



Government of Nepal  
Ministry of Agriculture and Livestock Development  
Department of Agriculture  
Hariharbhawan, Lalitpur

## Irrigation Modernization Enhancement Project (IMEP)

AGRICULTURAL DEVELOPMENT PLAN IMPLEMENTATION GUIDELINES

FY 2082/83 (2025/26)

Rajendra Prasad Mishra (Ph.D)  
Secretary

Hon. Dr. Madan Prasad Pariyar  
Minister

# TABLE OF CONTENTS



Contents

TABLE OF CONTENTS .....	i
LIST OF TABLES.....	iii
LIST OF APPENDICES.....	iv
1 INTRODUCTION .....	1
1.1 Current situation of irrigation and agriculture in Nepal .....	1
1.2 Background of the IMEP .....	1
1.3 Project management and implementation arrangement.....	3
1.4 Role of CPMO:.....	4
1.5 The key project implementation organizations.....	4
1.6 Objective and Structure of Guidelines.....	4
1.7 Target Users of Guidelines .....	5
2 CENTRAL AGRICULTURE MANAGEMENT OFFICE IN DEPARTEMNT OF AGRICULTURE .....	6
2.1 Management and coordination through the Central Agriculture Management Office (CAMO)in DoA.....	6
2.2 Management and coordination roles and responsibilities of DoA and CAMO.....	6
2.3 Strategy for ADP implementation support in IMEP.....	6
2.4 Approaches for ADP implementation support in IMEP.....	7
2.5 ADP Implementation Arrangements under Irrigation Sub-Project Schemes .....	7
2.5.1 Structure and Functions of Sub-committees.....	7
2.5.2 Inclusive Representation and Equity .....	8
2.6 Agriculture Management and Coordination Committee (AMCC).....	8
2.7 Role and responsibility of Agriculture Management and Coordination Committee (AMCC).....	8
2.8 The PIMS Consultant and Agriculture Specialist.....	8
3 Provincial Agriculture Ministry and their Directorate of Agriculture Development .....	10
3.1 Coordination through provincial Agriculture Ministry and their Directorate of Agriculture Development .....	10
3.2 Management roles and responsibilities of implementing agency at provincial level .....	10
3.3 Provincial ADP Implementation and Coordination Committee (PAICC) .....	10
3.4 Role and responsibility of Provincial ADP Implementation and Coordination Committee (PAICC) .....	10
4 ADP UNDER FARMER MANAGED IRRIGATION SCHEME (FMIS) .....	11
4.1 Concept of ADP under FMIS .....	11
4.2 Objectives of ADP .....	11
4.3 Results and outputs.....	11
4.4 Implementation process and procedure .....	11
4.5 Staffing of the AKC/ADO-PIU .....	12
4.6 Management roles and responsibilities of AKC/ADO- PIU .....	12
4.7 ADP Implementation Support Committee (AIC).....	12
4.8 Role and responsibility of ADP Implementation Committee (AIC) .....	12
5 ADP UNDER HILL LIFT IRRIGATION SCHEME (HLIS).....	13
5.1 General.....	13
5.2 Concept of ADP under Hill Lift Irrigation Scheme.....	13
5.3 Objectives of ADP under Hill Lift Irrigation Scheme.....	13

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*

**Rajendra Prasad Mishra (Ph.D)**  
Secretary

**Hon. Dr. Mardan Prasad Parit**  
Minister

## LIST OF TABLES

Table 1: Approaches for ADP implementation support in IMEP.....	7
Table 2. Project Implementation Unit (PIU) staffing .....	12
Table 3. Project Implementation Unit (PIU) Staffing .....	13
Table 4. Staffing of the Rajapur Agriculture Management Office .....	15
Table 5. Detail Work Plan (Output 2) .....	17
Table 6. Detail Work Plan (Output 3) .....	18
Table 7. ADP Management Activities.....	20
Table 8. ADB Loan and Government Counterpart Financing for Project ADP Activities .....	22
Table 9. Monitoring Methods and Responsibilities.....	23



Rajendra Prasad Mishra (Ph.D)  
Secretary



Hon. Dr. Madan Prasad Patiwar  
Minister



## LIST OF APPENDICES

Appendix 1. List of irrigation subprojects .....	25
Appendix 2. Demonstration Up- scaling Matching Grant Forum .....	31
Appendix 3. Evaluation Criteria (Demonstration Up scaling Matching Grant Forum) .....	33
Appendix 4. Site Selection Reporting Format for Production Demonstration .....	34
Appendix 5. Strengthening Activities for Irrigation and Agriculture agencies and Farmers Organizations (WUAs and WUCs) under OUTPUT 2.....	36
Appendix 6. Agriculture Support Activities under OUTPUT 3 .....	40
Appendix 7. Implementation Steps for Typical Farmer Field School (FFS) under ISP.....	61
Appendix 8. Project Support for ADP implementation.....	63
Appendix 9. Cost sharing of different major activities of the Project .....	64
Appendix 10. ICWM Activities implementation under Component 3.....	65

*Pamb*

*30/07/07*  
*Gay*

*g*

*Pant*

*g*

**Rajendra Prasad Mishra (Ph.D)**  
**Secretary**

*W*  
**Hon. Dr. Madan Prasad Pariyar**  
**Minister**



**ABBREVIATIONS**

ADB	Asian Development Bank
ADO	Agriculture Development Office
ADP	Agriculture Development Plan
AKC	Agriculture Knowledge Center
AULL	Agriculture Units of Local Level
CAMO	Central Agriculture Management Office
CPMO	Central Project Management Office
CPMU	Central Project Management Unit
DoA	Department of Agriculture
DWRI	Department of Water Resources and Irrigation
FMIS	Farmer Managed Irrigation Systems
HLIP	Hill lift irrigation projects
IMEP	Irrigation Modernization Enhancement Project
ISPs	Irrigation Sub-project Scheme
MOALD	Ministry of Agriculture and Livestock Development
MOEWRI	Ministry of Energy, Water Resources and Irrigation
NAMP	National Agriculture Modernization Program
PIMS	Project Implementation and Management Support
PAM	Project Administrative Manual
PIU	Project Implementation Units
PSC	project steering committee
RAMO	Rajapur Agriculture Management Office
RIMO	Rajapur Irrigation Management Office
WRIDDs	Water Resource and Irrigation Development Divisions
WUAs	Water Use Assosiations
WUCs	Water Use Co-operatives



3/9



Rajendra Prasad Mishra (Ph.D)  
Secretary



Hon. Dr. Madan Prasad Puriyar  
Minister

## INTRODUCTION

### 1.1 Current situation of irrigation and agriculture in Nepal

In Nepal, agriculture is a key economic sector that engages about 62% of the total population and account for about 24.09% of the gross domestic product (GDP). Out of Nepal's 29.16 million population, 20.23% or almost 6 million are Poor, of which 33.8% live in rural areas. The incidence of poverty is higher in rural areas (24.66%) than urban areas (18.34%). Agricultural and rural development has a great role to play in terms of economic development, poverty reduction and domestic disparity correction in Nepal. It is approximately 68% of the farmers in Nepal produced solely for domestic consumption, while 1.1%, 24.7% and 5.4% produced solely for sale, mainly for domestic consumption and some sale, and mainly for sale and some for the domestic consumption, respectively. The reveals that Nepalese agriculture is predominantly subsistence.

### 1.2 Background of the IMEP

The Irrigation Modernization Enhancement Project (IMEP) is aligned with Nepal's National Water Plan 2002–2027 which aims at increasing water use efficiency to provide year-round irrigation through modernization of FMIS and Agriculture Development Strategy 2015–2035 which promotes acceleration of agricultural intensification and diversification into high-value crops to achieve Nepal's over-arching goal of economic growth and poverty reduction, National Water Resources Policy 2021 promotes round the year irrigation, lift water to irrigate uplands, and institutional strengthening of concerned stakeholders. The project will support the implementation of the Second Nationally Determined Contribution particularly to increase access to climate-smart agriculture technologies to smallholder farmers and marginalized groups.<sup>3</sup> The project also aims at reducing rural poverty through empowering women farmers, ensuring water security and building climate resilience, and increasing food security and reduce rural poverty. It is also aligned with the Asian Development Bank (ADB) country partnership strategy for Nepal, 2020–2024,<sup>5</sup> ADB's Water Sector Directional Guide that aims for poverty reduction, gender equality, climate resilience, food security, and capacity building and ADB's increased focus on climate investments, and with operational priorities of ADB's Strategy 2030.

