Goal 5: Gender Equality: This goal aims to eliminate gender inequality and empower women. In agriculture, this goal translates to women having the same access to resources, decision-making opportunities, and financial stability as men.
- Sustainable Development Goal 15: Life on Land: This goal aims to protect, restore, and promote the sustainable use of terrestrial and forest ecosystems, forests, wetlands, rivers, and wildlife. Women, especially those living in rural areas, play a significant role in agriculture and are the main labor force in growing crops, often depend on forests for fuel, fodder, and food.
- Women's education: Statistics show that education in Pakistan can be characterized by extensive gender inequalities. Girls and women face socio-cultural hurdles to acquire education. The proponents of gender equality argue that it is not only humane and ethical thing to provide everyone easy access to education without any gender bias, but it is also essential for development and progress of a society that both men and women are educated.
- Women in agriculture: Women make up to 70% of the agricultural labor in some nations, or over 43% of those employed globally. For instance, small-scale farmers in Africa account for nearly 80% of the continent's production of agriculture, and most of them are women who live in rural regions. Mothers, in particular, has a significant role in making decisions on the household's food and organizing meals. Additionally, women self-reported information their opinions on protecting the food and overall wellness of children with greater frequency.

The Social & Gender Specialist visited Sargodha on 25th and 26th April 2024, to review the situation of farmers after heavy rains during harvesting. Meeting was arranged at Chak No.115NB, 116NB and 84NB pictures are attached. Findings of the meetings with farmers, climatic change effected the farmers and landless farmers very brutally, harsh weather effected whole years hard labor and govt. policies affected the farmers, unable to sell the wheat crop at government rate and fleeced by the middle man. Which effected badly their livelihoods. It is requested that Government should made policies which should help the farmers to focus on agriculture activities, instead of migration to the cities.





3.7 ICT TEAM ASSIGNMENTS

3.7.1 Implementation of MIS Dashboard

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

The progress of Interventions is live on the Dashboard application.

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

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

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

Punjab – WSP Data Summary				
Division	2019-20	2020-21	2021-22	Overall
Lahore	0	9	5	14
Multan	16	25	26	67
Rawalpindi	0	174	194	368
Sahiwal	9	15	15	39
Sargodha	6	32	47	85
Bahawalpur	23	46	91	160
Overall	107	393	491	991

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

Punjab – PLL Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
Bahawalpur	81	324	305	78	788
D.G Khan	50	297	190	100	637
Faisalabad	93	378	274	99	844
Gujranwala	49	231	263	17	560
Gujrat	30	106	122	16	274
Lahore	64	271	258	95	688
Multan	102	273	194	79	648
Sahiwal	71	188	231	98	588
Sargodha	78	266	247	38	629
Rawalpindi	22	76	75	15	188
Overall	640	2410	2159	635	5844

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

KP – WC Data Summary						
Division	2019-20	2020-21	2021-22	2022-23	2023-24	Overall
Bajaur	3	19	39	18	4	83
Bannu	68	29	94	28	0	219
D.I Khan	412	9	93	7	0	521
Hazara	86	69	152	67	4	378
Khyber	6	13	7	1	0	27
Kohat	94	39	57	28	18	236
Kurram	2	4	1	0	0	7
Malakand	182	179	479	65	16	921
Mardan	105	64	88	26	23	306
Mohmand	4	40	17	30	0	91
N.W Agency	2	3	5	1	0	11
Orakzai	0	1	0	0	0	1
Peshawar	139	87	77	36	0	339
S.W Agency	3	10	15	7	0	35
Overall	1106	566	1124	314	65	3175

So far, Total **3175** Watercourses data have been received from KP zone and available live on GIS Dashboard. By which **3020** Watercourses have been lined and remaining **96** watercourses are under progress on different stages like 1st Milestone, 2nd

Milestone, and Work Order Issued. The remaining **59** Watercourses are pending with Work Order Approval. All the above figures have been revised due to rectification in data. (Detailed Summary attached as **Annex-I**)

KP – WST Data Summary						
Division	2019-20	2020-21	2021-22	2022-23	2023-24	Overall
Bajaur	1	10	9	1	0	21
Bannu	12	10	23	2	0	47
D.I Khan	80	6	35	0	0	121
Hazara	28	47	84	13	1	173
Khyber	1	9	12	0	0	22
Kohat	14	17	32	14	0	77
Kurram	1	1	0	0	0	2
Malakand	74	97	195	11	8	385
Mardan	16	9	26	4	11	66
Mohmand	1	40	69	0	0	110
Orakzai	0	2	0	0	0	2
Peshawar	35	23	54	14	0	126
S.W Agency	0	15	15	2	0	32
N.W Agency	0	8	8	1	0	17
Overall	263	294	562	62	20	1201

Overall Water Storage Tank data submissions are **1201** of which **1116** WST have been completed and **52** are under progress. While **33** Water Storage Tanks Work Order Pending. All the above figures in WST have been revised due to rectification in data. (Detailed Summary attached as **Annex-J**)

KP – PLL Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
D.I Khan	0	0	50	0	50
Overall	0	0	50	0	50

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

Balochistan – WC Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
Kalat	597	143	287	0	1027
Loralai	344	148	137	37	666
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	3	385
Overall	2147	694	1002	40	3883

Total **3883** Watercourses data has been received from Balochistan zone of which **3236** Watercourses has been lined, **253** Watercourses are pending at TS Stage and remaining **394** watercourses are under progress. (Detailed Summary attached as **Annex-L**)

Note: The Watercourses data from Balochistan Zone was last updated on October 17, 2023. However, since then, there has been no further data input received from Balochistan Zone enumerators via the Android Application. There is still a significant amount of pending data on their end. That needs to be submitted promptly to address the backlog on the PMIS Dashboard.

