



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

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

MONITORING, EVALUATION
AND IMPACT EVALUATION
CONSULTANTS

MONTHLY MONITORING REPORT

JULY 2023



LOCATION OF WATERCOURSE ON CHANNEL

TYPE OF WATERCOURSE LINING



A Joint Venture of
G3 Engineering Lead Firm
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
July 2023

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ACRONYMS

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

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

EXECUTIVE SUMMARY

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

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

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

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

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

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

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

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

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

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

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

The detailed time span for the 3rd quarter of year 2023 is provided in the Tentative Work Plan **Annex-A**.

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

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

| No. | Activities Planned for the Reporting Quarter | | Status |
|----------|--|--|----------------|
| 1 | Pre-Field Activities | | |
| 1.1 | Validation of Baseline and Impact Survey | In Progress | |
| 1.2 | Preparation for 3rd-Phase Baseline Survey (Finalization of MTs) | In Progress | |
| 1.3 | Internal Meetings of ME&IE Consultants' Zonal Offices for development of Methodology for 3rd Phase Baseline Survey | In Progress | |
| 1.4 | Training of Field Staff for Impact Survey and 3rd-Phase Baseline Survey | In Progress | |
| 2 | Field Activities: | | |
| 2.1 | Regular Monitoring of Interventions in the field | In Progress | |
| 2.2 | Field Visits for Impact Survey | In Progress | |
| 2.3 | Data collection of the interventions in the field | In Progress | |
| 2.4 | Baseline Survey Stage III | Pending | |
| 2.5 | Online data entry in android-based application | In Progress | |
| 3 | ICT Assignment: | | |
| 3.1 | Development / Improvement of website of NPIWC-II | In Progress | |
| 3.2 | Monitoring online data collection and Data entry | In Progress | |
| 3.3 | Monitoring Android based Mobile Application under implementation by field staff. | In Progress | |
| 3.4 | Data collection of interventions in MIS/GIS database | In Progress | |
| 3.5 | Capacity Building Trainings / Refresher of Departments | In Progress | |
| 3.6 | Data Cleaning. Development & Launching of Dashboard for Client Offices | In Progress | |
| 4 | Coordination | | |
| 4.1 | Meetings of TL, ME&IE Consultants with NPC regarding Project Progress / Issues | Meetings conducted on regular basis | |
| 4.2 | Meeting of DTLs with respective DTL of NWMC | Meetings conducted on regular basis | |
| 4.3 | Internal Meetings of ME&IE Consultants | Weekly meetings conducted on regular basis | |
| 5 | Deliverables: | | |
| 5.1 | Monthly Monitoring Reports (MMRs) | 30 th MMR (June 2023) | Submitted |
| | | 31 st MMR (July 2023) | Report in hand |
| 5.2 | Quarterly Monitoring & Evaluation Report (QM&ER) | QM&ER April-June 2023 | Under process |
| 5.3 | Consolidation Report of Baseline Survey Phase-1&II | Under preparation | |
| 5.4 | Consolidation Report of Midterm Impact Survey | Under preparation | |

CHAPTER-1: PROJECT INTRODUCTION

1.1 PROJECT PROFILE

This section covers the following detail of the project:

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

1.2 PROJECT DESCRIPTION

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

1.2.1 Project Development Objectives

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

1.2.2 Project Objectives – General & Quantitative

Following is the project general and quantitative:

1) General Objectives:

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

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

2) Quantitative Objectives' Outputs and Impacts:

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

Project outputs

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

(approx. saving of 123 acre-feet (AF) per watercourse per annum).

iii) Construction of 14,932 water storage tanks with 60% subsidy through cost sharing arrangements with the expectation to save about 50% irrigation water for wheat and about 68% of irrigation water for paddy crops.

Project impacts

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

Project indirect benefits to industry/economic activities

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

Awareness support to farmers

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

1.2.3 Project Beneficiaries

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

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

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

1.2.4 Project Components

The NPIWC-II project comprises four components.

C1: ORGANIZATION OF WATER USERS ASSOCIATIONS:

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

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

C2: WATERCOURSE IMPROVEMENTS:

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

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

C3: CONSTRUCTION OF WATER STORAGE TANKS:

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

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

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

C4: PROVISION OF LASER LAND LEVELING UNITS:

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

1.2.5 Project Targets

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

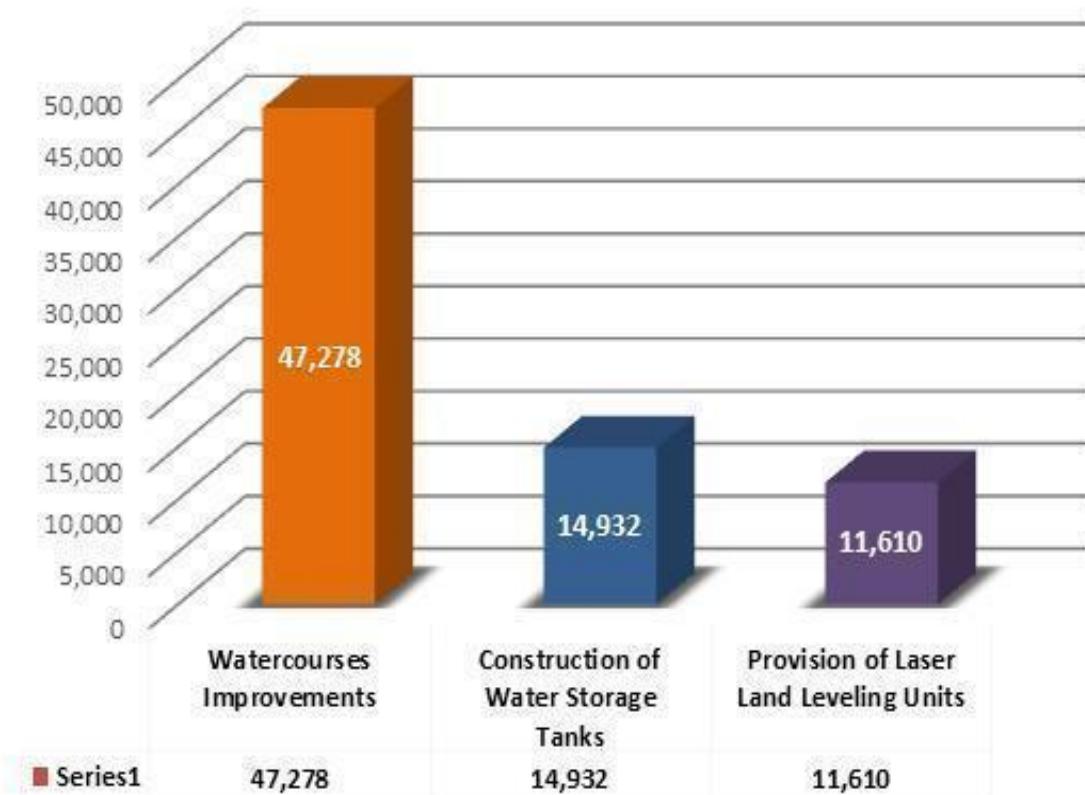


Figure 1.1: NPIWC-II Project WCs, WSTs, and LLL Targets in Pakistan

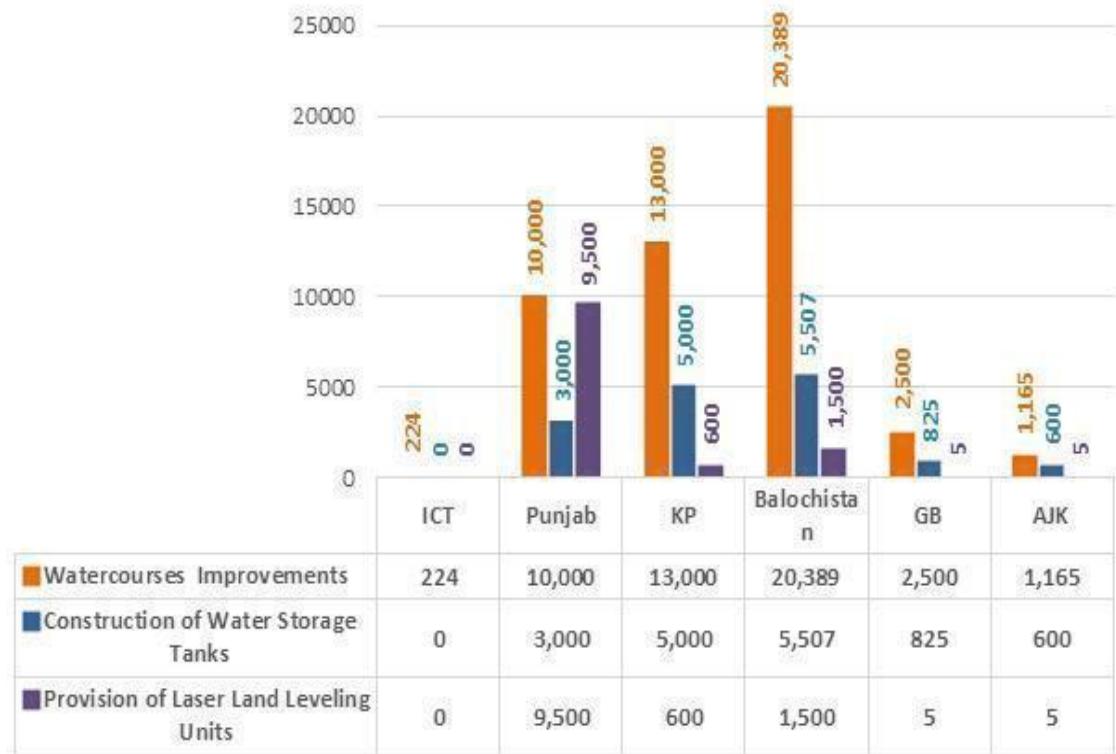


Figure 1 2: Zone-Wise WCs Improvement, WSTs, and LLL Target

CHAPTER 2: SCOPE AND SERVICES OF ME&IE CONSULTANTS

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

2.1 OBJECTIVES OF CONSULTING SERVICES

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

2.2 SCOPE OF CONSULTING SERVICES

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

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

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

The said requirement is based on the following functional features:

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

2.3 MONITORING STRATEGY OF CONSULTANTS

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

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

Table 2: Monitoring Strategy for ME&IE Activities

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

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

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

| Sr. No. | Monitoring Activity | ME&IE Team Responsible | Monitoring Strategy |
|---------|--|-----------------------------|---|
| | | | <ul style="list-style-type: none">Custom reports will be possible as the user demands / desiresThe results could be displayed on small as well as large screens. |
| 11 | Development of Android based application | ICT / Technology Specialist | All the data collection forms / tools will be executed through customized developed Android based applications accessible with smart phones / TABs. |

2.4 FRAMEWORK AND RESULTS-BASED MONITORING (RBM) INDICATORS

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

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

CHAPTER 3: CONSULTANTS' ACTIVITIES DURING THE REPORTING MONTH

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

3.1 SUBMISSION OF MONTHLY MONITORING REPORT (MMR)

As per contractual obligation, the consultants have submitted thirtieth MMR (June 2023). While the thirty first MMR (the Report in hand) for the month of July 2023 (1st July 2023 to 31st July 2023) will be submitted in stipulated time i.e., in the 1st week of the current month.

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

3.2 BASELINE SURVEY I&II CONSOLIDATED REPORT

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

3.3 VALIDATION OF BASELINE AND IMPACT SURVEY

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

3.4 ACTIVITIES ICT UNIT –JULY 2023

3.4.1 OVERALL PROGRESS:

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

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

| | |
|---|--|
| Date | 31-07-2023 |
| Venue | Agri. Complex, Islamabad |
| Participants | |
| i. | Engr. Ghufran Shehzad, Dty. Dir. AE, ICT- Zone. |
| ii. | Dr. Ikram Saeed, DTL, ICT-Unit, National Office |
| iii. | Mr. Rasheed Ahmed Zehri, FTI, ICTMs. Sana Gull, ME & IE Officer, ICT. |
| iv. | Ms. Hafiza Maryam Iqbal, ME & IE Officer, IC |
| v. | Ms. Sana Gul, ME&IE Officer, ICT-Unit |
| Meeting Agenda/Points discussed: | |
| • | Debriefing on the status of WC improvements and its O&M aspects. |
| • | Discussion on field visit plan for next surveys. |
| • | Meeting held with deputy Director, Agri. Extension for seeking the basic data that required before initiating the baseline survey. |
| • | Sharing data and list of new interventions with beneficiaries initiated during 2022-23. |



ME&IE Consultants in discussion with Deputy Director Agri. Extension at ICT Agriculture Complex, Islamabad

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

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

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

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

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

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

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

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



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

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

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

3.5 ACTIVITIES PUNJAB ZONE – JULY 2023

3.5.1 Consultants Activities during the Reporting Month

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

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

3.5.2 Pre-Field Activities

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

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

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

Year wise Physical Target and Achievements of various Interventions in Punjab

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

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

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

Source: OFWM, Lahore

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



Target and Achievements of Improvement of Watercourses Intervention



Target and Achievements of Water Storage Tanks / Pounds Intervention



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

3.5.3 Field Activities

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

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

3.5.4 Coordination/ Meeting with Stakeholder/ Beneficiaries

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

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

| | |
|-------|---|
| Date: | July 25, 2023 |
| Venue | Director General OFWM Office Davis Road, Lahore |

Participants:

Mr. Tahir Mehmood. Focal Person of DGA OFWM/ DDA Headquarters (OFWM) DDA Climate Change

- Muhammad Yousaf Bhatti, Deputy Team Leader ME&IE Consultants Punjab zone Lahore
- Mr. Awais Jahangeer, Focal Person to DGA OFWM, ME&IE Consultants Punjab Zone Lahore

Discussions/Decisions

- Deputy Team Leader, ME&IE Consultants briefed about the ongoing activities of consultants, He shared the overall performance and achievements. Focal Person of DGA OFWM appreciated the efforts of ME&IE Consultants.
- Focal Person to DGA OFWM office ME&IE Consultants shared the plan for upcoming field visits for the impact and baseline-3 survey of Watercourses, Water storage ponds and Laser Land Leveler all over the Punjab.
- Focal Person to DGA OFWM office ME&IE Consultants requested for the coordinates of completed watercourses under NPIWC-II to update on PMIS Dashboard. On this matter Focal Person of DGA OFWM responded that coordinates will be provided in next 2 days.
- Focal Person of DGA OFWM. Shared the intervention wise performance and achievements of the project till 30-06-2023 which is excellent even there was lot of limitations like financial constraints.
- Focal Person to DGA OFWM Office ME&IE Consultants requested for the data relevant to Laser Land Leveler to highlight the financial contribution by the government and the economic impact of activity. Focal Person of DGA OFWM ensured his full cooperation for the matter and showed his consent to provide the data at earliest.



