



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

Water saving
in agriculture

QUARTERLY MONITORING AND EVALUATION REPORT

APRIL-JUNE 2022

WATER CONSERVATION IN BARANI AREAS OF KHYBER PAKHTUNKHWA (WC-KP)

MONITORING, EVALUATION AND
IMPACT EVALUATION (ME&IE) CONSULTANTS

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



In Association with **S&S Associates**



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

Monitoring, Evaluation and Impact Evaluation (ME&IE) Consultants
For
Water Conservation in Barani Areas of Khyber Pakhtunkhwa

QUARTERLY MONITORING REPORT

APRIL-JUNE 2022

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ACRONYMS

ADA	Assistant Director Agriculture
AF	Acre-Feet
ALCI	Agronomic Low-Cost Interventions
AWPB	Annual Work Plan and Budget
AWPs	Annual Work Plans
BCR	Benefit Cost Ratio
CB	Capacity Building
CMS	Content Management System
CSRD	Center for Social Research and Development
DAE	Directorate of Agriculture Engineering
DDA	Deputy Director Agriculture
DGW&SC	Directorate General of Water & Soil Conservations
EAs	Executing Agencies
EIRR	Economic Internal Rate of Return
ES-QPR	Environmental and Social Quarterly Progress Reports
FCR	Financial Completion Report
FCRs	Final Completion Reports
FMFSR	Framework for Federal Financial Management System
FOs	Farmers Organizations
FPMU	Federal Project Management Unit
FWMC	Federal Water Management Cell
GAP	Gender Action Plan
GB	Gilgit Baltistan
GIS	Geographic Information System
GoP	Government of Pakistan
GoKP	Government of Khyber Pakhtunkhwa
HEIS	High Efficiency Irrigation System
IAs	Implementing Agencies
ICR	Intermediate Completion Report
ICT	Islamabad Capital Territory
ICT	Information & Communication Technology
IRR	Internal Rate of Return
KP	Khyber Pakhtunkhwa
LFT	land for Terracing
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
MT	Monitoring Template
MTE	Mid-Term Evaluation
MWA	Micro-Watershed Areas
NPC	National Project Coordinator

NPV	Net Present Value
OFWM	On Farm Water Management
PC	Project Consultants
PC-1	Planning Commission-(Form-One)
PDO	Project Development Objectives
PIC	Project Implementation Committee
PIES	Project Impact Evaluation Study
PPRF	Project Progress Reporting Framework (PPRF)
PQC	Pre-Qualification Committee
RBM	Results-Based Management
RWD	Responsive Web Design
S&WC	Soil & Water Conservation
SBS	Stream Bank Stabilization
SDS	Sand Dunes Stabilization
SOPs	Standardized Operating Procedures
SPS&TW	Solar, Pumping System and Tube Wells
SPSS	Statistical Package for Social Sciences (Software)
SSCs	Supply and Service Companies
TABs	Tablets
TOR	Terms of Reference
TPV	Third Party Validation
TWRD	Tail-Water Recovery Ditch
WCA	Water Conservation Activity
WCBAKP	Water Conservation in Barani Areas of Khyber Pakhtunkhwa
WG	Women Group
WR	Water Reservoir
WSHG	Water Seepage Harvesting Galleries
WSP	Water Storage Pound
WST	Water Storage Tank
WUAs	Water Users Associations

EXECUTIVE SUMMARY

The current Quarterly Monitoring Report (QMR) for the Months of April to June 2022 comprises of 5 Chapters.

Chapter-1 describes the Objectives and background of Water Conservation in Barani Areas of Khyber Pakhtunkhwa.

The proposed project is in line with both, the mandate of the government and objectives of National Water Policy. The Prime Minister's 100 days' agenda stresses on massively expanding water conservation efforts through smart interventions to reduce water losses. Similarly, National Water Policy of the country aims at: (i) reduction of 33% in 46 MAF river flows that are lost during conveyance—watercourses lining especially in saline and semi-saline areas; and (ii) increase at least 30% in efficiency of water use by producing "more crop per drop of water".

Water is getting scarce day by day. Therefore, there is a serious need to conserve this vital resource to ensure sustainable high level crop production for food security and safeguarding the socio-economic status of the farming community of KP Province.

To mitigate this problem Executive Committee of National Economic Council (ECNEC) approved this project "Water Conservation in Barani Areas of KP" on September 29, 2019 at a cost of Rs. 14.177 billion at 80:20 costs sharing between Government and the beneficiaries/ farmers. The implementation period of the project is 60 months. The aim of the project is to conserve water in Barani Areas of KP through listed below interventions.

S.#	Interventions	S.#	Interventions
1.	Construction of 5,000 water ponds	8.	Constructing 370 numbers of water Seepage harvesting Galleries
2.	Construction of 3,000 Check dams	9.	800 numbers of Agronomic low-cost interventions
3.	Construction of 330 Water Reservoir	10.	230 acres of Sand Dunes stabilization
4.	Construction of 2,500 Stream bank stabilization.	11.	500 Nos. Capacity Building
5.	Construction of 1,000 Gated field Inlet Outlet/Spillway	12.	Procurement and installation of 700 Solar, pumping System and 300 Tube Wells.
6.	Development of 370 acres land for terracing	13.	700 on-site training of farmers in adaptation of new techniques for pumping sub-surface water.
7.	Development of 70 numbers of micro-watershed areas		

Chapter-2 gives detail of ME&IE Consultants of the WCBAPK Project. To evaluate the impact of this project Government has engaged Consultants "Monitoring, Evaluation and Impact Evaluation (ME&IE) Consultants" through Federal Project Management Unit (FPMU) Federal Water Management Cell, Ministry of National Food Security & Research, Islamabad.

The project has been awarded to the Joint Venture of M/s G3 Engineering Consultants (Pvt.) Ltd., EASE PAK Engineering services (Pvt.) Ltd., Centre for Social Research and Development (CSRSD) and ADA Consultants Inc. Canada. Consultants signed contract agreement with the Government of Pakistan on November 27, 2020 and mobilized its staff to start the assignment.

Chapter-3 describes the objectives of Consultancy Services of ME&IE Consultants. The ME&IE Consultants of WCBA KP have to carry out, but not limited to the following activities:

- i. Undertake baseline, midline and end line surveys of 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 and Evaluation of the project activities.
- iv. Assessing the improvement in water availability and soil losses due to project interventions.
- v. Assessing the water saving per annum due to the project interventions.
- vi. Assessing the economic benefits to the agriculture in terms of changes in irrigated area, area under cultivation, crop yields, cropping pattern, cropping intensity, farm income and employment.

- vii. Assessing the extent of community mobilization, financial and administrative sustainability of Soil & Water Conservation Associations (SWCAs) and ensuring the maintenance of project interventions.
- viii. Carryout impact evaluation of the project investment on the economy and stakeholders.

Chapter-4 Describes the purpose of preparation and submission of Quarterly Monitoring Report (QMR). The current QMR explained the updated status of consultants' activities up to the reporting months of April to June 2022.

Chapter-5 describes the consultants' activities carried out during the current month. This chapter also includes details of coordination meetings held by the ME&IE consultants with client and other stakeholders of the project.

CHAPTER – 1: INTRODUCTION TO WATER CONSERVATION IN BARANI AREA

This section of the Quarterly Monitoring Report includes profile and brief introduction of Water Conservation in Barani Area (WCBA) and background of Water Conservation in Barani Area of Khyber Pakhtunkhwa (WCBAPK)

1.1 PROJECT PROFILE

Project Name	Water Conservation in Barani Areas of Khyber Pakhtunkhwa
Project Areas	Project covers 35 Districts of Khyber Pakhtunkhwa falling under Malakand, Hazara Peshawar & Mardan, Kohat & Bannu, and Dera Ismail Khari Divisions.
Sponsoring Agency	Ministry of National Food Security & Research
Executing Agencies (EAs)	Federal Project Management Unit (FPMU), Federal Project Management Unit (FPMU) Federal Water Management Cell
Project Period	5 Year (2019-2024)
ME&IE Consultancy Period	4 years
ME&IE Consultant:	JV of G3 Engineering Consultants (Pvt.) Ltd., EASE PAK Engineering services (Pvt.) Ltd., Centre for Social Research and Development (CSR) and ADA Consultants Inc. Canada
ME&IE Consultant Mobilized	December 24, 2020

1.2 INTRODUCTION

The common features of Barani and Arid lands are; low precipitation, high temperature, high

evaporation, low humidity, poor rain water efficiency, water percolation and low productivity. These lands can be made more productive for cultivation and crop production through soil and water conservation activities, as this is need of the hour to overcome scarcity of water and food for the human as well as for livestock. Barani areas are facing huge shortage of water. Therefore, to overcome this shortage Govt. of Pakistan has established Provincial Soil & Water Conservation Departments. These Departments are providing services to the farmers for agricultural purpose through district governments. Main tasks of Soil & Water Conservation which are considered important are following:

- To contain soil erosion process in the cultivable area and the adjoining uncultivated lands and to save these areas from further degradation.
- To make maximum use of run-off water by conserving it into the field by various moisture conservation measures.
- To bring more area under cultivation through reclamation and gully control techniques.
- Exploitation of water resource through various means of providing assured water supply for irrigation purposes (mini dams and ponds)

Some of the works being undertaken for soil and water conservation are:

- i. Construction of Mini Dams
- ii. Water Storage Tanks
- iii. Construction of Water Outlet Structures
- iv. Retaining Walls
- v. Land Reclamation through Gully Plugging
- vi. Stream Bank Training
- vii. Moisture Conservation Practices such as Terrace Forming & Deep Ploughing.

1.3 BACKGROUND OF WCBAPK

Khyber Pakhtunkhwa (KP) borders the mountainous regions except to the South-East portion of the province. Therefore, geographically the province is intertwined with various rivers, floods waterways

and hill torrent runoff water resources. Water is the limiting factor in the rain- fed Districts of KP that hinder the production of crops and adversely affects human and animal life. Precipitation received through these mountains of the region drains out of the watershed quickly because of the undulating topography; the uneven terrain of the foothills which drain the areas quickly. Hence enormous amounts of water are being lost through runoff without being utilized, carrying with it fertile top-soil. These waters induce flash floods on one hand and decrease the storage capacity of the dams due to siltation, on the other. The runoff water, if harvested and stored in small units at local level, can be used to supplement irrigation for increase in agriculture production, stabilize the ground water table by inducing ground water recharge, can be used for human and animal use and improve climatic conditions of the rain- fed areas.

While the plains of Peshawar valley (comprising of district Peshawar, Charsadda, Mardan, Swabi and Nowshera) is irrigated by the river Kabul and its tributaries, D.I. Khan which are being irrigated through the CRBC canal from the Indus and steps being taken for Gomal Zam dam, majority of the agriculture lands of the province need to be supplemented through local water harvesting because of the uneven terrain.

In relation to the scope of the problem and the opportunity at hand, previously the idea of conversion of rain fed agriculture to irrigated agriculture have not been taken as it should have been. The conservation of these vital resources is a need of the hour to ensure sustainable high level crop production for food security and safeguarding the socio-economic status of the farming community of KP.

The runoff water, if harvested and stored in small units at local level, can be used to supplement irrigation for increase in agriculture production, stabilize the ground water table by inducing ground water recharge, can be used for human and animal use and improve climatic conditions of the rain-fed areas.

The Directorate General Soil & Water Conservation Khyber Pakhtunkhwa is functional in 24 Districts of

the province and is striving for the protection and conservation of agricultural lands and rain water through conservation structures like Inlet and outlet structures, field spillways, cemented water storage ponds, Spurs and protection bunds/walls cemented, G.I. wire spurs and protection bunds, runoff diversion structures and source development, rain fed water retention reservoirs, earthen ponds and earthen embankments, contours and terraces. In addition, water harvesting interventions such as check dams, water reservoirs etc.

1.4 PROJECT OBJECTIVES

The main objective of agriculture sector is to make the country self-sufficient in food grains and make raw material available for agriculture-based industries. The project will be encouraging the farming community through financial assistance for water conservation for ensuring timely irrigation. The project has designed to achieve the following long-run objectives:

- i. *To conserve land and water resources through various interventions for supplemental irrigation, livestock, farm forestry and fish farming*
- ii. *To increase cropping intensity and per unit of land and water productivity*
- iii. *To improve livelihood standards of poor farmers*
- iv. *To improve socio-economic stability*

The project objectives in quantifiable terms are as follows:

- i. To induce aquifer/ground water recharge by ponding water in > 300 water storage reservoirs.
- ii. To convert 15,032 acres of culturable wastelands into productive agriculture lands through development of 70 micro-watersheds.
- iii. To reduce soil erosion by containing flash floods through provision of soil & water conservation structures and check gulley erosion by plugging gullies through 3,000 check dams.
- iv. Minimize the adverse effects of drought by maximizing the irrigation water supplies through exploitation of sub-surface water from tube wells.
- v. Conversion of around 43,225 acres of rain fed land into irrigated land through installation of

- 300 agricultural tube wells and solarization of 700 existing/new tube wells.
- vi. To enhance the capacity of the stakeholders in water harvesting and for sustainable use of land and soil resources for increased agriculture production.
- vii. To improve the socio-economic status of the farmer community.