Balochistan – WST Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
Kalat	95	154	442	0	691
Loralai	54	57	111	11	233
Makran	50	57	168	0	275
Nasirabad	29	48	83	0	160
Quetta	53	87	111	0	251
Rakhshan	26	68	58	7	159
Sibi	35	34	61	9	139
Zhob	49	61	117	0	227
Overall	391	566	1151	27	2135

A total of **2135** Water Storage Tank data has been received from Balochistan zone of which **1636** Watercourses have been lined, **102** Water Storage Tank at TS Stage and remaining **397** Water Storage Tanks are under progress. (Detailed Summary attached as **Annex-M**)

Note: The Water Storage data from Balochistan Zone was last updated on October 24, 2023. However, since then, there has been no further data input received from Balochistan Zone enumerators via the Android Application. There is still a significant amount of pending data on their end. That needs to be submitted promptly to address the backlog on the PMIS Dashboard.

Balochistan – PLL Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
Kalat	0	4	0	0	4
Makran	0	11	0	0	11
Nasirabad	0	16	0	0	16
Quetta	0	1	0	0	1
Sibi	0	2	0	0	2
Overall	0	34	0	0	34

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

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

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

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

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

AJK – WC Data Summary						
Division	2019-20	2020-21	2021-22	2022-23	2023-24	Overall
MZD	30	83	53	29	44	239
Poonch	33	32	30	8	44	147
Mirpur	37	96	72	21	84	310
Overall	100	211	155	58	172	696

A total of **696** Watercourses data has been received from AJK zone of which **538** Watercourses have been lined, **28** Watercourses are pending at TS & Work Order Stage, **130** watercourses are under progress. (Detailed Summary attached as **Annex-Q**).

AJK – WST Data Summary						
Division	19-20	20-21	21-22	22-23	23-24	Overall
MZD	35	56	61	9	29	190
Poonch	13	41	62	34	87	237
Mirpur	2	15	31	6	40	94
Overall	50	112	154	49	156	521

A total of **521** Water Storage Tank data has been received from AJK zone of which **387** Water Storage Tank have been lined, **19** Water Storage Tanks are pending at TS Stage, **115** Water Storage Tanks are under progress. (Detailed Summary attached as **Annex-R**)

ICT – WC Data Summary					
Division	2019-20	2020-21	2021-22	2022-23	Overall
ICT	0	20	14	7	41
Overall	0	20	14	7	41

A total of **41** completed Watercourses data have been received and available live on Dashboard. (Detailed Summary attached as **Annex-S**).

3.7.2 Refresh Training Session

The ICT team is set to conduct refresher training workshops in the KP zone, commencing on April

29th, 2024, and concluding on May 10th, 2024. The workshops will be held across four zones, with relevant districts participating as per zone division. Each zone will have a fixed duration of two days training & progress workshops, as requested by the OFWM Department. During these sessions, the team will review progress and identify any missing data, providing guidance to enumerators for input. Additionally, there will be refresher sessions on android application data collection aimed at enhancing their digital data collection capabilities.

3.7.3 On-Going Data Validation & Cleaning

The data submission process is ongoing and will persist until the project concludes. Zonal Field Staff in AJK are consistently inputting data via customized Android Application which has been provided and trained by the ICT team of ME&IE consultants. Concurrently, the ICT team is continuously engaged in cleaning and validating the received data, and any errors are promptly communicated to the respective Zonal DDs/ADs for correction.

CHAPTER 4: QUARTERLY WORK PLAN- ACTIVITIES (APRIL 2024 TO JUNE 2024)

The ME&IE Consultants' activities initiating during the 2nd Quarter of the year 2024 (1st April 2024 to 30th June 2024) are listed below. A tentative Work Plan for the 2nd Quarter of the year 2024 (1st April 2024 to 30th June 2024) showing period detail is given as **Annex-A**.

4.1 PRE-FIELD-ACTIVITIES

- Refresher Training of Field Staff for Baseline & End Line impact Survey

4.2 FIELD ACTIVITIES

- Regular Monitoring of Interventions in the field
- Data collection of the interventions in the field
- Endline Impact field Survey
- Online data entry in android-based application

4.3 ICT ASSIGNMENT

- Improvement of the website of NPIWC-II
- Monitoring online data collection and Data entry
- Monitoring Android-based Mobile Applications under implementation by field staff.
- Data collection of interventions in MIS/GIS database
- Capacity Building Training / Refresher of Departments
- Data Cleaning.

4.4 COORDINATION

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

4.5 DELIVERABLES

- Monthly Monitoring Reports
- Quarterly Monitoring & Evaluation Report (QM&ER)

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

Document	Status
Draft Inception Report	Submitted
Final Inception Report	Submitted
Monthly Monitoring Report-First (DEC 2020-JAN 2021)	Submitted