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

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

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

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

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

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

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

Respondent 1

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



ME&IE consultants team interviewing the service provider Mubarak Ali

Respondent 2

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



ME&IE consultants team interviewing the service provider Imtiaz Hussain



A view of Laser Land Leveler in operation in Village Kariwala

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

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

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

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

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

3.6 ACTIVITIES KP ZONE – JULY 2023

3.6.1 Updated Progress – July 2023

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

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

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

3.6.2 Meetings:

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

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

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



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

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

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

Agenda of the meeting was to review/verify the:

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

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

Pictures of the meeting are placed below.



Coordination meeting with PMU KP Peshawar

Monitoring of data: Trainings have been imparted to the officials of the OFWM Department for data entry to the Dashboard. Now they are directly entering the data on android application. The ICT Manager KP zone strictly monitors data entries and make necessary rectification by guiding the concerned staff of the various districts of KP.

Verification of WC and WSTs through Google Earth: ME&IE consultants KP zone made verification of all watercourses, and water storage tank schemes coordinate through Google Earth and identified incorrect coordinates.

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

3.6.3 Field surveys

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

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

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

3.6.4 Data Entry and GPS validation

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

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

3.6.5 Capacity Building of OFWM staff on Android Application

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

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

3.7 ACTIVITIES DONE BY BALOCHISTAN ZONE – JULY 2023

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

3.7.1 Updated Progress Of ME&IE Consultants – Balochistan

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

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

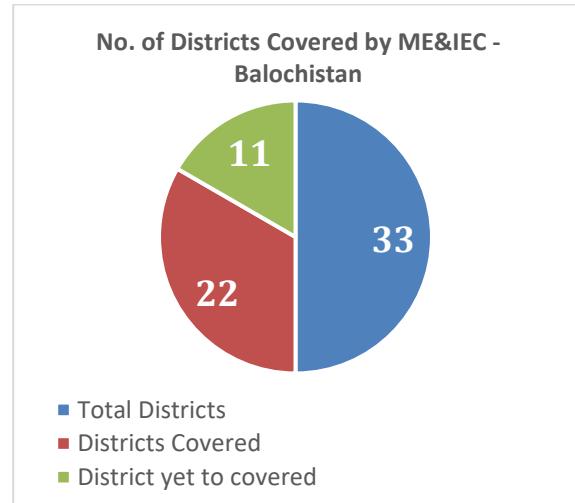


Figure 3. 2: No of Districts Covered by ME &IE – Balochistan

3.7.2 Field Visits, Balochistan Zone:

Field Visit 1 on 07-07-2023

Monitored by Manzoor Ahmed, DTL Balochistan.

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



Field Visit Pics



Field Visit Pics

Field Visit 3 on 07-07-2022

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



Field Visit 2 on 07-07-2022

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



Field Visit Pics



Field Visit Pics

Field Visit 4 on 07-07-2022

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



3.7.3 Success Story:

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



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

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

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

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

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

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

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

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

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



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



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

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

3.7.4 Updated Status Of Dashboard Balochistan.

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

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

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

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

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

| Division | District | 2019-20 | | 2020-21 | | 2021-22 | | TOTAL | |
|--------------|----------|-------------------------------|-------------------|-------------------------------|-------------------|-------------------------------|-------------------|-------------------------------|-------------------|
| | | Total Data uploaded by ME&IEC | Validated by OFWM | Total Data uploaded by ME&IEC | Validated by OFWM | Total Data uploaded by ME&IEC | Validated by OFWM | Total Data uploaded by ME&IEC | Validated by OFWM |
| Kalat | Awaran | 140 | 76 | 22 | 22 | 0 | 0 | 162 | 98 |
| Kalat | Kalat | 97 | 0 | 28 | 28 | 158 | 123 | 283 | 151 |
| Kalat | Khuzdar | 139 | 0 | 17 | 0 | 9 | 6 | 165 | 6 |
| Kalat | Lasbela | 110 | 0 | 35 | 0 | 44 | 35 | 189 | 35 |
| Kalat | Mastung | 102 | 93 | 30 | 1 | 66 | 60 | 198 | 154 |
| Kalat | Surab | 20 | 20 | 11 | 11 | 11 | 11 | 42 | 42 |
| Total | | 608 | 189 | 143 | 62 | 288 | 235 | 1039 | 486 |
| (%) | | 31% | | 43% | | 82% | | 47% | |
| Loralai | Barkhan | 61 | 0 | 0 | 0 | 3 | 0 | 64 | 0 |
| Loralai | Duki | 27 | 27 | 15 | 15 | 1 | 1 | 43 | 43 |

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

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

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

| Division | District | 2019-20 | | 2020-21 | | 2021-22 | | TOTAL | |
|----------|----------|-------------------------------|-------------------|-------------------------------|-------------------|-------------------------------|-------------------|-------------------------------|-------------------|
| | | Total Data uploaded by ME&IEC | Validated by OFWM | Total Data uploaded by ME&IEC | Validated by OFWM | Total Data uploaded by ME&IEC | Validated by OFWM | Total Data uploaded by ME&IEC | Validated by OFWM |
| Kalat | Awaran | 12 | 12 | 27 | 27 | 48 | 0 | 87 | 39 |
| Kalat | Kalat | 20 | 2 | 32 | 32 | 127 | 65 | 179 | 99 |
| Kalat | Khuzdar | 20 | 0 | 30 | 0 | 89 | 68 | 139 | 68 |
| Kalat | Lasbela | 20 | 0 | 24 | 0 | 106 | 45 | 150 | 45 |
| Kalat | Mastung | 20 | 18 | 32 | 2 | 55 | 12 | 107 | 32 |

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

DATA VALIDATION STATUS (WC) - 31ST JULY 2023

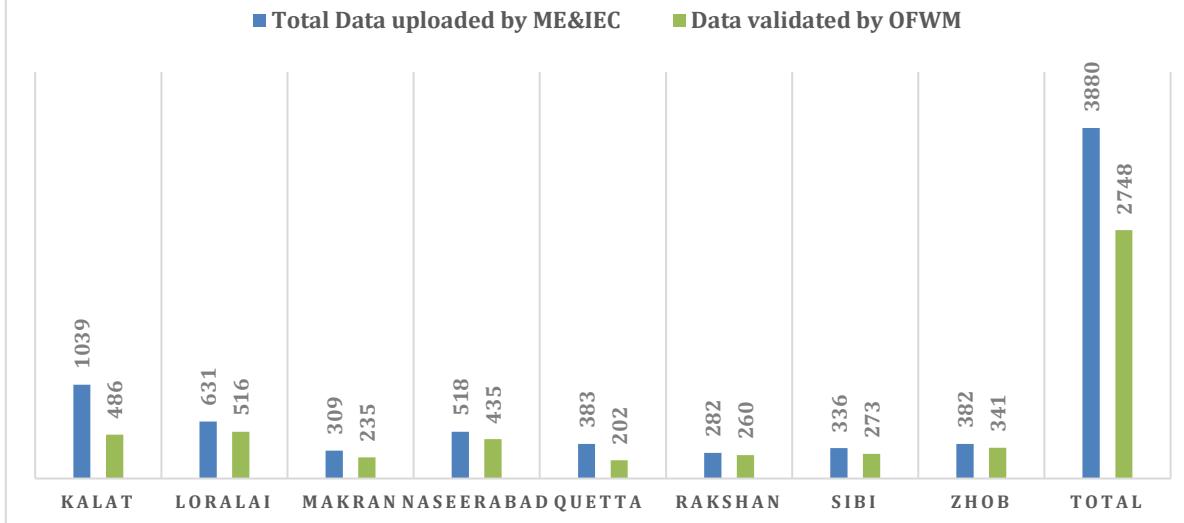


Figure 3. 3: Division-wise Graphical Progress of Dashboard, Balochistan (Watercourses)

