



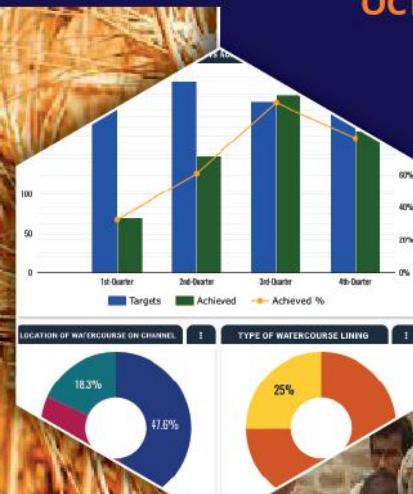
FEDERAL PROJECT MANAGEMENT UNIT
FEDERAL WATER MANAGEMENT CELL
MINISTRY OF NATIONAL
FOOD SECURITY & RESEARCH
ISLAMABAD - PAKISTAN

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

MONITORING, EVALUATION
AND IMPACT EVALUATION
CONSULTANTS

MONTHLY MONITORING REPORT

OCTOBER 2024



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



In Association with 



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

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

MONTHLY MONITORING REPORT
October 2024

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ACRONYMS

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

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

EXECUTIVE SUMMARY

The “Monitoring and Evaluation Report for October 2024” comprises of 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 is covering Punjab, Khyber Pakhtunkhwa (KP), Balochistan provinces, 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 of four components to be implemented in Punjab, KP, Balochistan, GB, AJ&K, and ICT:

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

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

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

Chapter-3 explains the purpose of the Monthly Monitoring Report (MMR). The current MMR covers the period from 1st October 2024 to 31st October 2024.

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

- Post-field activities: this included quality assurance and data re-validation to ensure thorough and accurate review of the submitted consolidated baseline and endline survey draft reports.
- Monitoring of online data collection and Data entry;
- Data collection of interventions in MIS/GIS database;
- Submitted the MMR for September 2024; and
- Meetings of ME&IE Consultants with the respective Stakeholders about Project Progress / Issues in hand and its prospects.

Chapter-4 highlights the four months' work plan for the period of 1st July 2024 to 31st Oct 2024. The work plan consists of the following activities:

- Project Closure Activities (Administrative)
- Post Field Activities
- ICT Assignment
- Coordination Meetings
- Deliverables

The detailed time for tentative work plan of four months (Jul-Oct 2024) is provided in the Tentative Work Plan **Annex-A**.

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

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

| No. | Activities Planned for the Four Months (Jul-Oct 2024) | | Status |
|----------|---|--|--|
| 1 | Project Closure Activities (Administrative) | | |
| | 1.1 | Downsizing of ME&IE Consultants staff & approval of retained Staff | Accomplished |
| | 1.2 | Preparing Remuneration & Reimbursable invoices | Accomplished |
| | 1.3 | Handing over the project assets to the client | Will be handed over at the stipulated time |
| 2 | Post field activities | | |
| | 2.1 | Data Validation Process | Accomplished |
| | 2.2 | Data Cleaning and Preparation | Accomplished |
| | 2.3 | Data Analysis | Accomplished |
| | 2.4 | Creating Final Tables for drafting of the Report | Accomplished |
| 3 | ICT Assignment: | | |
| | 3.1 | Improvement/Updation of website of NPIWC-II | Accomplished |
| | 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 entry, Data cleaning, Data processing & data analysis. | In Progress |
| 4 | Coordination | | |
| | 4.1 | Meetings of TL, ME&IE Consultants with NPC regarding Project Progress / Issues | Meetings conducted regularly |
| | 4.2 | Meeting of DTLs with respective DTL of NWMC | Meetings conducted regularly |
| | 4.3 | Internal Meetings of ME&IE Consultants | Weekly meetings conducted on a regular basis |
| 5 | Deliverables: | | |
| | 5.1 | Monthly Monitoring Reports (MMRs) | 43 rd MMR (July 2024) |
| | | | Submitted |
| | | | 44 th MMR (August 2024) |
| | | | Submitted |
| | 5.2 | Quarterly Monitoring & Evaluation Report (QM&ER) | QM&ER Jul-Sep 2024 |
| | 5.3 | Baseline Survey Report – Consolidated (Draft) | Submitted |
| | 5.4 | Endline Survey Report (Draft) | Submitted |
| 6 | 5.5 | Special Reports | Various |
| | 5.6 | Draft Assignment Completion Report | Under preparation |
| | | | Will be submitted on the stipulated time |

CHAPTER-1: PROJECT INTRODUCTION

1.1 PROJECT PROFILE

This section covers the following detail of the project:

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

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

Sponsoring Agency: Ministry of National Food Security & Research

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

Project Period: 5 Year (2019-2024)

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

ME&IE Consultancy Period: 4 years

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

ME&IE Consultant Mobilized: November 07, 2020

1.2 PROJECT DESCRIPTION

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

1.2.1 Project Development Objectives

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

1.2.2 Project Objectives – General & Quantitative

The following are the project's general and quantitative:

1) General Objectives:

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

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

2) Quantitative Objectives' Outputs and Impacts:

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

Project outputs

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

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

Project impacts

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

Project's indirect benefits to industry/economic activities

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

Awareness support to farmers

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

1.2.3 Project Beneficiaries

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

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

1.2.4 Project Components

The NPIWC-II project comprises of four components:

C1: ORGANIZATION OF WATER USERS ASSOCIATIONS:

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

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

C2: WATERCOURSE IMPROVEMENTS:

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

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

C3: CONSTRUCTION OF WATER STORAGE TANKS:

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

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

- ii) non-perennial canals for subsequent irrigations at the critical crop growth stages,
- ii) Provide flexibility for storage of plentiful canals and rainfall runoff water for its more expedient use subsequently,
- iii) Collect, store and filter water from:
 - Small Dams, springs, streams, nullahs, 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 of LLL

services in the country through the provision of LLL Units to farmers/service providers at 50% subsidized rates arrangement.

1.2.5 Project Targets

The works are being undertaken in the Province of Punjab, Khyber Pakhtunkhwa (KP), and Balochistan excluding Sindh. It also covers Gilgit Baltistan (GB), Azad Jammu & Kashmir (AJK) and Islamabad Capital Territory (ICT). The location maps with total targets are shown in **Figure-1.1**. Project aims at achieving the targets for 5 years starting from the year 2019-20 to 2023-24, presented in **Figure-1.2**. The targets for each Province / Zone (excluding Sindh) are presented in **Figure-1.3**.

Project Targets

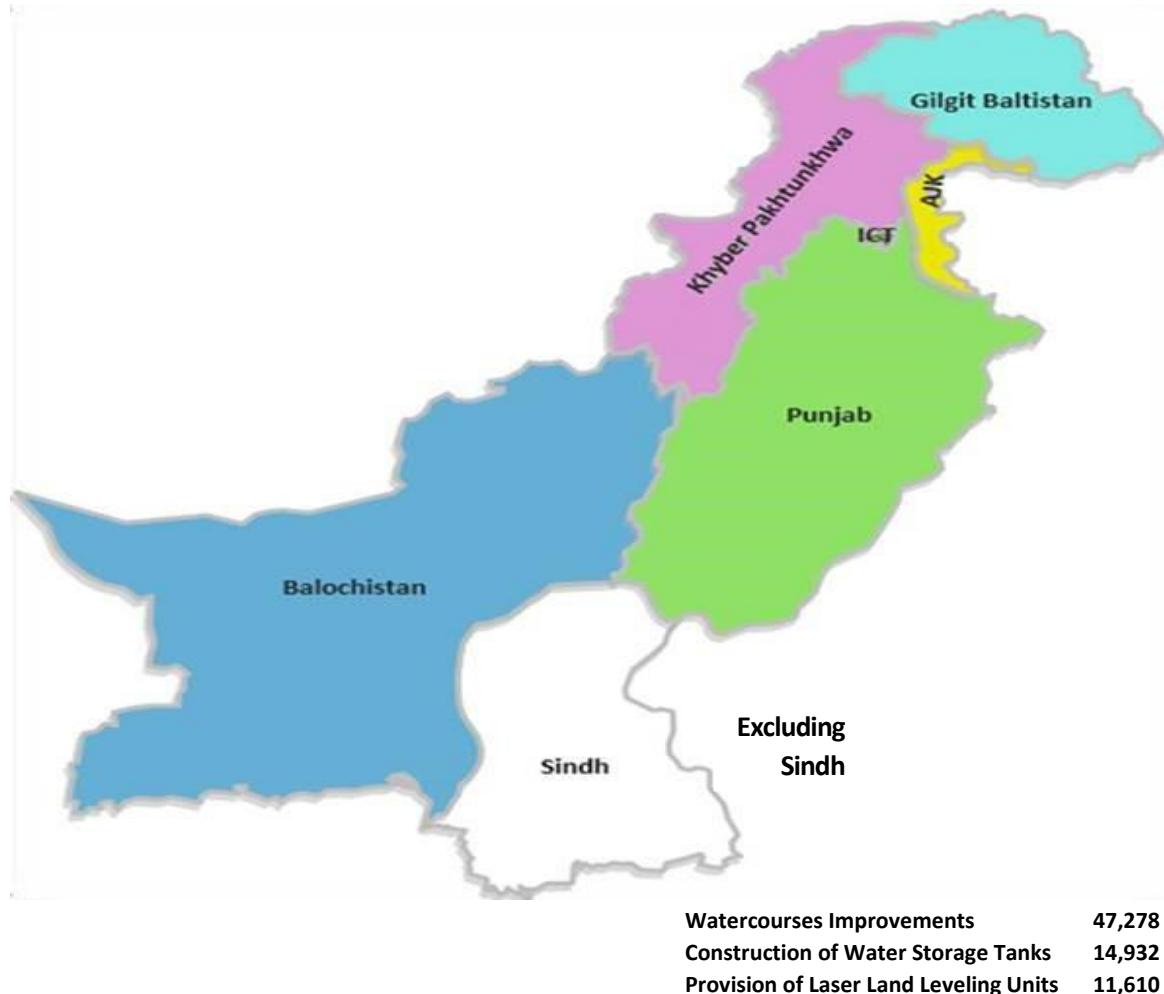


Figure 1.1: Location Map & Pakistan Targets

Table 1.1: Project Targets (in numbers)

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

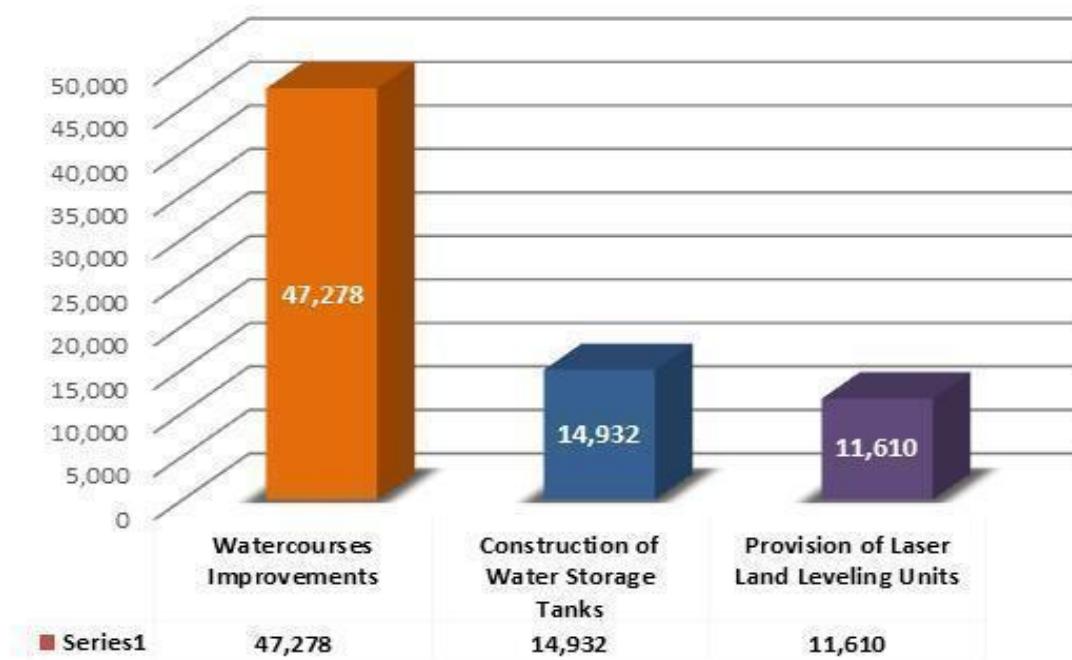


Figure 1.2: National Level Targets

Table 1.2: Province-wise year-wise Watercourses targets

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

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

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

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

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

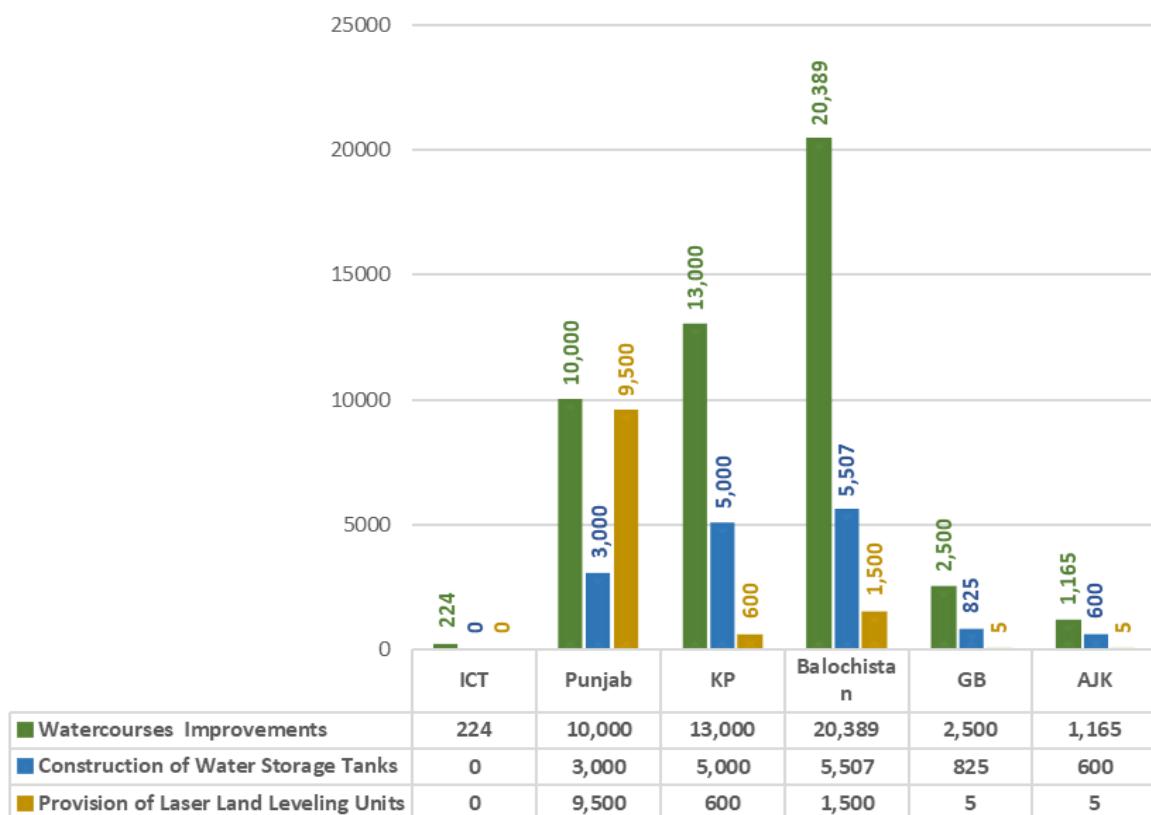


Figure 1.3: Zonal/Unit Level Targets

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 of highly qualified professionals having long and rich practical experience of such projects earlier launched in Pakistan. The consultants are developing a "State-of-the-Art Management Information System" (MIS) with a "Geographical Information System" (GIS) focused on NPIWC-II to monitor progress on project interventions and to carry out an effective monitoring process. The MIS is helping the decision makers to make informed decisions.