The project is in line with specific objectives of National Water Policy and Provincial Implementation Plan of the agriculture sector for enhancing water productivity, efficient and harvesting runoff water to ensure farm productivity, economic uplift of small farmers and improving economy of the country as a whole. The proposed project is closely related to the recently completed water conservation schemes, which form an

important element of the integrated rural development program within the agriculture sector.

1.5 PROJECT COMPONENTS

The project has two components; Component - A & B.

Component-A

Component-A is being executed by the Directorate General Soil & Water Conservation KP through its provincial setup. It comprises the following activities as in (Table 1.1).

Table 1.1: Activities under Component A (Executed by Soil & Water Conservation KP)

Sr. No.	Name of Activity	Sr. No.	Name of Activity
	Water Ponds		Check Dams
	Water Reservoir		Stream-bank stabilization
	Gated field Inlet Outlet/ Spillway		Terracing
	Micro-Watershed Development	i.	Water Seepage harvesting Galleries
	Agronomic low-cost interventions		Sand Dunes stabilization
	Capacity Building		

Component-B

The Component-B is being implemented by the Directorate of Agricultural Engineering, KP. It comprises of the following activities:

- i. Installation of Tube wells.
- ii. Solarization of Agricultural Tube Wells.

1.6 PROJECT TARGETS AND OUTPUTS

Project targets and outputs of both components are presented at Table 1.2.

Table 1.2: Project Targets and Outputs

S.#	Input	Output
1.	Construction of 5,000 water ponds	Approximately 12,500 acres of agriculture land will be irrigated from these interventions.
2.	Construction of 3,000 Check dams	Approximately 7,500 acres of the land will be reclaimed.
3.	Construction of 330 Water Reservoir	Approximately 9,900 acres of land will be irrigated from this intervention.
4.	Construction of 2,500 Stream bank stabilization.	Protecting/ reclaiming about 6,250 acres of agricultural land from erosion with floods water.
5.	Construction of 1,000 Gated field Inlet Outlet/Spillway	Sufficient amount of water will be provided to about 2,500 acres of land for irrigation in rod kahi areas of the province.
6.	Development of 370 acres land for terracing	Farmer's income will be increased by increasing agricultural land due to terraces development.
7.	Development of 70 numbers of micro-watershed areas	Approx. 7,000 acres of the area will be converted into agriculture/ forest land which will improve the aesthetic value of the area.
8.	Constructing 370 numbers of water Seepage harvesting Galleries	Approx. 925 acres of land will be irrigated from this intervention.
9.	800 numbers of Agronomic low-cost interventions	Approx. 2000 acres of land will be protected from erosion by these interventions.
10.	230 acres of Sand Dunes stabilization	Approx. 230 acres land of sand dunes will be stabilized by growing kana plants.
11.	500 Nos Capacity Building	An estimated 500 trainings will be conducted for stakeholders including farmers and departmental staff.
Agricultural Engineering Component		
12.	Procurement and installation of 700 Solar, pumping System and 300 Tube Wells.	Irrigation of 17,500 hectares (43,225 acres) of land.
13.	700 on-site training of farmers in adaptation of new techniques for pumping sub-surface water.	Irrigation water Pumping cost will be reduced by adopting solar technology.

CHAPTER – 2: ME&IE CONSULTANTS FOR WCBAPK PROJECT

2.1 THE ME&IE CONSULTANTS

Chapter 2 explains the selection of ME&IE consultants for WCBAPK and scope of consultants' services.

Client carried out a competitive bidding process for selection of ME&IE consultants for Water Conservation of Barani Areas in Khyber Pakhtunkhwa (WCBAPK). A Joint Venture of companies' M/s G3 Engineering Consultants (Pvt.) Ltd., Ease-Pak Engineering Services (Pvt.) Ltd., Centre for Social Research and Development (CSR D) and ADA Consultants Inc. Canada has been selected as ME&IE Consultants of the project. After signing the contract agreement with client, consultants mobilized its Team Leader on 24 December 2020 and other staff to start project activities.

2.2 SCOPE OF ME&IE CONSULTANTS' SERVICES

The scope of the ME&IE Consultants is as follow:

The ME&IE Consultants for Water Conservation in Barani Areas of Khyber Pakhtunkhwa (WCBA KP) will

be responsible for monitoring, evaluation and Impact Evaluation (ME&IE) of the project interventions carried out by implementation Consultants and in this context will carry out, but not limited to the following activities:

- i. Undertake baseline, midline and end line surveys of 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 and Evaluation of the project activities.
- iv. Assessing the improvement in water availability and soil losses due to project interventions.
- v. Assessing the water saving per annum due to the project interventions.
- vi. Assessing the economic benefits to the agriculture in terms of changes in irrigated area, area under cultivation, crop yields, cropping pattern, cropping intensity, farm income and employment.
- vii. Assessing the extent of community mobilization, financial and administrative sustainability of Soil & Water Conservation Associations (SWCAs) and ensuring the maintenance of project interventions.
- viii. Carryout impact evaluation of the project investment on the economy and stakeholders.
- ix.

CHAPTER – 3: CONSULTANTS’ APPROACH AND METHODOLOGY FOR THE ASSIGNMENT

The chapter briefly discusses the basics of ME&IE system being developed by consultants for WCBAPK Project.

2.1 BASICS OF ME&IE SYSTEM

The ME&IE at WCBAPK Project is grounded in Results-Based Management (RBM), which is a management strategy focusing on the performance and achievement of results in terms of outputs, outcomes and impacts. It is a tool used for strategic control. It uses feedback loops to help managers monitor and then (hopefully) achieve strategic goals. These goals may take the form of physical outputs, organizational or behavioral changes, workflow changes, or form contribution to some other higher-level goal. A key function of ME&IE is therefore, to test and determine whether or not the project’s objectives and causal analysis (i.e., the sequence of expected results based

on certain inputs and activities) articulated in the project design holds true; and if not, why not, and what should be done to address this and learn lessons.

The ME&IE systems at WCBAPK are formulated based upon the project’s logical framework (log-frame), which is one type of program logic model. A log-frame is an important tool in project design and management, mapping the multiple levels of objectives and associated results (measured through indicators) in the short, medium, and long term. Indicators are units of measurement in the form of qualitative and quantitative that determines whether the objectives formulated in the log-frame have been achieved or not. Log-frame developed for WCBAPK is placed at **Annex-A**.

The matrix in **Table 3.1** summarizes standard log-frame objectives and results, and the types of indicators used to measure them, which form the basis of a project ME&IE system and plan.

Table 3.1: Matrix for Levels of Log-frame Objectives and Indicators

Log-frame objectives definitions		Objectively verifiable indicators that measure objectives	
Impact (Goal/Overall Objective)	Higher level project objectives in terms of long-term benefits to beneficiaries and the wider benefits to society. The goal will not be achieved by the project alone. The project aims to contribute to its goal.	Project impact indicators	Impact indicators measure this long-term change in conditions of the community (e.g., % change in household income, reduction in poverty, etc.)
Outcome (Purpose Specific Objective)	The short term and medium-term objectives in terms of benefits to the project beneficiaries due to the intervention’s outputs; the project can only indirectly control achievement of outcomes; behavior change is often a key component.	Outcome indicators	Outcome indicators describe the medium-term effects of an intervention’s outputs (e.g., % change in cropping pattern and intensities, crop yields etc.)

Log-frame objectives definitions		Objectively verifiable indicators that measure objectives	
Output (Results)	The output produced by undertaking a series of activities. This is what will be achieved to the intended beneficiaries or target group, and it should be possible for project management to be held accountable for this delivery	Output (indicators)	Output indicators describe the immediate effects of an activity, tangible products, goods and services, and other immediate changes that lead to the achievement of outcomes (e.g., number of Wisps, Check dams, WR, SBS, Solar TW, etc.).
Activities	The tangible goods and services delivered by the project (e.g., provision of material inputs, staff, etc.)	Process indicators	Process indicators describe the activities undertaken (e.g., process of Wisps, Check dams, WR, SBS, Solar TW, etc.), process of delivering these activities.
Inputs	The financial, human, and material resources used for the development intervention	Input indicators	Indicators used to measure the utilization of inputs (e.g., utilization of budget, and services of project staff, labour by the communities)

2.2 MIS / GIS FOR ME&IE SYSTEM

For optimal results of ME&IE of the WCBAPK project consultants are developing MIS /GIS for the project. To minimize the complexities and make the MIS/GIS Database a useful tool for Input-output, process and result monitoring, the consultants adopted the following key principles and guidelines during the development and implementation of WCBAPK MIS/GIS Database:

- Information needs and indicators to capture such information are identified in a participatory manner involving all key stakeholders of the project at all levels;
- The potential users of MIS/GIS Database are convinced and understand the usefulness of the MIS/GIS Database and their role in data collection, recording, transmission and use of information;
- The system provides a two-way flow of information, such that those who collect and transmit the information receive the feedback;
- The MIS/GIS Database does not impose a high work load at any level in PIU and other Implementing Agencies (IAs);

- There is no information/data 'overload' at any level;
- The system is flexible enough to accommodate internal learning changes in future.
- The system provides user friendly interfaces to interact with.

The system's outputs are presented in formats that can be easily converted to other formats and data types without human intervention.

2.3 PARTICIPATORY DESIGN OF THE MIS/GIS ACTIVITIES

The proposed approach to design the MIS/GIS is fully participative. Consultants have made utmost efforts to ensure that all key stakeholders are fully involved throughout the ME&IE MIS/GIS design and implementation process.

Before launching the MIS/GIS database system, multiple feedback and validation sessions are in progress with client and all the stakeholders of the project. Finally, a restitution/validation workshop

will be conducted to which the key partners would be invited to get the real feedback on the proposals and achievements.

2.4 MONITORING, EVALUATION AND IMPACT EVALUATION PLAN

This section presents brief introduction about the ME&IE and Impact evaluation plan.

2.4.1 Introduction

The monitoring and evaluation functions are related but distinct. Monitoring is the provision of information, and the use of that information, to enable management to assess progress of implementation and take timely decisions to ensure that progress is maintained according to schedule. Monitoring assesses whether project inputs are being delivered, are being used as intended, and are having the initial effects as planned. It is an internal project activity, an essential part of good management practice and therefore an integral part of day-to-day management. Evaluation also assesses the overall project effects, both intentional and unintentional and their impact. It involves comparisons requiring information from outside the project either in time, area, or population. The relative role of monitoring and evaluation varies with type of project.

2.4.2 Framework for ME&IE System

The initial steps for designing monitoring and evaluation system are:

- i. A review of the project objectives in order to systematize them in sequence.
- ii. Identification of the users of both the monitoring and evaluation information. For monitoring, the users will be the hierarchy of project management. The type of information transmittal will be geared to the needs of each level of project management. The users of evaluation analysis range from project management through the responsible directorate/ ministry, to the national planners.

Evaluation will be drawn on the data generated by the monitoring system to help explain the trends in effects and impact of the project. Monitoring data may reveal significant departure from expectations which may warrant the undertaking of an on-going evaluation exercise to examine the assumptions and premises on which the project design was based. Such a review, as also in the case of ex-post evaluation, can be of great value to sectoral management in its policy formulation role.

Monitoring has to be integrated within the project management structure but evaluation, with its wider horizons requiring comparative information, is not necessarily such an integral component. A central evaluation facility may be justified on the grounds that:

- i. The demanding professional skills required to interpret evaluation data are either unavailable or uneconomic for each project individually;
- ii. The data needed extend from before a project is initiated to a period long past its completion.

Although the design and analytical facility for evaluation may be centralized, the data collection resources within a project will be used to provide much of the required data. If the same unit is collecting data both for eventual evaluation and for quick, timely monitoring, the latter must not suffer due to the greater demands of the former.

2.4.3 Monitoring and Managing of Project Progress

The primary goal is to monitor project progress, given that the project has been carefully appraised; i.e., that there is a strong assumption towards certain stimuli and inputs will achieve specific outputs, effects and its impact. The role of management in the initial implementation phase is to create the condition that allows this chain of events to be occurred.

In the early years of project implementation, the emphasis will be on monitoring of project progress and the delivery of the inputs to the intended

recipients. The main source for this aspect of monitoring is properly organized in project records. The other concerns of management at this stage are to use these inputs and reaction of the recipients.