DATA VALIDATION STATUS (WST) - 31ST JULY 2023

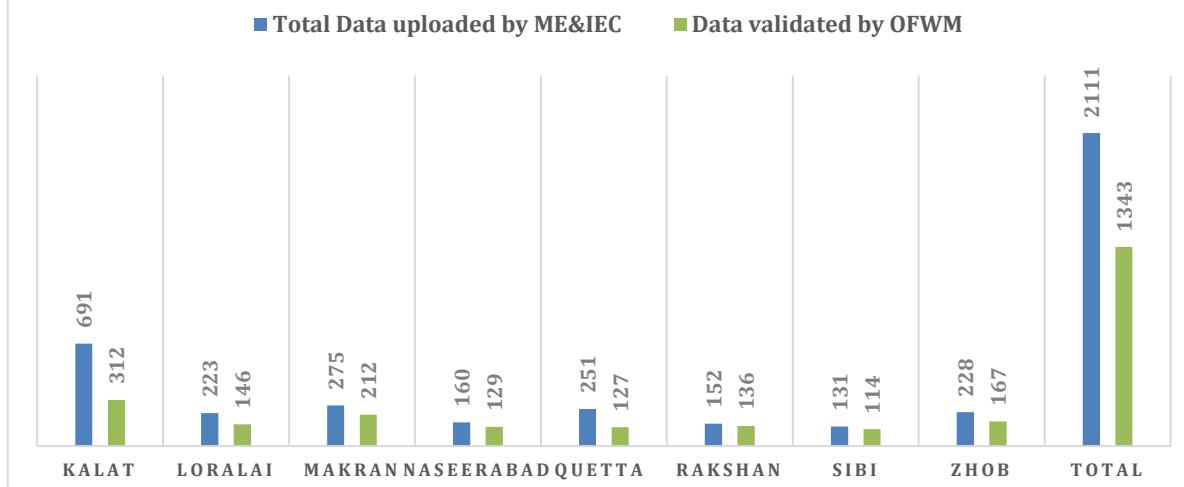


Figure 3. 4: Division-wise Graphical Progress of Dashboard, Balochistan (Water Storage Tank)

3.7.6 MEETINGS:

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

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



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

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

contribute to and benefit from agricultural development initiatives.



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

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

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

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

| |
|--|
| <ul style="list-style-type: none"> The DTL, Balochistan and SGS attended the meeting and discussed the issues related to Social and Gender and women participation in agriculture activities. |
|  |

Meeting with DD OFWM, District Quetta.

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

View of meeting with DTL, Balochistan, Project Consultants, Quetta

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

| Meeting Agenda/Points discussed: | |
|--|--|
| <ul style="list-style-type: none"> • A meeting was held with DD, OFWM, Usta Muhammad in his good office. • The beneficiary data of current financial year were discussed • The updated status of dashboard, Balochistan was also discussed. | |
|  | |
|  | |
| <p>Farewell Party in honor of DTL, Balochistan.</p> | |

| Date | 19 th July 2023 |
|---|---|
| Venue | DG, OFWM Office, Rani Bagh, Sariab Road, Quetta |
| Participants | |
| <ul style="list-style-type: none"> i) The worthy DG, OFWM, Agriculture Department, Govt. of Balochistan, Quetta. ii) Mr. Manzoor Ahmed Kasi, DTL, ME&IE Consultants, NPIWC-II, Balochistan, Quetta iii) Mr. Qaisar, M&E Officer, ME&IE Consultants, NPIWC-II, Balochistan. | |
| Meeting Agenda/Points discussed: | |
| <ul style="list-style-type: none"> • A meeting was among DG, OFWM, Balochistan and ME&IEC staff regarding data provision of F.Y. 2022-23 and Dashboard pending data. | |
|  | |
| <p>A meeting was held with DG, OFWM, Balochistan in his good office, Quetta.</p> | |

| Date | 25 th July 2023 |
|--|---|
| Venue | DG, OFWM Office, Rani Bagh, Sariab Road, Quetta |
| Participants | |
| <ul style="list-style-type: none"> i) Mr. Behram Mulghani, Focal Person, OFWM, Balochistan, Quetta ii) Mr. Manzoor Ahmed Kasi, DTL, ME&IE Consultants, NPIWC-II, Balochistan, Quetta | |
| Meeting Agenda/Points discussed: | |
| <ul style="list-style-type: none"> • The Focal Person, OFWM, Agriculture Department shared missing TS of previous F.Y.s and other relevant data required with ME&IE Consultants. | |
|  | |
| <p>Meeting with Focal Person, OFWM, Balochistan, Quetta.</p> | |

3.8 SOCIAL & GENDER COMPONENT

3.8.1 Quetta Visit Report

Purpose of Visit:

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

Social and gender specialist visit to the Quetta office from 13th to 15th July 2013. S&G specialist is warmly welcomed by the Balochistan team. An introductory session was held with the team. Mr. Manzoor Ahmed Kasi, Deputy Team Leader, delivered a detailed summary on the overall progress of the Balochistan Zone. He also underlines the difficulties and shortcomings in the Balochistan zone.

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

- Meeting with Government officials
- Case study

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

Recommendation

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

Social & Gender Work Meetings

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



S&G specialist with Technical resource person and DTL Balochistan

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

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



ME&IE consultants with Deputy Director OFWM Quetta



ME & IE consultants with Deputy team leader Balochistan NWMC Balochistan

| | |
|---|---|
| Date | 13-07-2023 |
| Venue | Agriculture Office, Quetta |
| Participants | |
| i) | Mrs. Dur-e- Seemi, Director Women Division Agriculture Extension. |
| ii) | Ms. Abida Munir, S&G specialist. |
| Meeting Agenda/Points discussed: | |
| • | Introduction of Women Division Agriculture Extension |
| • | Income generation |
| • | Capacity building for rural women |



Social & Gender specialist with Director Women Division Agriculture Extension

| | |
|---|---|
| Date | 13-07-2023 |
| Venue | Agriculture Office, Quetta |
| Participants | |
| 1. | Mrs. Dur-e- Seemi, Director Women Division Agriculture Extension. |
| 2. | Ms. Abida Munir, S&G specialist. |
| Meeting Agenda/Points discussed: | |
| • | Introduction on NWMC, |
| • | Gender role in Agriculture. |

3.9 ICT TEAM ASSIGNMENTS

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

3.9.1 Data Collection of Interventions in MIS/GIS Database

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

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

3.9.2 Implementation Of MIS Dashboard

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

The progress of Interventions is live on the Dashboard application.