2.1 OBJECTIVES OF CONSULTING SERVICES

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

2.2 SCOPE OF CONSULTING SERVICES

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

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

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

The said requirement is based on the following functional features:

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

2.3 MONITORING STRATEGY OF CONSULTANTS

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

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

Table 2.2: Monitoring Strategy for ME&IE Activities

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

| Sr. No. | Monitoring Activity | ME&IE Team Responsible | Monitoring Strategy |
|---------|--|--|--|
| | | | <ul style="list-style-type: none"> 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 continuously, the water savings will be assessed based on water pumped from the tank to irrigate the fields. The assessment will be done either by readings on the pump gauge or periodically interviewing the farmer. Based on water savings on sample WSTs, total water savings will be estimated for all project WSTs. The savings will be reported per WST, per annum, and aggregate for the project in LPS and in Acre feet. <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 surveys same forms will be used and the same sampled farmers will be interviewed Data on variables such as crop yields, irrigated area, cropping pattern, cropping intensity, farm income, and employment will be collected and analyzed The difference between before and after situations minus natural growth will be assumed as economic benefits to agriculture. |
| 6 | Impact evaluation-on | Team Leader, Agricultural | <ul style="list-style-type: none"> The results of the baseline and impact surveys will be used to quantify the impact on the economy |

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

2.4 FRAMEWORK AND RESULTS-BASED MONITORING (RBM) INDICATORS

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

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

CHAPTER 3: CONSULTANTS' ACTIVITIES DURING THE REPORTING MONTH

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

3.1 SUBMISSION OF MONTHLY MONITORING REPORT (MMR)

As per contractual obligation, the consultants have submitted the forty-fifth MMR (September 2024). While the forty-sixth MMR (the Report in hand) for October 2024 (1st October 2024 to 31st October 2024) is being submitted.

The Monthly Monitoring Report (MMR) explains the understanding of all activities to be carried out as per TORs of ME&IE consultants' assignment and their completion within the stipulated time frame. The activities include but are not limited to project closure activities, baseline consolidated and endline survey data validation, cleaning, analysis and interpretation of findings for preparation/documentation of said reports, ICT assignments including monitoring of online data collection in the field, and development / improvement of project's dashboard & updation/ development of website, etc. Consultants of the ICT Team also remained in contact with Clients' officials to enter data in the Dashboard and provided assistance when and where it was required by the client. All the activities of the current month complied with the four month 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 NPIWC-II, ME&IE CONSULTANTS CONTINUATION OF SERVICES

The ME&IE Consultancy Contract Agreement between FPMU (Ministry of National Food Security & Research) and G3JV for the NPIWC-II project expired on 25 October 2024. However, in the light of FPMU letter No. F.1-7/2018-PLAN (WM) dated 9th October 2024 (copy attached as Annex-T), we are continuing to provide services and are maintaining our approved staff and office operations across all zones despite the contract's expiration.

3.3 SUBMISSION OF ENDLINE SURVEY REPORT (DRAFT)

Progress Monitoring:

During the Project period (5 years), a total of 47,278 watercourses were targeted to be improved. By the end of June 2024, 14,443 watercourses have been improved, showing only 31% achievement.

During the Project period (5 years), a total of 14,932 Water Storage Tanks were targeted to be constructed. By the end of June 2024, WSTs were constructed, thus showing only 40% achievement.

During the Project period (5 years), a total number of 11,610 Precision Laser Land Leveling (PLL) Units were targeted to be delivered. By the end of June 2024, 6,219 PLL Units were delivered showing a progress of 54% achievement.

Monitoring Evaluation of Component C1 (Organization of Water Users' Associations)

On an overall basis, 85% of farmers were aware of about the existence / working of WUAs on their watercourses. About 87% of respondents informed that OFWM used to hold awareness meetings before the formation of the WUAs. About 71% members had been participating in the meeting of WUAs and 94% members reported that the WUAs were formed through the democratic process. Overall, 93% of respondent farmers were found to be the members of WUAs of which 46% were located at the head of WC reaches, 29% at middle reaches and 25% at tail reaches and 90% of members were found water users of lined watercourses. About 91% of farmers reported that WUAs were functioning properly.

About half (49%) of the respondent farmers informed that meetings by WUAs were held, 25% informed that no meeting were held and 26% were of the view that these meetings were held to some extent. Moreover, 35% of respondents informed that they always participated in the meetings, 63% participated occasionally and two percent never participated.

Out of the total, 7% of respondents informed that meetings were held every month, 4% told quarterly, 3% said once a year and the remaining 86% informed that these meetings used to be held as and when need arises. About 85% of respondents informed the WUAs were established through the democratic process.

About 95% of member farmers responded that they did not face any dispute. Only 5% faced disputes, out of which 60% of members got their disputes resolved always, 33% to some extent and 7% never got their disputes resolved.

Out of 5% of respondents who faced disputes, 26% related to Land Acquisition, 63% on distribution of Naccas, 8% regarding funding for account and 3% for Water Theft. About 53% of disputes were solved by WUAs, 42% by OFWM department and 5% by Irrigation Department.

Impact Evaluation of Component C2 (Improvement of Watercourses)

Land use intensity due to watercourse improvement on sample farms has increased on average by 5.5%, meaning thereby an increase of 5.5% in cultivated areas. Cropping intensity has increased by 11.6%. These increases in land use and cropping intensities have resulted in about 14.1% increase in cropped areas under various crops.

The Watercourse Improvement Impact on Crop Yields per acre varied from 1.7% to 84.5%, averaging at 12.3% on an overall basis.

The Final impact of Watercourses Improvement is reflected in total production of various crops. Production of various crops has increased at different rates varying from 10.8% in the case of peaches to 254.8% in the case of other vegetables. However, weighted average impact calculates at 28.1% (12.3% due to yield increase and 14.1% due to area increase and 1.7% due to interaction between the two).

On total completed watercourses up to June 2024, total increases in crop area have also been estimated. Consequent upon total 14,443 improved watercourses, the increase in the cropped area have been estimated to be around 343 thousand acres.

The impact of watercourse Improvement on agriculture employment has also been significantly witnessed. Labor man days at the farm level have increased ranged from 2.9 percent to more than 147% after WC Improvement averaging at 11.8% due to increase in crop area, crop yields and crop production.

Impact of WC Improvement on per acre net income varies from crop to crop. It varies from PKR 1,008 for

cotton to PKR 37,905 for vegetable crops per acre averaging to the tune of PKR. 3,719 for all crops.

Water Conveyance Efficiency on 20% lined additional improved watercourses was increased by 16%age point and on new 50% lined watercourses increase shown by 29%age point. On piped lined watercourses efficiency was increased by 50%. On overall basis, saving in water losses calculated to extent of 34% turned into 154 AF per watercourse per annum.

Spot Checking monitored in respect of Trees harvested on Watercourses shows that 5,388 trees were cut down during the process of their improvement. As per rule, at least three times (16,164) trees were required to be planted in place of 5,388 cut down trees, however, during the spot checks activity, it was observed that only 9,258 saplings (57% of the required ones) were planted out of which, 2,844 plants were survived after one year of their plantation.

Spot Checking of Brick Lined Watercourses shows that the compliance of engineering parameters on Rectangular / Brick Lined Watercourses, on the whole, it was satisfactory. However, lining length as per design was found on 81% of watercourses. Full length improved water courses were extremely low i.e., kacha portion of only 23% were fully improved. Katcha portions of the remaining 77% watercourses remained unimproved.

Spot Checking of PCP Lining Watercourses: On Parabolic (PCPL) Watercourses, compliance of most of the parameters was found satisfactory. However, lining length as per design was found on 77% watercourses and full-length improved water courses were extremely low i.e., only 19%.

Spot Checking of Pipelined Watercourses: The quality of pipe was found good in 58% cases, satisfactory in 39% cases and poor in 3% cases, only. Pipeline length as per design in 95% cases, bends and flanges were as per design in 72% cases, tees were as per design in 67% cases and sockets were in 59% as per design.

The cultivated area increased by 96,412 acres, cropped area increased by 343,030 acres, gross income increased by 66,549 million PKR and net income increased by 30,687 million PKR. Zone-wise detail may be seen in **Table 1**.

Table 1: Increase in Area and Incomes of the farms under Completed Watercourses Scheme

| Zone / Unit | Increase in | | | |
|----------------|-----------------|----------------|----------------|---------------|
| | Cultivated Area | Cropped Area | Gross Income | Net Income |
| | Acres | | Million Rupees | |
| Punjab | 35,260 | 145,114 | 40,783 | 17,962 |
| KP | 5,494 | 43,146 | 6,202 | 3,004 |
| Balochistan | 54,546 | 147,896 | 17,781 | 8,927 |
| GB | 846 | 5,537 | 1,470 | 651 |
| AJK | 253 | 1,294 | 307 | 138 |
| ICT | 13 | 43 | 6 | 3 |
| Overall | 96,412 | 343,030 | 66,549 | 30,687 |

Impact Evaluation of Component C3 (Construction of WSTs)

Land use intensity due to WSTs Construction on sample farms has increased on an average by 6.3%, meaning thereby an increase of 6.3% in cultivated area. Cropping intensity has increased by 17.3%. These increases in land use and cropping intensities have resulted in about 24% increase in cropped areas under various crops.

The WSTs construction Impact on Crop Yields per acre varied from 4.6% in the case of Kharif fodder to 15.8% in case of onion, averaging 11.6% on an overall basis.

Final impact of Watercourses Improvement is reflected in total production of various crops. Production of various crops has increased at different rates varying from 19% in the case of maize to 71% in the case of sugarcane. However, weighted average impact calculates at 38.4% (11.6% due to yield increase and 24% due to area increase and 2.8 percent due to interaction between the two).

As a result of total 5,915 completed WSTs up to June 2024, total increases in area have also been estimated to be 14,084 acres.

The impact of WSTs on agriculture employment has also been witnessed significantly. Labor man days at the farm have increased ranging from 9% to 59% after WSTs construction averaging at 24.7% due to increase in crop area, crop yields and crop production.

The impact of WSTs on per acre net income varies from crop to crop. It varies from 1,008 PKR for cotton to 37,905 PKR for other vegetable crops, per acre averaging at 12,744 PKR per acre for all crops.

As before the construction of the tank, there was no such saving of water losses. The total water storage capacity from above mentioned sources of tank along with the reported filing up frequency leads to calculating the water saving impact. On overall basis, saving in water losses calculated to the tune of 7.18 AF per Storage Tank per annum.

On 347 spots checked WSTs, 574 trees were reported to be cut down, and 1,866 (more than thrice as per requirement) Saplings were planted out of which 394 survived after appraisal of one year. WST protection arrangements were about 79% satisfactory and 96% WSTs were properly being maintained.

Out of 347 spots checked the WSTs, satisfactory Excavation Certificates were issued by the Consultants to 281 (81%) of the WSTs.

About 263 (76%) WSTs were completed before receiving the subsidy amount. The rest of 84 (24%) WSTs were completed after receiving the subsidy from the department.

Out of a total of 347 spots checked the WST, on overall basis, 322 (93%) WSTs have been completed as per approved standards and specifications.

Due to 5,915 WSTs' construction, cultivated area increased by 4,184 acres, cropped area increased by 14,084 acres, gross income increased by 3,384 million PKR and net income increased by 1,842 million PKR.

Zone wise detail may be seen in **Table 2**.

Table 2: Increase in Area, and Incomes of the farms under completed WSTs Scheme

| Zone / Unit | Increase in | | | |
|----------------|-----------------|---------------|----------------|--------------|
| | Cultivated Area | Cropped Area | Gross Income | Net Income |
| | Acres | | Million Rupees | |
| Punjab | 477 | 3,074 | 860 | 466 |
| KP | 758 | 3,078 | 743 | 404 |
| Balochistan | 1,840 | 4,589 | 1,058 | 577 |
| GB | 624 | 1,859 | 391 | 214 |
| AJK | 485 | 1,484 | 332 | 181 |
| Overall | 4,184 | 14,084 | 3,384 | 1,842 |

Impact Evaluation of Component C4 (Provision of PLL)

Educational Profile of Sample Beneficiaries: Most of the beneficiaries (87.0%) found literate. About 32.0% of beneficiaries are primary / middle level, 26.0% matric, 13.0% Intermediate, 12.6% Graduates and 3.5% postgraduate.