Adoption rates give management a strong inference whether the project is succeeding or not. Information on the recipients' attitudes and perception is important in order to explain any departure in response behavior to that postulated in the project design. Such unpredicted behavior may determine the success or failure of the project.

The information required for monitoring of project implementation does not require complex data systems. A monitoring system exists even if it is merely a subjective accumulation of impressions by project staff. If common sense rules of good standard management practices are adhered to, the monitoring system can be limited to the minimum of parameters to be recorded regularly over time. The goal is to make the data collection as objective as possible, and to ensure, above all, that the means exist for fast collation, summarization and presentation of the information to the decision makers.

Once management has satisfied itself that the delivery system is working, its attention should shift to the outputs generated; i.e., are they materializing according to expectation. Focus on output measurements must not, however, be at the expense of monitoring the input delivery system. The measurement of outputs is more properly a function of evaluation, for identifying trends is not an easy task in view of the exogenous influences at work, and is often impossible without an extended time series.

The key to successful monitoring is the provision of regular, timely, decision-oriented information to the project management. This can be achieved if the necessary staffs are in place early, are seen to be part of the management team, and are given guidance on the priority information needs of the management.

2.4.4 Project Progress Reporting Framework (PPRF)

The Project Progress Reporting Framework (PPRF) given as **Annex-B** is a format for reporting summary of physical and financial progress achieved during the period for various interventions. A regular flow of this data is expected from Clients, Field Teams/ Project Consultants. However, detailed data on the processes and beneficiaries' feedback will be gathered / transmitted through Android based application using smart phones.

2.4.5 Evaluation - An Assessment of Results

Evaluation aims to determine whether the project objectives set in the ME&IE of expected outputs, effects and impact are being, or will be, met. This leads to an assessment of the results achieved, and the lessons to be drawn for future improvements in a later phase or in similar projects elsewhere.

Output levels are a measure of the result of the input utilization by the beneficiaries. If the changes in outputs are considerable, they may be detected even during the implementation phase of a project. An evaluation system requires the development of a series of data commencing before the project is implemented and continuing well past the completion of the implementation period. Unlike a monitoring system with its emphasis on rapid assessment, an evaluation system requires a longer time span before even tentative conclusions can be drawn.

2.4.6 Impact - Quantification of Tangible Benefits and Assessment on Intangible Benefits of Project Interventions/ Investment

In the ME&IE process, tangible benefits of agricultural projects can arise either from an increased value of production or from reduced costs. The specific forms, in which tangible benefits appear, however, are not always obvious, and valuing them may be quite difficult.

Increased physical production is the most common benefit of the agricultural sector. To maintain better water control so that farmers can obtain higher yields. The project makes resources available for farmers to increase both their operating expenditures for current production-for fertilizers, seeds, or pesticides-and their investment-for water conservations techniques and solar water tube wells. The benefit is the increased production from the farm. In a large proportion of agricultural projects, the increased production will be marketed through commercial channels. In many agricultural projects, however, the benefits may well include increased production consumed by the farm family itself. The home-consumed production from the projects increased the farm families' net benefit and the national income just as much as if it had been sold in the market. Indeed, we could think of the hypothetical case of a farmer selling his output and then buying it back. Since home-consumed production contributes to project objectives in the same way as marketed production, it is clearly part of the project benefits in both financial and economic analysis.

2.4.7 Design and Development of ME&IE GIS Based Information System

Management Information System (MIS) is the tools and techniques used in project management to deliver information. Project managers use the techniques and tools to collect, combine and distribute information through electronic and manual means. It is used by upper and lower management to communicate with each other.

The monitoring and evaluation functions are related but distinct. Monitoring is the provision of information, and the use of that information, to enable management to assess progress of implementation and take timely decisions to ensure that progress is maintained according to schedule. Monitoring assesses whether project inputs are being delivered, are being used as intended, and are having the initial effects as planned. It is an internal project activity, an

essential part of good management practice and therefore an integral part of day-to-day management. Evaluation also assesses the overall project effects, both intentional and unintentional and their impact. It involves comparisons requiring information from outside the project either in time, area, or population. The relative role of monitoring and evaluation varies with the type of project.

Based on the participatory approach, the Information System proposed is being designed and developed as a permanent instrument for the planning, monitoring, evaluation, and adjustment of project management, based on common information tools made available to all stakeholders concerned by the implementation of the project. This approach aims at strengthening the overall results of the project, increasing the sustainability of activities, and improving resource utilization and management of risks and difficulties of the project implementation.

Design & development of ME&IE GIS based Information Management System is based on Agile Methodology as Software Development Process. Under which requirements and solutions evolve through the collaborative effort of self-organizing and cross-functional teams and end user / field experiences. The adaptation of agile development methodology ensured the early completion of task and keeps evaluating it for better results as per the project requirement. It would be helpful to strategize the design and development phase, successful implementation, on-going maintenance, and up-gradation of the GIS based Information System.

Our experience shows that data generated in the field by client, field staff and project consultant is not timely communicated to PMUs. As a result, the dashboard/ Information System remain behind the actual progress on the ground. Therefore, prompt and real time data communication is essential to the Information System. For this purpose, one focal person in each province/ area is required.

2.4.8 Regular Routine Monitoring

Consultants are now onboard for the baseline survey and regular routine monitoring to carryout ME&IE of WCBAPK. This phase of the assignment includes;

- i. The monitoring of input-output and process as defined in the Annual Work Plan and Budget (AWPB) and;
- ii. The tracking of the outcome indicators.

Regular routine monitoring will look at the extent to which the proposed project activities are being implemented as planned. We also understand that the consultants are responsible for the regular routine monitoring and should work in close collaboration with FPMU-FWMC, Project Coordinator (PC), and respective Departments of Province KP, Directorate General Soil & Water Conservation & Directorate of Agricultural Engineering KP through their district/sub-offices & farmers/ SWCA, etc.

In order to track the indicators' values and measure the project performance, the ME&IE Consultancy have to analyze the relevant ME&IE data and report every quarter, applying the agreed methodology, reporting format and content.

Periodic reports on routine monitoring shall contain, at least:

1. A brief analysis of the results; calculating achievement rates and establishing trends;
2. A summary with any relevant findings that may help or constraint the future data collection activities in the established periods and, if appropriate;
3. Propose specific solutions assessing the advantages and disadvantages of each.

As stated in the Project TOR, additional special reports are to be produced "as and when required." We propose that some of these special reports ought to be thematic studies and case studies that can be punctually required at different times of the project implementation as to create knowledge on the implementation and its results, to be shared and further implemented.

CHAPTER – 4: QUARTERLY MONITORING REPORT

This chapter of the Quarterly Monitoring Report (QMR) describes the brief introduction, objective of the Quarterly Monitoring Report WCBAPK.

4.1 INTRODUCTION

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

4.2 OBJECTIVE OF QUARTERLY MONITORING REPORT

Reporting is an integral part of monitoring and evaluation framework. The main objective of QMR is to update the Client about the activities carried out by the ME&IE Consultants during the reporting period along with its procedures.

Consultants Procedure for ME&IE Assignment

The Consultants carried out ME&IE of WCBA KP in two parts.

The First Part of monitoring is carried out through field visits and surveys of water storage reservoirs, micro-watersheds, check dams, tube-wells, etc. All water conservation activities under the project. The processes, timelines and physical progress against targets set in the Annual Work Plans (AWPs) are marked. The monitoring activities includes baseline, midline and end-line surveys. The water saving assessment will be simultaneously carried out with the improvement activities of construction of water storage tanks and installation of tube-wells. The economic benefits to the agriculture sector will also be estimated in addition to the impact evaluation on the stakeholders and economy as a whole. For each monitoring activity one or more checklist(s) will be developed based on

planned SOPs (Modus Operandi) and timelines. The activities will be monitored according to the checklists.

All the checklists will get approved from the client before executing in the field. Additional checklists will be devised if required. The outcome of the monitoring activities is expected in three states, i.e., the progress is on track, lagging behind or faster than planned. Reasons for lagging progress will be identified with possible solutions. In case of faster progress, good practices will be identified to replicate in the project. All the physical progress will be monitored for quality as well.

The Second Part of the ME&IE assignment will be the development, operation, maintenance and handing-over the Management Information System (MIS) to the client at the end of the project. Main features of the MIS are briefly presented as under:

Planning and input-output process monitoring, as well as the tracking of results indicators, assume a critical role in the management of development projects. We propose to develop, set up and implement a Web Based Monitoring Information System (MIS) useful for:

- i. Monitor the progress of project implementation and provide timely feedback to all project stakeholders,
- ii. Monitor, assess, and summarize achievements (outputs and outcomes),
- iii. Analyze factors affecting the project's implementation and achievements.

The basic functions of the MIS are to:

- i. Enable the FPMU-FWMC and PC to track the outcome indicators and assess progress in implementation against timescales and targets, and resources used against budgets, based on agreed annual work plans.
- ii. Describe the factors and reasons triggering variations,

- iii. Record and reflect new targets, whenever it is required,
- iv. Draw important lessons to guide the decision-making,
- v. Enable forecasting for project accomplishment in comparison to the currently reported progress,
- vi. Enable the project management to generate reports to funding partners, project beneficiaries and other stakeholders on the status and progress of the project implementation,
- vii. Integrate GIS components to the MIS to complement field-level surveys and measurements.

Potential users' profiles could be the following:

- i. Federal Ministries
- ii. NPC FPMU-FWMC
- iii. WCBA Project Consultants (AGES)
- iv. ME&IE Consultants
- v. Provincial concerned departments / maintaining system administrators.

The MIS will allow the project to enter the Annual Work Plan and Budget (AWPB) to enable process monitoring. This interface should facilitate the user to create activities for the current year and go back in previous years.

The following project information will be accessible at all times:

- vi. Project description
- vii. Project's objectives
- viii. Implementation partners
- ix. Locations of implementation
- x. Timelines
- xi. Project activities (and % of accomplishments)
- xii. Budgets (% of spending)
- xiii. The dashboard is a "real-time" user interface showing graphical and tabular information of multiple data sets. Dashboards allow users to appreciate a

situation at a glance and aids in making informed decisions. The way in which data are presented directly affects how they are understood and interpreted/ consequently the decisions that are made because of the data.

The kind of data that can be represented in the dashboard includes:

- i. Activity/indicator completion rates
- ii. Budget expenditures
- iii. Information disaggregated by localities (map views)
- iv. Timelines, etc.

Notifications/Alerts

For each type of events (e.g., incoming deadlines, new data input, requests, etc.) the user will receive notifications/alerts of said events within the MIS and via e-mail either:

- i. As the event is created
- ii. Daily / Weekly/ Monthly/ Quarterly updates.

When an alert generated and in what form and frequency will be decided in consultation with users/clients.

Change Tracking

The system records actions of users such as creating data, removing data, data entry, data validation, etc. (e.g., latest update to an open quarterly report). The system records the name of the user, the date and time of change, actions made, code of items altered. This function is crucial to monitor the ME&IE processes.

Key Principles:

Following are the key principles:

- i. The system provides Excel-like functionality including filtering/sorting columns (reducing data-entry and increasing ease-of-use).
- ii. The data entry and validation of plans and different reports are linked to user profiles

- iii. The system displays an error message when not able to save the data.
- iv. For all operations, the system keeps an audit trail with the user, date and time of the operation.

CHAPTER – 5: CONSULTANTS ACTIVITIES DURING THE REPORTING PERIOD

5.1 ACTIVITIES DURING REPORTING PERIOD

This chapter of QMR covers the progress for the period from 1st April, 2022 to 30th June, 2022.

Following activities completed/ remained in progress during the reporting period are discussed briefly:

5.2 ACTIVITIES OF ME&IE CONSULTANTS DURING THE REPORTING QUARTER

Routine regular monitoring is an important activity of the ME&IE consultants for ME&IE of

the WCBA KP Project. Consultants carried out different field activities and coordination meetings with client and other stakeholders of the project including farmers. Detail of consultants' activities / field visits under regular monitoring is given below in detail.

5.2.1 Monitoring & Baseline field visits of Project Interventions

During the reporting period, the M&E field teams of ME&IE Consultants conducted monitoring and baseline survey visits for **65 interventions/schemes** across **13 districts** of Khyber Pakhtunkhwa (KPK). A summary provided in the table below.