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

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

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

| Punjab – WSP Data Summary | | | | |
|---------------------------|---------|---------|---------|---------|
| Division | 2019-20 | 2020-21 | 2021-22 | Overall |
| Gujrat | 2 | 10 | 29 | 41 |
| Lahore | 0 | 9 | 5 | 14 |
| Multan | 16 | 25 | 26 | 67 |
| Rawalpindi | 0 | 174 | 194 | 368 |
| Sahiwal | 9 | 15 | 15 | 39 |
| Sargodha | 6 | 32 | 47 | 85 |
| Bahawalpur | 23 | 46 | 91 | 160 |
| Overall | 107 | 393 | 491 | 991 |

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

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

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

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

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

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

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

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

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

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

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

| Balochistan – WC Data Summary | | | | | |
|-------------------------------|-------------|------------|-------------|-----------|-------------|
| Division | 2019-20 | 2020-21 | 2021-22 | 2022-23 | Overall |
| Kalat | 597 | 143 | 287 | 0 | 1027 |
| Loralai | 344 | 148 | 137 | 28 | 657 |
| Makran | 204 | 56 | 49 | 0 | 309 |
| Nasirabad | 216 | 111 | 191 | 0 | 518 |
| Quetta | 244 | 50 | 87 | 0 | 381 |
| Rakhshan | 126 | 58 | 82 | 0 | 266 |
| Sibi | 184 | 59 | 88 | 0 | 331 |
| Zhob | 232 | 69 | 81 | 0 | 382 |
| Overall | 2147 | 694 | 1002 | 28 | 3870 |

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

3.9.3 On-Going Data Validation & Cleaning

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

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

CHAPTER 4: QUARTERLY WORK PLAN- ACTIVITIES (JULY 2023 TO SEPTEMBER 2023)

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

4.1 PRE FIELD-ACTIVITIES

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

4.2 FIELD ACTIVITIES

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

4.3 ICT ASSIGNMENT

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

4.4 COORDINATION

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

4.5 DELIVERABLES

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

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

| Document | Status |
|---|----------------------------------|
| Draft Inception Report | Submitted |
| Final Inception Report | Submitted |
| Monthly Monitoring Report-First (DEC 2020-JAN 2021) | Submitted |
| Monthly Monitoring Report-Second (FEB 2021) | Submitted |
| Monthly Monitoring Report-Third (MAR 2021) | Submitted |
| Quarterly Monitoring & Evaluation Report-First (JAN-MAR 2021) | Submitted |
| Monthly Monitoring Report-Fourth (APR 2021) | Submitted |
| Monthly Monitoring Report-Fifth (MAY 2021) | Submitted |
| Monthly Monitoring Report-Sixth (JUNE 2021) | Submitted |
| Quarterly Monitoring & Evaluation Report-Second (APR-JUN 2021) | Submitted |
| Monthly Monitoring Report-Seventh (JULY) | Submitted |
| Monthly Monitoring Report-Eighth (AUG 2021) | Submitted |
| Annual Monitoring & Evaluation Report (1 st) | Submitted |
| Baseline Survey Report-I | Submitted |
| Monthly Monitoring Report-Ninth (SEPTEMBER 2021) | Submitted |
| Quarterly Monitoring & Evaluation Report-Third (JULY - SEPTEMBER 2021) | Submitted |
| Monthly Monitoring Report-Tenth (OCTOBER 2021) | Submitted |
| Monthly Monitoring Report-Eleventh (NOVEMBER 2021) | Submitted |
| Monthly Monitoring Report-Twelfth (DECEMBER 2021) | Submitted |
| Quarterly Monitoring & Evaluation Report-Fourth Quarter year 2021 (OCTOBER – DECEMBER 2021) | Submitted |
| Monthly Monitoring Report-Thirteenth (JANUARY 2022) | submitted within stipulated time |

| Document | Status | Document | Status |
|--|----------------------------------|---|-------------------|
| Monthly Monitoring Report-Fourteenth (MARCH 2022) | submitted within stipulated time | Monthly Monitoring Report-Twenty Seventh (March 2023) | Submitted |
| Monthly Monitoring Report-Fifteen (MARCH 2022) | submitted within stipulated time | Monthly Monitoring Report-Twenty Seventh (April 2023) | Submitted |
| Quarterly Monitoring & Evaluation Report-First Quarter year 2022 (JANUARY – MARCH 2022) | submitted within stipulated time | Quarterly Monitoring & Evaluation Report-1 st Quarter year 2023 (JAN – MAR 2023) | Submitted |
| Monthly Monitoring Report-Sixteen (APRIL 2022) | submitted within stipulated time | Monthly Monitoring Report-Twenty-Eight (May 2023) | Submitted |
| Monthly Monitoring Report-Seventeenth (MAY 2022) | submitted within stipulated time | Monthly Monitoring Report-Twenty-Ninth (June 2023) | Submitted |
| Monthly Monitoring Report-EIGHTEENTH (JUNE 2022) | Submitted within stipulated time | Monthly Monitoring Report-Thirty (July 2023) | Under preparation |
| Quarterly Monitoring & Evaluation Report-2 nd Quarter year 2022 (APRIL – JUNE 2022) | submitted within stipulated time | Quarterly Monitoring & Evaluation Report-1 st Quarter year 2023 (Apr – Jun 2023) | Under preparation |
| Annual Monitoring & Evaluation Report (2 nd) Jul 2021-June 2022 | Submitted within stipulated time | Baseline Survey Report -I | Submitted |
| Monthly Monitoring Report-Nineteenth (JULY 2022) | Submitted within stipulated time | Baseline Survey Report - II | Submitted |
| Monthly Monitoring Report-Twentieth (AUGUST 2022) | Submitted within stipulated time | Baseline Survey Report-II (Updated version WC) | Submitted |
| Monthly Monitoring Report-Twenty First (SEPTEMBER 2022) | Submitted within stipulated time | Baseline Survey Report -II (Draft version of WSTs) | Submitted |
| Quarterly Monitoring & Evaluation Report-3 rd Quarter year 2022 (JUL – SEP 2022) | Submitted within stipulated time | Baseline Survey Report -II (LLS) | Submitted |
| Monthly Monitoring Report-Twenty Second (OCTOBER 2022) | Submitted within stipulated time | Mid-Line Monitoring & Impact Evaluation Report | Submitted |
| Monthly Monitoring Report-Twenty Third (NOVEMBER 2022) | Submitted within stipulated time | Survey Manual (Final version) (Special Reports) | Submitted |
| Monthly Monitoring Report-Twenty Fourth (DECEMBER 2022) | Submitted | Special Reports submitted: 1) Monitoring Tools 2) Survey Manual on MTs 3) PAM 4) Working Paper on Technology and Methodology for Implementation of Android Based Field Progress Data Collection and GIS Based Progress Monitoring Analytical Dashboard. 5) Baseline-Endline Manual Survey Manual 6) Android Application PMIS Dashboard Manual | Submitted |
| Monthly Monitoring Report-Twenty Fifth (JANUARY 2023) | Submitted | | |
| Monthly Monitoring Report-Twenty Sixth (FEBRUARY 2023) | Submitted | | |