Suppliers of Precision (Laser) Land levelers: About 57% i.e., 185 PLL sample units were supplied by 4 Supply and Service Companies (SSCs), namely Easy Farming (61), Cross Field Agro (57), Ruba Digital Laser (46) and 21 by Modern Farming PLL Services. The other 133 sample units were supplied by other 14 different SSCs. Out of these 318 PLL units, 306 were delivered by these companies in the Punjab, 5 in KP and 7 in Balochistan.

About 58% of PLL drivers were fully trained for running PLLs in the field and got formal training for this purpose. Around 39% were self-trained and the rest of 3% were found untrained during the monitoring survey.

About 66% of respondents ranked these PLL units as good, 29% as satisfactory and 3% as not satisfactory. About 1 to 2 percent responded that they do not know. It means that 95% of beneficiaries regarded the quality / durability of the delivered PLL units satisfactory at least.

Regarding after-sales service, the sample beneficiaries responded that 48% regarded it as good, 10% as poor, 5% as very poor and 37% do not know.

About 41% of the beneficiaries responded that the complaints attended by SSCs were prompt and 15% informed that the complaints were not being attended promptly.

As for the prices of PLL concerned, 8% of respondent beneficiaries informed that the SSCs charged high prices, 44% informed that the prices were normal, while the rest of 48% responded that they did not know.

The respondents were also asked about the availability of spare parts by the SSCs. Out of a total of 318 respondents, 26% responded that spare parts were available with SSCs whenever required, 6% informed that it took time long time to attend, whereas the rest of 68% informed that they did not need these spare parts yet.

As for the prices of PLL spare parts charged by the SSCs, 9% of respondent beneficiaries informed that the SSCs charged high prices, 21% informed that the prices were normal, while the rest of 70% responded that they did not need these spare parts yet.

The respondent beneficiaries were also asked about the availability of spare parts in the open market. About 28% of respondents informed that these spare parts are only

available with the SSCs, 30% informed that the spare parts were also available in the open market, while the rest 42% informed that they did not know.

While spot checking, all 318 (100%) respondents were using PLL for agricultural purposes. Not even a single respondent was found using PLL for non-agricultural purposes.

The PPLs were also spot checked with respect to their working conditions. Out of the total, 66% were found in good condition and well maintained. The condition of 30% was satisfactory and the remaining 4% were found in poor / Un-satisfactory condition.

Record Keeping of Laser Land Leveling Services to Other Farmer: About 95% of PLL owners provide laser leveling servicing to the other fellow farmers. Out of these service providers, only 12% keep a complete or partial record of their rental hiring services. Out of the 12 percent, 63% kept record on logbooks, 30% on loose papers.

Land Leveled during the last Rabi and Kharif cropping Seasons: Total laser land levelled by the 318 respondent PLL owners during last Rabi and Kharif cropping seasons was 111,422 acres or 350 acres per PLL. Out of these total 111,422 acres, 9,645 acres (30 acres per equipment) was owned land, and 101,777 acres (320 acres per equipment) were laser leveled on rental hiring services basis for the other fellow farmers.

PLL Beneficiaries: Total annual PLL beneficiaries calculate to 16,742 farmers including the owners themselves or 30 farmers per equipment.

Impact of PLL on Crop yields: Impact of PLL on crop yield was also assessed through the farmers' perception. The growers were of the view that laser leveling increases yields of various crops ranging from 20% to 35% with averaging at 24% on the whole. Economics and economic benefits of PLL uses were also estimated. Total number of delivered PLL up to end of June 2024 was 6,219. At the rate of 394 acres per PLL, total area levelled by all the delivered PLL calculates as 2,450 thousand acres. Net benefit per PLL comes to 677 thousand PKR per annum and for total 6,219 delivered PLL these calculate to 4,213 million PKR.

Water Saving Impact of PLL Units: Information was also asked from the growers regarding the saving of

water due to Precision Land Leveling. On average, 25% saving in water use has been reported.

Economic Analysis: The Benefit Cost Ratio at 12% discounted factor in the final evaluation calculated as 2.8 at 50% Internal Rate of Return.

3.4 ACTIVITIES OF ME&IE CONSULTANTS OFFICES – OCTOBER 2024

An overview of the significant tasks accomplished, observed and assessed by the ME&IE consultants by all the ME&IE Consultants' offices under the supervision of the National Office, Islamabad during October 2024.

3.4.1 Overall Field Progress:

ME & IE consultants have successfully covered, overall, more than 5% Sample Size of the targeted population in almost all zones that constituted at least 5% sample size in each district of all project's zones. This accomplishment underscores the diligent efforts of all teams in conducting thorough baseline surveys-assessments, impact evaluations, and regular/ spot checking monitoring activities. Consequent upon successfully covering the targeted percentage entrusted by the NPC office in respect of the Project's targeted population in all project zones, the project has laid a strong foundation for broader data collection and analysis in order to arrest the likely representative sample size of the targeted population.

Field visits by the ICT Field Team

Since its inception, the ME&IE Consultants of ICT-Unit field team has conducted baseline and impact surveys for over **46** watercourses across AJK and ICT, as well as similar surveys for more than **25** water storage tanks in AJK and **19** tanks in four districts within Punjab's Potohar region.

| AJK UNIT | | | |
|------------------|-----------|-----------|----------|
| District | WC | WST | PLL |
| Bagh | 2 | 3 | 0 |
| Bhimber | 9 | 2 | 0 |
| Haveli | 1 | 2 | 0 |
| Jhelum | 3 | 4 | 0 |
| Kotli | 2 | 2 | 0 |
| Mirpur | 8 | 1 | 0 |
| Muzaffarabad | 7 | 7 | 0 |
| Neelum | 4 | 0 | 0 |
| Poonch | 2 | 3 | 0 |
| Sudhnoti | 1 | 1 | 0 |
| AJK Total | 39 | 25 | 0 |

| ICT UNIT | | | |
|-----------------------------|----------|-----------|----------|
| District | WC | WST | PLL |
| ICT | 7 | 0 | 0 |
| ICT Total | 7 | 0 | 0 |
| POTOHAR REGION OF PUNJAB | | | |
| District | WC | WST | PLL |
| Attock | 0 | 6 | 0 |
| Chakwal | 0 | 7 | 0 |
| Jhelum | 0 | 2 | 0 |
| Rawalpindi | 0 | 4 | 0 |
| Potohar Region Total | 0 | 19 | 0 |

Field visits by the Punjab Field Teams

Up to the reporting month, the Punjab field team of ME&IE Consultants has completed baseline and impact surveys of **250** watercourses. Similarly, **80** water storage tanks in Punjab have been visited for baseline and impact surveys (the Punjab field team conducted **61** visits, while the ICT-Unit field team carried out surveys on **19** tanks). The Punjab field team also visited/completed impact assessments for **306** PLL interventions.

| PUNJAB ZONE | | | |
|-----------------|----|-----|-----|
| District | WC | WST | PLL |
| Attock | 0 | 6 | 0 |
| Bahawalnagar | 22 | 3 | 15 |
| Bahawalpur | 9 | 1 | 12 |
| Bhakkar | 11 | 5 | 10 |
| Chakwal | 0 | 7 | 0 |
| Chiniot | 3 | 1 | 15 |
| Dera Ghazi Khan | 9 | 3 | 8 |
| Faisalabad | 9 | 2 | 14 |
| Gujranwala | 7 | 1 | 12 |
| Gujrat | 6 | 2 | 6 |
| Hafizabad | 10 | 3 | 10 |
| Jhang | 5 | 2 | 15 |
| Jhelum | 0 | 2 | 0 |
| Kasur | 6 | 2 | 12 |
| Khanewal | 7 | 2 | 9 |
| Khushab | 8 | 2 | 8 |
| Lahore | 2 | 1 | 6 |
| Layyah | 8 | 1 | 16 |
| Lodhran | 15 | 1 | 8 |
| Mandi Bahauddin | 4 | 2 | 8 |
| Mianwali | 4 | 1 | 7 |
| Multan | 9 | 5 | 8 |
| Muzaffargarh | 6 | 2 | 12 |
| Nankana Sahib | 3 | 2 | 7 |
| Narowal | 1 | 0 | 7 |
| Okara | 15 | 1 | 7 |
| Pakpattan | 6 | 1 | 11 |

| PUNJAB ZONE | | | |
|---------------------|------------|-----------|------------|
| Rahim Yar Khan | 18 | 4 | 14 |
| Rajanpur | 6 | 1 | 6 |
| Rawalpindi | 0 | 4 | 0 |
| Sahiwal | 8 | 1 | 8 |
| Sargodha | 8 | 2 | 6 |
| Sheikhupura | 8 | 2 | 7 |
| Sialkot | 5 | 1 | 5 |
| Toba Tek Singh | 6 | 3 | 9 |
| Vehari | 6 | 1 | 8 |
| Punjab Total | 250 | 80 | 306 |

| GB UNIT | | | |
|-----------------|-----------|-----------|----------|
| District | WC | WST | PLL |
| Astore | 2 | 1 | 0 |
| Diamer | 6 | 2 | 0 |
| Ghanche | 6 | 0 | 0 |
| Ghizer | 4 | 2 | 0 |
| Gilgit | 5 | 3 | 0 |
| Hunza | 2 | 1 | 0 |
| Kharmang | 2 | 1 | 0 |
| Nagar | 2 | 1 | 0 |
| Shigar | 4 | 2 | 0 |
| Skardu | 7 | 2 | 0 |
| GB Total | 40 | 15 | 0 |

Field visits by the KP Field Teams

Since its inception, the KP field team of ME&IE Consultants has conducted baseline and impact surveys for **205** watercourses in KP and **40** in GB. Additionally, they have completed baseline and impact surveys for **79** water storage tanks in KP and **15** in GB. The team also carried out impact assessment field visits for **5** PLL interventions in KP.

| KP ZONE | | | |
|------------------|------------|-----------|----------|
| District | WC | WST | PLL |
| Abbottabad | 2 | 1 | 0 |
| Bannu | 5 | 1 | 0 |
| Battagram | 3 | 1 | 0 |
| Buner | 6 | 2 | 0 |
| Charsadda | 7 | 1 | 0 |
| Chitral | 6 | 1 | 0 |
| Dera Ismail Khan | 38 | 10 | 5 |
| Hangu | 3 | 0 | 0 |
| Haripur | 9 | 5 | 0 |
| Karak | 4 | 4 | 0 |
| Khyber | 2 | 2 | 0 |
| Kohat | 5 | 1 | 0 |
| Lakki Marwat | 6 | 2 | 0 |
| Lower Dir | 7 | 1 | 0 |
| Lower Kohistan | 1 | 0 | 0 |
| Lower Mohmand | 2 | 3 | 0 |
| Malakand | 6 | 2 | 0 |
| Mansehra | 15 | 4 | 0 |
| Mardan | 7 | 3 | 0 |
| Nowshera | 20 | 8 | 0 |
| Peshawar | 13 | 7 | 0 |
| Shangla | 3 | 2 | 0 |
| Swabi | 6 | 1 | 0 |
| Swat | 14 | 8 | 0 |
| Tank | 4 | 2 | 0 |
| Torghar | 2 | 0 | 0 |
| Upper Dir | 6 | 3 | 0 |
| Upper Kohistan | 1 | 1 | 0 |
| Upper Mohmand | 2 | 3 | 0 |
| KP Total | 205 | 79 | 5 |

| BALOCHISTAN ZONE | | | | |
|------------------|----|-----|-----|---------|
| District | WC | WST | PLL | Overall |
| Awaran | 8 | 4 | 0 | 12 |
| Barkhan | 3 | 3 | 0 | 6 |
| Chaghi | 4 | 3 | 0 | 7 |
| Dera Bugti | 5 | 2 | 0 | 7 |
| Duki | 2 | 2 | 0 | 4 |
| Gwadar | 2 | 1 | 0 | 3 |
| Harnai | 2 | 1 | 0 | 3 |
| Jafarabad | 0 | 0 | 4 | 4 |
| Jaffarabad | 7 | 1 | 0 | 8 |
| Jhal Magsi | 2 | 4 | 0 | 6 |
| Kachi | 5 | 10 | 0 | 15 |
| Kalat | 13 | 9 | 0 | 22 |
| Kech | 6 | 5 | 0 | 11 |
| Kharan | 4 | 2 | 0 | 6 |
| Khuzdar | 8 | 7 | 0 | 15 |
| Killa Abdullah | 5 | 3 | 0 | 8 |
| Killa Saifullah | 12 | 6 | 0 | 18 |
| Kohlu | 3 | 2 | 0 | 5 |
| Lasbela | 10 | 8 | 0 | 18 |
| Loralai | 17 | 7 | 0 | 24 |
| Mastung | 9 | 8 | 0 | 17 |
| Musakhail | 11 | 1 | 0 | 12 |
| Musakhel | 0 | 1 | 0 | 1 |
| Nasirabad | 9 | 6 | 0 | 15 |
| Nushki | 6 | 3 | 0 | 9 |
| Panjgur | 8 | 8 | 0 | 16 |
| Pishin | 10 | 9 | 0 | 19 |
| Quetta | 4 | 15 | 0 | 19 |
| Sherani | 4 | 2 | 0 | 6 |
| Sibi | 3 | 3 | 0 | 6 |

| BALOCHISTAN ZONE | | | | |
|--------------------------|------------|------------|----------|------------|
| District | WC | WST | PLL | Overall |
| Sohbatpur | 10 | 1 | 3 | 14 |
| Surab | 2 | 2 | 0 | 4 |
| Washuk | 1 | 1 | 0 | 2 |
| Zhab | 4 | 4 | 0 | 8 |
| Ziarat | 4 | 4 | 0 | 8 |
| Balochistan Total | 203 | 148 | 7 | 358 |

3.4.2 Post Field Activities

The ME&IE Consultants performed the following quality assurance and data re-validation activities to ensure thorough and accurate review of the submitted baseline and endline survey draft reports. These activities aim at to enhance the completeness, quality, and clarity of the reports in preparation for the upcoming second draft:

1. Detailed Data Review and Error Checking

Deep Data Consistency Check: Rechecked data consistency across the baseline and impact surveys, ensuring all fields (e.g., water savings, and income increases) align logically across different Units/sections and zones.