The Irrigation Modernization Enhancement Project (IMEP) is a six-year initiative (November 2024–October 2030) financed through ADB concessional loan assistance and implemented by the Government of Nepal through the Ministry of Energy, Water Resources and Irrigation (MoEWRI) and the Department of Water Resources and Irrigation (DWRI), and with the Ministry of Agriculture and Livestock Development (MoALD) and the Department of Agriculture (DoA).

The project aims to enhance the productivity, profitability, and climate resilience of farmer-managed irrigation systems across five provinces of Nepal. Key interventions include the modernization of the Rajapur Irrigation System and piloting of hill lift irrigation systems to irrigate dry upland areas (Tar) in Lumbini and Gandaki Provinces. IMEP integrates irrigation modernization with Integrated Crop and Water Management (ICWM) and institutionalizes climate-smart agriculture practices, benefiting approximately 56,000 farming households.

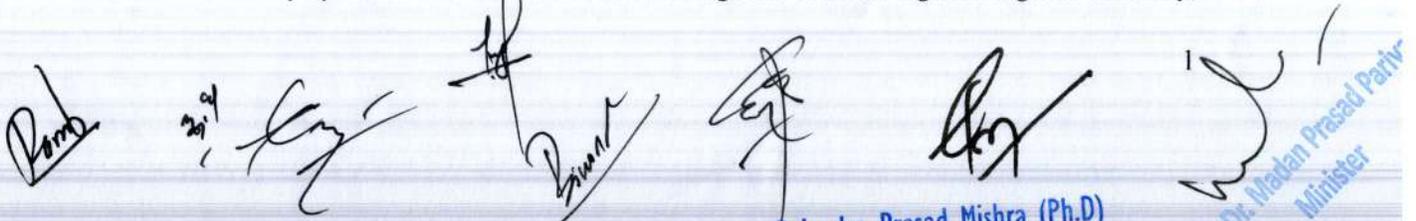
The total project cost is USD 133.64 million, financed through multiple sources: 63.60% by the Asian Development Bank (ADB), 22.45% by the Saudi Development Fund, 12.08% by the Government of Nepal, and 1.88% by project beneficiaries. The project cost is allocated across the following components (USD million):

- Irrigation and infrastructure modernization: USD 84.07 million
- Capacity building and institutional strengthening: USD 3.01 million
- Agriculture and value chain system development: USD 10.30 million
- Project management: USD 8.67 million
- Unallocated contingencies: USD 20.96 million
- Financial charges during implementation: USD 6.63 million

The project is structured around three key outputs, as summarized below.

#### Output 1: Irrigation infrastructure modernized

This output will modernize Farmer-Managed Irrigation System (FMIS) infrastructure in Bagmati, Koshi, Madhesh, and Lumbini Provinces to improve system performance, enhance service reliability, and increase resilience to climate change. The project will strengthen intake and conveyance systems by providing gated intake structures, riverbank and hill-slope protection works to reduce flood damage and sediment ingress. Irrigation efficiency,



Rajendra Prasad Mishra (Ph.D)  
Secretary

Hon. Dr. Madan Prasad Pariv  
Minister

stability, and equitable water distribution will be improved through selective canal lining, upgraded control and cross-drainage structures, and improved water regulation facilities.

On-farm irrigation efficiency will be enhanced through the rehabilitation of minor canals, expansion of piped water distribution systems, and introduction of improved field-level water management practices. In largely unirrigated mid-hill upland areas (Tar), the project will introduce hill lift irrigation schemes to expand irrigation coverage and support climate-resilient agriculture.

Under this output, the project will rehabilitate and upgrade approximately 33,000 hectares of surface water irrigation systems, including 66 hill irrigation schemes (5,889 ha) and 34 Terai irrigation schemes (11,563 ha) across Koshi, Madhesh, and Bagmati Provinces, and will modernize key infrastructure of the Rajapur Irrigation Project (RIP), covering 14,500 ha, in Lumbini Province.

In addition, the project will construct 12 new pilot hill lift irrigation schemes, covering approximately 1,400 hectares, using energy-efficient lifting technologies and high-efficiency piped irrigation systems in the mid-hill areas of Gandaki and Lumbini Provinces. Improved on-farm irrigation will be supported across all FMIS subprojects and the Rajapur Irrigation Project, while advanced on-farm irrigation technologies, including piped systems, micro-irrigation, and polyhouse-based production, will be promoted in hill lift irrigation subprojects.

To enhance water security and system resilience in the Terai, the project will pilot a community-based conjunctive groundwater use program at three selected FMIS locations, focusing on the electrification and improved management of farmers' and community tubewells.

**Output 2: Irrigation and agriculture agencies and farmer organizations strengthened**

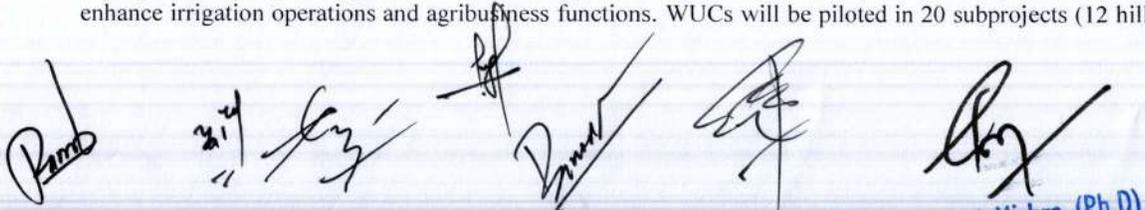
This output is designed to establish a robust management and institutional framework to ensure that project investments achieve their intended outcomes in irrigation efficiency, agricultural productivity, and long-term sustainability. The output will be implemented through a modernized and climate-responsive approach to Integrated Crop and Water Management (ICWM), incorporating climate change adaptation, sustainable operation and maintenance (O&M) of irrigation infrastructure, empowered farmer organizations, agribusiness development, strengthened market linkages, and improved access to rural finance. The output will strengthen the capacity of Water Resources and Irrigation Development Divisions (WRIDDs), Agriculture Knowledge Centers (AKCs)/Agriculture Development Offices (ADOs), and irrigation and agriculture units of local governments to effectively integrate irrigation management and agricultural development within the broader FMIS sector framework. Institutional coordination mechanisms and joint planning processes between irrigation and agriculture agencies will be enhanced to ensure coherent service delivery at the scheme and farm levels.

At the community and farm levels, the project will: (i) strengthen the institutional and technical capacity of Water Users Associations (WUAs) to improve system operation, maintenance, and equitable water distribution; and (ii) establish pilot Water User Cooperatives (WUCs) in selected irrigation systems with integrated irrigation management and agribusiness functions. These WUCs will be designed to maximize the benefits of irrigation investments by facilitating access to government subsidies and rural finance, supporting market chain development, promoting agro-enterprises, and strengthening linkages with private-sector agri-enterprises.

For hill lift irrigation schemes, WUCs will operate as community-based water utilities, applying metered water charging systems and collecting user fees to support full cost recovery of operating expenses, thereby improving financial sustainability and service reliability.

The output will also develop new national ICWM guidelines, covering irrigation design and modernization, water and crop management, extension and advisory services, climate change risk management, and institutional arrangements. In parallel, the project will prepare standardized training modules and a long-term roadmap for FMIS investment and management in Nepal. These guidelines and training materials will be used to support project implementation and will also serve as national resources for the wider training of irrigation and agriculture extension personnel across Nepal.

The program will strengthen devolved institutions, with a focus on WRIDDs, improve field-level irrigation management through strengthened WUAs, and pilot the establishment of Water User Cooperatives (WUCs) to enhance irrigation operations and agribusiness functions. WUCs will be piloted in 20 subprojects (12 hill lift, 3

  
Rajendra Prasad Mishra (Ph.D)  
Secretary  
2  
Hon. Dr. Madan Prasad Pant  
Minister

Terai FMIS, 2 hill FMIS, and 3 Rajapur schemes) and scaled up based on performance and farmer demand. WRIDDs will support WUC establishment and registration through local cooperative units; irrigation functions will be supported by WRIDDs/hill lift offices, and agribusiness functions by AKCs/ADOs. List of irrigation subprojects details in Appendix 1. Initial WUC management will include key WUA representatives.