Table: A summary of schemes visited for collection of field data during reporting period

Date	Team	Survey.#	Zone	District	Activity	Name of Respondent
13-Apr-22	Team-1	Mon & BLS-II	Zone-3	Nowshera	Solarization of Tube Well	Gul Said
9-May-22	Team-1	Mon & BLS-II	Zone-2	Abbottabad	Water Pond	Saeed Akhtar
9-May-22	Team-2	Mon & BLS-II	Zone-3	Charsadda	Solarization of Tube Well	Bakhti raz khan
10-May-22	Team-2	Mon & BLS-II	Zone-3	Charsadda	Solarization of Tube Well	Muhammad sareer
11-May-22	Team-1	Mon & BLS-II	Zone-2	Abbottabad	Stream Bank Stabilization	Saqib Khan
11-May-22	Team-2	Mon & BLS-II	Zone-3	Charsadda	Solarization of Tube Well	Murad khan
12-May-22	Team-1	Mon & BLS-II	Zone-1	Swat	Terracing	Dawa Khan
12-May-22	Team-2	Mon & BLS-II	Zone-4	Kohat	Water Pond	Alam zaib
12-May-22	Team-3	Mon & BLS-II	Zone-5	D.I. Khan	Solarization of Tube Well	Hashim
13-May-22	Team-2	Mon & BLS-II	Zone-4	Kohat	Stream Bank Stabilization	Faisal khan
16-May-22	Team-1	Mon & BLS-II	Zone-1	Swat	Water Pond	Muhim Zada
16-May-22	Team-2	Mon & BLS-II	Zone-4	Kohat	Installation of Tube Well	Fazal haq
16-May-22	Team-3	Mon & BLS-II	Zone-5	D.I. Khan	Installation of Tube Well	Hashim
17-May-22	Team-2	Mon & BLS-II	Zone-4	Kohat	Installation of Tube Well	Samar khan
18-May-22	Team-2	Mon & BLS-II	Zone-3	Peshawar	Solarization of Tube Well	Ghulam qadir
18-May-22	Team-3	Mon & BLS-II	Zone-5	D.I. Khan	Solarization of Tube Well	Noor Rehman
19-May-22	Team-1	Mon & BLS-II	Zone-1	Swat	Terracing	Rafi Ullah S/o M. Tayyab
19-May-22	Team-2	Mon & BLS-II	Zone-3	Peshawar	Solarization of Tube Well	Ismail khan
20-May-22	Team-1	Mon & BLS-II	Zone-2	Mansehra	Water Reservoir	Naveed
20-May-22	Team-2	Mon & BLS-II	Zone-3	Peshawar	Solarization of Tube Well	Muhammad Hussain
20-May-22	Team-3	Mon & BLS-II	Zone-5	D.I. Khan	Installation of Tube Well	Noor Rehman
23-May-22	Team-1	Mon & BLS-II	Zone-2	Mansehra	Water Pond	Bibi Raffat
23-May-22	Team-2	Mon & BLS-II	Zone-3	Peshawar	Solarization of Tube Well	Yasin khan
24-May-22	Team-2	Mon & BLS-II	Zone-3	Nowshera	Stream Bank Stabilization	Irfan khan
24-May-22	Team-3	Mon & BLS-II	Zone-4	Bannu	Solarization of Tube Well	Shahzar khan

Date	Team	Survey.#	Zone	District	Activity	Name of Respondent
25-May-22	Team-2	Mon & BLS-II	Zone-3	Nowshera	Check Dam	Raees khan
25-May-22	Team-3	Mon & BLS-II	Zone-4	Bannu	Solarization of Tube Well	Suhbat Khan
26-May-22	Team-1	Mon & BLS-II	Zone-2	Mansehra	Installation of Tube Well	Naeem Yaqoob
26-May-22	Team-2	Mon & BLS-II	Zone-3	Nowshera	Solarization of Tube Well	Wajid ali
26-May-22	Team-3	Mon & BLS-II	Zone-4	Bannu	Solarization of Tube Well	Habib Ur Rehman
27-May-22	Team-2	Mon & BLS-II	Zone-3	Nowshera	Installation of Tube Well	Wajid ali
27-May-22	Team-3	Mon & BLS-II	Zone-4	Karak	Water Seepage Harvesting Galleries	Abdul Nawaz
30-May-22	Team-2	Mon & BLS-II	Zone-1	Malakand	Solarization of Tube Well	Adan Shahid
30-May-22	Team-1	Mon & BLS-II	Zone-2	Mansehra	Solarization of Tube Well	Naeem Yaqoob
30-May-22	Team-3	Mon & BLS-II	Zone-4	Karak	Water Pond	Abdul Nawaz
31-May-22	Team-2	Mon & BLS-II	Zone-1	Malakand	Gated Field Inlet Outlet/Spillway	Amjad khan
31-May-22	Team-3	Mon & BLS-II	Zone-4	Bannu	Agronomic Low Cast Intervention	Muhammad Ayub
1-Jun-22	Team-2	Mon & BLS-II	Zone-1	Malakand	Terracing	Danyal Ahmad
1-Jun-22	Team-3	Mon & BLS-II	Zone-4	Bannu	Gated Field Inlet Outlet/Spillway	Muhammad Sajjad
2-Jun-22	Team-2	Mon & BLS-II	Zone-1	Malakand	Terracing	Muhammad Tahir
2-Jun-22	Team-1	Mon & BLS-II	Zone-2	Mansehra	Micro-Watershed Development	Syed Adil Hussain Shah
2-Jun-22	Team-3	Mon & BLS-II	Zone-4	Bannu	Check Dam	Taj Muhammad
3-Jun-22	Team-2	Mon & BLS-II	Zone-1	Malakand	Gated Field Inlet Outlet/Spillway	Rasheed khan
3-Jun-22	Team-3	Mon & BLS-II	Zone-4	Karak	Stream Bank Stabilization	Gulshan Iqbal
6-Jun-22	Team-2	Mon & BLS-II	Zone-1	Malakand	Terracing	Sarfaraz
6-Jun-22	Team-1	Mon & BLS-II	Zone-1	Swat	Terracing	Shabir Ullah
6-Jun-22	Team-3	Mon & BLS-II	Zone-4	Karak	Water Reservoir	Khalid Mahmood
7-Jun-22	Team-2	Mon & BLS-II	Zone-1	Malakand	Solarization of Tube Well	Sayed Sardar Ghani
7-Jun-22	Team-1	Mon & BLS-II	Zone-1	Swat	Solarization of Tube Well	Sayed Zia Ali Shah
7-Jun-22	Team-3	Mon & BLS-II	Zone-5	D.I. Khan	Solarization of Tube Well	Noor Rehman
9-Jun-22	Team-3	Mon & BLS-II	Zone-1	Lower Dir	Stream Bank Stabilization	Rehman Uddin
9-Jun-22	Team-1	Mon & BLS-II	Zone-1	Swat	Solarization of Tube Well	Talimond khan
10-Jun-22	Team-3	Mon & BLS-II	Zone-1	Lower Dir	Terracing	Attaullah Khan
13-Jun-22	Team-3	Mon & BLS-II	Zone-1	Lower Dir	Terracing	Attaullah Khan
13-Jun-22	Team-1	Mon & BLS-II	Zone-2	Haripur	Installation of Tube Well	Muhammad Ijaz
14-Jun-22	Team-3	Mon & BLS-II	Zone-1	Lower Dir	Check Dam	Mubarak zeb
14-Jun-22	Team-1	Mon & BLS-II	Zone-2	Haripur	Check Dam	Nishat Ahmed
15-Jun-22	Team-3	Mon & BLS-II	Zone-1	Lower Dir	Stream Bank Stabilization	Rahman uddin
15-Jun-22	Team-1	Mon & BLS-II	Zone-2	Haripur	Check Dam	Shafeeq Ahmed
16-Jun-22	Team-1	Mon & BLS-II	Zone-2	Haripur	Terracing	Zahoor Ellahi
17-Jun-22	Team-1	Mon & BLS-II	Zone-1	Swat	Solarization of Tube Well	M. Shahab khan
20-Jun-22	Team-1	Mon & BLS-II	Zone-1	Swat	Stream Bank Stabilization	Ahmad Jan
23-Jun-22	Team-1	Mon & BLS-II	Zone-1	Swat	Water Pond	Sardar Hussain
27-Jun-22	Team-1	Mon & BLS-II	Zone-1	Swat	Stream Bank Stabilization	Abdullah
29-Jun-22	Team-1	Mon & BLS-II	Zone-1	Swat	Water Pond	Muhammad salar

Table: District wise/Intervention wise detail of overall activity units performed till Reporting Month

Districts & Interventions	Count of Activity Unit
Abbottabad	2
Stream Bank Stabilization	1
Water Pond	1
Bannu	9
Agronomic Low Cast Intervention	1
Check Dam	2

Districts & Interventions	Count of Activity Unit
Gated Field Inlet Outlet/Spillway	1
Solarization of Tube Well	3
Water Pond	1
Water Reservoir	1
Charsadda	7
Check Dam	1
Solarization of Tube Well	3
Stream Bank Stabilization	3
Dera Ismail Khan	9
Check Dam	1
Gated Field Inlet Outlet/Spillway	1
Installation of Tube Well	2
Solarization of Tube Well	3
Water Pond	1
Water Reservoir	1
Haripur	6
Check Dam	2
Installation of Tube Well	2
Solarization of Tube Well	1
Terracing	1
Karak	6
Solarization of Tube Well	2
Stream Bank Stabilization	1
Water Pond	1
Water Reservoir	1
Water Seepage Harvesting Galleries	1
Kohat	8
Installation of Tube Well	2
Solarization of Tube Well	1
Stream Bank Stabilization	1
Water Pond	3
Water Reservoir	1
Lakki Marwat	6
Check Dam	1
Gated Field Inlet Outlet/Spillway	1
Solarization of Tube Well	1
Stream Bank Stabilization	1
Water Pond	1
Water Reservoir	1
Lower Dir	4
Check Dam	1
Stream Bank Stabilization	2
Terracing	1
Malakand	11
Check Dam	2
Gated Field Inlet Outlet/Spillway	2
Solarization of Tube Well	2
Terracing	3
Water Pond	2
Mansehra	9

Districts & Interventions	Count of Activity Unit
Installation of Tube Well	2
Micro-Watershed Development	1
Solarization of Tube Well	1
Stream Bank Stabilization	2
Water Pond	2
Water Reservoir	1
Mardan	9
Check Dam	3
Gated Field Inlet Outlet/Spillway	1
Installation of Tube Well	2
Stream Bank Stabilization	1
Water Pond	1
Water Reservoir	1
Nowshera	7
Check Dam	2
Installation of Tube Well	1
Solarization of Tube Well	1
Stream Bank Stabilization	2
Water Pond	1
Peshawar	13
Check Dam	1
Solarization of Tube Well	4
Stream Bank Stabilization	3
Water Pond	5
Swabi	8
Check Dam	3
Installation of Tube Well	1
Solarization of Tube Well	1
Stream Bank Stabilization	2
Water Pond	1
Swat	11
Solarization of Tube Well	3
Stream Bank Stabilization	2
Terracing	3
Water Pond	3
Tank	4
Check Dam	1
Gated Field Inlet Outlet/Spillway	1
Stream Bank Stabilization	1
Water Pond	1
Grand Total	129

5.2.1.1 Team Leader's monitoring visit to Agriculture Engineering Department's Intervention in Maraje, Mankisharif, Nowshera

Team Leader WC-KP visited Agriculture Engineering Department's intervention in Nowshera.

Intervention: (Mr. Gul Said Tube Well & Solarization of Tube Well, under implementation):



Figure-5.1: Development of Tube Well for Mr. Gul Said
Tube Well & Solarization of Tube Well in Maraje
Mankisharif, Nowshera

The Team Leader WC-KP visited Mr. Gul Said Tube Well & Solarization of Tube Well (Under implementation) for monitoring in Maraje, Mankisharif, District Nowshera while travelling to WC-KP office in Peshawar. Main observations of the WC-KP team are illustrated below;

- Intervention: Mr. Gul Said Tube Well & Solarization of Tube Well.
- Location: Maraje, Mankisharif, Nowshera.
- Direct beneficiaries: 20 numbers.
- Cost of the intervention: Rs 2.5 million & 0.65 million for Tube Well & Solarization of Tube Well respectively.



Figure-5.2: Development of Tube Well for Mr. Gul Said
Tube Well & Solarization of Tube Well in Maraje
Mankisharif, Nowshera

5.2.2 Coordination Meetings with Client and other Stakeholders of the Project

Consultants conducted / performed various meetings / activities during the month of April 2022. The basic objectives of these meetings were development of continuous linkages, coordination, and cooperation in order to run the project activities smoothly and efficiently. Details of these meetings / activities are given below.

i) Meeting in DAE Headquarter Tarnab to Collect Interventions' Files: 1st April 2022.