Anomaly Detection: Identified and investigated data outliers or anomalies, particularly in areas like crop yields or income changes. It was looked at for any extreme/ odd values that may have led to distort the overall trends or calculations.

2. Statistical Validation

Cross-Verification with Statistical Models: Used basic statistical tests to validate trends between pre- and post-intervention data, ensuring statistical inferential significances in yield and income data changes.

Re-Evaluation of Calculated Averages and Totals: Recalculated averages and totals for key variables (e.g., water savings, income growth) to ensure accuracy. The estimated values compared with the initial values to confirm stability.

3. Focused Comparison and Trend Analysis

Zone-by-Zone Review: Reassessed data of each zone and unit (Punjab, KP, Balochistan, ICT, AJK, GB) independently, ensured that data trends and findings align with the specific regional context.

Detailed Pre-and Post-Intervention Comparison: closely watched the changes in crop yields, incomes, and cultivated area metrics for each intervention, verifying accuracy and clarity in reporting.

4. Enhanced Data Cleaning

Further Error Correction: Performed additional data cleaning of fields that contained minor inconsistencies or errors.

Data Deduplication: Re-examined/ reconciled datasets for duplicate entries, particularly in farmer or location data, to ensure no redundancies effect on the final analysis.

5. Final Report Structure and Content Review

Review of Report Tables and Visuals: Carefully assessed each table, chart, and graph for accuracy, readability, and relevance, and verified that figures and labels accurately represent the data.

Improved Visualization and Narratives: Add clear, descriptive captions to all tables and visuals to help the client understand key findings at a glance. Summarize the findings succinctly in each section.

Through this report, we once again request yours good office's feedback on our submitted Baseline Survey Report - Consolidated (Draft) and Endline Survey Report (Draft) which we have still not received from your office after lapse of almost a month.

Presently, we are preparing to submit the second Draft of the two aforementioned reports, incorporating improvements made following the quality assurance processes completed in October 2024.

3.4.3 Coordination / Meetings with Stakeholders / Beneficiaries

The coordination meetings with stakeholders / beneficiaries of the project were necessary to know the operational activities of OFWM and the collection of required information/data. It was a regular practice of ME&IE consultants used to be followed every month. During the reporting month, the ME&IE Consultants KP Zonal team remained in touch with the KP OFWM Department and held weekly discussions with Mr. Mehboob Alam, the GIS Specialist. During the reporting month, the DTL Balochistan Zone maintained regular contact with the Balochistan OFWM Department. Key meetings included a discussion with Mr. Mehboob Ali Baloch, Director General of OFWM Balochistan, held at his office in Quetta on October 3, 2024. This was followed by a meeting with Mr. Asif Shulla, DDA OFWM Quetta, on October 7, 2024, and another with Mr. Sanaa u all Badani, DDA OFWM Had Outer Quetta, on October 21, 2024.

3.5 SOCIAL & GENDER IMPACT REPORT – OCTOBER 2024

Gaps Identified in Women's Participation in National Programme for Improvement of Water Courses (NPIWC-II):

Institutional Gaps:

1. Limited representation of women in Water Users Associations (WUAs).
2. Inadequate women's participation in decision-making processes.
3. Lack of gender-sensitive policies and guidelines.

Social Gaps:

1. Cultural and social barriers restricting women's mobility and participation, mainly due to manifestation of male dominant society prevalent.
2. Limited access to education and training for women.
3. Gender-based violence and harassment.

Economic Gaps:

1. Limited access to credit and financial services for women farmers.
2. Inequitable distribution of benefits and resources.
3. Lack of economic empowerment opportunities.

Technical Gaps:

1. Limited access to irrigation technology and equipment for women farmers.
2. Inadequate training on water management and agriculture.
3. Lack of extension/ advisory services targeting women farmers/ folks.

Capacity Building Gaps:

1. Limited capacity building programs for women folks.
2. Inadequate training on leadership and decision-making.
3. Lack of mentorship opportunities.

Monitoring and Evaluation Gaps:

1. Limited sex-disaggregated data collection.
2. Inadequate monitoring of women's participation.

3. Lack of evaluation of gender-related outcomes.

Recommended Interventions:

1. Conduct gender sensitization training for WUA members.
2. Establish women's sub-committees within WUAs.
3. Provide training on agriculture, water management, and leadership.
4. Develop gender-sensitive policies and guidelines.
5. Increase access to credit and financial services.
6. Promote women's economic empowerment.
7. Enhance monitoring and evaluation of women's participation.

Action Plan:

Short-Term (0-12 months)

1. Conduct gender analysis and baseline survey.
2. Develop gender-sensitive policies and guidelines.
3. Establish women's sub-committees within WUAs.

Medium-Term (13-24 months)

1. Provide training on agriculture, water management, and leadership.
2. Increase access to credit and financial services.
3. Promote women's economic empowerment.

Long-Term (25-36 months)

1. Scale up successful initiatives.
2. Mainstream gender-sensitive approaches.
3. Evaluate program impact on women's empowerment.

Budget Allocation:

1. Capacity building and training (35%).
2. Women's empowerment initiatives (25%).
3. Infrastructure development (20%).
4. Monitoring and evaluation (20%).

Partnerships:

1. Government departments (water resources, agriculture, women development).
2. NGOs and CSOs.
3. Private sector (irrigation equipment, agricultural inputs).
4. International organizations (UN Women, FAO).

The inclusion of women in Water User Associations (WUAs) and water courses improvement in phase III of NPIWC-II is crucial for sustainable water resource management. Here is some potential way forward:

1. Awareness Raising and Capacity Building:

- Workshops and Trainings: Conduct workshops and training sessions specifically targeting women to educate them about the importance of WUAs, their roles and responsibilities, and the benefits of participating.
- Community Outreach: Organize community outreach programs to raise awareness about women's rights to access and manage water resources.
- Mentorship Programs: Establish mentorship programs where experienced women can guide and support newer members in understanding WUA operations and decision-making processes.

2. Gender-Sensitive Policies and Guidelines:

- Inclusive Policies: Develop and implement policies and guidelines that promote gender equality and ensure women's active participation in WUAs.
- Quota Systems: Consider implementing quota systems to guarantee a certain percentage of women representation in WUA leadership positions.
- Gender-Specific Training: Provide gender-specific training to WUA members to address gender-based challenges and promote effective communication and collaboration.

3. Community-Based Approaches:

- Participatory Budgeting: Involve women in participatory budgeting processes to ensure that their needs and priorities are reflected in WUA activities and resource allocation.
- Community-Led Initiatives: Support community-led initiatives that promote women's empowerment and leadership in water management.
- Women's Groups: Encourage the formation of women's groups within WUAs to provide a platform for women to discuss their concerns, share experiences, and advocate for their rights.

4. Addressing Gender-Specific Challenges:

- Childcare Facilities: Provide childcare facilities or arrangements to enable women to participate in WUA meetings and activities without worrying about their children care.

- Financial Support: Offer financial assistance to women to cover transportation costs and other expenses related to WUA participation.
- Safety Measures: Ensure that WUA meetings and activities take place in safe and accessible environments.

5. Monitoring and Evaluation:

- Regular Assessments: Conduct regular assessments to monitor the progress of women's participation in WUAs and the effectiveness of implemented measures.
- Feedback Mechanisms: Establish feedback mechanisms to gather input from women on their experiences and identify gaps for improvement.
- Learning and Adaptation: Continuously learn from feedback, experiences and adapt strategies to ensure that women's participation in WUAs is meaningful and sustainable.

By implementing these strategies, NPIWC-II can effectively promote women's participation in WUAs and contribute to the sustainable management of water resources in Pakistan.

3.6 ICT TEAM ASSIGNMENTS

3.6.1 Implementation of MIS Dashboard

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

The progress of Interventions is live on the Dashboard application.

| Punjab – WC Data – Summary | | | | | |
|----------------------------|-------|-------|-------|-------|---------|
| Division | 19-20 | 20-21 | 21-22 | 22-23 | Overall |
| Bahawalpur | 167 | 197 | 326 | 15 | 705 |
| D.G Khan | 154 | 78 | 263 | 1 | 496 |
| Faisalabad | 88 | 61 | 203 | 35 | 387 |
| Gujranwala | 63 | 28 | 109 | 1 | 201 |
| Gujrat | 44 | 30 | 125 | 0 | 199 |
| Lahore | 72 | 42 | 134 | 7 | 255 |
| Multan | 168 | 81 | 311 | 2 | 562 |
| Sahiwal | 94 | 86 | 222 | 0 | 402 |
| Sargodha | 100 | 95 | 357 | 3 | 555 |
| Overall | 950 | 698 | 2050 | 64 | 3762 |

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

| Punjab – WSP Data Summary | | | | |
|---------------------------|---------|---------|---------|---------|
| Division | 2019-20 | 2020-21 | 2021-22 | Overall |
| Bahawalpur | 23 | 46 | 91 | 160 |
| D.G Khan | 27 | 30 | 25 | 82 |
| Faisalabad | 24 | 48 | 57 | 129 |
| Gujranwala | 0 | 4 | 2 | 6 |
| Gujrat | 2 | 10 | 29 | 41 |
| 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 | 130 | 439 | 582 | 1151 |

Total **1151** Water Storage Ponds data have been received from Punjab zone and available live on GIS Dashboard. (Detailed Summary attached as **Annex-G**.

| Punjab – PLL Data Summary | | | | | | |
|---------------------------|-------|-------|-------|-------|-------|---------|
| Division | 19-20 | 20-21 | 21-22 | 22-23 | 22-23 | Overall |
| Bahawalpur | 81 | 289 | 344 | 88 | 8 | 810 |
| D.G Khan | 50 | 225 | 272 | 93 | 14 | 654 |
| Faisalabad | 93 | 315 | 380 | 109 | 24 | 921 |
| Gujranwala | 49 | 213 | 278 | 30 | 6 | 576 |
| Gujrat | 52 | 159 | 222 | 43 | 5 | 481 |
| Lahore | 64 | 231 | 321 | 87 | 3 | 706 |
| Multan | 102 | 228 | 266 | 78 | 11 | 685 |
| Sahiwal | 71 | 159 | 274 | 91 | 1 | 596 |
| Sargodha | 78 | 235 | 311 | 56 | 3 | 683 |
| Overall | 640 | 2054 | 2668 | 675 | 75 | 6112 |

So far, Total **6,112** 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-H**.

| KP – WC Data Summary | | | | | | |
|----------------------|-------|-------|-------|-------|-------|---------|
| Division | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Overall |
| Bajaur | 3 | 18 | 23 | 17 | 12 | 73 |
| Bannu | 73 | 40 | 94 | 27 | 0 | 234 |
| D.I. Khan | 446 | 10 | 80 | 38 | 10 | 584 |
| Hazara | 88 | 62 | 141 | 76 | 10 | 377 |
| Khyber | 6 | 13 | 0 | 1 | 20 | 40 |
| Kohat | 98 | 40 | 57 | 28 | 20 | 243 |
| Kurram | 3 | 5 | 5 | 0 | 0 | 13 |
| Malakand | 178 | 174 | 474 | 92 | 95 | 1013 |
| Mardan | 105 | 64 | 88 | 26 | 38 | 321 |
| Mohmand | 4 | 40 | 16 | 30 | 0 | 90 |
| N Waziristan | 0 | 0 | 5 | 1 | 0 | 6 |
| Orakzai | 0 | 1 | 0 | 0 | 0 | 1 |
| Peshawar | 139 | 87 | 73 | 53 | 16 | 368 |
| S Waziristan | 5 | 10 | 14 | 7 | 0 | 36 |
| Overall | 1148 | 564 | 1070 | 396 | 221 | 3399 |

As of now, **3,399** watercourse datasets from the KP zone have been received, all of which are live on the GIS Dashboard. Of these, **3,330** watercourses have been lined, with work in progress on the remaining **54** at various stages, including 1st Milestone, 2nd Milestone, and after Work Order Issuance. Additionally, **15** watercourses are awaiting approval for Technical Sanction. These figures have been revised following data verification and rectification. Detailed Summary attached as **Annex-I**.

| KP – WST Data Summary | | | | | | |
|-----------------------|---------|---------|---------|---------|---------|---------|
| Division | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | Overall |
| Bajaur | 1 | 9 | 6 | 1 | 0 | 17 |
| Bannu | 12 | 10 | 23 | 2 | 0 | 47 |
| D.I. Khan | 80 | 6 | 30 | 4 | 5 | 125 |
| Hazara | 29 | 44 | 75 | 20 | 2 | 170 |
| Khyber | 1 | 9 | 0 | 0 | 7 | 17 |
| Kohat | 27 | 17 | 32 | 14 | 0 | 90 |
| Kurram | 1 | 1 | 0 | 0 | 0 | 2 |
| Malakand | 74 | 95 | 187 | 22 | 18 | 396 |
| Mardan | 16 | 9 | 26 | 4 | 19 | 74 |
| Mohmand | 1 | 42 | 70 | 0 | 0 | 113 |
| N Waziristan | 0 | 8 | 7 | 0 | 0 | 15 |
| Orakzai | 0 | 2 | 0 | 0 | 0 | 2 |
| Peshawar | 36 | 26 | 62 | 19 | 16 | 159 |
| S Waziristan | 7 | 8 | 15 | 2 | 0 | 32 |
| Overall | 285 | 286 | 533 | 88 | 67 | 1259 |

A total of **1,259** Water Storage Tank submissions have been received. Of these, **1,253** have been completed, while work is still in progress on **4** tanks. Additionally, **5** Water Storage Tanks are pending at the Technical Sanction (TS) stage. These figures have been revised following data verification and rectification. Detailed Summary attached as **Annex-J**.