The program will promote high-impact agricultural technologies and enterprise development, including crop planning through Farmer Field Schools, training and demonstrations on seed multiplication, green manuring, zero tillage, nature-based soil conservation, and consolidated farming, and identification of viable agribusiness opportunities. Mechanization and post-harvest infrastructure will be supported through demonstrations of agricultural machinery and establishment of collection centers, storage facilities, and polyhouses. Demonstration equipment will be assigned to WUAs/WUCs for farmer rental services. Proven models will be upscaled through cost-shared investments, with 50% beneficiary contribution for machinery and 15% for WUA/WUC facilities, prioritizing financially viable and self-sustaining investments.

The program will establish digital advisory services delivering weather, climate, market, and agricultural information through SMS, videos, apps, and social media, tailored to diverse farmer groups and stakeholders.

Agricultural activities will be implemented in ISP command areas in partnership with WUAs/WUCs and project beneficiaries. Strengthen Activities for Irrigation and Agriculture agencies and Farmers Organizations (WUAs and WUCs) under output 2 is detailed in appendix 5. Implementation will be led by AKCs/ADOs under the coordination of the DoAD, with technical support from PIMS Agriculture Specialists. The MoALD/DoA will provide policy guidance, oversight, monitoring, and quality assurance, and support alignment with national agricultural policies and programs.

### Output 3: Modern agriculture and value chain facilities introduced

The project will address key agricultural constraints, including low adoption of modern technologies, limited mechanization, and inadequate infrastructure, which hinder productivity, profitability, and resilience. Interventions will span upstream and downstream irrigation facilities to enhance value addition, efficiency, and market integration, while promoting climate-smart practices, improved seed systems, soil and water management, resource-efficient cropping, and resilient production technologies. Mechanization will be strengthened through modern farm machinery and training to improve labor productivity and ensure sustainable management. Downstream activities will support value addition and market-oriented development through collection centers, processing units, storage facilities, and efficient input-output systems. Digital advisory services will provide weather, climate, market, and extension information via mobile apps to support informed decision-making. The project will also facilitate access to finance for selected WUAs and WUCs, offering partial co-financing to acquire machinery and develop facilities, ensuring financial sustainability, cost recovery, and long-term subproject viability.

## 1.3 Project management and implementation arrangement

At the federal level, the executing agency will be the Ministry of Energy, Water Resources and Irrigation (MOEWRI). The implementing agencies will be the Department of Water Resources and Irrigation (DWRI) and the Department of Agriculture (DOA) under the Ministry of Agriculture and Livestock Development (MOALD). A Project Steering Committee (PSC), chaired by the Secretary of MOEWRI, will provide overall guidance. Two central-level Project Management Units (PMUs) will be established:

1. Central Project Management Office (CPMO) under DWRI, and
2. Central Agriculture Management Office (CAMO) under DOA.

At the provincial level, the implementing agencies will be the Directorate of Agriculture Development (DOAD) under provincial agriculture ministries (Koshi, Madhesh, Bagmati, Gandaki, and Lumbini) and the Physical Infrastructure Divisions of provincial ministries responsible for irrigation (Koshi, Madhesh, and Bagmati). A total of 76 Project Implementation Units (PIUs) will be established:

- Federal level (4 PIUs): HLIP, Irrigation Water Resources Management Project (IWRMP), Tanahu and the other managed by IWRMP, Butwal, DWRI; (for hill lift irrigation projects – HLIPs); Rajapur

Rajendra Prasad Mishra (Ph.D)  
Secretary

Min. Dr. Madan Prasad Puriyar  
Minister

Irrigation Management Office (RIMO); Rajapur Agriculture Management Office (RAMO) for the Rajapur Irrigation Project (RIP).

- Provincial level (72 PIUs): WRIDDs for FMIS implementation in Koshi, Madhesh, and Bagmati; AKC/ADOs for FMIS in Koshi, Madhesh, Bagmati, and for HLIPs in Gandaki and Lumbini.

The project will comply with Nepal's Federal System of Governance, with provinces primarily responsible for selecting, preparing, and implementing FMIS subprojects (except RIP and HLIP subprojects, which are federally managed). Federal offices will provide technical backstopping and management oversight, while overall project management will be led by IMEP-CPMO and CAMO.

#### 1.4 Role of CPMO:

The CPMO will render overall coordination and technical, management and financial support during project implementation. Specifically, the support refers to the following:

- Support in preparing project planning, and establish implementation, monitoring and evaluation mechanism.
- Support to: (a) RIMO in implementing the RIP; and (b) the PIUs in Tanahu and Butwal in implementing HLIP.
- Monitor and report on both physical and financial progress.
- Ensure satisfactory safeguards implementation as reflected in the environmental assessment and review framework including initial environmental examination and/or EMP preparation and supervision of EMP implementation.
- Maintain communication and coordination with provincial irrigation and agriculture ministries.
- Timely submission of quarterly progress report, semiannual (safeguard monitoring reports, annual project audit, and financial reports to ADB).

#### 1.5 The key project implementation organizations

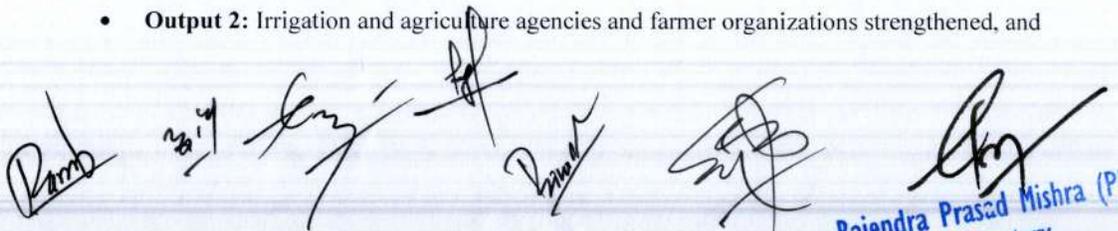
The key project implementation organizations are summarized as follows.

1. Project Steering Committee (PSC)
2. Central Project Management Office (CPMO) and Rajapur Irrigation Management Office (RIMO)
3. Water Resources and Irrigation Development Divisions (WRIDDs)
4. Department of Agriculture (Central Agriculture Management Office-CAMO) and Rajapur Agriculture Management Office (RAMO)
5. Provincial Agencies
  - Provincial Ministries (Irrigation and Agriculture)
  - Directorate of Agriculture Development
  - Agriculture Knowledge Center
6. Subproject Management Committees (SMC)
7. Local Municipal and Agriculture Unit at the Local Level (AULL)
8. Water Users Associations (WUAs) / Water User Cooperatives (WUCs)
9. Development partners (Asian Development Bank and Saudi Fund for Development)

#### 1.6 Objective and Structure of Guidelines

The objective of these Guidelines is to define the procedures, detailed arrangements, and roles and responsibilities of all project stakeholders for the effective implementation of the Irrigation Modernization Enhancement Project (IMEP), specifically to achieve:

- **Output 2:** Irrigation and agriculture agencies and farmer organizations strengthened, and

  
Rajendra Prasad Mishra (Ph.D)  
Secretary

4  
Hon. Dr. Madan Prasad Parajure  
Minister

- **Output 3:** Modern agriculture and value chain facilities introduced.

The broader objectives of the Guidelines are to:

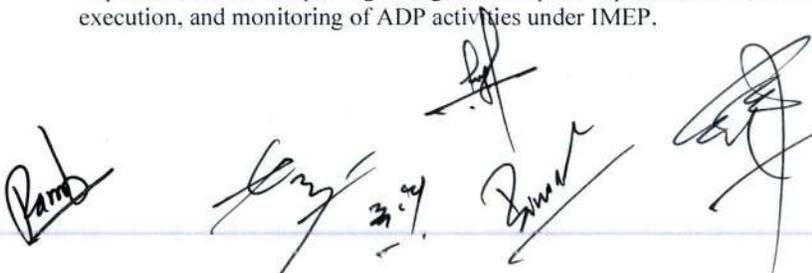
- a. Outline the procedures for achieving the project outputs as specified in the Project Administration Manual (PAM), in full compliance with Government of Nepal rules, regulations, and policies, without contradicting ADB regulations and procedures; and
- b. Cover the entire process, from planning, procurement, financing, and reimbursement to monitoring and evaluation, for Output 2, Output 3, and project management.