Document	Status
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
Annual Monitoring & Evaluation Report (1 st)	Submitted
Monthly Monitoring Report-Seventh (JULY)	Submitted
Monthly Monitoring Report-Eighth (AUG 2021)	Submitted
Baseline Survey Report-I	Submitted
Monthly Monitoring Report-Ninth (SEPTEMBER 2021)	Submitted
Quarterly Monitoring & Evaluation Report-Third (JULY - SEPTEMBER 2021)	Submitted
Monthly Monitoring Report-Tenth (OCTOBER 2021)	Submitted
Monthly Monitoring Report-Eleventh (NOVEMBER 2021)	Submitted
Monthly Monitoring Report-Twelfth (DECEMBER 2021)	Submitted
Quarterly Monitoring & Evaluation Report-Fourth Quarter year 2021 (OCTOBER – DECEMBER 2021)	Submitted
Monthly Monitoring Report-Thirteenth (JANUARY 2022)	Submitted
Monthly Monitoring Report-Fourteenth (MARCH 2022)	Submitted
Monthly Monitoring Report-Fifteen (MARCH 2022)	Submitted
Quarterly Monitoring & Evaluation Report-First Quarter year 2022 (JANUARY – MARCH 2022)	Submitted
Monthly Monitoring Report-Sixteen (APRIL 2022)	Submitted
Monthly Monitoring Report-	Submitted

Document	Status
Seventeenth (MAY 2022)	
Monthly Monitoring Report-Eighteenth (JUNE 2022)	Submitted
Quarterly Monitoring & Evaluation Report-2 nd Quarter year 2022 (APRIL – JUNE 2022)	Submitted
Annual Monitoring & Evaluation Report (2 nd Jul 2021-June 2022)	Submitted
Monthly Monitoring Report-Nineteenth (JULY 2022)	Submitted
Monthly Monitoring Report-Twentieth (AUGUST 2022)	Submitted
Monthly Monitoring Report-Twenty First (SEPTEMBER 2022)	Submitted
Quarterly Monitoring & Evaluation Report-3 rd Quarter year 2022 (JUL – SEP 2022)	Submitted
Monthly Monitoring Report-Twenty Second (OCTOBER 2022)	Submitted
Monthly Monitoring Report-Twenty Third (NOVEMBER 2022)	Submitted
Monthly Monitoring Report-Twenty Fourth (DECEMBER 2022)	Submitted
Monthly Monitoring Report-Twenty Fifth (JANUARY 2023)	Submitted
Monthly Monitoring Report-Twenty Sixth (FEBRUARY 2023)	Submitted
Monthly Monitoring Report-Twenty Seventh (March 2023)	Submitted
Monthly Monitoring Report-Twenty-eighth (April 2023)	Submitted
Quarterly Monitoring & Evaluation Report-1 st Quarter year 2023 (JAN – MAR 2023)	Submitted
Monthly Monitoring Report-Twenty-Ninth (May 2023)	Submitted
Monthly Monitoring Report-Thirtieth (June 2023)	Submitted
Monthly Monitoring Report-Thirty First (July 2023)	Submitted
Monthly Monitoring Report-Thirty Second (August 2023)	Submitted
Monthly Monitoring Report-Thirty Third (September 2023)	Submitted
Quarterly Monitoring & Evaluation Report-1 st Quarter year 2023 (Jul – Sep 2023)	Submitted
Monthly Monitoring Report-Thirty Fourth (October 2023)	Submitted
Monthly Monitoring Report-Thirty Fifth (November 2023)	Submitted

Document	Status
Monthly Monitoring Report-Thirty Sixth (December 2023)	Submitted
Quarterly Monitoring & Evaluation Report-2 nd Quarter year 2023-24 (Oct – Dec 2023)	Submitted
Monthly Monitoring Report-Thirty Seventh (January 2024)	Submitted
Monthly Monitoring Report-Thirty Eighth (February 2024)	Submitted
Monthly Monitoring Report-Thirty Ninth (March 2024)	Submitted
Quarterly Monitoring & Evaluation Report-3 rd Quarter year 2023-24 (Jan – Mar 2024)	Submitted
Monthly Monitoring Report-Fortieth (April 2024)	Report in hand
Baseline Survey Report -I	Submitted
Baseline Survey Report - II	Submitted
Baseline Survey Report-II (Updated version WC)	Submitted
Baseline Survey Report -II (Draft version of WSTs)	Submitted
Mid-Line Monitoring & Impact Evaluation Report	Submitted
Consolidated Baseline Survey Report (Phase-I&II)	Submitted
Baseline (Phase I&II) Consolidated Report	Submitted
<i>Mid-Term Monitoring and Impact Evaluation Report</i>	<i>Submitted</i>
Special Reports submitted: 1) Monitoring Tools 2) Survey Manual on MTs 3) PAM 4) Working Paper on Technology and Methodology for Implementation of Android Based Field Progress Data Collection and GIS Based Progress Monitoring Analytical Dashboard. 5) Survey Methodology & Questionnaires for Baseline Survey Phase-II 6) Baseline-End Line Manual Survey Manual 7) Android Application PMIS Dashboard Manual 8) Survey Manual on MTs (Updated)	Submitted

Document	Status
9) Water Saving Through NPIWC-II Project Interventions	
10) Special Report on Monitoring and Impact Evaluation of Precision (Laser) Land Leveling	
11) Monitoring, Evaluation, and Impact Analysis of The Project "NPIWC-II".	

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

4.6 MATRIX OF RESPONSIBILITIES

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

CHAPTER 5: ISSUES / BOTTLENECKS

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

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

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

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

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

It is also important to mention that when ME&IE Consultants pointed out certain stuck-up cases to FPMU, a quick response was observed from FPMU vide its Letter dated 12 July 2023 and raised the issue with executing agencies to settle the issue on a priority basis.