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

As of now, **50** PLLs have been delivered, with partial data received from the KP zone, all of which is available live on the GIS Dashboard. Detailed Summary attached as **Annex-K**.

| Balochistan – WC Data Summary | | | | | |
|-------------------------------|-------------|------------|-------------|-----------|-------------|
| Division | 2019-20 | 2020-21 | 2021-22 | 2022-23 | Overall |
| Kalat | 597 | 143 | 287 | 0 | 1027 |
| Loralai | 344 | 148 | 137 | 37 | 666 |
| Makran | 204 | 56 | 49 | 0 | 309 |
| Nasirabad | 216 | 111 | 191 | 0 | 518 |
| Quetta | 244 | 50 | 87 | 0 | 381 |
| Rakhshan | 126 | 58 | 82 | 0 | 266 |
| Sibi | 184 | 59 | 88 | 0 | 331 |
| Zhob | 232 | 69 | 81 | 3 | 385 |
| Overall | 2147 | 694 | 1002 | 40 | 3883 |

Total **3,883** Watercourses data has been received from Balochistan zone of which **3,236** Watercourses has been lined, **253** Watercourses are pending at TS Stage and remaining 394 watercourses are under progress. Detailed Summary attached as **Annex-L**.

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

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

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

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

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

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

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

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

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

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

| AJK – WC Data Summary | | | | | | |
|-----------------------|------------|------------|------------|-----------|------------|------------|
| Division | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Overall |
| MZD | 30 | 84 | 53 | 29 | 50 | 246 |
| Poonch | 33 | 32 | 30 | 8 | 48 | 151 |
| Mirpur | 37 | 96 | 72 | 21 | 73 | 299 |
| Overall | 100 | 212 | 155 | 58 | 171 | 696 |

A total of **696** Watercourse data sets have been received from the AJK zone. Among these, **571** Watercourses have been lined, while **16** are currently pending at the TS & Work Order Stage. Additionally, there are **109** watercourses currently under progress. These figures have been revised following data verification and rectification. Detailed Summary attached as **Annex-Q**.

Note: AJK-Last Water Course received date: 19 August 2024

| AJK – WST Data Summary | | | | | | |
|------------------------|-----------|------------|------------|-----------|------------|------------|
| Division | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Overall |
| MZD | 35 | 56 | 61 | 9 | 29 | 190 |
| Poonch | 13 | 41 | 62 | 34 | 92 | 242 |
| Mirpur | 2 | 15 | 31 | 6 | 46 | 100 |
| Overall | 50 | 112 | 154 | 49 | 167 | 532 |

A total of **532** Water Storage Tank data has been received from AJK zone of which **406** Water Storage Tank have been lined, **17** Water Storage Tanks are pending at TS Stage, **109** Water Storage Tanks are under progress. These figures have been revised following data verification and rectification. Detailed

Summary attached as **Annex-R**.

Note: AJK-Last WST received date: 09 August 2024

| ICT – WC Data Summary | | | | |
|-----------------------|----------|-----------|-----------|-----------|
| Division | 19-20 | 20-21 | 21-22 | 22-23 |
| ICT | 0 | 20 | 14 | 7 |
| Overall | 0 | 20 | 14 | 7 |
| | | | | 41 |

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

3.6.2 Data Rectification Meetings

The ICT team of the M&E consultants conducted a series of meetings across Punjab, KP, Balochistan, and AJK to address data discrepancies and shortages identified on the PMIS Dashboard. These meetings were held with the concerned Director Generals (DGs) and Deputy Directors (DDs) to ensure the timely communication and resolution of data issues. The discussions focused on rectifying the data in an organized and systematic manner, enabling the M&E teams to close data gaps on the Dashboard effectively and ensure accurate, up-to-date reporting for decision-making purposes.

3.6.3 M&E ICT Team Technical Support

The M&E ICT team maintains continuous communication with the Android Application amongst Enumerators across KP, AJK, and Balochistan, providing them with ongoing technical support to address issues related to data validation, rectification, and completion. This proactive approach ensures that any challenges faced by field enumerators are promptly resolved, enabling the smooth and seamless transition of data from the field to the live PMIS dashboard. The ICT team actively monitors and supports the data flow to maintain real-time accuracy and integrity of the dashboard.

3.6.4 Server Maintenance Activities

The ICT team is responsible for overseeing server maintenance activities, focusing on enhancing security measures to mitigate potential threats, such as data breaches and unauthorized access. They are supposed to implement advanced security protocols and regularly update the system infrastructure to tackle emerging threats. The M&E ICT team is dedicated in providing technical support, whenever and wherever; it is needed, ensuring the system remains secure and operational while facilitating the efficient management of field data for the PMIS dashboard.

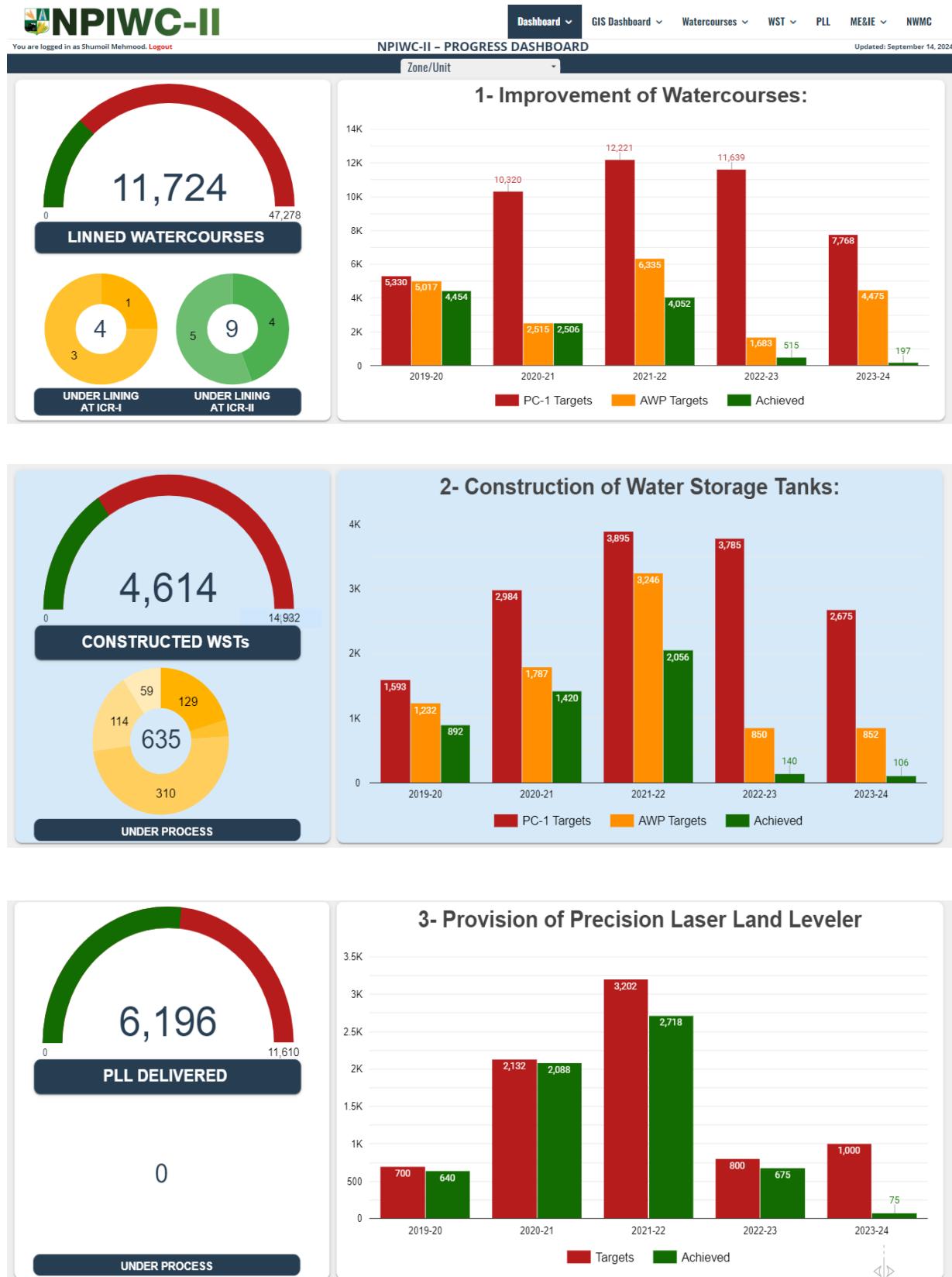
3.6.5 Refresher Training Workshops

The M&E ICT team has conducted more than 16 training/refresher training workshops since inception till date. The ICT team continues to provide support and technical assistance to all enumerators across all project territories and is prepared to offer additional refresher training sessions as needed or upon request.

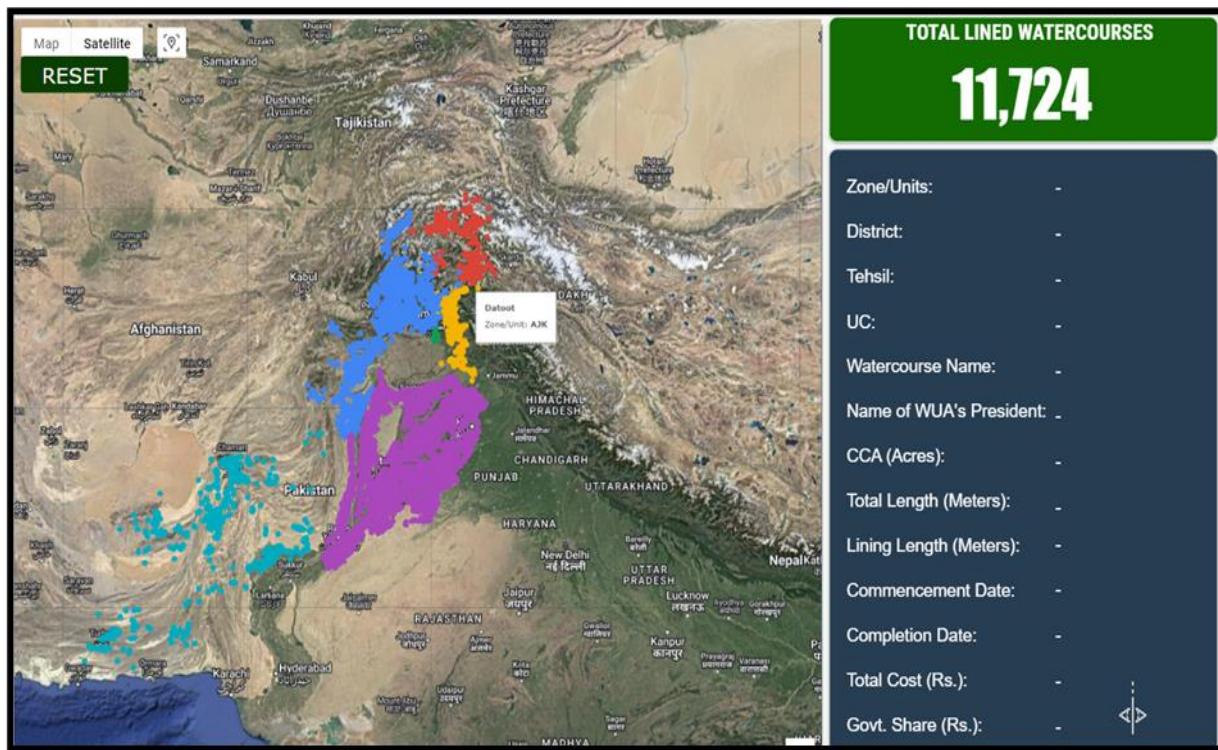
3.6.6 On-Going Data Validation & Cleaning

The data submission process is ongoing and will continue until the project concludes. Zonal Field Staff in KP and AJK are consistently entering data through a customized Android application, developed by the ICT team of ME&IE consultants. Meanwhile, the ICT team has remained actively involved in cleaning and validating the incoming data. Any identified errors are immediately communicated to the respective Zonal DDs/ADs for prompt rectification.

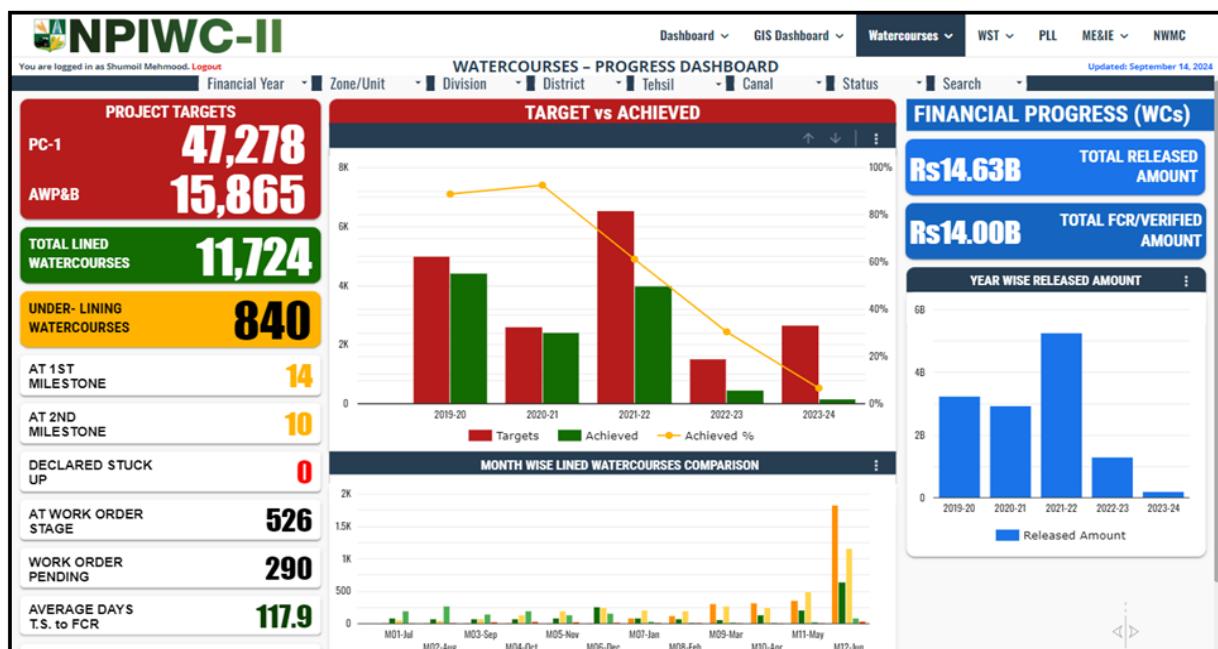
NATIONAL PMIS DASHBOARD PROGRESS



GIS Component



Watercourses Component



Water Storage Tank Component



Precision Laser Land Leveler (PLL)



CHAPTER 4: FOUR MONTHS WORK PLAN- ACTIVITIES (JULY 2024 TO OCTOBER 2024)

The ME&IE Consultants' activities initiating during the first four months of the financial year, 2024-2025 (1st July 2024 to 31th October 2024) are listed below: A tentative work plan of four months for this period is given as **Annex-A**.