The structure of Guidelines provides a comprehensive framework for implementing the ADP under IMEP. They begin with an introduction outlining the current situation of irrigation and agriculture in Nepal, the background of IMEP, and the project management and implementation arrangements. This is followed by sections defining the objectives of the Guidelines and identifying the target users. The document clearly specifies the roles and responsibilities of stakeholders and provides step-by-step procedures for planning, procurement, financing, monitoring, and evaluation for Outputs 2 and 3, serving as a practical and flexible reference for all project stakeholders.

These Guidelines are intended as a living document, subject to revision and updating to reflect the evolving needs of the project and lessons learned during implementation. Any changes to the Guidelines will take effect upon approval by MoEWRI and MoALD.

## 1.7 Target Users of Guidelines

This guideline is prepared to support the implementation of the ADP in FMIS, Hill Lift Irrigation Schemes, and the Rajapur Irrigation Scheme. Its target users include federal, provincial, and local government officials, Water Users' Associations, cooperatives, development agencies, and other stakeholders involved in ADP implementation and reporting. The guidelines provide process and technical guidance to ensure effective planning, execution, and monitoring of ADP activities under IMEP.



Rajendra Prasad Mishra (Ph.D)  
Secretary

Non. Dr. Madan Prasad Pariyar  
Minister

## CENTRAL AGRICULTURE MANAGEMENT OFFICE IN DEPARTEMNT OF AGRICULTURE

### 1.8 Management and coordination through the Central Agriculture Management Office (CAMO) in DoA

The Department of Agriculture (DoA) serves as the national implementing agency, providing overall program management, technical leadership, and coordination of agriculture interventions under IMEP. The Central Project Management Unit (CPMU) within DoA acts as Central Agriculture Management Office (CAMO). CAMO functions as the operational arm, responsible for planning, budgeting, monitoring, and harmonizing ADP implementation across provinces. It coordinates with irrigation agencies, provincial directorates, AKC/ADOs/AULLs, and WUAs to ensure uniform standards, issue technical guidelines, consolidate reporting, and provide timely field-level support. This institutional arrangement ensures strong national oversight, efficient resource allocation, and integrated delivery of irrigation-agriculture services.

### 1.9 Management and coordination roles and responsibilities of DoA and CAMO

#### DoA

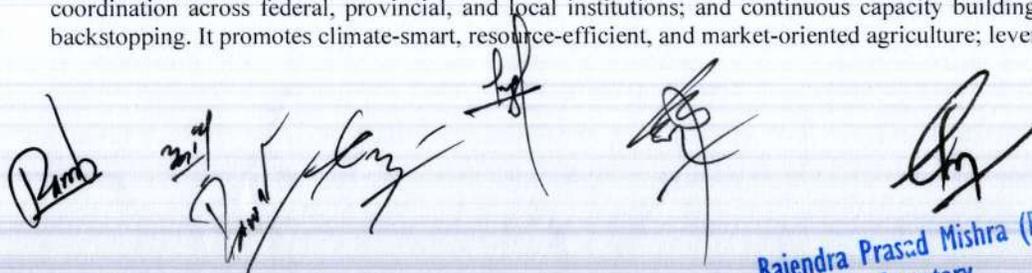
- Provide key liaison between the different agencies at federal and provincial levels related to agriculture and irrigation;
- Monitor overall progress and provide guidance to address constraints related to ADP implementation and ensure that the project targets are timely met;
- Participate in wrap-up of ADB's project review missions and ensure implementation of agreed actions;
- Ensure loan covenants related to agriculture are complied with;
- Provide decision support to policy matters related to project implementation;
- Give instruction to on-going relevant projects such as Prime Minister Agriculture Modernization Project, and ADB funded Nuts and Fruits in Hilly Area Projects, and Rural Enterprise Financing Project to collaborate with the project and explore areas of complementarity; and
- Ensure adequate and timely budgetary support for the project.

#### CAMO in DOA

- Support AKC/ADOs in planning, supervision, implementation, monitoring, and evaluation of the agricultural development plan and the integrated crop water management (ICWM) in all FMIS, and RAMO in RIP, and PIU Butwal and Gorkha in HLIP;
- Prepare and update detailed work plan and budget for agricultural development and ICWM components;
- Collate SOEs with supporting documents from AKC/ADOs/RAMO and forward to CPMO for preparing withdrawal applications;
- Training of DOA/Province/AULL staff in implementing modernized and climate smart agriculture development and ICWM components;
- Monitor, evaluate, and report on the effectiveness of agricultural development and ICWM components;
- Coordinate with federal, provincial, and local level offices in the implementation of agriculture development activities; and
- Prepare guidelines and manuals, knowledge products, and au-visuals on good practices established by the project.

### 1.10 Strategy for ADP implementation support in IMEP

The ADP implementation support strategy under IMEP emphasizes participatory, demand-driven planning; strong coordination across federal, provincial, and local institutions; and continuous capacity building and technical backstopping. It promotes climate-smart, resource-efficient, and market-oriented agriculture; leverages matching

  
Rajendra Prasad Mishra (Ph.D)  
Secretary  
6  
Hon. Dr. Madan Prasad Pokharel  
Minister

grants and private-sector services; ensures inclusive participation of women and disadvantaged groups; and applies a robust M&E and reporting framework to ensure quality, accountability, sustainability, and farmer-led ownership.

## 1.11 Approaches for ADP implementation support in IMEP

ADP implementation support under IMEP adopts a participatory, and results-oriented approach. It emphasizes coordinated action among federal, provincial, and local institutions; continuous capacity building and technical backstopping; and integration of irrigation and agriculture services. The following approaches are adopted for ADP implementation.

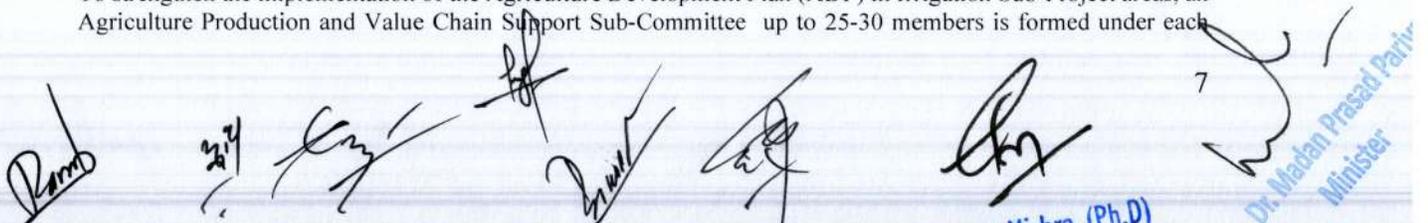
**Table 1: Approaches for ADP implementation support in IMEP**

Approaches	ADP Implementation Support
A. Participatory Extension Approach	- Monitoring, joint review, and continuous learning with concerned stakeholders to improve implementation and adoption.
B. Collective Learning Platform	- FFS and field-based training cum demonstrations function as collaborative learning platforms for farmer-to-farmer learning, skills transfer, and dissemination of improved technologies.
C. Climate Smart Agriculture (CSA)	- Sustainable increase in agricultural productivity. - Strengthening farmers' adaptive capacity and resilience to climate change.
D. Reducing Cost of Agricultural Production	- Optimize inputs for efficient use of fertilizers, water, and seeds. - Use improved seeds and high-yielding varieties. - Adopt mechanization and resource-efficient practices such as minimum tillage and mulching. - Implement integrated pest and nutrient management (IPM/IPNM). - Promote group-based input purchase and shared machinery services. - Improve post-harvest handling, grading, and storage to reduce losses. - Utilize timely market information to guide production decisions
E. Value chain Approach	- Establishment of processing, grading, and storage facilities. - Access to financial and insurance services. - Linkages with input suppliers and technology providers. - Improved market access
F. Upscaling of Demonstrations and Financial Support	- Expand field demonstrations to reach more farmers and locations. - Use demonstrations for farmer-to-farmer learning and technology adoption. - Provide financial support through grants, credit, and insurance to enable adoption. - Strengthening market linkages and access to inputs and technical services. - Monitor impacts to guide scaling and ensure sustainability.