Date:	1 st April 2022
Venue:	DAE Headquarter, Tarnab Farm, Peshawar
Participants:	
i) Miss. Afshan Shareen, PE, DAE HQ. ii) Mr. Nasir Khan, ICT Manager, WC-KP. iii) Mr. Amjad Ali, Field Engineer, WC-KP.	
Meeting Agenda:	
To discuss the missing data in the data collection formats and way forward to fill the missing data.	
Discussions held:	
<ul style="list-style-type: none"> • Mr. Nasir Khan stated that we can help in searching and sorting out data from the files and we can provide manpower for few days if required. • Miss. Afshan Shareen replied that she will instruct the internees of DAE and they will fill the missing data. • Required formats were discussed in detail and miss Afshan Shareen said that she will guide the internees time to time and will check their working before submitting. 	

ii) Joint Meeting with Project Consultants for Implementation Assistance, Execution Supervision & TPV and ME&IE Consultants on 8th April 2022.

Date:	8 th April 2022
Venue:	NPC office Islamabad
Participants:	
i) Mr. Muhammad Asif Kakar, NPC FPMU MNFS&R ii) Mr. Kifayat Zaman, DG FMWC iii) Mr. M. Naem Akhtar, Dy PC WCKP, FPMU	

- iv) Mr. Sajid Altaf, WME FMWC
- v) Mr. Dr. Fazli Hakeem Khattak, TL WCKP ME&IE Consultants
- vi) Mr. Tahir Kamran Marwat, TL Ages Consultants
- vii) Mr. Nasir ul Mulk, Managing Partner Ages Consultants
- viii) Mr. Bilal, FTI NPIWC ME&IE Consultants

Meeting Agenda:

To review progress/performance of PC and ME&IE Consultants

Discussions held:

- The Chair welcomed the participants in the meeting and briefly explained the purpose of the meeting. Thereafter, the team leader of each consultancy services briefed about their progress made till date under the project.
- First of all, Mr. Fazli Hakim Khattak, Team Leader ME&IE Consultants briefed about the activities performed since commencement of their services. During his briefing, he explained that Base line Survey (BSL) has been conducted during December 2021 and January 2022 and zero draft of Base line Survey report was submitted in FPMU for review and comments. The detailed observations were raised by the client and responses were incorporated accordingly. He further informed that final draft of BSL is ready and will be shared with the stakeholders in last week of current month. On this, the Chair has recommended that detail meeting with all stakeholders will be conducted after receipt of draft of BSL report and will be discussed in detail before finalization so that an effective BSL report could be produced. The Team Leader further explained that monitoring field visits were conducted of tube wells and solarization installed under the project in different areas of KP. Trainings of newly appointed field and office staff were also conducted. For the purpose, Officials from executing department i.e., Agricultural Engineering Soil and Water Conservation were master trainers and delivered sessions on the relevant components of the project.

- The ME&IE Consultants were asked to prepared a case study report of at least each type of intervention from each zone and record that how much soil and water is being conserved with each intervention and other benefits from the intervention may also be included in this report. The chair further directed that this special report should be prepared within month and submitted to FPMU. In this connection, the PC Consultants were also directed to provide full support where ME&IE consultants required regarding technical information etc. The chair also directed that PC and ME&IE consultants shall work in close coordination as the information generated by the PC is used by the ME&IE Consultants.
- The Team leader, ME&IE Consultants, raised issued about release of payments to the consultants. On this, it was informed by the chair that due to non-provision of joining reports of key staff and other relevant documents in accordance with the contract conditions, the invoices couldn't be materialized. However, after provision of necessary documentation after long period from ME&IE Consultants, the invoices are in process of release of their payments.
- Thereafter, Project Coordinator, WCBA-KP, AGES Consultants briefly explained their scope of work and activities being carried out under the project and explained procedure of their verification /validation. He informed that they are in close coordination with DG, SWC and Director, Agricultural Engineering, Khyber Pakhtunkhwa, Peshawar and provide full support where they required build their capacity regarding improved modular design and now the department are adopting new modular design and prepare their cost estimate accordingly. After that, he gave brief about their zone wise progress. He informed that 1024 numbers of schemes were received from executing agencies out of which 131 were not feasible, 85 schemes were deferred due to minor issues to be resolved at executing agency end and 808 schemes were declared feasible out of which 750 sanction order were issued. He further explained that 24

schemes were cancelled by the department due to certain reasons and 249 TPV were issued out of 349 received TPV. He pointed out that 39 schemes were not fit for Third Party Validation (TPV) due to some technical issues which require attention of Executing agency for their TPV to be issued.

- While explaining about the issue he pointed out that mandatory meetings of PSC, PIC- I and PIC-II were yet to be conducted. Further pointed out that schemes were being rejected due to substandard works and procurement of Solar pumping system by DAE was being carried out without prior endorsement/verification by the PCs. The chair ensured that concerned forum will be approached to resolve the issues pending at department level. The Team Leader, PC Consultants, also raised issued about release of payments to the consultants. About the payments issue, the Chair replied that the invoices of PC Consultants have already been forwarded to AGPR for their release of direct and indirect cost till December, 2021.
- At the end, the chair advised both the consultants to meet time line given in their contract agreement.
- The meeting ended with a vote of thanks to and from the chair.

iii) Meeting in S&WC directorate to discuss and finalize 5 Interventions data collection formats on 13 April 2022.

The WC-KP team shared the data collection formats with the S&WC officials before the presentation for their review. During the presentations of the formats each format was discussed thoroughly and the department's concerns were noted and also highlighted for review and to discuss with the ICT national team.

iv) Meeting in S&WC directorate to discuss and finalize the data collection formats of all the interventions on 22 April 2022.

During the presentations of the formats each format was discussed thoroughly and the department's concerns were noted and also highlighted for review and to discuss with the ICT national team.

v) WC-KP Team Meeting in Field/ Project Office Peshawar on 10th May 2022

Date:	10 th May 2022
Venue:	WC-KP Field/ Project Office, Peshawar
Participants:	
iv) Dr. Fazli Hakim Khattak, TL, WC-KP.	
v) Mr. Nasir Khan, ICT-M, WC-KP.	
vi) Mr. M. Shahraz Khan, OM, WC-KP.	
vii) Mr. Kaisar Khan, AM, WC-KP.	
viii) Mr. Amjad Ali, CO, WC-KP.	
ix) Mr. Khaleeq-uz-Zaman, FE, WC-KP	
x) Mr. M. Haroon, FE, WC-KP.	
Meeting Agenda:	
To discuss project progress, activities plan and way forward	
Discussions held:	
<ul style="list-style-type: none"> • Staff highlighted their salaries issue as some employees received their two months salaries while serving time is more than 5 months. 3 employees did not receive their salaries at all. The salaries issue is a constant cause of discontent among the staff, leading to demotivation. • TL discussed the meeting schedule for 11th may with PMU and AGES consultants. These meetings are a part of the ongoing drive to push things through various channels to ensure better workings and optimum results. • Budget and forecasting plans were discussed and draft prepared for review. OM & ICT manager both discussed their respective parts of it. Dr. sb emphasized the need for diversification of the districts and interventions as only a selected number of districts and interventions are being focused until now. • Vehicles, logistics and funds availability for site activities were discussed. • Project's bank account opening discussed; HO needs to arrange necessary documents for it. • Establishment of WCBA office discussed • TL asked for individual inputs and ideas to improve things around here. • TL had a detailed discussion with Nasir Khan (ICT Manager) regarding dashboard and other related activities. 	

- Questionnaires were discussed, staff gave their input and pointed out several items that were repetitive, time consuming and cumbersome.
- TL emphasized the need for team working and working as a cohesive unit where every component is in support of others.



Picture 3.1: ME&IE Team WCBAPK, in meeting at Project/ Field Office Peshawar on 10th May 2022

vi) **Meeting in Provincial PMU Office
Peshawar on 11th May 2022**

Date:	11 th May 2022
Venue:	Provincial PMU Office, Peshawar.
Participants:	
i)	Mr. Afzal, PD, Provincial PMU.
ii)	Mr. Saeed, DD, Provincial PMU.

- iii) Mr. Sajid, Engr, Provincial PMU.
- iv) Mr. Asad, Monitoring Officer, PMU.
- v) Dr. Fazli Hakim Khattak, TL, WC-KP.
- vi) Mr. Nasir Khan, ICT-M, WC-KP.
- vii) Mr. M. Shahraz Khan, OM, WC-KP.
- viii) Mr. Kaisar Khan, AM, WC-KP.

Meeting Agenda:

To discuss project progress, activities plan, budget and way forward

Discussions held:

- Budget spent over the span of the project discussed.
- Project activities and the pace of activities was discussed and both agreed that activities need to expediate to ensure maximum impact.
- TL discussed the Baseline, Midline Surveys and its role in impact evaluation.
- TL emphasized the need of inputs by the PMU as its ultimately their responsibility to ensure the cohesion of the different stakeholders of the project to work as a compact unit.
- PD PMU observed that WCBAPK has its interaction with federal PMU, which causes a disconnect at times with them as some information isn't always shared with them by the federal PMU.
- TL suggested that all the stakeholders should arrange to meet at least once every two months on regular basis to ensure the project work as a cohesive unit.
- The participants agreed to discuss further the idea of joint visits by the field teams of PMU and WCBAPK to make sure every stakeholder record the same intervention and avoid un-necessary problems to the farmers and related dept.
- TL and PD agreed that the ultimate goal of the project is how much the community is getting from it. Evaluating its impact is of paramount importance.
- Agreeing on frequent JRM (Joint Review Meeting) as it will lead to better coordination between stakeholders.
- PD noted that S&WC dept has not been intervening in all the districts of the province, and only a limited selected districts are being intervened. Dr. Fazli Hakim sb seconded the observation and emphasized the need to spread the

interventions to more backward districts to ensure its maximum impact on the lives of the community.

- Afzal sb reiterated the role and importance of M&E component of the project as it serves as the eyes and ears of the management. Without M&E function the project is a lame duck.
- Dr. sb expressed that PC1 may have to be revised as the pace of the project spending is far lower than the time span allotted for it.
- Dr. sb and participants agreed upon the slow pace of every component of the project and emphasized the need to expediate things to get the work done at time
- Agreed upon that there should be frequent visits to each stakeholder's office by the staff working at ground level as they are the core workers and a better liaison between them is of utmost importance for smooth and fast functioning of the project.
- Afzal sb briefed the participants on the working of PMU, he explained how the visit an area along with the concerned dept and the report their finding to secretary agriculture for further action.
- Dr. Fazli Hakim thanked PMU staff for their time and expressed hope to meet very soon at a later date. PMU offered excuse for the short duration as they were going for PIC meeting with DG S&WC and expressed their eagerness to meet again for the next meeting very soon to further discuss and share ideas for improving the routine workings and ensure the project makes its desired impact.



Picture 3.2: ME&IE Team WCBA KP, in meeting at Provincial PMU Office on 11th May 2022

vii) Meeting in Project Consultants (AGES) Office Peshawar on 11th May 2022

Date:	11 th May 2022
Venue:	Project Consultants (AGES) Office, Peshawar.
Participants:	
i) Mr. Tahir Kamran, Team Leader WC-KP (AGES).	
ii) Mr. Pazir Muhammad, Construction Engineer, AGES.	
iii) Mr. Shahid Jan, Construction Engineer, AGES.	
iv) Dr. Fazli Hakim Khattak, TL, WC-KP.	
v) Mr. M. Shahrax Khan, OM, WC-KP.	
vi) Mr. Kaisar Khan, AM, WC-KP.	
Meeting Agenda:	
To discuss project progress, activities plan and way forward	
Discussions held:	

- Agreed upon better cooperation between stakeholders.
- JRM discussed and shed light on its importance for the project's progress. Expressed regret at postponement of it.
- Both Team Leaders agreed upon expediting the pace of the project, expressed regret at the current speed of things.
- AGES TL shared some technical anomalies of various nature that were already reported to the concerned by AGES.
- Both Team Leaders agreed upon to meet at a later date for a detailed discussions and inputs on how to make things move around faster and smoothly.



Picture 3.3: ME&IE Team WCBA KP, in meeting at Project Consultants (AGES) Office on 11th May 2022

viii) **Meeting in Directorate of Agriculture Engineering, Peshawar on 13th May 2022**

Date:	13 th May 2022
Venue:	Directorate of Agriculture Engineering, Tarnab.

Participants:

- Miss Kalsoom, D.D Head Quarter DAE, Peshawar.
- Ms. Afshan Shareen, Project Engr. DAE HQ.
- Mr. Fawad Ahmed, ICT-M, ME&IE.
- Mr. Nasir Khan, ICT-M, WC-KP.
- Mr. Kaisar Khan, AM, WC-KP.

Meeting Agenda:

To discuss the complete process from Application to Completion of the interventions.