ANNEXES A to S

ANNEXURE A: TENTATIVE WORK PLAN FOR THE QUARTER OF 2024 (APR-JUN 2024)

TENTATIVE WORK PLANNED FOR THE QUARTER (April 2024 To June 2024)												Legend	
												Activity starts	↓
												Activity Ends	↓
												Activity Span	---
No.	ACTIVITIES	3 Months-Year 2024 (Weeks)											
		April				May				June			
		WK-1	WK-2	WK-3	WK-4	WK-1	WK-2	WK-3	WK-4	WK-1	WK-2	WK-3	WK-4
1	Pre-Field Activities												
	1.1 Refresher Trainings of Field Staff for Endline Impact Surveys												
2	Field Activities												
	2.1 Regular Monitoring of Interventions in the field												
	2.2 Data collection of the interventions in the field												
	2.3 Field activities regarding Endline Impact surveys												
	2.4 Online data entry in android-based application												
3	ICT Assignment												
	3.1 Improvement/Updation 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 entry, Data cleaning, Data processing & data analysis.												
4	Coordination												
	4.1 Meetings of TL with NPC and OFWM Departments regarding Project Progress / Issues												
	4.2 Meeting of DTLs with respective DTL of PC & concerned OFWM Departments												
	4.3 ME&IE Consultants Internal Meetings												
5	Deliverable												
	5.1 Monthly Monitoring Report	↓	↓			↓	↓			↓	↓		
	5.2 Quarterly Monitoring & Evaluation Report (Jan-Mar 2024)	↓	↓										

ANNEXURE B: MATRIX OF RESPONSIBILITIES

MATRIX OF RESPONSIBILITIES

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

ANNEXURE C: MONITORING LOG-FRAME

Project Sub-components	Targets	Activities	Outputs	Outcome-1	Outcomes-2	Goals / Impact	Methodology for measuring results
C1: Organization of Water Users' Associations (WUAs)	Reactivation of existing / organization of water users' associations. Ensuring one on each target watercourse. Total WUAs ensured 47,278.	i. Community mobilization at 47,278 watercourses	i. Total 47,278 WUAs reactivated / established/registered	i. Right of way of 47,278 watercourses available ii. Skilled and unskilled labor required for watercourse improvement available iii. Construction material for civil works of watercourses procured iv. Alternate arrangement for water conveyance during construction made v. Watercourse improved	i. Disputes among the water users settled ii. Farmers branched improved iii. Water allocation made amicably iv. Maintenance of watercourses , WST and laser units done v. Cooperation among farmers increased	i. 47,278 watercourses improved and 15 percentage points conveyance losses reduced ii. Litigation among farmers reduced	i. The functioning of the WUAs will be established through sample interview surveys of WUAs members twice during the project period
C2: Watercourses Improvements	Improvement of 47,278 watercourses on cost sharing basis: 40% farmers in terms	i. Establishment of 47,278 Water users' associations (WUAs); ii. Registration	i. 47,278 WCAs established; ii. 47,278 WCAs registered; iii. 47,278 watercourses improved and lined;	i. Conveyance losses for improved watercourses decreased by about 15	i. Increase in cropping intensity on improved watercourses by 5-24%;	i. Increase in farm income; ii. Increase in employment for farm labor;	i. The water flow measurements will be carried out at before and after watercourse

Project Sub-components	Targets	Activities	Outputs	Outcome-1	Outcomes-2	Goals / Impact	Methodology for measuring results
	of labor, and 60% funded by project.	of 47,278 WUAs; iii. Improvement and realignment of earthen section of 47,278 watercourses; iv. Lining of up to 50% length of 47,278 watercourses either by: v. Precast concrete parabolic lining (PCPL) segments, or vi. Rectangular brick masonry, or any other method as approved by the project		percentage points. ii. 1.654 million households benefited from the activity; iii. 11.347 million acres served with improved watercourses	ii. Increase in crop yields. iii. Increase in irrigated area iv. Increase in agriculture output per unit of water by about 37%	iii. Reduction in poverty; iv. Enhanced food security for the country.	improvement on 2-5% sample basis; ii. Agriculture survey before and after watercourse improvement on 2-5% sample basis; iii. The survey will determine: iv. Cropping pattern before and after the improvement; v. Cropping intensities before and after improvement; ● Before and after crop yields; ● Before and after employment; vi. The difference between before and after will be

Project Sub-components	Targets	Activities	Outputs	Outcome-1	Outcomes-2	Goals / Impact	Methodology for measuring results
							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)	i. Construction of 14,932 water storage tanks	i. 14,932 small farmers mobilized to construct water storage tanks for irrigation ii. They agree to contribute 40% of the cost iii. Agree to first construct the tank with his/her own funds and then received subsidy at 40% on issuance of FCR	i. 14,932 constructed WSTs ii. 14,932 operated and maintained WSTs	i. Water which was otherwise largely going to be wasted is saved i. Irrigation provided at critical stages of the crops ii. Flexibility achieved for irrigation	i. More area irrigated ii. Increased cropping intensities	i. Increased crop yields ii. Increased total crop output quantum iii. Increased farm income iv. Increased farm employment	i. 2-5% sample of WSTs will be surveyed iii. A data collection form will be designed to measure water saving due to WSTs iv. The forms used for baseline and impact surveys in case of watercourses will also be used for WSTs v. Same data analysis will be carried out here as in case