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

4.6 MATRIX OF RESPONSIBILITIES

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

CHAPTER 5: ISSUES / BOTTLENECKS

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

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

| Days | Departments |
|-------------|--------------------|
| 100 to 119 | District |
| 120 to 149 | Division |
| 150 to 164 | NPC/DDPC |

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

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

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

ANNEXES A to T

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

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

ANNEXURE-B: MATRIX OF RESPONSIBILITIES

MATRIX OF RESPONSIBILITIES

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

| LEGEND | | | | |
|------------------------|--------------------------|------------|------------------------|--------------------------|
| ● | ○ | ○ | ● | ○ |
| Primary Responsibility | Secondary Responsibility | Assistance | Primary Responsibility | Secondary Responsibility |
| ● | ○ | ○ | ● | ○ |
| ○ | ● | - | - | - |
| - | - | - | ● | - |
| - | - | - | ● | - |
| - | - | - | ● | - |
| - | - | - | ● | - |
| - | - | - | ● | - |
| - | - | - | ● | - |
| - | - | - | ● | - |
| - | - | - | ● | - |
| - | - | - | ● | - |
| - | - | - | ● | - |
| - | - | - | ● | - |
| - | - | - | ● | - |
| - | - | - | ● | - |
| - | - | - | ● | - |

ANNEXURE-C: MONITORING LOG-FRAME

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

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

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

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

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

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

ANNEXURE-D: DELIVERABLES/REPORTING REQUIREMENTS

Deliverables/Reporting Requirements

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

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

WATER COURSES IMPACT SURVEY FIELD SCHEDULE - ZONE/UNIT WISE

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

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

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

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

| Impact Survey Date | Team.# | WC ID | Zone | District | Watercourse Scheme Name | Category of WC Improvement | Type of Lining | Type of Irrigation Source | Non Canal Source |
|--------------------|--------|-------------|------|--------------|--------------------------------|----------------------------|----------------|---------------------------|------------------|
| 03/07/2023 | 1 | 1503311002 | AJK | Mirpur | Daramir Shah Sehnse | Regular (New) | PCC | Non-Canal Command Area | Tube Well |
| 04/07/2023 | 1 | 15033112033 | AJK | Mirpur | Mohri | Regular (New) | PCPL | Canal Command Area | |
| 04/07/2023 | 1 | 15033112054 | AJK | Mirpur | Chapran-2 | Regular (New) | PCPL | Non-Canal Command Area | Other Source |
| 05/07/2023 | 1 | 15033112014 | AJK | Mirpur | Akbarabad | Regular (New) | PCPL | Non-Canal Command Area | Tube Well |
| 05/07/2023 | 1 | 15033112018 | AJK | Mirpur | Dalyala | Regular (New) | PCPL | Non-Canal Command Area | Tube Well |
| 06/07/2023 | 1 | 15033112068 | AJK | Mirpur | Raipur | Regular (New) | PCPL | Non-Canal Command Area | Tube Well |
| 10/07/2023 | 1 | 15011125014 | AJK | Muzaffarabad | Central Palhoter | 20 Years Old | PCC | Non-Canal Command Area | Nallah |
| 10/07/2023 | 1 | 15011125002 | AJK | Muzaffarabad | Ghorsi Pine | 20 Years Old | PCC | Non-Canal Command Area | Spring |
| 11/07/2023 | 1 | 15011235001 | AJK | Muzaffarabad | Palla To Karshan | Additional Lining | PCC | Non-Canal Command Area | Nallah |
| 11/07/2023 | 1 | 15011218001 | AJK | Muzaffarabad | Doba Upper Phagla | Regular (New) | Mix | Non-Canal Command Area | Nallah |
| 12/07/2023 | 1 | 15011215005 | AJK | Muzaffarabad | Meldi Kasi To Parla | Regular (New) | PCC | Non-Canal Command Area | Nallah |
| 13/07/2023 | 1 | 15013125005 | AJK | Neelum | Kanoor To Lawat Khawaja Seri | 20 Years Old | PCC | Non-Canal Command Area | Nallah |
| 14/07/2023 | 1 | 15013218002 | AJK | Neelum | Shesha Pahar To Kiyani Muhalla | Regular (New) | Mix | Non-Canal Command Area | Nallah |
| 24/07/2023 | 1 | 15024215001 | AJK | Sudhnoti | Tarnoti To Dhok | Regular (New) | Mix | Non-Canal Command Area | Tube Well |
| 25/07/2023 | 1 | 15023328001 | AJK | Poonch | Upper Sawa | 20 Years Old | Mix | Non-Canal Command Area | Nallah |
| 26/07/2023 | 1 | 15023116001 | AJK | Poonch | Lower Dhothan | Regular (New) | HDPE | Non-Canal Command Area | Nallah |

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

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

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

ANNEXURE F: PICTORIAL VIEW OF IMPACT SURVEY FIELD VISITS









ANNEX-G: PUNJAB - WATERCOURSE DATA SUBMISSION - SUMMARY

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



ANNEX-H: PUNJAB - WSP DATA SUBMISSION - SUMMARY

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

ANNEX-I: PUNJAB - PLL DATA SUBMISSION - SUMMARY

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



ANNEX-J: KP - WATERCOURSE DATA SUBMISSION - SUMMARY

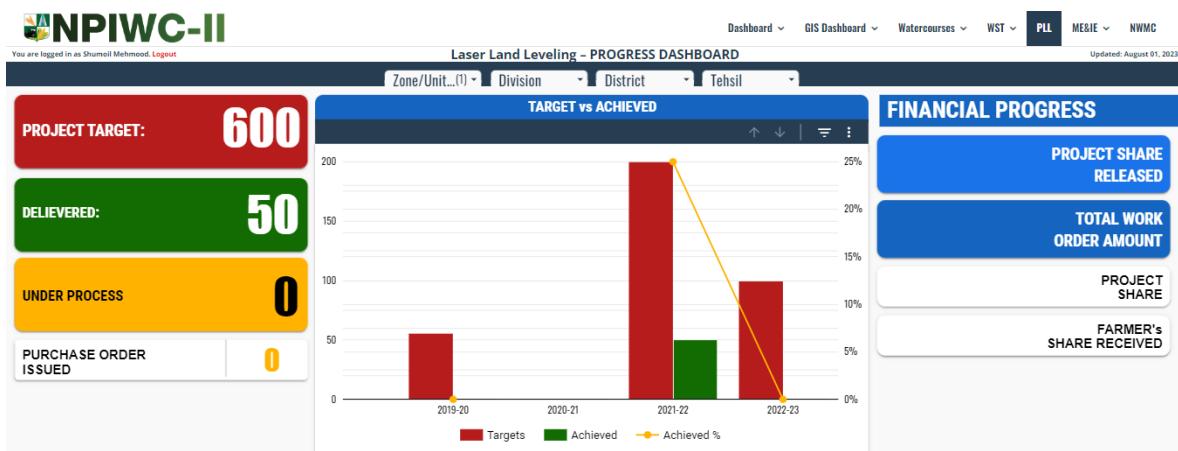
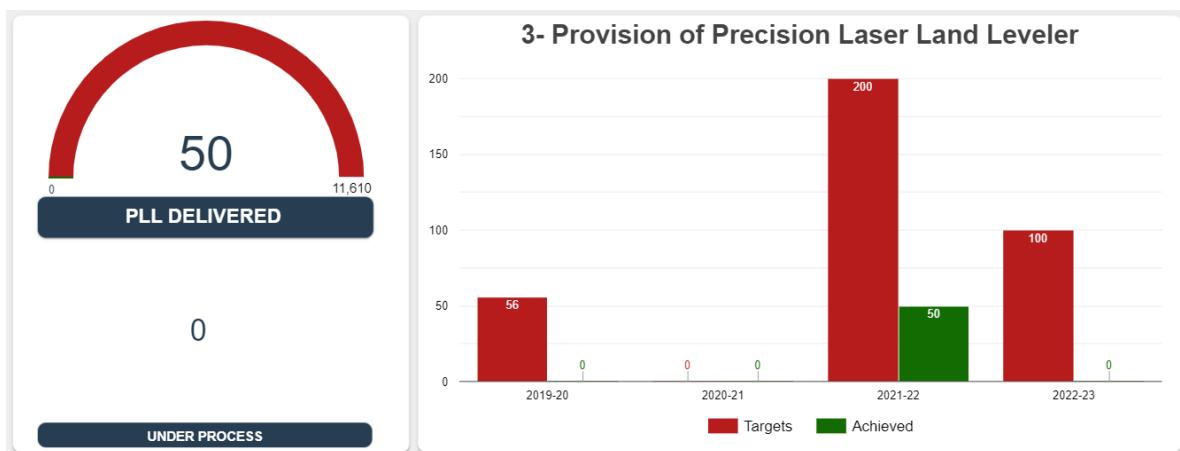
| Division | District | Completed | Work Order Cancelled | Under Progress | | | Pending | | Overall |
|-----------------------------|----------------|-------------|----------------------|---------------------------|---------------------------|-------------------|------------|--------------------|-------------|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