Discussions held:

- Approval date of intervention is date of commencement, said by the DAE officials.
- Application: Application form, CNIC, Land ownership certificate, Fard for land, Shajra-e-Aks by Patwari, Surety bond that land is Barani and farmer has not availed any Govt. grant for tube well or solarization in the last 5 years, Authority letter in case more than one farmer applying, Electric Resistivity Survey report done by the farmer on his own.
- Site Feasibility: Zonal officers scrutinize the file, visit the site for feasibility and pitotal record before installation.
- Approval: complete file is sent to headquarter for approval.
- Work order: After the approval file is back to the zonal office, zonal officers provide a work order to the farmer and share a tentative work plan with the farmer and consultants.
- Commencement of work: farmer has to start work in min 15 days and 3 months max, otherwise work order gets cancelled. In case of tube wells, farmers do the work on their own with frequent visits from DAE and consultants. In case of Solarization, the SSC (selected once a year through bidding for the whole target numbers of solarization) installs the solar system and trains the farmer for operation of the system.
- Completion Certificate: after completion of work, the file is submitted to consultants through headquarters, consultants visit the site and provide satisfactory work certificate or PTV report.
- Payment: in case of tube well, after the FCR or TPV, the department sanctions the

amount according to the installed category to the farmer while the department does not assure 20% share of the farmer. Farmers may spend more or less than 20%. In case of solarization, 20% of farmer share is taken as demand draft and this 20% is released to SSC after PTV or satisfactory work certificate while 80% of govt. share is already spent in purchasing the solar panels in bulk for the target number of solarization in one year.

Categories:

- 200 ft depth: 464,000 Govt. share while farmer share is not known for tube well, for solarization on tube well with 200 ft depth: total amount 1,600,000, Govt. share 1,280,000 and farmers share 320,000.
- 250ft depth: Govt. share 580,000 fixed, farmer share not known for tube well, for solarization total 2,000,000, govt share 1,600,000, farmer share 400,000.
- 320 ft depth: in tube well govt share is 742,400 fixed, in solarization total 2,598,000, govt share 2,078,000, farmer share 519,600.

Discussions with Mr. Waseem Ahmed (Financial Specialist) and Mr. M. Irfan (Manager Admin);

- SOPs for Statement of Accounts and its dispatch to National Office. Waseem sb directed to send all WCBA documents/dispatch to National Office for further process.
- Project Office establishment was discussed, Waseem sb discussed with Irfan sb and assured to address the issue of logistics asap.
- Funds arrangements for upcoming field visits and office operating expenses discussed and Waseem sb assured to arrange for it.
- Office Manager highlighted the pending salaries of WCBA staff and other areas/adjustments, both Waseem sb, and Irfan sb committed for solving the salary issues once and for all in the month of June, 2022.
- Letter of appointment/Job Contracts of WCBA staff discussed, Irfan sb guaranteed to solve this in a few days.

ix) WC-KP Team Meeting in National Office Islamabad on 17th May 2022

Date:	17 th May 2022
Venue:	WC-KP national Office, Islamabad.
Participants:	i) Dr. Fazli Hakim Khattak, TL, WC-KP. ii) Mr. Nasir Khan, ICT-M, WC-KP. iii) Mr. M. Shahraz Khan, OM, WC-KP. iv) Mr. Kaisar Khan, AM, WC-KP.
Meeting Agenda:	To discuss project progress, activities plan and way forward
Discussions held:	Discussions with the Team Leader WC-KP; • Upcoming monitoring visits starting from 01 June, 2022. • Logistics arrangement and taking up the same with the concerned office. • Establishment of WCBA separate office at Peshawar and initiating process for the same with the relevant office at HO. • Budget forecast and fund arrangement for field visits and office expenses already initiated and continuous follow up.



Picture 3.4: ME&IE Team WCBA KP, at National Office Islamabad on 17th May 2022

x) 11th Joint Review Meeting at Agriculture Secretariate Peshawar on 20th May 2022

Date:	20 th May 2022
Venue:	Agriculture Committee Room at Agriculture Secretariate, Peshawar.
Participants:	<ul style="list-style-type: none"> i) Dr. M. Israr, Secretary Agriculture. ii) Provincial PMU Staff. iii) OFWM KP Staff. iv) Agriculture Extension Staff. v) Soil & Water Conservation Staff vi) Agriculture Engineering Staff. vii) Project Consultants of NPIWC-II (NESPAK). viii) ME&IE Consultants Staff of NPIWC-II. ix) Project Consultants of WC-KP (AGES). x) ME&IE Consultants Staff of WC-KP.
Meeting Agenda:	Joint Review Meeting.
Discussions held:	<ul style="list-style-type: none"> • Physical Progress of WC-KP project was discussed. • Disbursement of total expenses, ADP and PSDP shares were discussed. • Some observations by the PMU on physical quality of works were discussed. • Number of interventions, in documentation and on ground was discussed. • Quantities and quality verification of work done was discussed. • ME&IE payments issues and ME&IE reporting were discussed. • Impact analysis of the interventions was discussed. • Rectification deadlines for ill quality works was given by the Secretary Agriculture. • TPV for solarization was discussed for AGES said that we cannot be the part of procurement committee for solarization. • Result based monitoring was discussed.

xi) Meeting in Directorate of Agriculture Engineering, Peshawar on 2nd June 2022

Date:	2 nd June 2022
Venue:	Directorate of Agriculture Engineering, Tarnab.
Participants:	

- vi) Ms. Afshan Shareen, Project Engr. DAE HQ.
- vii) Mr. Nasir Khan, ICT-M, WC-KP.
- viii) Mr. Khaliq uz Zaman, FE, WC-KP.

Meeting Agenda:

To discuss the formats and to discuss the way out for completion of missing columns in the data collection formats.

Discussions held:

- The formats which were revised after discussion with national ICT manager were shared with the department and each column was discussed in detail in order to eliminate the unnecessary columns and to add the certain information that can help in the analysis of data and dashboard requirements.
- The formats were given to the department to fill out the missing columns.
- The filled formats were reshared by the department in mid of June which were forwarded to the national ICT team for further necessary action.

xii) Meetings in Directorate of Soil & Water Conservation, Peshawar on 6th and 7th June 2022

Date:	6 th & 7 th June 2022
Venue:	Directorate of Soil & Water Conservation, University Road, Peshawar.
Participants:	<ul style="list-style-type: none"> i) Mr. M. Yasin Wazir, DG, S&WC. ii) Mr. Khalid Gauhar, DD Admin & Field, S&WC iii) Miss Shagufta Bano, DDP, S&WC iv) Mr. Irfan Ullah, DD Planning, S&WC. v) Ms. Sowm Khan, AD Planning, S&WC. vi) Mr. Nasir Khan, ICT-M, WC-KP. vii) Mr. Khaliq uz Zaman, FE, WC-KP.
Meeting Agenda:	To discuss the revised formats and to sort out a mechanism for filling the required data in the formats.
Discussions held:	

- Revised data formats were presented to Mr. Irfan Ullah, Mr. Khalid Gauhar & Ms. Sowm Khan in Mr. Irfan Ullah's office.
- The changes made were discussed with the department.
- The SFTs provided by the department were edited according to the revised formats.
- Data from SFTs has been shifted to the revised formats and has been shared with the department to fill the missing columns as there are many columns still empty.
- Filling out the missing data was discussed with Mr. M. Yasin Wazir, DG S&WC.
- The WC-KP team stated that hard files of interventions should be shared to collect the required information. DG S&WC replied that we cannot bring the interventions files to the directorate, however, we will share the formats with our field officers to fill out the missing columns.
- Revised data collection formats duly filled with the SFTs data were shared with Ms. Sowm Khan to forward the same to field offices for filling out the missing data.

**xiii) Project Board of Management (P-BoM)
Meeting at national office, Islamabad on
21st June 2022**

Date:	21 st June 2022
Venue:	National Project Office, Islamabad.
Participants:	
i) Mr. Ch. Saif Khan, MD G3EC. ii) Mr. Waseem Ch., Director G3EC. iii) Mr. Irfan, MD S&S Associates. iv) Dr. Fazli Hakim Khattak, TL WC-KP. v) Dr. Usman, TL NPIWC. vi) Dr. Humayun Khan, DTL, NPIWC. vii) Mr. Rizwan Ahmed, National ICT Manager.	
Meeting Agenda:	
To discuss the project progress, issues, targets and way forward	
Discussions held:	

- Project progress was discussed.
- Financial and technical issues of the project was discussed.
- Office operational requirements, logistics for field surveys etc. was discussed.
- Upcoming filed surveys and plans were discussed.
- Staff salaries issues was discussed.

**xiv) Meeting at NPC office, Islamabad on 27th
June 2022**

Date:	27 th June 2022
Venue:	National Project Coordinator Office, Islamabad.
Participants:	
i) Mr. Muhammad Naeem Akhtar, Dy PC WCKP, FPMU MNFS&R ii) Dr. Fazli Hakim Khattak, TL WC-KP.	
Meeting Agenda:	
To discuss the project progress, issues, targets and way forward	
Discussions held:	
<ul style="list-style-type: none"> • Project progress was discussed. • Financial and technical issues of the project was discussed. • Office operational requirements, logistics for field surveys etc. was discussed. • Upcoming filed surveys and plans were discussed. • Staff salaries issues was discussed. 	

5.2.3 ICT ASSIGNMENT

The ICT Technology Team of ME&IE Consultants WC-KP team has performed the following activities during the month of June 2022.

5.2.3.1 Development of Customized Android Based Applications

The ICT Technology Team of ME&IE Consultants WC-KP will develop Customized Android Based Applications for data collection. Data entry in this application will be done directly by the field monitoring teams of all the zonal/ regional/ districts offices and is uploaded in the MIS system. The data will be observed and monitored by the ICT team of ME&IE Consultants.

5.2.3.2 Data collection of interventions in MIS/GIS database

The activity regarding data collection of Interventions in MIS/GIS database is in progress. Some data has been taken from the departments in the form of SFTs (Social, Technical & Financial) sheets which were developed by the departments, project consultants (Ages) and the provincial PMU.

A lot of data is missing in the given SFTs formats and the team is in continuous collaboration with the departments to collect the missing data.

5.2.3.3 Revision of Data Collection Formats for Directorate of Agriculture Engineering (DAE) Interventions

The ICT team was thru in consecutive meetings and coordination with the officials of Directorate of Agriculture Engineering. The data collection formats for DAE interventions were finalized with the department and the data provided by department in the form of SFTs (Social, Financial & Technical) spreadsheets was fed in to the formats but the national ICT specialist has made some changes in the formats according to the necessitating requirements of the dashboard. The formats are now finalized with the department and the department was asked to fill out the missing columns. The department reshared the formats with all the data filled in mid of June which were forwarded to the national team for review and further action.

Summary tables of DAE interventions i.e., Establishment of Tube wells and Solarization of Tube wells completed during 2019-20 and 2020-21 financial years are given below;

STATION & DISTRICTWISE TUBEWELL SCHEMES					
Station	Districts	FY 2019-2020		FY 2020-2021	
		Targets	Achievement	Targets	Achievement
Peshawar	Peshawar	1	1	2	2
	Charsadda	1	1	2	2
	Nowshera	3	3	3	3
Mardan	Mardan	3	3	2	2
	Swabi	0	0	2	2
Kohat	Kohat	1	1	2	2
	Hangu	0	0	1	1
Bannu	Karak	1	1	2	2
	Bannu	1	1	2	2
	Lakki Marwat	2	2	1	1
D.I. Khan	D.I.Khan	2	2	2	2
	Tank	0	0	2	2
Mansehra	Mansehra	1	1	3	3
	Battagram	0	0	0	0
	Tor Ghar	0	0	0	0
	Kohistan	0	0	0	0
Haripur	Abbatabad	1	1	0	0
	Haripur	0	0	4	4
Malakand	Malakand	0	0	5	5
	Lower Dir	1	1	0	0
	Upper Dir	0	0	0	0
Chitral	Chitral	0	0	0	0
Swat	Swat	1	1	3	3
	Buneer	0	0	2	2
	Shangla	0	0	0	0
NMAS	Merge Districts	0	0	0	0
Total		19	19	40	40

STATION & DISTRICTWISE SOLAR SCHEMES					
Station	Districts	FY 2019-2020		FY 2020-2021	
		Targets	Achievement	Targets	Achievement
Peshawar	Peshawar	9	9	6	6
	Charsadda	6	6	5	5
	Nowshera	14	14	7	7
Mardan	Mardan	5	5	6	6
	Swabi	5	5	5	5
Kohat	Kohat	5	5	7	7
	Hangu	3	3	1	1
Bannu	Karak	5	5	6	6
	Bannu	5	5	5	5
	Lakki Marwat	4	4	4	4
D.I. Khan	D.I. Khan	6	6	4	4
	Tank	2	2	5	5
Mansehra	Mansehra	1	1	6	6
	Battagram	0	0	0	0
	Tor Ghar	0	0	0	0
	Kohistan	0	0	0	0
Haripur	Abbatabad	1	1	0	0
	Haripur	5	5	7	7
Malakand	Malakand	5	5	8	8
	Lower Dir	2	2	3	3
	Upper Dir	0	0	0	0
Chitral	Chitral	0	0	0	0
Swat	Swat	2	2	6	6
	Buner	5	5	4	4
	Shangla	0	0	0	0
NMAS	Merge Districts	0	0	18	18
Total		90	90	113	113

An Android based app shall be developed for the DAE and the DAE officers shall be trained for the data entry of ongoing project interventions after the finalization of data collection formats and on-line dashboard.