## 1.12 ADP Implementation Arrangements under Irrigation Sub-Project Schemes

### 1.12.1 Structure and Functions of Sub-committees

To strengthen the implementation of the Agriculture Development Plan (ADP) in Irrigation Sub-Project areas, an Agriculture Production and Value Chain Support Sub-Committee up to 25-30 members is formed under each

  
 Rajendra Prasad Mishra (Ph.D)  
 Secretary  
 Hon. Dr. Madan Prasad Paudyal  
 Minister

Water Users Association (WUA). Composed of progressive leader farmers representing upstream, middle, and downstream reaches, the sub-committee bridges irrigation management and agricultural production, ensuring farmers' needs, capacities, and market opportunities are integrated into planning and decision-making.

Key functions include planning and coordinating market-oriented production; promoting climate-resilient, high-value crops; supporting collective procurement and efficient use of inputs; facilitating value addition and market linkages; enabling access to finance, subsidies, and technical support; conducting training, demonstrations, and exposure visits; promoting efficient irrigation, digital tools, and modern technologies; and fostering collective learning and informed decision-making.

### 1.12.2 Inclusive Representation and Equity

Inclusive representation ensures equity: 33% from head-reach, 33% from middle-reach, and 34% from tail-reach water users, including women and indigenous farmers. This structure promotes inclusive governance arrangement promotes balanced decision-making, strengthens social equity, and supports the sustainable and efficient implementation of the Agriculture Development Plan across all sections of the irrigation system.

## 1.13 Agriculture Management and Coordination Committee (AMCC)

To provide central-level coordination, policy guidance, and oversight for integrated ADP/IMEP implementation, an Agriculture Management and Coordination Committee (AMCC) will be established with the following members.

DG, Department of Agriculture	- Chairperson
DDG, CMPU, Department of Agriculture	- Member
Project Director, CPMO, IMEP	- Member
Director, Agriculture Development Directorate	- Member
Project Director, National Agriculture Modernization Program	- Member
Representative member, Department of Water Resource and Irrigation	- Member
Chief, Rajapur Agriculture Management Office	- Member
Senior Agriculture Officer, CAMO, DoA	- Member Secretary

Note: Respective province Ministry will nominate responsible organization/Institution in case of non-existence of any institution and other responsible personnel, along with the PIMS Consultant may be invited to the meeting

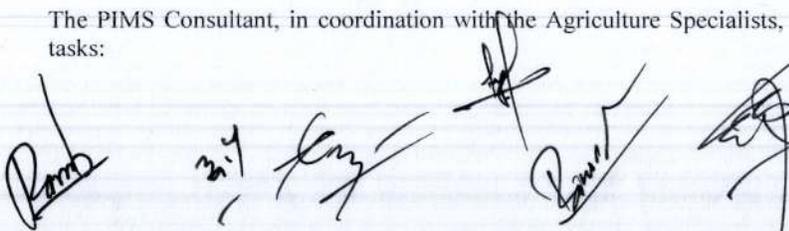
## 1.14 Role and responsibility of Agriculture Management and Coordination Committee (AMCC)

The AMCC is responsible for reviewing and updating national ADP implementation guidelines, ensuring effective cross-ministerial coordination, monitoring overall program progress, and addressing systemic and implementation bottlenecks. It harmonizes agriculture-irrigation interventions and ensures consolidated and timely reporting to the Ministry, CPMO, and development partner.

## 1.15 The PIMS Consultant and Agriculture Specialist

The Project Implementation and Management Support (PIMS) Team comprises a pool of specialists, including agriculturists, quality control/irrigation engineers, social safeguards, environmental, and procurement consultants deployed at the Federal, Provincial (Bagmati, Madhesh, and Koshi), Hill Lift Irrigation Project (HLIP – Tanahu and Butwal), and Rajapur Irrigation Project (RIP – Rajapur) levels. The team provides technical backstopping support in programme planning, implementation, monitoring, reporting, and evaluation of project activities. Specifically, the team of Agriculturists consists of six Agriculture Specialists deputed as follows: one at the Central level, three at the Provincial level, one at HLIP, and one at RIP.

The PIMS Consultant, in coordination with the Agriculture Specialists, shall be responsible for the following tasks:


- At the field level (i.e., ISP/FMIS, HLIP, and RIP), provide overall support for planning, implementation, monitoring, and evaluation, including information recording and reporting related to institutions and agricultural development programmes.
- At the Central level, provide overall coordination and technical support for the implementation of institutional strengthening and agricultural development programmes.
- Maintain close coordination with and work in supervision of Agriculture Project Manager at the Central Agriculture Management Office (CAMO) for the effective implementation of agricultural activities.
- Lead agriculture and institutional development programmes by supervising and providing technical guidance to Agriculture Specialists at the provincial and sub-project levels.
- Work in close coordination with the Digital Communications Specialist to support the establishment of digital advisory services and the development of communication materials.
- Coordinate closely with Water Resources and Irrigation Development Divisions (WRIDDs), Agriculture Knowledge Centers (AKCs), and HLIP offices to implement advanced agricultural technology demonstrations, beneficiary training programmes, and institutional development of devolved irrigation and agriculture units at the local level.
- Lead initiatives to strengthen field-level management, including capacity development of Water Users' Associations (WUAs) and the establishment of Water Users' Committees (WUCs) in hill lift irrigation schemes.
- Provide key technical support for the planning and implementation of Agricultural Development Plans (ADPs) at ISP/FMIS, HLIP, and RIP levels.
- Guide the planning and implementation of ADPs focused on crop diversification, commercialization, and market-oriented production to maximize on-farm income.
- Collect, analyze, and contribute data for monitoring and evaluation (M&E) of agricultural activities and recommend improvements as necessary.

*Ramb*

*2019*  
*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

Rajendra Prasad Mishra (Ph.D)  
Secretary

*[Signature]*  
Hon. Dr. Madan Prasad Pariyar  
Minister

## Provincial Agriculture Ministry and their Directorate of Agriculture Development

### 1.16 Coordination through provincial Agriculture Ministry and their Directorate of Agriculture Development

Under IMEP, the Provincial Ministry of Agriculture and its Directorate of Agriculture Development (DOAD) coordinate the integrated delivery of irrigation-linked agricultural services. The Ministry provides policy direction, approves provincial plans, and coordinates across relevant sectors, while the Directorate oversees day-to-day technical management by guiding AKCs, ADOs, and AULLs, harmonizing ADP activities, mobilizing extension staff, and facilitating collaboration with WUAs and local governments. This arrangement ensures consistent supervision, efficient use of resources, and unified implementation of irrigation-agriculture interventions across the province.

### 1.17 Management roles and responsibilities of implementing agency at provincial level

At the provincial level, the ministry and DoAD are responsible for:

- Providing management support to AKCs/ADOs for implementing the ADP and institutional development plans.
- Supporting AKCs/ADOs in executing activities under Outputs 2 and 3.
- Monitoring and evaluating project implementation progress across provincial project areas.
- Supporting provincial-level training events and capacity-building programs.
- Assisting AKCs/ADOs in preparing budget requests, benefit monitoring reports, progress updates, and statements of expenditures for submission to CAMO for reimbursement.
- Coordinating with the provincial irrigation ministry on project implementation.
- Collaborating with CAMO to design and track progress on climate-smart agriculture under the ADP.
- Promoting mechanization, digital communication, and agri-enterprise development within subprojects.