ANNEX-K: KP - WST DATA SUBMISSION - SUMMARY

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

ANNEX-L: KP - PLL DATA SUBMISSION - SUMMARY

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



ANNEX-M: BALOCHISTAN - WATERCOURSE DATA SUBMISSION - SUMMARY

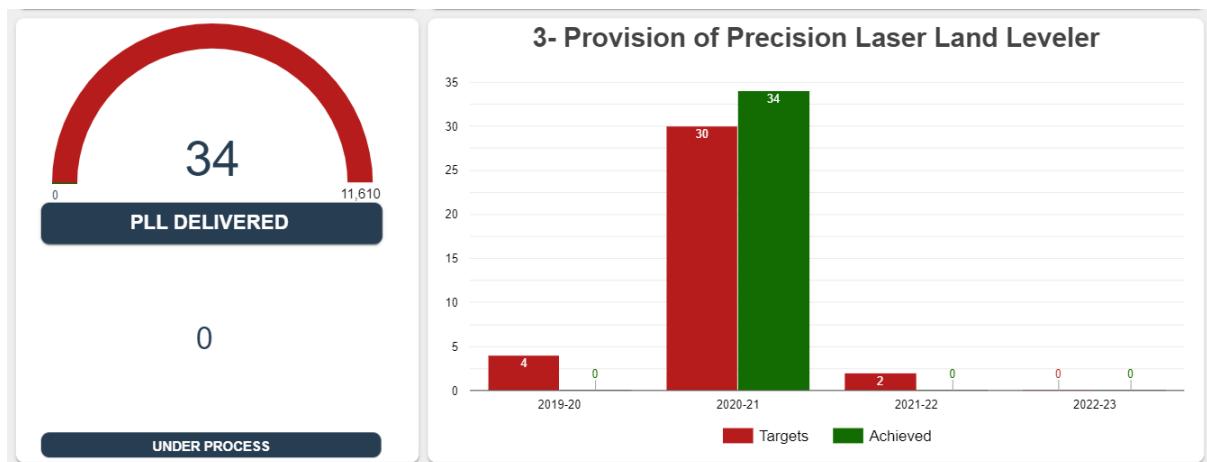
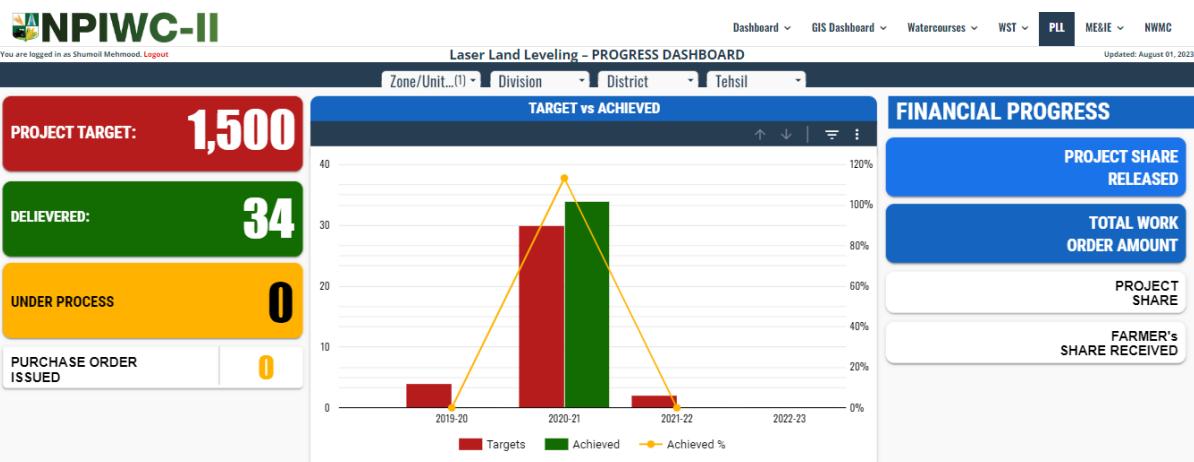
| Division | District | Completed | Under Progress | | | Pending | Overall |
|------------------------|-----------------|-------------|----------------|---------------|------------|------------|-------------|
| | | | 1st Milestone | 2nd Milestone | TS Issued | | |
| Kalat | Awaran | 150 | 0 | 0 | 0 | 1 | 151 |
| Kalat | Kalat | 281 | 0 | 0 | 0 | 1 | 282 |
| Kalat | Khuzdar | 165 | 0 | 0 | 0 | 0 | 165 |
| Kalat | Lasbela | 154 | 0 | 0 | 35 | 0 | 189 |
| Kalat | Mastung | 190 | 0 | 0 | 6 | 2 | 198 |
| Kalat | Surab | 0 | 0 | 0 | 19 | 23 | 42 |
| Kalat Total | | 940 | 0 | 0 | 60 | 27 | 1027 |
| Loralai | Barkhan | 64 | 0 | 0 | 0 | 0 | 64 |
| Loralai | Duki | 0 | 0 | 0 | 43 | 0 | 43 |
| Loralai | Loralai | 335 | 0 | 0 | 0 | 0 | 335 |
| Loralai | Musakhail | 187 | 0 | 0 | 0 | 27 | 214 |
| Loralai Total | | 586 | 0 | 0 | 43 | 27 | 656 |
| Makran | Gwadar | 23 | 0 | 0 | 0 | 0 | 23 |
| Makran | Kech | 59 | 0 | 0 | 9 | 64 | 132 |
| Makran | Panjgur | 121 | 0 | 0 | 33 | 0 | 154 |
| Makran Total | | 203 | 0 | 0 | 42 | 64 | 309 |
| Nasirabad | Jaffarabad | 141 | 0 | 0 | 0 | 0 | 141 |
| Nasirabad | Jhal Maghi | 27 | 0 | 0 | 0 | 0 | 27 |
| Nasirabad | Kachi | 3 | 0 | 0 | 98 | 1 | 102 |
| Nasirabad | Nasirabad | 52 | 0 | 0 | 89 | 28 | 169 |
| Nasirabad | Sohbatpur | 79 | 0 | 0 | 0 | 0 | 79 |
| Nasirabad Total | | 302 | 0 | 0 | 187 | 29 | 518 |
| Quetta | Killa Abdullah | 110 | 0 | 0 | 0 | 0 | 110 |
| Quetta | Pishin | 186 | 0 | 0 | 0 | 1 | 187 |
| Quetta | Quetta | 83 | 0 | 0 | 1 | 0 | 84 |
| Quetta Total | | 379 | 0 | 0 | 1 | 1 | 381 |
| Rakhshan | Chaghi | 77 | 0 | 0 | 0 | 0 | 77 |
| Rakhshan | Kharan | 26 | 0 | 0 | 2 | 40 | 68 |
| Rakhshan | Nushki | 3 | 0 | 0 | 61 | 37 | 101 |
| Rakhshan | Washuk | 18 | 0 | 0 | 0 | 2 | 20 |
| Rakhshan Total | | 124 | 0 | 0 | 63 | 79 | 266 |
| Sibi | Dera Bugti | 99 | 0 | 0 | 0 | 0 | 99 |
| Sibi | Harnai | 42 | 0 | 0 | 0 | 0 | 42 |
| Sibi | Kohlu | 58 | 0 | 0 | 0 | 0 | 58 |
| Sibi | Sibi | 60 | 0 | 0 | 0 | 0 | 60 |
| Sibi | Ziarat | 71 | 0 | 0 | 1 | 0 | 72 |
| Sibi Total | | 330 | 0 | 0 | 1 | 0 | 331 |
| Zhob | Killa Saifullah | 235 | 0 | 0 | 0 | 0 | 235 |
| Zhob | Sherani | 51 | 0 | 0 | 0 | 15 | 66 |
| Zhob | Zhob | 80 | 0 | 0 | 1 | 0 | 81 |
| Zhob Total | | 366 | 0 | 0 | 1 | 15 | 382 |
| Overall | | 3230 | 0 | 0 | 398 | 242 | 3870 |