Project Sub-components	Targets	Activities	Outputs	Outcome-1	Outcomes-2	Goals / Impact	Methodology for measuring results
							of watercourses.
C4: Provision of Land Leveling Units	i. Provision of 11,610 laser land leveling units to farmers and service providers on a cost sharing basis: 50% by farmer / service provider and 50% by the project.	i. 11,610 laser units provided to farmers / service providers; ii. Farmers trained in using the units.	i. 11,610 farmers / service providers received PLL units; ii. Farmers / service providers received training in using the units.	i. Land leveled on Farmers' / service providers' farms; vi. Land leveled on fellow farmers on rent; vii. Total 3.483million acres leveled by 11,610 units.	i. Water application efficiency increased at field level; viii. Even germination of seed. ix. Field application losses reduced by 10 percentage points x. Water productivity increased by 24%	i. Increased area under irrigated crops; ii. Enhanced crop yields iii. Increased farm income	i. The land leveling is expected to save irrigation water and result in better and even germination of seeds which can enhance crop yields. The crop yields thus affected will be reflected in agriculture sample surveys. xi. 2-4% sample units will be visited by ME&IE Consultants teams after one years of delivery xii. The unit will be verified xiii. Area treated during the

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

ANNEXURE D: DELIVERABLES / REPORTING REQUIREMENTS

Deliverables/Reporting Requirements

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

ANNEXURE E: ECOLOGICAL ZONE PHYSICAL TARGETS OF VARIOUS INTERVENTIONS FOR THIS YEAR 2023-24

Ecological Zone Wise Achievement of Watercourses by ME&IE Consultants Till 30-04-2024					
Ecological zone	Districts	W.C Completed By OFWM till 30-06-2024	Sample Size 5% ME&IE Consultants	Achievement of ME&IE Consultants	Remaining Part
Partial Irrigated Barani Zone	Bhakkar	183	9	11	-2
	Mianwali	146	7	4	3
Sub Total		329	16	15	1
Irrigated (Rice Zone)	Gujranwala	101	5	7	-2
	Hafizabad	85	4	10	-6
	Gujrat	35	2	6	-4
	Narowal	16	1	1	0
	Sialkot	84	4	5	-1
	Mandi Bahu Din	79	4	4	0
	Lahore	23	1	2	-1
	Kasur	83	4	6	-2
	Sheikhupura	99	5	8	-3
	Nankana Sahib	50	3	3	0
Sub Total		655	33	52	-19
Irrigated (Mixed Zone)	Sahiwal	145	7	8	-1
	Okara	136	7	15	-8
	Pakpatan	121	6	6	0
	Faisalabad	130	7	9	-3
	Jhang	99	5	5	0
	Chiniot	34	2	3	-1
	Toba Tek Singh	124	6	6	0
	khushab	80	4	8	-4
	Sargodha	146	7	8	-1
Sub Total		1015	51	68	-17
Irrigated (Cotton Zone)	Multan	153	8	9	-1
	DG Khan	118	6	9	-3
	Bahawalpur	154	8	9	-1
	Bahawalnagar	220	11	22	-11
	Rahim Yar Khan	331	17	18	-1
	Lodhran	154	8	15	-7
	khanewal	123	6	7	-1
	Rajanpur	119	6	6	0
	Muzaffargarh	133	7	6	1
	Layyah	126	6	8	-2
	Vehari	132	7	6	1
Sub Total		1763	88	115	-27
Grand Total		3762	188	250	-62
Updated Figure provided by Punjab OFWM Department (Completed WC till 30-04-2024)		4063	203	250	-47

Ecological Zone Wise Achievement of WSTs by ME&IE Consultants Till 30-04-2024					
Ecological zone	Districts	W.S.T Completed By OFWM till 30-06-2023	Sample Size 5% ME&IE Consultants	Achievement of ME&IE Consultants	Remaining Balance
Barani	Rawalpindi	71	4	4	0
	Attock	79	4	6	-2
	Jehlum	63	3	2	1
	Chakwal	155	8	7	1
Sub Total		368	18	19	-1
Partial Irrigated Barani Zone	Bhakkar	19	1	5	-4
	Mianwali	3	0	1	-1
Sub Total		22	1	6	-5
Irrigated (Rice Zone)	Gujranwala	1	0	1	-1
	Hafizabad	13	1	3	-2
	Gujrat	27	1	2	-1
	Narowal	0	0		0
	Sialkot	4	0	1	-1
	Mandi Bahu Din	2	0	2	-2
	Lahore	2	0	1	-1
	Kasur	7	0	2	-2
	Sheikhupura	2	0	2	-2
	Nankana Sahib	3	0	2	-2
Sub Total		61	3	16	-13
Irrigated (Mixed Zone)	Sahiwal	5	0	1	-1
	Okara	19	1	1	0
	Pakpattan	15	1	1	0
	Faisalabad	35	2	2	0
	Jhang	31	2	2	0
	Chiniot	8	0	1	-1
	Toba Tek Singh	55	3	3	0
	khushab	28	1	2	-1
	Sargodha	35	2	2	0
Sub Total		231	12	15	-3
Irrigated (Cotton Zone)	Multan	17	1	5	-4
	DG Khan	33	2	3	-1
	Bahawalpur	42	2	1	1
	Bahawalnagar	51	3	3	0
	Rahim Yar Khan	67	3	4	-1
	Lodhran	14	1	1	0
	khanewal	22	1	2	-1
	Rajanpur	10	1	1	-1
	Muzaffargarh	21	1	2	-1
	Layyah	18	1	1	0
	Vehari	14	1	1	0
Sub Total		309	15	24	-9
Grand Total		991	50	80	-30