4.1 PROJECT CLOSURE ACTIVITIES (ADMINISTRATIVE)

- Downsizing of ME&IE Consultants staff & approval sought of the retained Staff
- Preparing Remuneration & Reimbursable invoices
- Handing over the project assets to the client

4.2 POST FIELD ACTIVITIES

- Data Validation Process
- Data Cleaning and Preparation
- Data Analysis
- Creating Final Tables for drafting the Report

4.3 ICT ASSIGNMENT

- Improvement/Updation of website of NPIWC-II
- Monitoring online data collection and data entry
- Monitoring Android based Mobile Application under implementation by field staff.
- Data collection of interventions in MIS/GIS database
- Capacity Building Trainings / Refresher of Departments
- Data entry, Data cleaning, Data processing & data analysis.

4.4 COORDINATION

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

4.5 DELIVERABLES

- Monthly Monitoring Reports
- Quarterly Monitoring & Evaluation Report (QM&ER)
- Baseline Survey Report
- Endline Survey Report
- Special Reports
- Draft Assignment Completion 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 (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 (APR-JUN 2021) | Submitted |
| Annual Monitoring & Evaluation Report (1 st) | Submitted |
| Monthly Monitoring Report-Seventh (JULY 2021) | Submitted |
| Monthly Monitoring Report-Eighth (AUG 2021) | Submitted |
| Baseline Survey Report-I | Submitted |
| Monthly Monitoring Report-Ninth (SEPTEMBER 2021) | Submitted |
| Quarterly Monitoring & Evaluation Report (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 year 2021 (OCTOBER – DECEMBER 2021) | Submitted |
| Monthly Monitoring Report-Thirteenth (JANUARY 2022) | Submitted |
| Monthly Monitoring Report-Fourteenth (FEBRUARY 2022) | Submitted |
| Monthly Monitoring Report-Fifteen (MARCH 2022) | Submitted |
| Quarterly Monitoring & Evaluation Report- year 2022 (JANUARY – MARCH 2022) | Submitted |
| Monthly Monitoring Report-Sixteen (APRIL 2022) | Submitted |

| Document | Status |
|--|--------------------------------|
| Monthly Monitoring Report-Seventeenth (MAY 2022) | Submitted |
| Monthly Monitoring Report-Eighteenth (JUNE 2022) | Submitted |
| Quarterly Monitoring & Evaluation Report- year 2022 (APRIL – JUNE 2022) | Submitted |
| Annual Monitoring & Evaluation Report (2 nd Jul 2021-June 2022) | Submitted |
| Monthly Monitoring Report-Nineteenth (JULY 2022) | Submitted |
| Monthly Monitoring Report-Twentieth (AUGUST 2022) | Submitted |
| Monthly Monitoring Report-Twenty First (SEPTEMBER 2022) | Submitted |
| Quarterly Monitoring & Evaluation Report- year 2022 (JUL – SEP 2022) | Submitted |
| Monthly Monitoring Report-Twenty Second (OCTOBER 2022) | Submitted |
| Monthly Monitoring Report-Twenty Third (NOVEMBER 2022) | Submitted |
| Monthly Monitoring Report-Twenty Fourth (DECEMBER 2022) | Submitted |
| Monthly Monitoring Report-Twenty Fifth (JANUARY 2023) | Submitted |
| Monthly Monitoring Report-Twenty Sixth (FEBRUARY 2023) | Submitted |
| Monthly Monitoring Report-Twenty Seventh (March 2023) | Submitted |
| Monthly Monitoring Report-Twenty-eighth (April 2023) | Submitted |
| Quarterly Monitoring & Evaluation Report- year 2023 (JAN – MAR 2023) | Submitted |
| Monthly Monitoring Report-Twenty-Ninth (May 2023) | Submitted |
| Monthly Monitoring Report-Thirtieth (June 2023) | Submitted |
| Monthly Monitoring Report-Thirty First (July 2023) | Submitted |
| Monthly Monitoring Report-Thirty Second (August 2023) | Submitted |
| Monthly Monitoring Report-Thirty Third (September 2023) | Submitted |
| Quarterly Monitoring & Evaluation Report-1 st Quarter year 2023 (Jul – Sep 2023) | Submitted |
| Monthly Monitoring Report-Thirty Fourth (October 2023) | Submitted |
| Monthly Monitoring Report-Thirty | Submitted |
| Document | Status |
| Fifth (November 2023) | |
| Monthly Monitoring Report-Thirty Sixth (December 2023) | Submitted |
| Quarterly Monitoring & Evaluation Report-2 nd Quarter year 2023-24 (Oct – Dec 2023) | Submitted |
| Monthly Monitoring Report-Thirty Seventh (January 2024) | Submitted |
| Monthly Monitoring Report-Thirty Eighth (February 2024) | Submitted |
| Monthly Monitoring Report-Thirty Ninth (March 2024) | Submitted |
| Quarterly Monitoring & Evaluation Report- year 2023-24 (Jan – Mar 2024) | Submitted |
| Monthly Monitoring Report-Fortieth (April 2024) | Submitted |
| Monthly Monitoring Report-Forty First (May 2024) | Submitted |
| Monthly Monitoring Report-Forty Second (June 2024) | Submitted |
| Quarterly Monitoring & Evaluation Report- year 2023-24 (Apr – Jun 2024) | Submitted |
| Monthly Monitoring Report-Forty Third (July 2024) | Submitted |
| Monthly Monitoring Report-Forty fourth (August 2024) | Submitted |
| Monthly Monitoring Report-Forty fifth (September 2024) | Submitted |
| Quarterly Monitoring & Evaluation Report- year 2024-25 (Jul – Sep 2024) | Submitted |
| Monthly Monitoring Report-Forty Sixth (October 2024) | Report in hand being submitted |
| Baseline Survey Report - II | Submitted |
| Baseline Survey Report-II (Updated version WC) | Submitted |
| Baseline Survey Report -II (Draft version of WSTs) | Submitted |
| Mid-Line Monitoring & Impact Evaluation Report | Submitted |
| Consolidated Baseline Survey Report (Phase-I&II) | Submitted |
| Mid-Term Monitoring and Impact Evaluation Report | Submitted |
| Baseline Survey Report – Consolidated (Draft) | Submitted |
| Endline Survey Report (Draft) | Submitted |
| Special Reports submitted: 1) Monitoring Tools | Submitted |

| Document | Status |
|---|-----------|
| 2) Survey Manual on MTs | Submitted |
| 3) PAM | Submitted |
| 4) Working Paper on Technology and Methodology for Implementation of Android Based Field Progress Data Collection and GIS Based Progress Monitoring Analytical Dashboard. | Submitted |
| 5) Survey Methodology & Questionnaires for Baseline Survey Phase-II | Submitted |
| 6) Baseline-End Line Manual Survey Manual | Submitted |
| 7) Android Application PMIS Dashboard Manual | Submitted |
| 8) Survey Manual on MTs (Updated) | Submitted |
| 9) Water Saving Through NPIWC-II Project Interventions | Submitted |
| 10) Special Report on Monitoring and Impact Evaluation of Precision (Laser) Land Leveling | Submitted |
| 11) Monitoring, Evaluation, and Impact Analysis of The Project "NPIWC-II". | Submitted |

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

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

4.6 MATRIX OF RESPONSIBILITIES

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

CHAPTER 5: ISSUES / BOTTLENECKS

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

- Due to non-availability of NWMC (NESPAK) deliverables / reports, ME&IE Consultants are facing problems to monitor & evaluate the working of NWMC. In this regard, the cooperation and coordination of NWMCs as well as the relevant Directorates are required.
- Non-availability of Technical Sanctions of the watercourses.
- Non-availability of complete up-to-date inventory / data of all interventions from the Client, Provincial Agricultural Departments (OFWM) & NWMCs (NESPAK) till to date.
- Irregularity in the fund releases is also one of the key difficulties in the completion of the required project assignments/tasks, on time.

ANNEXES A to T

ANNEXURE A: TENTATIVE WORK PLAN FOR THE FOUR MONTHS (JUL-OCT 2024)

| TENTATIVE WORK PLANNED FOR THE FOUR MONTHS (July 2024 To October 2024) | | | | | | | | | | | | | | Legend | |
|---|--|--|------|------|------|------|------|------|------|------|------|------|------|--------|--|
| No. | ACTIVITIES | 4 Months-Year 2024 (Weeks) | | | | | | | | | | | | | |
| | | July | | | | Aug | | | | Sep | | | | Oct | |
| | | WK-1 | WK-2 | WK-3 | WK-4 | WK-1 | WK-2 | WK-3 | WK-4 | WK-1 | WK-2 | WK-3 | WK-4 | WK-1 | |
| 1 | Project Closure Activities (Administrative) | | | | | | | | | | | | | | |
| | 1.1 | Downsizing of ME&IE Consultants staff & approval of retained Staff | | | | | | | | | | | | | |
| | 1.2 | Preparing Remuneration & Reimbursable invoices | | | | | | | | | | | | | |
| | 1.3 | Handing over the project assets to the client | | | | | | | | | | | | | |
| 2 | Post Field Activities | | | | | | | | | | | | | | |
| | 2.1 | Data Validation Process | | | | | | | | | | | | | |
| | 2.2 | Data Cleaning and Preparation | | | | | | | | | | | | | |
| | 2.3 | Data Analysis | | | | | | | | | | | | | |
| | 2.4 | Creating Final Tables for the Report | | | | | | | | | | | | | |
| 3 | ICT Assignment | | | | | | | | | | | | | | |
| | 3.1 | Improvement/Updation of website of NPIWC-II | | | | | | | | | | | | | |
| | 3.2 | Monitoring online data collection and data entry | | | | | | | | | | | | | |
| | 3.3 | Monitoring Android based Mobile Application under implementation by field staff. | | | | | | | | | | | | | |
| | 3.4 | Data collection of interventions in MIS/GIS database | | | | | | | | | | | | | |
| | 3.5 | Capacity Building Trainings / Refresher of Departments | | | | | | | | | | | | | |
| | 3.6 | Data entry, Data cleaning, Data processing & data analysis. | | | | | | | | | | | | | |
| 4 | Coordination | | | | | | | | | | | | | | |
| | 4.1 | Meetings of TL with NPC and OFWM Departments regarding Project Progress / Issues | | | | | | | | | | | | | |
| | 4.2 | Meeting of DTLs with respective DTL of PC & concerned OFWM Departments | | | | | | | | | | | | | |
| | 4.3 | ME&IE Consultants Internal Meetings | | | | | | | | | | | | | |
| 5 | Deliverable | | | | | | | | | | | | | | |
| | 5.1 | Monthly Monitoring Report | | | | | | | | | | | | | |
| | 5.2 | Quarterly Monitoring & Evaluation Report (Jul-Sep 2024) | | | | | | | | | | | | | |
| | 5.3 | Baseline Survey Report | | | | | | | | | | | | | |
| | 5.4 | Endline Survey Report | | | | | | | | | | | | | |
| | 5.5 | Special Reports | | | | | | | | | | | | | |
| | 5.6 | Draft Assignment Completion Report | | | | | | | | | | | | | |

ANNEXURE B: MATRIX OF RESPONSIBILITIES

MATRIX OF RESPONSIBILITIES

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

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

ANNEXURE C: MONITORING LOG-FRAME

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

| | | | | | | |
|--|------------------------|---|---|---|---|---|
| | 60% funded by project. | <p>iii. 47,278 WUAs; improved and lined;</p> <p>iv. Improvement and realignment of earthen section of 47,278 watercourses;</p> <p>iv. Lining of up to 50% length of 47,278 watercourses either by:</p> <p>v. Precast concrete parabolic lining (PCPL) segments, or</p> <p>vi. Rectangular brick masonry, or any other method as approved by the project</p> | <p>ii. percentage points.</p> <p>ii. 1.654 million households benefited from the activity;</p> <p>iii. 11.347 million acres served with improved watercourses</p> | <p>ii. Increase in crop yields.</p> <p>iii. Increase in irrigated area</p> <p>iv. Increase in agriculture output per unit of water by about 37%</p> | <p>iii. labor; Reduction in poverty;</p> <p>iv. Enhanced food security for the country.</p> | <p>and after watercourse improvement on 2-5% sample basis;</p> <p>ii. Agriculture survey before and after watercourse improvement on 2-5% sample basis;</p> <p>iii. The survey will determine:</p> <p>iv. Cropping pattern before and after the improvement;</p> <p>v. Cropping intensities before and after improvement;</p> <ul style="list-style-type: none"> • Before and after crop yields; • Before and |
|--|------------------------|---|---|---|---|---|

| | | | | | | | | | |
|---|--|--|---|---|---|---|--|--|---|
| | | | | | | | | | after employment; 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. |
| C3: Construction of Water Storage Tanks (WSTs) | i. Construction of 14,932 water storage tanks | i. 14,932 small farmers mobilized to construct water storage tanks for irrigation ii. They agree to contribute 40% of the cost iii. Agree to first construct the tank with his/her own | i. 14,932 constructed WSTs ii. 14,932 operated and maintained | i. Water which was otherwise largely going to be wasted is saved ii. Irrigation provided at critical stages of the crops ii. Flexibility achieved for irrigation | i. More area irrigated ii. Increased cropping intensities | i. Increased crop yields ii. Increased total crop output iii. Increased farm income iv. Increased farm employment | i. 2-5% sample of WSTs will be surveyed iii. A data collection form will be designed to measure water saving due to WSTs iv. The forms used for baseline and | | |

| | | | | | | | | |
|---|---|---|--|--|--|--|--|---|
| | | funds and then received subsidy at 40% on issuance of FCR | | | | | | impact surveys in case of watercourses will also be used for WSTs |
| C4: Provision of Land Leveling Units | i. Provision of 11,610 laser land leveling units to farmers and service providers on a cost sharing basis: 50% by farmer / service provider and 50% by the project. | i. 11,610 laser units provided to farmers / service providers; ii. Farmers trained in using the units. | i. 11,610 farmers / service providers received PLL units; ii. Farmers / service providers received training in using the units. | i. Land leveled on Farmers' / service providers' farms; vi. Land leveled on fellow farmers on rent; vii. Total 3.483million acres leveled by 11,610 units. | i. Water application efficiency increased at field level; viii. Even germination of seed. ix. Field application losses reduced by 10 percentage points x. Water productivity increased by 24% | i. Increased area under irrigated crops; ii. Enhanced crop yields iii. Increased farm income | i. The land leveling is expected to save irrigation water and result in better and even germination of seeds which can enhance crop yields. The crop yields thus affected will be reflected in agriculture | |

| | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|---|
| | | | | | | | | | | | sample surveys. xi. 2-4% sample units will be visited by ME&IE Consultants teams after one years of delivery xii. The unit will be verified xiii. Area treated during the year will be collected xiv. Farmers' feedback collected on quality of the unit, quality of the after-sale service, etc. |
|--|--|--|--|--|--|--|--|--|--|--|---|