### 1.18 Provincial ADP Implementation and Coordination Committee (PAICC)

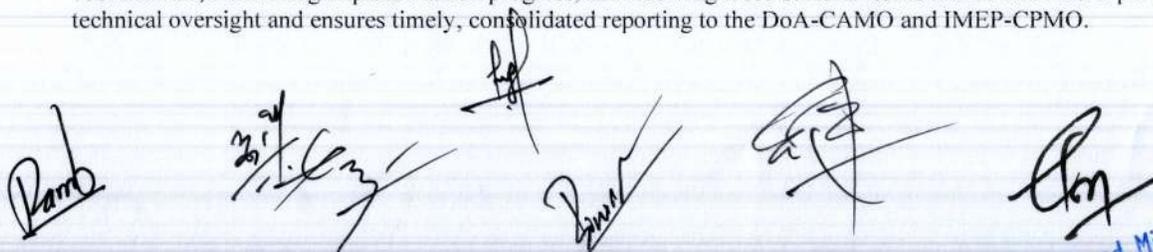
To coordinate and guide provincial-level ADP implementation, ensuring alignment with sectoral policies and the IMEP framework, a Provincial ADP Implementation and Coordination Committee (PAICC) will be established with the following members.

Secretary, Agriculture related Ministry of Province	- Chairperson
Director, Directorate of Agriculture Development	- Member
Division Chief, Irrigation related Ministry of Province	- Member
Senior Agriculture Officer, PIU, National Agriculture Modernization Program	- Member
Chairperson WUA	- Member
Focal Desk Officer, IMEP, Directorate of Agriculture Development	- Member Secretary

Note: - In the absence of a Directorate of Agriculture Development, the respective Provincial Ministry shall nominate the responsible organization/institution. Other responsible personnel, along with the PIMS Consultant available at the provincial level, may be invited to the meeting.

### 1.19 Role and responsibility of Provincial ADP Implementation and Coordination Committee (PAICC)

The PAICC is responsible for reviewing and endorsing provincial ADP plans, ensuring effective inter-agency coordination, monitoring implementation progress, and resolving cross-sectoral issues and bottlenecks. It provides technical oversight and ensures timely, consolidated reporting to the DoA-CAMO and IMEP-CPMO.



10

Rajendra Prasad Mishra (Ph.D)  
Secretary

Hon. Dr. Jitendra Prasad Pariyar  
Minister

## ADP UNDER FARMER MANAGED IRRIGATION SCHEME (FMIS)

### 1.20 Concept of ADP under FMIS

The Agriculture Development Plan (ADP) in Farmer-Managed Irrigation Systems (FMIS) consists of a structured set of agricultural support interventions designed to complement irrigation improvements and enhance farm-level productivity, income, and sustainability. FMIS emphasizes community-led operation and management of irrigation systems, while the ADP ensures that improved and reliable water delivery translates into tangible agricultural outcomes, including higher yields, crop diversification, efficient use of inputs, and increased market orientation. Project support for ADP implementation is detailed in Appendix 8.

### 1.21 Objectives of ADP

ADP is included under FMIS projects to ensure that irrigation modernization or rehabilitation is linked with:

- i) Improved crop productivity
- ii) Adoption of climate-smart and efficient technologies
- iii) Diversification and value-chain strengthening
- iv) Enhanced water-use efficiency
- v) Improved farmer capacity and institutional strengthening
- vi) Market linkages and commercialization

### 1.22 Results and outputs

FMIS places strong emphasis on community-led water management; however, irrigation improvements alone do not automatically result in higher agricultural productivity or farm income. Without integrated ADP support, gains in water availability may not translate into economic outcomes.

ADP under FMIS ensures that:

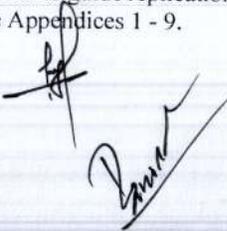
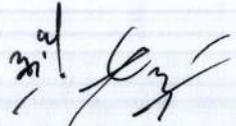
- Farmers apply water efficiently through improved agronomic and irrigation practices
- Cropping patterns align with water availability and market demand
- WUA institutions are strengthened to manage both water and complementary agricultural services
- Climate resilience and environmental sustainability are enhanced

As a result, ADP is expected to deliver the following key outputs and outcomes:

- Increase in crop productivity
- Reduced water use per unit of output through efficient water management
- Diversification toward high-value and market-oriented crops
- Stronger WUA governance and institutional capacity
- Improved market access and increased farm income
- Enhanced community ownership and long-term sustainability of FMIS

### 1.23 Implementation process and procedure

ADP implementation under FMIS at the field level is carried out by AKCs/ADOs-PIUs through a structured process to ensure effective planning, coordination, and monitoring. The unit works closely with provincial and local governments and WUAs to support smooth execution of activities. It provides continuous capacity building, technical backstopping, and field support to farmers, facilitators, and staff. Field-level interventions include promoting climate-smart practices, facilitating collective learning, and supporting value chain activities, backed by financial mechanisms such as matching grants, subsidies, and access to credit and insurance. Progress is tracked through structured M&E systems, regular field visits, and reporting, ensuring quality, accountability, and farmer-led ownership. Lessons learned are documented to guide replication and upscaling across other schemes. Detailed activity-wise procedures are provided in the Appendices 1 - 9.



Rajendra Prasad Mishra (Ph.D)  
Secretary

Hon. Dr. Madan Prasad Paritkar  
Minister

## 1.24 Staffing of the AKC/ADO-PIU

AKC/ADO-PIUs are staffed with technical, administrative, and support personnel to ensure effective implementation of ADP activities at the field level. The principal positions within each PIU are outlined in Table 2 below:

**Table 2. Project Implementation Unit (PIU) staffing**

S.N.	Position	Position per PIU	Remarks
1	Office Chief (Senior Agriculture Officer), AKC/ADO	1	Managed by AKC/ADO
2	Agriculture Officer (IMEP Desk Focal Person)	1	
3	Support Staffs (Administration, Computer, Driver & Office Assistant)	4	

This staffing structure ensures adequate technical leadership, coordination, and administrative support for smooth ADP implementation at the field level.

## 1.25 Management roles and responsibilities of AKC/ADO- PIU

The AKC/ADO-PIU is responsible for:

- Planning and implementing the ADP in subprojects in collaboration with farmers, WUAs--Agriculture Production and Value chain Support sub-committee, and WUCs.
- Providing training and capacity building to leader farmers and AULL staff.
- Selecting and procuring equipment for demonstrating modern agricultural practices and technologies.
- Implementing climate-smart activities through training and demonstrations.
- Supporting the establishment and capacity building of WUCs in pilot subprojects for agribusiness development.
- Planning and coordinating with WUAs-Agriculture Production and Value chain Support sub-committee for upscaling Integrated Crop and Water Management (ICWM) practices.
- Implementing the ADP upscaling program across subprojects.
- Maintaining project accounts separately and submitting monthly statements of expenditures to CAMO with all supporting documents.

## 1.26 ADP Implementation Support Committee (AIC)

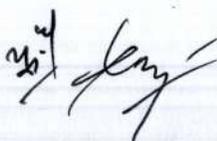
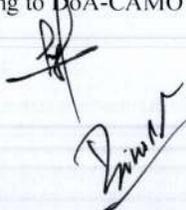
To Provide coordination, guidance, and oversight for ADP implementation under FMIS; ADP Implementation Committee with following members will be formed.

Chief, Agriculture Knowledge Center/Agriculture Development Office	- Chairperson
Representative member, Water Resources & Irrigation Development Division	- Member
Representative member, PIU, NAMP	- Member
Chief, AULL (Related Municipal)	- Member
Chairperson, WUA	- Member
Coordinator, Agriculture Production and Value chain Support Sub-committee	- Member
Focal Desk Officer, IMEP, AKC/ADO	- Member Secretary

The responsible personnel, along with the PIMS Consultant available at the PIU level, may be invited to the meeting.

## 1.27 Role and responsibility of ADP Implementation Committee (AIC)

The ADP Implementation Committee (AIC) is responsible for reviewing ADP plans of action, ensuring alignment with IMEP frameworks, and coordinating among agriculture, irrigation, and WUA stakeholders. The committee monitors implementation progress, addresses operational issues and grievances, makes necessary operational decisions, and ensures timely reporting to DoA-CAMO and IMEP-CPMO.


12  
Rajendra Prasad Mishra (Ph.D)  
Secretary

Minister

## ADP UNDER HILL LIFT IRRIGATION SCHEME (HLIS)

### 1.28 General

Two Hill Lift Irrigation Schemes: located one in Tanahu and managed by IWRMP, Tanahu and the other in Butwal managed by IWRMP Butwal, Department of Water Resources and Irrigation (DWRI).