Ecological Zone Wise Distribution of Sample Size of Laser land Leveler Till 30-06-2023					
Ecological zone	Districts	Total No of Laser Land Levelling units Delivered By OFWM till 30-06-2023	Sample Size 5% ME&IE Consultants	Achievement of ME&IE Cosultants	Remaining Part
Partial Irrigated Barani Zone	Bhakkar	191	10	5	5
	Mianwali	146	7	0	7
Sub Total		337	17	5	12
Irrigated (Rice Zone)	Gujranwala	235	12	7	5
	Hafizabad	188	9	5	4
	Gujrat	115	6	6	0
	Narowal	139	7	0	7
	Sialkot	196	10	5	5
	Mandi Bahu Din	163	8	0	8
	Lahore	97	5	0	5
	Kasur	240	12	4	8
	Sheikhupura	228	11	7	4
	Nankana Sahib	140	7	5	2
Sub Total		1741	87	39	48
Irrigated (Mixed Zone)	Sahiwal	208	10	8	2
	Okara	203	10	7	3
	Pakpatan	180	9	0	9
	Faisalabad	275	14	11	3
	Jhang	253	13	6	7
	Chiniot	159	8	0	8
	Toba Tek Singh	206	10	8	2
	khushab	118	6	8	-2
	Sargodha	219	11	6	5
Sub Total		1821	91	54	37
Irrigated (Cotton Zone)	Multan	139	7	8	-1
	khanewal	187	9	7	2
	Vehari	199	10	8	2
	Lodhran	149	7	7	0
	Bahawalpur	257	13	0	13
	Bahawalnagar	282	14	11	3
	Rahim Yar Khan	264	13	2	11
	DG Khan	123	6	7	-1
	Rajanpur	123	6	0	6
	Muzaffargarh	235	12	0	12
	Layyah	166	8	0	8
Sub Total		2124	105	50	55
Grand Total		6023	300	148	152

ANNEXURE F: PUNJAB - WATERCOURSE DATA SUBMISSION – SUMMARY

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

ANNEXURE G: PUNJAB - WSP DATA SUBMISSION – SUMMARY

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

ANNEXURE H: PUNJAB - PLL DATA SUBMISSION – SUMMARY

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

ANNEXURE I: KP - WATERCOURSE DATA SUBMISSION – SUMMARY

Division	District	Completed	Under Progress			Pending		Overall
			1st Milestone	2nd Milestone	Work Order Issued	TS Pending	Work Order Pending	
Bajaur Agency	Bajaur	64	0	0	13	6	0	83
Bajaur Agency Total		64	0	0	13	6	0	83
Bannu	Bannu	97	0	0	0	0	0	97
Bannu	Lakki Marwat	122	0	0	0	0	0	122
Bannu Total		219	0	0	0	0	0	219
D.I. Khan	D.I. Khan	453	3	0	0	0	0	456
D.I. Khan	Tank	65	0	0	0	0	0	65
D.I. Khan Total		518	3	0	0	0	0	521
Hazara	Abbottabad	30	0	1	0	0	0	31
Hazara	Battagram	49	0	0	0	0	0	49
Hazara	Haripur	74	0	0	0	0	0	74
Hazara	Lower Kohistan	7	0	0	13	1	0	21
Hazara	Mansehra	129	0	14	0	0	0	143
Hazara	Torghar	40	0	0	1	0	0	41
Hazara	Upper Kohistan	9	0	0	0	8	0	17
Hazara	Kolai Pallas	2	0	0	0	0	0	2
Hazara Total		340	0	15	14	9	0	378
Khyber Agency	Khyber	20	0	0	5	2	0	27
Khyber Agency Total		20	0	0	5	2	0	27
Kohat	Hangu	59	0	0	5	0	0	64
Kohat	Karak	80	0	0	0	0	0	80
Kohat	Kohat	92	0	0	0	0	0	92
Kohat Total		231	0	0	5	0	0	236
Kurram Agency	Kurram	7	0	0	0	0	0	7
Kurram Agency Total		7	0	0	0	0	0	7
Malakand	Buner	109	0	0	0	1	0	110
Malakand	Chitral	94	0	0	0	0	0	94
Malakand	Lower Dir	109	0	2	25	4	1	141
Malakand	Malakand	106	0	0	1	1	0	108
Malakand	Shangla	54	2	1	1	1	1	60
Malakand	Swat	283	0	1	0	0	0	284
Malakand	Upper Dir	121	2	0	0	1	0	124
Malakand Total		876	4	4	27	8	2	921
Mardan	Mardan	150	0	0	2	0	0	152
Mardan	Swabi	130	0	2	1	21	0	154
Mardan Total		280	0	2	3	21	0	306
M. Agency	Upper Mohmand	66	0	0	0	0	0	66
M. Agency	Lower Mohmand	25	0	0	0	0	0	25
M. Agency Total		91	0	0	0	0	0	91
Orakzai Agency	Orakzai	1	0	0	0	0	0	1
Orakzai Agency Total		1	0	0	0	0	0	1
Peshawar	Charsadda	137	0	0	0	1	0	138
Peshawar	Nowshera	121	0	0	1	2	0	124
Peshawar	Peshawar	75	0	0	0	2	0	77
Peshawar Total		333	0	0	1	5	0	339
S.W Agency	S.W Agency	35	0	0	0	0	0	35
S.W Agency Total		35	0	0	0	0	0	35
N.W Agency	N.W Agency	5	0	0	0	6	0	11
N.W Agency Total		5	0	0	0	6	0	11
Overall		3020	7	21	68	57	2	3175