5.2.3.4 Data Collection Formats for S&WC Interventions

Data Collection Formats for the S&WC interventions have also been developed. The formats were shared with the department for their review and comments and have been discussed several times in the S&WC directorate. The

department shared their observations and comments which were discussed with the department and the WCKP team. The formats were revised several times and presented to the department. These formats are now revised by national ICT specialist as per the dashboard requirements. These formats are now finalized with the department and duly filled with the SFTs data provided by the department, however, there are a lot of missing columns in the finalized formats which are conversated to the department. Now the team is in coordination with the S&WC officials to fill the missing data columns.

5.2.3.5 DEVELOPMENT OF ANDROID BASED APP

Android is a mobile operating system based on a modified version of the Linux kernel and other open-source software, designed primarily for touch screen mobile devices such as smart phones and tablets.

Data collection android application would have following features:

- Well optimized application for better work in online/offline environment User friendly interface
- Consume less internet bandwidth for better connectivity at low internet/remote areas
- Data is automatically uploaded when a connection is detected
- Data immediately available right after it's collected
- signatures, photos and much more
- Strong safeguards against data loss
- Synchronize data via SSL, ensures data can't be read by a third party
- Encrypted data will be saved at device and server

5.2.3.6 DEVELOPMENT OF WEBSITE FOR THE PROJECT

The development of Website for WCKP was started by the month of February 2021. The following activities have been completed: -

- i. Held meetings with the Stakeholders to identify the project website requirements
- ii. Website layout structure prepared
- iii. Design & Development of website completed in June 2021.

The Revision/up-dation of the Project website has been presented to NPC office on 15 September 2021. Minor modifications were proposed by the Client during the 3rd PBOM meeting on 9th November 2021, which have been incorporated accordingly as per requirements of the Client. However, before uploading the final version of the Website, it will be presented to the Client for final approval.

A website is a collection of web pages and related content that is identified by a common domain name and published on at least one web server. All publicly accessible websites collectively constitute the World Wide Web. Nowadays, the website is the primary communication tool as well as the front face of organization. In development projects, the prime purpose of the website is to communicate the project activities, outcome, impact reports and the publication of the notices like; tenders and bid evaluation reports for the transparent procurement processes. To develop the project website, Content Management System (CMS) will be used. By the implementation of CMS based website it will ensure the interactivity at website and easy update page content, images, documents, and integration with analytical systems to track pages and site performance.

Website structure is the main content planning phase. To finalize the structure of website a close

consultation with key stakeholders is required. A preliminary structure of the website will have the following pages:

- i. Homepage (Landing page)
- ii. Project Introduction
- iii. Project Components
- iv. Project activities
- v. Progress Reports
- vi. Monitoring Reports
- vii. Impact Reports
- viii. Project Progress
- ix. Procurement
- x. Procurement of Goods, Services & works
- xi. Evaluations and Results
- xii. Career
- xiii. Media Gallery
- xiv. Contact
- xv. FAQs (Frequently Asked Questions)

5.2.3.7 DEVELOPMENT OF MIS/GIS SYSTEM

Designing of Dashboard of Project Interventions / Web-based GIS integrated MIS (PMIS System) has been Completed in the mid of August 2021. Data collection of interventions in MIS/GIS database is under progress.

The designing/development of the MIS/GIS system followed the software engineering methods. Thus, user requirements elicitation, requirements analysis, system design, system implementation and maintenance were done in a circular fashion. Thereafter, evaluation will be done to test the efficacy, effectiveness, and efficiency of the management information system in the real environment. In the system development, both structured system analysis, design, object-oriented analysis, and design approaches will be used.

An established Management Information System will enable Federal and Provincial PMUs to demonstrate to key stakeholders whether the project is achieving the stated goals, outcomes, and outputs in accordance with targeted time frame.

The GIS based MIS will provide the means of:

- i. Comprehensively tracking the project inputs and outputs, using mainly the set of key performance indicators outlined under each component at frequent intervals.
- ii. Monitoring of project outcome indicators.
- iii. Robustly analyzing the relevant ME&IE data.
- iv. Reporting progress on an open-access and regular basis, to support knowledge sharing, greater transparency, and improved project governance.

It is proposed that the Management Information System (MIS) for WCBA KP be implemented using a phased approach although due to Agile Software Development Methodology few activities will interrelate between phases. The following 2 phases are considered:

Phase-I – MIS Development

Requirement & GAP Analysis – (Completed)

The ME&IE Consultants performed Requirement Analysis to review the project processes.

A thorough assessment of any existing IT infrastructure'

- i. *Perform needs assessment of the current IT capacity of individual stakeholder's and identify any infrastructure gaps and recommend necessary upgrades in IT infrastructure.*
- ii. *Identify hardware and network infrastructure requirements and specification at the core, access, and distribution layers along with endpoint*
- iii. *Determine the technical parameters of the solution based on the Bandwidth requirement based on the total number of anticipated users with a redundancy plan*

Phase-II – Data Collection Format

The ME&IE Consultants has prepared the data collection formats for three types of S&WC interventions and two AED interventions according to shared files/ data and sent to department for approval. Later, all these formats were discussed with the departments thoroughly. Edited formats according to the departments' comments and

requirements. The data collection process will be started after the finalization of these formats with the departments.

GIS Integrated MIS Development – (Completed)

Based on the requirements gathered, develop an application framework that includes user management, access control, security, and workflow for publishing information. This application framework should be based on Modular Architecture to enable modules to be added in the future and be able to share data with other applications. Test the application framework with the real users and gather feedback on the system.

Based on the feedback received from the testing by the real users, finalize the web-based/ mobile-friendly application.

MIS / Android Application Deployment and Testing (Beta Run) - (Completed)

The ME&IE Consultant deployed the MIS at the designated web server and handed over the documented source code. The ME&IE Consultant also conducted functional and operational testing. A User Acceptance Test (UAT) is to be carried out (either as part of the deployment or after).

Digitize and Migrate the Data – (Under Progress)

During this time, a lot of data has been generated, it can be in digital form or may be in hard copy form. The ME&IE Consultant has to digitize the hard copy data and has to migrate the complete data in the respective database forms.

Designing and Development of Dashboard of Project interventions have been completed. The final presentation of Web-Based PMIS, integrated with GIS and M&E system was presented to NPC office and received the approvals.

Implementation of GIS Integrated MIS Dashboard - Under Progress

Operational and User Manual

Based on the feedback received from the testing by the real users, finalize and prepare operational documentation and user manuals for orienting the users. Make the user manual as a help file to the online application so that the user can refer to the manual as and when needed.

Submission of a comprehensive Operation and User Manual followed by handing over of the completed MIS. The ME&IE Consultant will submit a Soft and Hard Copy of the Operation and User Manual for the operation of the overall MIS. This manual will also be available online for users from their logins, the online manual should be properly indexed and searchable as web pages on a secured area.

Training and Capacity Building

Training and Capacity Building of staff on MIS and Android Application is an essential and final part of this assignment. Training modules will have to be designed for multiple groups of users as per their needs and requirements. Potential user groups could be the following:

- i. NPC – FPMU
- ii. Provincial DGs (of relevant Departments)-
PMU
 - a. Regional Directors
 - b. Deputy Directors
 - c. Field Teams
- iii. Project Consultants
- iv. ME&IE Consultants

A comprehensive document of the training plan has to compile for this phase. As each user group has different requirements for training as mentioned below:

NPC – FPMU __ National Project Coordinator and Federal Project Management Unit's need the insight of overall national level progress and impact reports. This group will not submit any primary data. Android

application training will not be delivered to the users of this group.

Project Consultants __ Project Consultants requires the MIS access and training and the Android application training as well to access and submit the data generated by Project Consultant like certifications.

Although PCs provided the names for training, but ME&IE Consultants are of the view that PCs needs to revisit their nominations.

ME&IEC __ Monitoring Evaluation and Impact Evaluation Consultants provided the Android Application trainings to its field staff as well and will submit the Baseline, Edline data and Progress Monitoring and Impact Reports.

5.3 WORK SCHEDULE AND PLANNING FOR DELIVERABLE

The project Work Schedule and planning matrix for deliverables is attached to the report as **Annex-C** which shows the progress till the reporting month.

5.4 WORK SCHEDULE / ACTIVITIES FOR FIFTH & SIXTH QUARTER (JANUARY TO JUNE 2022)

Work Plan / Activities planned for the 1st & 2nd Quarters January 2022 to June 2022 are attached as **Annex-D** to this report.

ANNEXES A TO D

ANNEX - A: MONITORING LOG-FRAME

Project Sub-component	Target	Activities	Outputs	Outcome		Goal/ impact	Methodology for Measuring Results
				Baseline indicator	Target after completion of Project		
Component A. Soil & Water Conservation Component							
1.	- Construction of 5,000 water ponds (WSPs)	5,000 small farmers mobilized to construct water ponds They agree to contribute 20% of the cost Agree to first construct the tank with his/her own funds and then received subsidy at 80% on issuance of FCR*	Approximately 12,500 acres of agriculture land will be irrigated from these interventions.	2,000 water ponds	Crop production per unit area will increase by conserving runoff water/ water from perennial springs. Livestock will be increased; ultimately farmer's living standards will improve.	Approximately 12,500 acres of the land will be changed into crop fields and fruits orchids, which will increase farmer's income. More than 25,000 farmers will permanently engage in agriculture sector. These will provide short term employment to approximately 40,000 labors during the construction period of the interventions.	Adopting the Sampling formula/ sample of water ponds farmer will be surveyed A data collection form will be designed to measure water saving due to WSPs The survey will determine: i. Cropping pattern before and after the improvement; ii. Cropping intensities before and after improvement; iii. Before and after crop yields; iv. Before and after employment; 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.

Project Sub-component	Target	Activities	Outputs	Outcome		Goal/ impact	Methodology for Measuring Results
				Baseline indicator	Target after completion of Project		
2.	Construction of 3,000 Check dams (CD)	In each Check dam village, (small farmers mobilized will be to construct check dams They agree to contribute 20% of the cost Agree to first construct the tank with his/her own funds and then received subsidy at 80% on issuance of FCR*	Approximately 7,500 acres of the land will be reclaimed.	2,500 check dams	Approximately 7500 acres of the land will conserve; ground water table of the nearby wells will rise.	Land value of the project area will increase; more than 7,500 acres of the land will bring under cultivation. Climatic condition of the area will improve and livestock will be benefited. More than 15,000 people will permanently engage in agriculture activities in the project area. More than 24,000 labors will be provided with short term employment during the construction period of the intervention.	Adopting the Sampling formula/ sample of water ponds farmer will be surveyed A data collection form will be designed to measure water saving due to check dams The forms used for baseline and impact surveys in case of WSP will also be used for Check dams Same data analysis will be carried out here as in WSPs (1)
3.	Construction of 330 Water Reservoir (WR)	In each Water Reservoir village, (small farmers will be mobilized will be to construct It. They agree to contribute 20% of the cost Agree to first construct the tank with his/her own funds and then	Approximately 9,900 acres of land will be irrigated from this intervention.	250 mini dams	Ground water table will be improved; farmer's income will be increased. Livestock will be benefited.	Culturable wasteland will be developed by supplying stored water. Ground water table will rise up. Fish farming, livestock and forestry will be improved. Over all livelihood of the farmer community will improve. Approximately 19,800 people will permanently engage in agriculture,	Adopting the Sampling formula/ sample of water ponds farmer will be surveyed A data collection form will be designed to measure water saving due to WRs The forms used for baseline and impact surveys in case of WSP will also be used for WRs Same data analysis will be carried out here as in WSPs (1)