### 1.29 Concept of ADP under Hill Lift Irrigation Scheme

The Agriculture Development Program (ADP) under the Hill Lift Irrigation Scheme (HLIS) comprises a structured set of agricultural support activities designed to complement irrigation improvements and enhance farm productivity, income, and sustainability in hilly areas.

HLIS focuses on lifting water to higher-altitude farms, requiring coordinated management of both water and agriculture interventions. ADP is integrated within HLIS to ensure that improved water availability translates into tangible agricultural outcomes, including increased crop yields, diversification toward high-value crops, efficient input use, and market-oriented production. This integration also strengthens community management, promotes climate-smart practices, and supports long-term sustainability of irrigation-linked agriculture in hill farming systems.

### 1.30 Objectives of ADP under Hill Lift Irrigation Scheme

The ADP under Hill Lift Irrigation Schemes aims to:

- Increase productivity and cropping intensity by promoting reliable lift irrigation and adoption of high-value, climate-resilient crops.
- Ensure sustainable water use through strengthened WUA capacity for equitable distribution, operation and maintenance, and water-saving practices.
- Enhance farm incomes and market orientation by improving extension services, production practices, and access to inputs and markets.

### 1.31 Staffing of the AKC/ADO- Project Implementation Units (Hill Lift Irrigation Scheme)

AKC/ADO-PIUs are staffed with technical, administrative, and support personnel to ensure effective implementation of ADP activities at the field level. The principal positions within each PIU are outlined in Table 3 below:

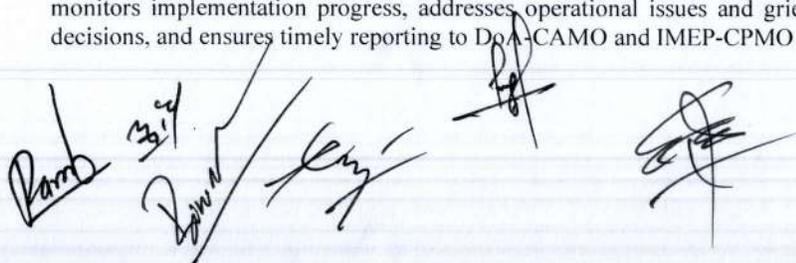
**Table 3. Project Implementation Unit (PIU) Staffing**

S. N.	Postion	Staff per PIU	Remarks
1	Office Chief (Senior Agriculture Officer)	1	Managed by AKC/ADO
2	Agriculture Officer (IMEP Desk Focal Person)	1	
3	Support Staffs (Administration, Computer, Driver & Office Assistant)	4	

This staffing structure ensures adequate technical leadership, coordination, and administrative support for smooth implementation of ADP activities under Hill Lift Irrigation Schemes.

### 1.32 Management roles and responsibilities of AKC/ADO-Project Implementation Units (Hill Lift Irrigation Scheme)

The ADP Implementation Committee (AIC) is responsible for reviewing ADP plans of action, ensuring alignment with IMEP frameworks, and coordinating among agriculture, irrigation, and WUA stakeholders. The committee monitors implementation progress, addresses operational issues and grievances, makes necessary operational decisions, and ensures timely reporting to DoW-CAMO and IMEP-CPMO



13  
 Rajendra Prasad Mishra (Ph.D)  
 Secretary  
 Hon. Dr. Mahesh Prasad Koirala  
 Minister

### 1.33 ADP Implementation Committee (AIC)- Hill Lift Irrigation Scheme

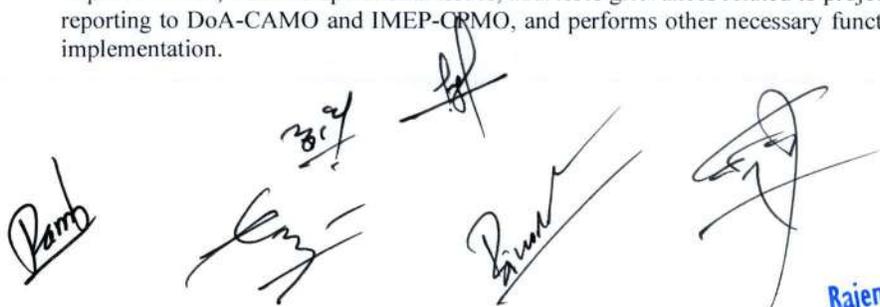
To Provide coordination, guidance, and oversight for ADP implementation under Hill Lift Irrigation scheme; an ADP Implementation Committee with following members will be formed.

Chief, Agriculture Knowledge Center/Agriculture Development Office	- Chairperson
Representative IWRMP, Hill lift irrigation office	- Member
Representative member, Water Resources & Irrigation Development Division	- Member
Representative member, PIU, NAMP	-Member
Chief, AULL (Concerned municipal)	- Member
Chairperson WUA	- Member
Focal Desk Officer, IMEP, AKC/ADO	- Member Secretary

The responsible personnel and the available PIMS Consultant at the PIU level may be invited to the meeting.

### 1.34 Role and responsibility of ADP Implementation Committee (AIC)

The ADP Implementation Committee (AIC) is responsible for reviewing ADP plans of action, ensuring technical and institutional alignment with IMEP, and coordinating among relevant stakeholders. It monitors field-level implementation, resolves operational issues, addresses grievances related to project interventions, ensures timely reporting to DoA-CAMO and IMEP-CRMO, and performs other necessary functions to support effective ADP implementation.

  
**Rajendra Prasad Mishra (Ph.D)**  
 Secretary


  
**Hon. Dr. Madan Prasad Panjyar**  
 Minister

## ADP UNDER RAJAPUR IRRIGATION SCHEME

### 1.35 Concept of Rajapur Agriculture Management Office

The Rajapur Agriculture Management Office (RAMO) is established to ensure that irrigation improvement translates into tangible agricultural and livelihood outcomes. RAMO is responsible for planning, coordinating, and implementing agricultural development interventions in the Rajapur Irrigation Scheme command area. Its functions include promoting climate-resilient and modern farming practices, supporting crop diversification, strengthening farmer capacity through training and extension services, facilitating access to inputs and markets, and fostering agri-enterprises. RAMO serves as a bridge between irrigation infrastructure and enhanced farm productivity, ensuring improved water availability leads to sustainable agricultural growth, higher farmer incomes, and overall rural development.

### 1.36 ADP in Rajapur Irrigation Scheme

The ADP in Rajapur focuses on leveraging reliable canal irrigation to transition farmers from traditional subsistence practices to diversified, high-value, and market-oriented agriculture. It integrates improved crop planning, climate-smart technologies, and strengthened WUA capacity to ensure efficient water use, higher productivity, and sustainable agricultural intensification.

### 1.37 Objectives of ADP Under Rajapur Irrigation Scheme

The ADP under Rajapur Irrigation Scheme aims to:

- Increase productivity and cropping intensity by fully utilizing year-round irrigation for diversified, climate-resilient, and high-value crops.
- Promote efficient and sustainable water management through strengthened WUA capacity, equitable water allocation, and improved operation and maintenance of canal systems.
- Enhance farm incomes and market linkages by improving production practices, supporting value chains, and expanding access to inputs, services, and markets.

### 1.38 Staffing of the Rajapur Agriculture Management Office

The Rajapur Agriculture Management Office is staffed with technical, administrative, and support personnel to ensure effective implementation of ADP activities in the command area. The key positions include:

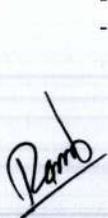
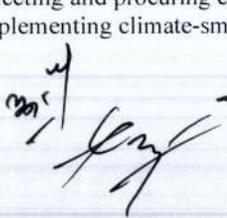
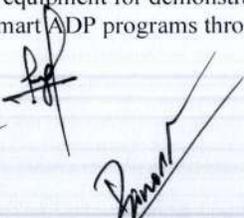
**Table 4. Staffing of the Rajapur Agriculture Management Office**

S.N.	Postion	Level	Total Staffs	Remarks
1	Project Coordinator (Senior Agriculture Officer)	Gaztted II	1	
2	Agriculture Officer	Gaztted III	2	
3	Junior Technician	Non-Gaztted I	1	
4	Accountant	Non-Gaztted I	1	
5	Support Staffs (Administration, Computer, Driver & Office Assistant)	Non-Gaztted I and Non-Level	4	

### 1.39 Management Roles and Responsibilities of RAMO-Project Implementation Units (Rajapur Irrigation Scheme)

The RAMO is responsible for:

- Planning and implementing the ADP in collaboration with farmers, WUAs, and WUCs.
- Providing training and capacity building to farmers and AULL staff.
- Selecting and procuring equipment for demonstrating modern agricultural practices and technologies.
- Implementing climate-smart ADP programs through training and demonstrations.