ANNEXURE J: KP - WST DATA SUBMISSION – SUMMARY

Division	District	Completed	Under Progress			Pending		Overall
			1st Milestone	2nd Milestone	Work Order Issued	TS Pending	Work Order Pending	
Bajaur Agency	Bajaur	17	0	0	1	0	3	21
Bajaur Agency Total		17	0	0	1	0	3	21
Bannu	Bannu	12	0	0	0	0	0	12
Bannu	Lakki Marwat	35	0	0	0	0	0	35
Bannu Total		47	0	0	0	0	0	47
Dera Ismail Khan	D.I Khan	83	1	1	5	0	0	90
Dera Ismail Khan	Tank	31	0	0	0	0	0	31
Dera Ismail Khan Total		114	1	1	5	0	0	121
Hazara	Abbottabad	18	1	0	0	0	0	19
Hazara	Battagram	26	0	0	4	0	0	30
Hazara	Haripur	40	0	0	0	0	0	40
Hazara	Kolai Pallas	2	0	0	2	0	0	4
Hazara	Lower Kohistan	0	0	0	0	0	1	1
Hazara	Mansehra	44	0	3	1	0	0	48
Hazara	Torghar	17	0	0	1	0	0	18
Hazara	Upper Kohistan	7	0	0	0	0	6	13
Hazara Total		154	1	3	8	0	7	173
Khyber Agency	Khyber	10	0	0	6	0	6	22
Khyber Agency Total		10	0	0	6	0	6	22
Kohat	Karak	72	0	0	0	0	0	72
Kohat	Kohat	5	0	0	0	0	0	5
Kohat Total		77	0	0	0	0	0	77
Kurram Agency	Kurram	2	0	0	0	0	0	2
Kurram Agency Total		2	0	0	0	0	0	2
Malakand	Buner	43	0	0	0	0	0	43
Malakand	Chitral	21	0	0	0	0	0	21
Malakand	Lower Dir	21	2	4	11	1	0	39
Malakand	Malakand	24	0	0	0	0	0	24
Malakand	Shangla	43	0	0	0	1	0	44
Malakand	Swat	163	0	0	0	0	1	164
Malakand	Upper Dir	47	1	1	0	0	1	50
Malakand Total		362	3	5	11	2	2	385
Mardan	Mardan	34	0	0	0	0	0	34
Mardan	Swabi	22	0	1	0	9	0	32
Mardan Total		56	0	1	0	9	0	66
Mohmand Agenc	Lower Mohmar	31	0	0	0	0	0	31
Mohmand Agenc	Upper Mohmar	79	0	0	0	0	0	79
Mohmand Agency Total		110	0	0	0	0	0	110
Orakzai Agency	Orakzai	2	0	0	0	0	0	2
Orakzai Agency Total		2	0	0	0	0	0	2
Peshawar	Charsadda	13	0	0	1	0	0	14
Peshawar	Nowshera	56	0	0	0	0	0	56
Peshawar	Peshawar	56	0	0	0	0	0	56
Peshawar Total		125	0	0	1	0	0	126
S.W Agency	S.W Agency	32	0	0	0	0	0	32
S.W Agency Total		32	0	0	0	0	0	32
N.W Agency	N.W Agency	8	0	0	5	0	4	17
N.W Agency Total		8	0	0	5	0	4	17
Overall		1116	5	10	37	11	22	1201

ANNEXURE K: KP - PLL DATA SUBMISSION – SUMMARY

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

ANNEXURE L: BALOCHISTAN - WATERCOURSE DATA SUBMISSION – SUMMARY

Division	District	Completed	Under Progress			Pending	Overall
			1st Milestone	2nd Milestone	TS Issued	TS Pending	
Kalat	Awaran	150	0	0	0	1	151
Kalat	Kalat	281	0	0	0	1	282
Kalat	Khuzdar	165	0	0	0	0	165
Kalat	Lasbela	154	0	0	35	0	189
Kalat	Mastung	191	0	0	6	1	198
Kalat	Surab	0	0	0	19	23	42
Kalat Total		941	0	0	60	26	1027
Loralai	Barkhan	64	0	0	0	0	64
Loralai	Duki	0	0	0	43	0	43
Loralai	Loralai	335	0	0	0	5	340
Loralai	Musakhail	187	0	0	0	32	219
Loralai Total		586	0	0	43	37	666
Makran	Gwadar	23	0	0	0	0	23
Makran	Kech	59	0	0	9	64	132
Makran	Panjgur	121	0	0	33	0	154
Makran Total		203	0	0	42	64	309
Nasirabad	Jaffarabad	141	0	0	0	0	141
Nasirabad	Jhal Magsi	27	0	0	0	0	27
Nasirabad	Kachi	4	0	0	97	1	102
Nasirabad	Nasirabad	55	0	0	86	28	169
Nasirabad	Sohbatpur	79	0	0	0	0	79
Nasirabad Total		306	0	0	183	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	4	0	0	61	36	101
Rakhshan	Washuk	18	0	0	0	2	20
Rakhshan Total		125	0	0	63	78	266
Sibi	Dera Bugti	99	0	0	0	0	99
Sibi	Harnai	42	0	0	0	0	42
Sibi	Kohlu	58	0	0	0	0	58
Sibi	Sibi	60	0	0	0	0	60
Sibi	Ziarat	71	0	0	1	0	72
Sibi Total		330	0	0	1	0	331
Zhob	Killa Saifullah	235	0	0	0	0	235
Zhob	Sherani	51	0	0	0	18	69
Zhob	Zhob	80	0	0	1	0	81
Zhob Total		366	0	0	1	18	385
Overall		3236	0	0	394	253	3883