ANNEXURE D: DELIVERABLES / REPORTING REQUIREMENTS

Deliverables/Reporting Requirements

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

**ANNEXURE E: ECOLOGICAL ZONE WISE ACHIEVEMENTS OF M&E
CONSULTANT OF VARIOUS INTERVENTIONS IN PUNJAB ZONE**

| Ecological Zone Wise Achievement of Watercourses by ME&IE Consultants Till 30-06-2024 | | | | | |
|--|------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| Ecological zone | Districts | W.C Completed By OFWM till 30-06-2024 | Sample Size 5% ME&IE Consultants | Achievement of ME&IE Consultants | Remaining Part |
| Partial Irrigated Barani Zone | Bhakkar | 183 | 9 | 11 | -2 |
| | Mianwali | 146 | 7 | 4 | 3 |
| Sub Total | | 329 | 16 | 15 | 1 |
| Irrigated (Rice Zone) | Gujranwala | 101 | 5 | 7 | -2 |
| | Hafizabad | 85 | 4 | 10 | -6 |
| | Gujrat | 35 | 2 | 6 | -4 |
| | Narowal | 16 | 1 | 1 | 0 |
| | Sialkot | 84 | 4 | 5 | -1 |
| | Mandi Bahu Din | 79 | 4 | 4 | 0 |
| | Lahore | 23 | 1 | 2 | -1 |
| | Kasur | 83 | 4 | 6 | -2 |
| | Sheikhupura | 99 | 5 | 8 | -3 |
| | Nankana Sahib | 50 | 3 | 3 | 0 |
| Sub Total | | 655 | 33 | 52 | -19 |
| Irrigated (Mixed Zone) | Sahiwal | 145 | 7 | 8 | -1 |
| | Okara | 136 | 7 | 15 | -8 |
| | Pakpatan | 121 | 6 | 6 | 0 |
| | Faisalabad | 130 | 7 | 9 | -2 |
| | Jhang | 99 | 5 | 5 | 0 |
| | Chiniot | 34 | 2 | 3 | -1 |
| | Toba Tek Singh | 124 | 6 | 6 | 0 |
| | Khushab | 80 | 4 | 8 | -4 |
| | Sargodha | 146 | 7 | 8 | -1 |
| | Sub Total | 1015 | 51 | 68 | -17 |
| Irrigated (Cotton Zone) | Multan | 153 | 8 | 9 | -1 |
| | DG Khan | 118 | 6 | 9 | -3 |
| | Bahawalpur | 154 | 8 | 9 | -1 |
| | Bahawalnagar | 220 | 11 | 22 | -11 |
| | Rahim Yar Khan | 331 | 17 | 18 | -1 |
| | Lodhran | 154 | 8 | 15 | -7 |
| | Khanewal | 123 | 6 | 7 | -1 |
| | Rajanpur | 119 | 6 | 6 | 0 |
| | Muzaffargarh | 133 | 7 | 6 | 1 |
| | Layyah | 126 | 6 | 8 | -2 |
| Sub Total | | 1763 | 88 | 115 | -27 |
| Grand Total | | 3762 | 189 | 250 | -61 |
| Updated Figure provided by Punjab OFWM Department (Completed WC till 30-06-2024) | | 4063 | 203 | 250 | -47 |

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

| Ecological Zone Wise Achievement of LLL Units by ME&IE Consultants Till 30-06-2024 | | | | | |
|--|----------------|--|----------------------------------|----------------------------------|-------------------|
| Ecological zone | Districts | Total No of Laser Land Levelling units Delivered By OFWM till 30-06-2023 | Sample Size 5% ME&IE Consultants | Achievement of ME&IE Consultants | Remaining Balance |
| Partial Irrigated Barani Zone | Bhakkar | 191 | 10 | 10 | 0 |
| | Mianwali | 146 | 7 | 7 | 0 |
| Sub Total | | 337 | 17 | 17 | 0 |
| Irrigated (Rice Zone) | Gujranwala | 235 | 12 | 12 | 0 |
| | Hafizabad | 188 | 9 | 10 | -1 |
| | Gujrat | 115 | 6 | 6 | 0 |
| | Narowal | 139 | 7 | 7 | 0 |
| | Sialkot | 196 | 10 | 5 | 5 |
| | Mandi Bahu Din | 163 | 8 | 8 | 0 |
| | Lahore | 97 | 5 | 6 | -1 |
| | Kasur | 240 | 12 | 12 | 0 |
| | Sheikhupura | 228 | 11 | 7 | 4 |
| | Nankana Sahib | 140 | 7 | 7 | 0 |
| Sub Total | | 1741 | 87 | 80 | 7 |
| Irrigated (Mixed Zone) | Sahiwal | 208 | 10 | 8 | 2 |
| | Okara | 203 | 10 | 7 | 3 |
| | Pakpatan | 180 | 9 | 11 | -2 |
| | Faisalabad | 275 | 14 | 14 | 0 |
| | Jhang | 253 | 13 | 15 | -2 |
| | Chiniot | 159 | 8 | 15 | -7 |
| | Toba Tek Singh | 206 | 10 | 9 | 1 |
| | Khushab | 118 | 6 | 8 | -2 |
| | Sargodha | 219 | 11 | 6 | 5 |
| Sub Total | | 1821 | 91 | 93 | -2 |
| Irrigated (Cotton Zone) | Multan | 139 | 7 | 8 | -1 |
| | khanewal | 187 | 9 | 9 | 0 |
| | Vehari | 199 | 10 | 8 | 2 |
| | Lodhran | 149 | 7 | 8 | -1 |
| | Bahawalpur | 257 | 13 | 12 | 1 |
| | Bahawalnagar | 282 | 14 | 15 | -1 |
| | Rahim Yar Khan | 264 | 13 | 14 | -1 |
| | DG Khan | 123 | 6 | 8 | -2 |
| | Rajanpur | 123 | 6 | 6 | 0 |
| | Muzaffargarh | 235 | 12 | 12 | 0 |
| Sub Total | | 2124 | 106 | 116 | -10 |
| Grand Total | | 6023 | 301 | 306 | -5 |

ANNEXURE F: PUNJAB - WATERCOURSE DATA SUBMISSION – SUMMARY

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

ANNEXURE G: PUNJAB - WSP DATA SUBMISSION – SUMMARY

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

ANNEXURE H: PUNJAB - PLL DATA SUBMISSION – SUMMARY

| Division | District | Delivered | Under Progress | Overall |
|------------------------------|-----------------|-------------|----------------|-------------|
| Bahawalpur | Bahawalnagar | 301 | 0 | 301 |
| Bahawalpur | Bahawalpur | 239 | 0 | 239 |
| Bahawalpur | Rahim Yar Khan | 270 | 0 | 270 |
| Bahawalpur Total | | 810 | 0 | 810 |
| Dera Ghazi Khan | Dera Ghazi Khan | 137 | 0 | 137 |
| Dera Ghazi Khan | Layyah | 165 | 0 | 165 |
| Dera Ghazi Khan | Muzaffargarh | 232 | 0 | 232 |
| Dera Ghazi Khan | Rajanpur | 120 | 0 | 120 |
| Dera Ghazi Khan Total | | 654 | 0 | 654 |
| Faisalabad | Chiniot | 166 | 0 | 166 |
| Faisalabad | Faisalabad | 284 | 0 | 284 |
| Faisalabad | Jhang | 256 | 0 | 256 |
| Faisalabad | Toba Tek Singh | 215 | 0 | 215 |
| Faisalabad Total | | 921 | 0 | 921 |
| Gujranwala | Gujranwala | 236 | 0 | 236 |
| Gujranwala | Narowal | 142 | 0 | 142 |
| Gujranwala | Sialkot | 198 | 0 | 198 |
| Gujranwala Total | | 576 | 0 | 576 |
| Gujrat | Gujrat | 125 | 0 | 125 |
| Gujrat | Hafizabad | 192 | 0 | 192 |
| Gujrat | Mandi Bahauddin | 164 | 0 | 164 |
| Gujrat Total | | 481 | 0 | 481 |
| Lahore | Kasur | 240 | 0 | 240 |
| Lahore | Lahore | 96 | 0 | 96 |
| Lahore | Nankana Sahib | 140 | 0 | 140 |
| Lahore | Sheikhupura | 230 | 0 | 230 |
| Lahore Total | | 706 | 0 | 706 |
| Multan | Khanewal | 188 | 0 | 188 |
| Multan | Lodhran | 149 | 0 | 149 |
| Multan | Multan | 145 | 0 | 145 |
| Multan | Vehari | 203 | 0 | 203 |
| Multan Total | | 685 | 0 | 685 |
| Sahiwal | Okara | 203 | 0 | 203 |
| Sahiwal | Pakpattan | 181 | 0 | 181 |
| Sahiwal | Sahiwal | 212 | 0 | 212 |
| Sahiwal Total | | 596 | 0 | 596 |
| Sargodha | Bhakkar | 196 | 0 | 196 |
| Sargodha | Khushab | 119 | 0 | 119 |
| Sargodha | Mianwali | 148 | 0 | 148 |
| Sargodha | Sargodha | 220 | 0 | 220 |
| Sargodha Total | | 683 | 0 | 683 |
| Overall | | 6112 | 0 | 6112 |

ANNEXURE I: KP - WATERCOURSE DATA SUBMISSION – SUMMARY

| Division | District | Completed | Under Progress | | | Pending | Overall |
|-------------------------------|------------------|-------------|----------------|---------------|-------------------|-----------|-------------|
| | | | 1st Milestone | 2nd Milestone | Work Order Issued | | |
| Bajaur | Bajaur | 73 | 0 | 0 | 0 | 0 | 73 |
| Bajaur Total | | 73 | 0 | 0 | 0 | 0 | 73 |
| Bannu | Bannu | 107 | 0 | 0 | 0 | 0 | 107 |
| Bannu | Lakki Marwat | 122 | 0 | 0 | 0 | 0 | 122 |
| Bannu Total | | 229 | 0 | 0 | 0 | 0 | 229 |
| D.I. Khan | D.I. Khan | 503 | 3 | 0 | 0 | 1 | 507 |
| D.I. Khan | Tank | 77 | 0 | 0 | 0 | 0 | 77 |
| D.I. Khan Total | | 580 | 3 | 0 | 0 | 1 | 584 |
| Hazara | Abbottabad | 34 | 0 | 0 | 0 | 0 | 34 |
| Hazara | Battagram | 49 | 0 | 0 | 0 | 0 | 49 |
| Hazara | Haripur | 74 | 0 | 0 | 0 | 0 | 74 |
| Hazara | Kolai Pallas | 2 | 0 | 0 | 0 | 0 | 2 |
| Hazara | Lower Kohistan | 20 | 0 | 0 | 0 | 0 | 20 |
| Hazara | Mansehra | 138 | 0 | 5 | 0 | 0 | 143 |
| Hazara | Torghar | 38 | 0 | 0 | 0 | 0 | 38 |
| Hazara | Upper Kohistan | 17 | 0 | 0 | 0 | 0 | 17 |
| Hazara Total | | 372 | 0 | 5 | 0 | 0 | 377 |
| Khyber | Khyber | 28 | 0 | 0 | 12 | 0 | 40 |
| Khyber Total | | 28 | 0 | 0 | 12 | 0 | 40 |
| Kohat | Hangu | 67 | 0 | 0 | 0 | 0 | 67 |
| Kohat | Karak | 84 | 0 | 0 | 0 | 0 | 84 |
| Kohat | Kohat | 92 | 0 | 0 | 0 | 0 | 92 |
| Kohat Total | | 243 | 0 | 0 | 0 | 0 | 243 |
| Kurram | Kurram | 13 | 0 | 0 | 0 | 0 | 13 |
| Kurram Total | | 13 | 0 | 0 | 0 | 0 | 13 |
| Malakand | Buner | 114 | 0 | 0 | 0 | 0 | 114 |
| Malakand | Chitral | 118 | 4 | 1 | 0 | 5 | 128 |
| Malakand | Lower Dir | 145 | 1 | 0 | 4 | 0 | 150 |
| Malakand | Malakand | 106 | 0 | 0 | 0 | 0 | 106 |
| Malakand | Shangla | 58 | 0 | 0 | 0 | 0 | 58 |
| Malakand | Swat | 300 | 1 | 1 | 17 | 0 | 319 |
| Malakand | Upper Dir | 138 | 0 | 0 | 0 | 0 | 138 |
| Malakand Total | | 979 | 6 | 2 | 21 | 5 | 1013 |
| Mardan | Mardan | 152 | 0 | 0 | 0 | 9 | 161 |
| Mardan | Swabi | 160 | 0 | 0 | 0 | 0 | 160 |
| Mardan Total | | 312 | 0 | 0 | 0 | 9 | 321 |
| Mohmand | Mohmand | 90 | 0 | 0 | 0 | 0 | 90 |
| Mohmand Total | | 90 | 0 | 0 | 0 | 0 | 90 |
| North Waziristan | North Waziristan | 8 | 0 | 3 | 0 | 0 | 11 |
| North Waziristan Total | | 8 | 0 | 3 | 0 | 0 | 11 |
| Orakzai | Orakzai | 1 | 0 | 0 | 0 | 0 | 1 |
| Orakzai Total | | 1 | 0 | 0 | 0 | 0 | 1 |
| Peshawar | Charsadda | 152 | 1 | 0 | 1 | 0 | 154 |
| Peshawar | Nowshera | 136 | 0 | 0 | 0 | 0 | 136 |
| Peshawar | Peshawar | 78 | 0 | 0 | 0 | 0 | 78 |
| Peshawar Total | | 366 | 1 | 0 | 1 | 0 | 368 |
| S.Waziristan | S.Waziristan | 36 | 0 | 0 | 0 | 0 | 36 |
| S.Waziristan Total | | 36 | 0 | 0 | 0 | 0 | 36 |
| Overall | | 3330 | 10 | 10 | 34 | 15 | 3399 |