Project Sub-component	Target	Activities	Outputs	Outcome		Goal/ impact	Methodology for Measuring Results
				Baseline indicator	Target after completion of Project		
		received subsidy at 80% on issuance of FCR				livestock and fish rearing etc. More than 2,640 labors will be benefited from the scheme.	
4.	Construction of 2,500 Stream bank stabilization (SBS)	In each SBS village, small farmers will be mobilized They agree to contribute 20% of the cost Agree to first construct the tank with his/her own funds and then received subsidy at 80% on issuance of FCR*	Protecting/ reclaiming about 6,250 acres of agricultural land from erosion with floods water.	15,000 stream bank stabilization structures.	Per unit area of crop production will be saved.	Approximately 6,250 acres of agriculture land will be saved directly from floods water. This will further enhance the life of precious dams and reservoirs. This may engage approximately 12,500 farmers for long time in agriculture sector. 20,000 labors will work during construction period of these intervention	Adopting the Sampling formula/ sample of water ponds farmer will be surveyed A data collection form will be designed to measure water saving due to SBSs The forms used for baseline and impact surveys in case of WSPs will also be used for SBSs Same data analysis will be carried out here as in WSPs (1)
5.	Construction of 1,000 Gated field Inlet Outlet/Spillway (GFIO/S)	In each GFIO/Spillway village, small farmers will be mobilized They agree to contribute 20% of the cost Agree to first construct the tank	Sufficient amount of water will be provided to about 2,500 acres of land for irrigation in rod kahi areas of the province.	1,500 field inlets and spillways.	Farmer's income will increase; fertile land degradation will be minimized.	Approximately 2,500 acres of agriculture land will be benefited directly from this intervention. Approximately 5,000 farmers will permanently engage in agriculture sector for long period of time. These interventions will provide short term	Adopting the Sampling formula/ sample of water ponds farmer will be surveyed A data collection form will be designed to measure water saving due to GFIO/S The forms used for baseline and impact surveys in case of WSP will also be used for GFIO/s

Project Sub-component	Target	Activities	Outputs	Outcome		Goal/ impact	Methodology for Measuring Results
				Baseline indicator	Target after completion of Project		
		with his/her own funds and then received subsidy at 80% on issuance of FCR*				employment to about 5,000 labors.	Same data analysis will be carried out here as in WSPs (1)
6.	Development of 370 acres land for terracing (LFT)	In each LT village, small farmers will be mobilized They agree to contribute 20% of the cost Agree to first construct the tank with his/her own funds and then received subsidy at 80% on issuance of FCR*	Farmer's income will be increased by increasing agricultural land due to terraces development.	500 acres	Per unit production of farmers will increase by converting approximately 370 acres of non-culturable waste land into culturable.	Crop production will increase; land sliding will reduce due to terraces formation; rainwater infiltration will increase. Approximately 740 farmers will permanently engage in agriculture. Approximately 1,850 labors will be benefited from these interventions.	Adopting the Sampling formula/ sample of water ponds farmer will be surveyed A data collection form will be designed to measure water saving due to WSPs The forms used for baseline and impact surveys in case of WSP will also be used for LFTs Same data analysis will be carried out here as in WSPs (1).
7.	Development of 70 numbers of micro-watershed areas (MWA)	In each MWA small farmers mobilized to construct MWA They agree to contribute 20% of the cost Agree to first construct the tank with his/her own	Approx. 7,000 acres of the area will be converted into agriculture/ forest land which will improve the aesthetic	02 micro watershed developed	Culturable wasteland will be converted into an agricultural productive land. Farmer's income will be increased through	Developing micro-watersheds will improve climatic condition of the area; floods chances will be minimized by harvesting rainwater in water harvesting interventions; land sliding and soil erosion will be minimized.	Adopting the Sampling formula/ sample of water ponds farmer will be surveyed A data collection form will be designed to measure water saving due to MWA s The forms used for baseline and impact surveys in case of WSP will also be used for WRs

Project Sub-component	Target	Activities	Outputs	Outcome		Goal/ impact	Methodology for Measuring Results
				Baseline indicator	Target after completion of Project		
		funds and then received subsidy at 80% on issuance of FCR*	value of the area.		agriculture, livestock, fisheries and forestry etc.	Moreover, aesthetic value of the land will be improved. Approximately 14,000 people will engage in agriculture sector permanently. Approximately 14,000 labors will be directly benefited during the process of micro-watersheds development.	Same data analysis will be carried out here as in WSPs (1).
8.	Constructing 370 numbers of water Seepage harvesting Galleries (WSHG)	In each WSHG farmers will be mobilized to construct water ponds They agree to contribute 20% of the cost Agree to first construct the tank with his/her own funds and then received subsidy at 80% on issuance of FCR*	Approx. 925 acres of land will be irrigated from this intervention.	15 water seepage galleries	More area will bring under cultivation by establishing crop fields and fruits gardens in the project area. Livestock will increase and more people will engage in agriculture sector.	Continuous supply of clean water for agriculture, livestock and human beings will be ensured. Water crises will be minimized in the project area. More than 1,850 number of people will engage in agriculture activities for long period of time. About 1,850 labors will be directly benefited during the construction process.	Adopting the Sampling formula/ sample of water ponds farmer will be surveyed A data collection form will be designed to measure water saving due to WSHG s The forms used for baseline and impact surveys in case of WSP will also be used for WRs Same data analysis will be carried out here as in WSPs (1)

Project Sub-component	Target	Activities	Outputs	Outcome		Goal/ impact	Methodology for Measuring Results
				Baseline indicator	Target after completion of Project		
9.	800 numbers of Agronomic low-cost interventions (ALCI)	In each ALCI village small farmers mobilized to ALCI They agree to contribute 20% of the cost Agree to first construct the tank with his/her own funds and then received subsidy at 80% on issuance of FCR*	Approx. 2000 acres of land will be protected from erosion by these interventions.	2000 various low-cost small interventions	More area will bring under cultivation; economic condition of the local community will be improved.	Land will be protected from erosion; infiltration will be improved during rainfall; livestock will be benefited. Approximately 2400 farmers will permanently engage in agriculture. These will also provide short term employment to about 2400 labors.	Adopting the Sampling formula/ sample of water ponds farmer will be surveyed A data collection form will be designed to measure water saving due to ALCI s The forms used for baseline and impact surveys in case of WSP will also be used for ALCIs Same data analysis will be carried out here as in WSPs (1
10.	230 acres of Sand Dunes Stabilization (SDS)	In each SDS locality small farmers mobilized to construct water ponds They agree to contribute 20% of the cost Agree to first construct the tank with his/her own funds and then received subsidy at 80% on issuance of FCR*	Approx. 230 acres land of sand dunes will be stabilized by growing kana plants.	200 acres Sand dunes effects stabilized.	Non-culturable sand dunes will be converted into an economically productive piece of land.	Sand dunes stabilization through plantation will be a direct source of income generation for the local community by making homemade items from the stems of the kana plants. These will also help in improving climatic condition of the project area. Meanwhile about 460 numbers of labor will be benefited.	Adopting the Sampling formula/ sample of water ponds farmer will be surveyed A data collection form will be designed to measure water saving due to SDS s The forms used for baseline and impact surveys in case of WSP will also be used for SDSs Same data analysis will be carried out here as in WSPs (1

Project Sub-component	Target	Activities	Outputs	Outcome		Goal/ impact	Methodology for Measuring Results
				Baseline indicator	Target after completion of Project		
11.	500 Nos Capacity Building (CB)	500 small farmers capacity will be built on different traits.	An estimated 500 trainings will be conducted for stakeholders including farmers and departmental staff.	2000 Capacity building trainings conducted.	Enhanced capacity for better management of soil and water resources.	Soil and water resources of the province will better be managed with better management practices. The capacity of the stake holder will be enhanced in better management of soil and water resources of the country in general and Khyber Pakhtunkhwa in particular.	Pre training and post training evaluation will be conducted from all farmers to estimate the enhancement in their knowledge and skill. In this connection same Performance will be used before the conduct of the training after the completion of the training.
Component B Agricultural Engineering Component							
12	Procurement and installation of 700 Solar, pumping and 300 Tube Wells (SPS&TW).	Solar Pumping small farmers mobilized to install SPS&TW They agree to contribute 20% of the cost Agree to first construct SPS&TW with his/her own funds and then received subsidy at 80% on issuance of FCR*	Irrigation of 17,500 hectares (43,225 acres) of land.	> 650 SPS&TW installed.	Conversion of rain fed land into irrigated land will add more value to the land and the enhance production from crops/Orchard will help in improving the socio-economic condition of the farming community.	Provision of irrigation water will lead to increase Agriculture production and self-sufficiency in food grain.	Adopting the Sampling formula/ sample of SPS&TW farmers will be surveyed A data collection form will be designed to measure water saving due to SPS&TW s The forms used for baseline and impact surveys in case of WSP will also be used for SPS&TW s Same data analysis will be carried out here as in WSPs (1

Project Sub-component	Target	Activities	Outputs	Outcome		Goal/ impact	Methodology for Measuring Results
				Baseline indicator	Target after completion of Project		
13	700 on-site training of farmers in adaptation of new techniques for pumping sub-surface water.	5,000 small farmers mobilized to construct water ponds They agree to contribute 20% of the cost Agree to first construct the tank with his/her own funds and then received subsidy at 80% on issuance of FCR*	Irrigation water Pumping cost will be reduced by adopting solar technology.	> 2,000 trainings conducted.	The cropping intensity will be enhanced.	Farmers of the project area will be educated in the modern techniques being adopted in Agriculture and therefore, pay more attention to increase crop yield and Farm income.	Adopting the Sampling formula/ sample of trained farmer will be surveyed A data collection form will be designed to measure water saving due to trainings The forms used for baseline and impact surveys in case of WSP will also be used for trainees Same data analysis will be carried out here as in WSPs (1

ANNEX - B: PROJECT PROGRESS REPORTING FRAMEWORK (PPRF)

Project Title.....

Report Name and Period.....

Area Name

Sr. No.	STRATEGY /ACTIVITIES	Reporting Quarter								Year to Quarter(Cumulative)							
		Physical Progress				Financial Progress				Physical Progress				Financial Progress			
		Unit of Measure	Target/Planned	Actual/Achievement	Variance%	Committed Liability of Previous Year	Budget Allotted(PC-1)	Actual Expenditure	Variance%	Unit of Measure	Target/Planned	Actual/Achievement	Variance%	Committed Liability of Previous Year	Budget Allotted(PC-1)	Actual Expenditure	Variance%
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Area details.....?																	
1	Activity details																
Sub Totals																	
Area details.....?																	
2	Activity details																
Sub Totals																	
Total(s)																	
Note:1-Report Summary will be Prepared Separately from the data consolidated Area wise and Components Wise.....? 2- More columns will be added as per requirements....?																	

WORK SCHEDULE AND PLANNING FOR DELIVERABLES		Years																																															
		Years 1												Years 2												Years 3												Years 4											
NO.	DELIVERABLE/ ACTIVITY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	DELIVERABLES																																																
1	Draft Inception Report		↓																																														
2	Final Inception Report			↓																																													
3	Monthly Monitoring Report	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
4	Baseline Survey Report ⁽¹⁾					↓													↓												↓																		
5	Midline Survey Report																											↓																					
6	End Line Survey Report																																															↓	
7	Quarterly Monitoring and Evaluation Report			↓			↓			↓		↓	↓			↓		↓	↓		↓	↓		↓	↓		↓		↓	↓	↓	↓	↓	↓	↓	↓		↓		↓	↓	↓	↓	↓	↓	↓	↓		
8	Annual Monitoring and Evaluation Report											↓													↓											↓											↓		
9	Draft Assignment Completion Report																																														↓		
10	Final Assignment Completion Report																																														↓		
11	Special Reports (As and when required)																																																

(1) The baseline report will be submitted at the end of 4th month provided sites for all interventions are pre-determined and sites are available at the outset. However, if the sites are identified during project implementation then the baseline will be done in phases

Bi Annually Activity Plan (01 January to 30 June 2022)-ME&IE Consultants for Soil & Water Conservation in the Barani Areas of KP

S#	Deliverable / Activities	Jan, 31	Feb, 28	Mar, 31	Apr, 30	May, 31	Jun, 30
1	Complete the baseline survey of the project activities:						
	a. Zero Draft of BLS sharing with the stakeholders						
	b. Incorporation of comments						
	c. BLS Final Report submission						
	d. Training of the new field team on monitoring tools						
	e. Field data collection						
	f. Data cleaning, processing and analysis						
	g. Writing of Draft Monitoring Report & Success Stories						
	h. Submission of Final Monitoring report						
2	Develop monitoring strategy, framework and results-based monitoring (RBM) indicators.						
	a. Meetings with the Stakeholders on M&E/IE						
	b. Draft monitoring tools for each activity distributed among stake holders for comments						
	c. Incorporation of comments						
	d. Monitoring tools programming in Android						
	e. Training of the field team						
	f. Field data collection, analysis						
	g. Submission of Final MR & Success Stories						

* In each quarter the ME&IE consultants will prepare success story of one of the S&WC activities which cover socio-economic aspect of the project.