ANNEXURE M: BALOCHISTAN - WST DATA SUBMISSION – SUMMARY

Division	District	Completed	Under Progress			Pending	Overall
			1st Milestone	2nd Milestone	TS Issued	TS Pending	
Kalat	Awaran	84	0	0	1	2	87
Kalat	Kalat	177	0	0	2	0	179
Kalat	Khuzdar	139	0	0	0	0	139
Kalat	Lasbela	105	0	0	39	6	150
Kalat	Mastung	99	0	0	8	0	107
Kalat	Surab	0	0	0	29	0	29
Kalat Total		604	0	0	79	8	691
Loralai	Barkhan	54	0	0	0	0	54
Loralai	Duki	0	0	0	29	0	29
Loralai	Loralai	113	0	0	0	0	113
Loralai	Musakhel	26	0	0	0	11	37
Loralai Total		193	0	0	29	11	233
Makran	Gwadar	7	0	0	0	0	7
Makran	Kech	35	0	0	18	46	99
Makran	Panjgur	46	0	1	121	1	169
Makran Total		88	0	1	139	47	275
Nasirabad	Jaffarabad	17	0	0	0	0	17
Nasirabad	Jhal Magsi	30	0	0	0	0	30
Nasirabad	Kachi	36	0	0	46	0	82
Nasirabad	Nasirabad	0	0	0	17	0	17
Nasirabad	Sohbatpur	14	0	0	0	0	14
Nasirabad Total		97	0	0	63	0	160
Quetta	Killa Abdullah	55	0	0	0	1	56
Quetta	Pishin	107	0	0	10	2	119
Quetta	Quetta	75	0	1	0	0	76
Quetta Total		237	0	1	10	3	251
Rakhshan	Chaghi	33	0	0	0	14	47
Rakhshan	Kharan	15	0	0	13	8	36
Rakhshan	Nushki	0	0	0	53	9	62
Rakhshan	Washuk	4	0	0	8	2	14
Rakhshan Total		52	0	0	74	33	159
Sibi	Dera Bugti	38	0	0	1	0	39
Sibi	Harnai	21	0	0	0	0	21
Sibi	Kohlu	35	0	0	0	0	35
Sibi	Sibi	23	0	0	0	0	23
Sibi	Ziarat	21	0	0	0	0	21
Sibi Total		138	0	0	1	0	139
Zhob	Killa Saifullah	117	0	0	0	0	117
Zhob	Sherani	25	0	0	0	0	25
Zhob	Zhob	85	0	0	0	0	85
Zhob Total		227	0	0	0	0	227
Overall		1636	0	2	395	102	2135

ANNEXURE N: BALOCHISTAN - PLL DATA SUBMISSION – SUMMARY

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

ANNEXURE O: GB - WATERCOURSES DATA SUBMISSION – SUMMARY

Division	District	Completed	Under Progress		Overall
			TS Issued	TS Pending	
Gilgit	Astore	44	0	0	44
Gilgit	Diamer	125	0	0	125
Gilgit	Ghizer	102	0	0	102
Gilgit	Gilgit	109	0	0	109
Gilgit	Hunza	35	0	0	35
Gilgit	Nagar	30	0	0	30
Gilgit Total		445	0	0	445
Skardu	Ghanche	113	0	0	113
Skardu	Kharmang	42	0	0	42
Skardu	Shigar	68	0	0	68
Skardu	Skardu	141	0	0	141
Skardu Total		364	0	0	364
Overall		809	0	0	809

ANNEXURE P: GB - WST DATA SUBMISSION – SUMMARY

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

ANNEXURE Q: AJK- WATERCOURSES DATA SUBMISSIONS – SUMMARY

Division	District	Completed	Under Progress			Pending		Overall
			1st Milestone	2nd Milestone	Work Order Issued	TS Pending	Work Order Pending	
MZD	MZD	103	0	0	13	7	0	123
	Jhelum	29	1	0	12	0	1	43
	Neelum	61	5	0	7	0	0	73
MZD Total		193	6	0	32	7	1	239
Poonch	Poonch	43	0	0	11	0	0	54
	Bagh	29	1	0	8	1	0	39
	Haveli	10	1	0	4	0	0	15
	Sudhnoti	23	0	0	14	0	2	39
Poonch Total		105	2	0	37	1	2	147
Mirpur	Mirpur	77	0	0	9	0	14	100
	Bhimber	121	0	0	36	0	0	157
	Kotli	42	0	0	8	0	3	53
Mirpur Total		240	0	0	53	0	17	310
Overall		538	8	0	122	8	20	696

ANNEXURE R: AJK - WST/WHs DATA SUBMISSIONS – SUMMARY

Division	District	Completed	Under Progress			Pending		Overall
			1st Milestone	2nd Milestone	Work Order Issued	TS Pending	Work Order Pending	
MZD	MZD	144	1	0	16	0	0	161
	Jhelum	24	0	0	1	2	0	27
	Neelum	0	0	0	1	1	0	2
MZD Total		168	1	0	18	3	0	190
Poonch	Poonch	58	0	1	14	0	0	73
	Bagh	48	0	0	31	0	0	79
	Haveli	29	0	0	5	2	0	36
	Sudhnoti	24	1	0	24	0	0	49
Poonch Total		159	1	1	74	2	0	237
Mirpur	Mirpur	12	0	0	4	0	0	16
	Bhimber	12	0	0	8	0	0	20
	Kotli	36	0	0	8	0	14	58
Mirpur Total		60	0	0	20	0	14	94
Overall		387	2	1	112	5	14	521

ANNEXURE S: ICT - WATERCOURSE DATA SUBMISSION – SUMMARY

Division	District	Completed	Under Progress				Overall
			1st Milestone	2nd Milestone	Work Order Issued	Work Order Pending	
ICT	ICT	41	0	0	0	0	41
Overall		41	0	0	0	0	41