ANNEX-N: BALOCHISTAN - WST DATA SUBMISSION - SUMMARY

| Division | District | Completed | Under Progress | | | Pending | Overall |
|------------------------|-----------------|-------------|----------------|---------------|------------|-----------|-------------|
| | | | 1st Milestone | 2nd Milestone | TS Issued | | |
| Kalat | Awaran | 84 | 0 | 0 | 1 | 2 | 87 |
| Kalat | Kalat | 177 | 0 | 0 | 2 | 0 | 179 |
| Kalat | Khuzdar | 139 | 0 | 0 | 0 | 0 | 139 |
| Kalat | Lasbela | 105 | 0 | 0 | 39 | 6 | 150 |
| Kalat | Mastung | 99 | 0 | 0 | 8 | 0 | 107 |
| Kalat | Surab | 0 | 0 | 0 | 29 | 0 | 29 |
| Kalat Total | | 604 | 0 | 0 | 79 | 8 | 691 |
| Loralai | Barkhan | 54 | 0 | 0 | 0 | 0 | 54 |
| Loralai | Duki | 0 | 0 | 0 | 29 | 0 | 29 |
| Loralai | Loralai | 113 | 0 | 0 | 0 | 0 | 113 |
| Loralai | Musakhail | 26 | 0 | 0 | 0 | 6 | 32 |
| Loralai Total | | 193 | 0 | 0 | 29 | 6 | 228 |
| Makran | Gwadar | 7 | 0 | 0 | 0 | 0 | 7 |
| Makran | Kech | 35 | 0 | 0 | 18 | 46 | 99 |
| Makran | Panjgur | 46 | 0 | 1 | 121 | 1 | 169 |
| Makran Total | | 88 | 0 | 1 | 139 | 47 | 275 |
| Nasirabad | Jaffarabad | 17 | 0 | 0 | 0 | 0 | 17 |
| Nasirabad | Jhal Magsi | 30 | 0 | 0 | 0 | 0 | 30 |
| Nasirabad | Kachi | 36 | 0 | 0 | 46 | 0 | 82 |
| Nasirabad | Nasirabad | 0 | 0 | 0 | 17 | 0 | 17 |
| Nasirabad | Sohbatpur | 14 | 0 | 0 | 0 | 0 | 14 |
| Nasirabad Total | | 97 | 0 | 0 | 63 | 0 | 160 |
| Quetta | Killa Abdullah | 56 | 0 | 0 | 0 | 0 | 56 |
| Quetta | Pishin | 107 | 0 | 0 | 10 | 2 | 119 |
| Quetta | Quetta | 75 | 0 | 1 | 0 | 0 | 76 |
| Quetta Total | | 238 | 0 | 1 | 10 | 2 | 251 |
| Rakhshan | Chaghi | 33 | 0 | 0 | 0 | 14 | 47 |
| Rakhshan | Kharan | 15 | 0 | 0 | 14 | 0 | 29 |
| Rakhshan | Nushki | 0 | 0 | 0 | 53 | 9 | 62 |
| Rakhshan | Washuk | 4 | 0 | 0 | 10 | 0 | 14 |
| Rakhshan Total | | 52 | 0 | 0 | 77 | 23 | 152 |
| Sibi | Dera Bugti | 38 | 0 | 0 | 1 | 0 | 39 |
| Sibi | Harnai | 21 | 0 | 0 | 0 | 0 | 21 |
| Sibi | Kohlu | 26 | 0 | 0 | 0 | 0 | 26 |
| Sibi | Sibi | 23 | 0 | 0 | 0 | 0 | 23 |
| Sibi | Ziarat | 21 | 0 | 0 | 0 | 0 | 21 |
| Sibi Total | | 129 | 0 | 0 | 1 | 0 | 130 |
| Zhob | Killa Saifullah | 117 | 0 | 0 | 0 | 0 | 117 |
| Zhob | Sherani | 25 | 0 | 0 | 0 | 0 | 25 |
| Zhob | Zhob | 85 | 0 | 0 | 0 | 0 | 85 |
| Zhob Total | | 227 | 0 | 0 | 0 | 0 | 227 |
| Overall | | 1628 | 0 | 2 | 398 | 86 | 2114 |

ANNEX-O: BALOCHISTAN - PLL DATA SUBMISSION - SUMMARY

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



ANNEX-P: GB - WATERCOURSES DATA SUBMISSION - SUMMARY

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

ANNEX-Q: GB - WST DATA SUBMISSION - SUMMARY

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

ANNEX-R: AJK - WATERCOURSES DATA SUBMISSIONS - SUMMARY

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

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

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

ANNEX-T: ICT - WATERCOURSE DATA SUBMISSION - SUMMARY

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