ANNEXURE J: KP - WST DATA SUBMISSION – SUMMARY

| Division | District | Completed | Under Progress | | Pending | Overall |
|-------------------------------|------------------|-------------|----------------|-------------------|----------|-------------|
| | | | 2nd Milestone | Work Order Issued | | |
| Bajaur | Bajaur | 17 | 0 | 0 | 0 | 17 |
| Bajaur Total | | 17 | 0 | 0 | 0 | 17 |
| Bannu | Bannu | 12 | 0 | 0 | 0 | 12 |
| Bannu | Lakki Marwat | 35 | 0 | 0 | 0 | 35 |
| Bannu Total | | 47 | 0 | 0 | 0 | 47 |
| D.I. Khan | D.I. Khan | 89 | 0 | 0 | 1 | 90 |
| D.I. Khan | Tank | 35 | 0 | 0 | 0 | 35 |
| D.I. Khan Total | | 124 | 0 | 0 | 1 | 125 |
| Hazara | Abbottabad | 21 | 0 | 0 | 0 | 21 |
| Hazara | Battagram | 29 | 0 | 0 | 0 | 29 |
| Hazara | Haripur | 40 | 0 | 0 | 0 | 40 |
| Hazara | Kolai Pallas | 4 | 0 | 0 | 0 | 4 |
| Hazara | Lower Kohistan | 3 | 0 | 0 | 0 | 3 |
| Hazara | Mansehra | 45 | 3 | 0 | 0 | 48 |
| Hazara | Torghar | 14 | 0 | 0 | 0 | 14 |
| Hazara | Upper Kohistan | 11 | 0 | 0 | 0 | 11 |
| Hazara Total | | 167 | 3 | 0 | 0 | 170 |
| Khyber | Khyber | 17 | 0 | 0 | 0 | 17 |
| Khyber Total | | 17 | 0 | 0 | 0 | 17 |
| Kohat | Hangu | 12 | 0 | 0 | 0 | 12 |
| Kohat | Karak | 73 | 0 | 0 | 0 | 73 |
| Kohat | Kohat | 5 | 0 | 0 | 0 | 5 |
| Kohat Total | | 90 | 0 | 0 | 0 | 90 |
| Kurram | Kurram | 2 | 0 | 0 | 0 | 2 |
| Kurram Total | | 2 | 0 | 0 | 0 | 2 |
| Malakand | Buner | 44 | 0 | 0 | 0 | 44 |
| Malakand | Chitral | 22 | 0 | 0 | 0 | 22 |
| Malakand | Lower Dir | 41 | 0 | 0 | 0 | 41 |
| Malakand | Malakand | 24 | 0 | 0 | 0 | 24 |
| Malakand | Shangla | 40 | 0 | 0 | 0 | 40 |
| Malakand | Swat | 171 | 0 | 0 | 0 | 171 |
| Malakand | Upper Dir | 54 | 0 | 0 | 0 | 54 |
| Malakand Total | | 396 | 0 | 0 | 0 | 396 |
| Mardan | Mardan | 34 | 0 | 0 | 1 | 35 |
| Mardan | Swabi | 39 | 0 | 0 | 0 | 39 |
| Mardan Total | | 73 | 0 | 0 | 1 | 74 |
| Mohmand | Mohmand | 113 | 0 | 0 | 0 | 113 |
| Mohmand Total | | 113 | 0 | 0 | 0 | 113 |
| North Waziristan | North Waziristan | 15 | 0 | 0 | 0 | 15 |
| North Waziristan Total | | 15 | 0 | 0 | 0 | 15 |
| Orakzai | Orakzai | 2 | 0 | 0 | 0 | 2 |
| Orakzai Total | | 2 | 0 | 0 | 0 | 2 |
| Peshawar | Charsadda | 13 | 0 | 0 | 0 | 13 |
| Peshawar | Nowshera | 88 | 0 | 1 | 0 | 89 |
| Peshawar | Peshawar | 57 | 0 | 0 | 0 | 57 |
| Peshawar Total | | 158 | 0 | 1 | 0 | 159 |
| S.Waziristan | S.Waziristan | 32 | 0 | 0 | 0 | 32 |
| S.Waziristan Total | | 32 | 0 | 0 | 0 | 32 |
| Overall | | 1253 | 3 | 1 | 2 | 1259 |

ANNEXURE K: KP - PLL DATA SUBMISSION – SUMMARY

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

ANNEXURE L: BALOCHISTAN - WATERCOURSE DATA SUBMISSION –
SUMMARY

| Division | District | Completed | Under Progress | | | Pending | Overall |
|------------------------|-----------------|-------------|----------------|---------------|------------|------------|-------------|
| | | | 1st Milestone | 2nd Milestone | TS Issued | | |
| Kalat | Awaran | 150 | 0 | 0 | 0 | 1 | 151 |
| Kalat | Kalat | 281 | 0 | 0 | 0 | 1 | 282 |
| Kalat | Khuzdar | 165 | 0 | 0 | 0 | 0 | 165 |
| Kalat | Lasbela | 154 | 0 | 0 | 35 | 0 | 189 |
| Kalat | Mastung | 191 | 0 | 0 | 6 | 1 | 198 |
| Kalat | Surab | 0 | 0 | 0 | 19 | 23 | 42 |
| Kalat Total | | 941 | 0 | 0 | 60 | 26 | 1027 |
| Loralai | Barkhan | 64 | 0 | 0 | 0 | 0 | 64 |
| Loralai | Duki | 0 | 0 | 0 | 43 | 0 | 43 |
| Loralai | Loralai | 335 | 0 | 0 | 0 | 5 | 340 |
| Loralai | Musakhail | 187 | 0 | 0 | 0 | 32 | 219 |
| Loralai Total | | 586 | 0 | 0 | 43 | 37 | 666 |
| Makran | Gwadar | 23 | 0 | 0 | 0 | 0 | 23 |
| Makran | Kech | 59 | 0 | 0 | 9 | 64 | 132 |
| Makran | Panjgur | 121 | 0 | 0 | 33 | 0 | 154 |
| Makran Total | | 203 | 0 | 0 | 42 | 64 | 309 |
| Nasirabad | Jaffarabad | 141 | 0 | 0 | 0 | 0 | 141 |
| Nasirabad | Jhal Maghi | 27 | 0 | 0 | 0 | 0 | 27 |
| Nasirabad | Kachi | 4 | 0 | 0 | 97 | 1 | 102 |
| Nasirabad | Nasirabad | 55 | 0 | 0 | 86 | 28 | 169 |
| Nasirabad | Sohbatpur | 79 | 0 | 0 | 0 | 0 | 79 |
| Nasirabad Total | | 306 | 0 | 0 | 183 | 29 | 518 |
| Quetta | Killa Abdullah | 110 | 0 | 0 | 0 | 0 | 110 |
| Quetta | Pishin | 186 | 0 | 0 | 0 | 1 | 187 |
| Quetta | Quetta | 83 | 0 | 0 | 1 | 0 | 84 |
| Quetta Total | | 379 | 0 | 0 | 1 | 1 | 381 |
| Rakhshan | Chaghi | 77 | 0 | 0 | 0 | 0 | 77 |
| Rakhshan | Kharan | 26 | 0 | 0 | 2 | 40 | 68 |
| Rakhshan | Nushki | 4 | 0 | 0 | 61 | 36 | 101 |
| Rakhshan | Washuk | 18 | 0 | 0 | 0 | 2 | 20 |
| Rakhshan Total | | 125 | 0 | 0 | 63 | 78 | 266 |
| Sibi | Dera Bugti | 99 | 0 | 0 | 0 | 0 | 99 |
| Sibi | Harnai | 42 | 0 | 0 | 0 | 0 | 42 |
| Sibi | Kohlu | 58 | 0 | 0 | 0 | 0 | 58 |
| Sibi | Sibi | 60 | 0 | 0 | 0 | 0 | 60 |
| Sibi | Ziarat | 71 | 0 | 0 | 1 | 0 | 72 |
| Sibi Total | | 330 | 0 | 0 | 1 | 0 | 331 |
| Zhob | Killa Saifullah | 235 | 0 | 0 | 0 | 0 | 235 |
| Zhob | Sherani | 51 | 0 | 0 | 0 | 18 | 69 |
| Zhob | Zhob | 80 | 0 | 0 | 1 | 0 | 81 |
| Zhob Total | | 366 | 0 | 0 | 1 | 18 | 385 |
| Overall | | 3236 | 0 | 0 | 394 | 253 | 3883 |

ANNEXURE M: BALOCHISTAN - WST DATA SUBMISSION – SUMMARY

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

ANNEXURE N: BALOCHISTAN - PLL DATA SUBMISSION – SUMMARY

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

ANNEXURE O: GB - WATERCOURSES DATA SUBMISSION – SUMMARY

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

ANNEXURE P: GB - WST DATA SUBMISSION – SUMMARY

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

ANNEXURE Q: AJK- WATERCOURSES DATA SUBMISSIONS – SUMMARY

| Division | District | Completed | Under Progress | | Pending | | Overall |
|---------------------|----------|------------|----------------|-------------------|------------|--------------------|------------|
| | | | 1st Milestone | Work Order Issued | TS Pending | Work Order Pending | |
| Muzaffarad | MZD | 103 | 0 | 13 | 7 | 0 | 123 |
| | Jhelum | 32 | 0 | 10 | 0 | 1 | 43 |
| | Neelum | 72 | 1 | 7 | 0 | 0 | 80 |
| MZD Total | | 207 | 1 | 30 | 7 | 1 | 246 |
| Poonch | Poonch | 48 | 1 | 8 | 0 | 0 | 57 |
| | Bagh | 31 | 0 | 7 | 0 | 0 | 38 |
| | Haveli | 10 | 1 | 2 | 0 | 0 | 13 |
| | Sudhnoti | 24 | 1 | 16 | 0 | 2 | 43 |
| Poonch Total | | 113 | 3 | 33 | 0 | 2 | 151 |
| Mirpur | Mirpur | 84 | 0 | 2 | 0 | 1 | 87 |
| | Bhimber | 125 | 0 | 32 | 0 | 0 | 157 |
| | Kotli | 42 | 0 | 8 | 0 | 5 | 55 |
| Mirpur Total | | 251 | 0 | 42 | 0 | 6 | 299 |
| Overall | | 571 | 4 | 105 | 7 | 9 | 696 |

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

| Division | District | Completed | Under Progress | | | Pending | | Overall |
|--------------|----------|-----------|----------------|---------------|-------------------|------------|--------------------|---------|
| | | | 1st Milestone | 2nd Milestone | Work Order Issued | TS Pending | Work Order Pending | |
| MJD | MJD | 144 | 1 | 0 | 16 | 0 | 0 | 161 |
| | Jhelum | 25 | 0 | 0 | 0 | 2 | 0 | 27 |
| | Neelum | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
| MJD Total | | 169 | 1 | 0 | 17 | 3 | 0 | 190 |
| Poonch | Poonch | 64 | 1 | 1 | 7 | 0 | 0 | 73 |
| | Bagh | 57 | 1 | 0 | 21 | 0 | 0 | 79 |
| | Haveli | 29 | 0 | 0 | 5 | 2 | 0 | 36 |
| | Sudhnoti | 25 | 1 | 0 | 28 | 0 | 0 | 54 |
| Poonch Total | | 175 | 3 | 1 | 61 | 2 | 0 | 242 |
| Mirpur | Mirpur | 14 | 0 | 0 | 1 | 0 | 0 | 15 |
| | Bhimber | 12 | 0 | 0 | 8 | 0 | 0 | 20 |
| | Kotli | 36 | 0 | 0 | 17 | 0 | 12 | 65 |
| Mirpur Total | | 62 | 0 | 0 | 26 | 0 | 12 | 100 |
| Overall | | 406 | 4 | 1 | 104 | 5 | 12 | 532 |

ANNEXURE S: ICT - WATERCOURSE DATA SUBMISSION – SUMMARY

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

ANNEXURE T: FPMU LETTER REGARDING ME&IE CONSULTANTS CONTINUATION OF SERVICES



No.F.1-7/2018-PLAN(WM)
Government of Pakistan
Ministry of National Food Security & Research
Federal Project Management Unit,

Tel: 051-9252463
Fax: 051-9252442

2nd Floor, Plot No. 4, Sitara Market G-7 Markaz,
Islamabad, the 9th October, 2024

Subject: NPIWC-II, ME & IE CONSULTANTS CONTINUATION OF SERVICES

I am directed to refer this letter and stated that reference to our earlier correspondence with your office regarding subject Project extension. The ME&IE Consultants' Contract Agreement on the subject project will be expired on October 25th, 2024. However, in view of the instruction of the Ministry of National Food Security & Research Islamabad (Copy of Minutes of meeting is attached), you are hereby conveyed to continue the Consultants services with approved minimum staff until the decision of the project. Hold the ME & IE consultants National office and Deputy Team Leader offices along with the project assets till further orders.

2. In this regard, the Consultants' liabilities will be settled, subject to the release of funds to FPMU, NPIWC-II, Islamabad.

3. This issues with the approval of National Projects Coordinator.

Dr. Muhammad Tahir
Deputy Director (Coord)
FPMU

Team Leader
ME & IE Consultants,
Islamabad

CC:

- Master File