Rajendra Prasad Mishra (Ph.D)  
Secretary

15  
Hon. Dr. Mahesh Prasad Pantyay  
Minister

- Supporting the establishment and capacity building of WUCs in pilot subprojects for agribusiness development.
- Ensuring integration of irrigation and agriculture activities through collaboration with WUAs/WUCs.
- Planning and coordinating with WUAs for upscaling Integrated Crop and Water Management (ICWM).
- Implementing the ADP upscaling program across subprojects.
- Maintaining project accounts separately and submitting monthly statements of expenditures to CAMO with all supporting documents.

### 1.40 ADP Implementation Committee (AIC)

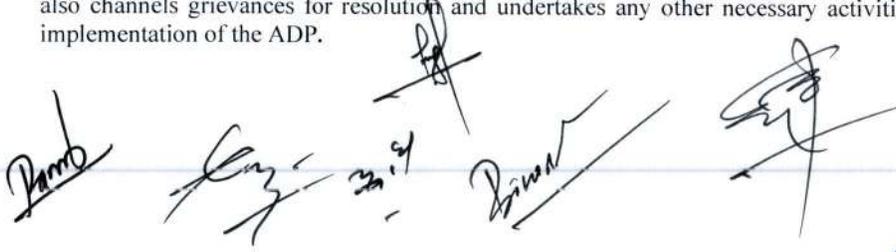
To Provide oversight, coordination, and guidance for ADP implementation within RAMO; aADP Implementation Committee with following members will be formed.

- |   |                    |
|---|--------------------|
| Chief, Rajapur Agriculture Management Office                | - Chairperson      |
| Representative member, Rajapur Irrigation Management Office | - Member           |
| Representative member, PIU, NAMP                            | - Member           |
| Representative AKC/ ADO                                     | - Member           |
| Chief, AULL   | - Member           |
| Chairperson WUA   | - Member           |
| Agriculture Officer, RAMO                                   | - Member Secretary |

The responsible personnel, along with the PIMS Consultant available at the RAMO level, may be invited to the meeting.

#### Role and Responsibility of ADP Implementation Committee (AIC)

The ADP Implementation Committee (AIC) is responsible for reviewing and supporting ADP actions to ensure alignment with IMEP objectives. It facilitates coordination among stakeholders, monitors implementation progress, addresses operational and technical issues, and ensures timely reporting to DoA-CAMO. The Committee also channels grievances for resolution and undertakes any other necessary activities to support the effective implementation of the ADP.



Rajendra Prasad Mishra (Ph.D)  
Secretary

Hon. Dr. Madan Prasad Periyer  
Minister

## ADP MANAGEMENT

### 1.41 Concept of ADP management

Effective implementation of the Agricultural Development Plan (ADP) under the Irrigation Modernization and enhancement Project (IMEP) relies on disciplined planning, timely resource deployment, and strict adherence to the approved implementation plan. Strong management and administrative oversight are critical to ensuring that activities are completed on schedule and that the sustainable development of agriculture and irrigation systems is achieved.

### 1.42 Integrated Crop and Water Management (ICWM) program under IMEP

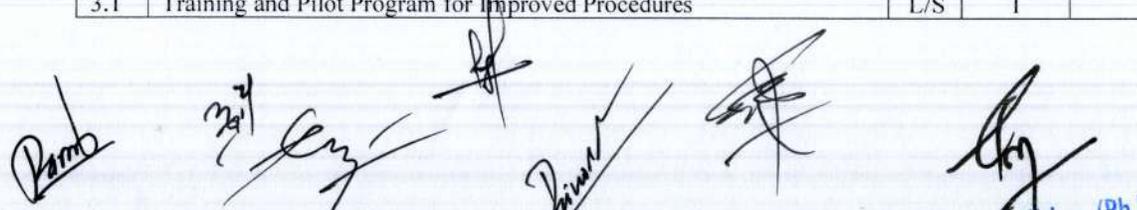
The Integrated Crop and Water Management (ICWM) fall under Output 2 of IMEP. It consists of three major components: (1) Infrastructure development, (2) Institutional development, and (3) Agricultural development through conducting on-farm modern agricultural technologies demonstrations and training in a participatory approach. Components 1 and 2 will be accomplished under Output 2 by WRIDDs with support from PIMS consultants while Component 3 *ie.* agriculture development activities *i.e.* advanced agricultural technologies demonstrations and beneficiaries training on-farm will be commensurate with completion of the above two activities. Agricultural activities with assured and judicious use of irrigation water will be conducted as per the activities *ie.* Technological demonstration and training defined under Output 3 of the project through AKCs. The ICWM manual 2021 will be revised by the team of WRIDDs and the project consultants and accordingly its activities under IMEP will be superimposed for implementation.

The program will implement ICWM approach incorporating climate change; sustainable O & M of the irrigation infrastructure, crop planning based on farm size and availability of water, empowered farmers organizations, supports the farmers towards establishing Agri-enterprises, support in market chain and access to finance. Further implementation details will be further worked out with completion of its infrastructural development activities. The ICWM approach and activities related to Output 3 to be implemented on-farm are illustrated in the Appendix 10.

The detailed work plan and key ADP management activities are presented in the following tables:

**Table 5. Detail Work Plan (Output 2)**

S.N.	Activity	Unit	Number	Remarks
1	<b>STRENGTHENING OF IRRIGATION AND AGRICULTURE AGENCIES</b>			
a.	Project Launching/Briefing and Progress Review Workshop			
1	Federal Level Staffs (1 day every year)	No.	6	
2	Province/Local Level Staffs (1 day every year)	No	30	
b.	Training			
1	Irrigation and Agriculture Programs for Federal Level Technical Staffs (3 days every year)	No	6	
2	Project Administration & Accounting Training for Admin & Account Staffs of Federation/Province (3 days)	No	6	
3	Irrigation Development Programs under for Province/Local Level Staffs (3 days every year)	No	36	
4	Agriculture Development Programs for Province/Local Level Staffs (3 days every year)	No	36	
5	Supporting Integrated River Management in Lower Karnali Basin	No	3	
c	Strengthening of Devolved Irrigation and Agriculture Agencies	L/S	1	
2	<b>MODERNIZATION OF IRRIGATION AND AGRICULTURE MANAGEMENT AT FIELD LEVEL</b>			
2.1	Strengthening Existing WUA -	No	127	
2.2	Establish New Water User Cooperative (20 pilot subprojects)	No	20	
2.3	Upscaling of New Water User Cooperatives (100 subprojects)	No	107	
2.4	Training and support for Sustainable ICWM	No	127	
3	<b>ENHANCED ACCESS TO RURAL FINANCE</b>			
3.1	Training and Pilot Program for Improved Procedures	L/S	1	


  
 17  
 Rajendra Prasad Mishra (Ph.D)  
 Secretary  
 Hon. Dr. Madan Prasad Puriyar  
 Minister

**Table 6. Detail Work Plan (Output 3)**

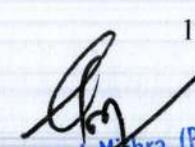
S.No.	Activity	Unit	Rajapur	FMIS-Hill	FMIS-Terai	Hill Lift	Total	Remarks
<b>3.1</b>	<b>ADP IDP BRIEFING MEETING WITH COMMUNITY AND FARMERS</b>							
	a. Community Briefing Meeting about ISP Activities (1 day/ISP)	No.	45.0	66.0	102	36	249	
	b. ADP IDP Briefing Meeting to Leader Farmers (1 day)	No.	45.0	66.0	102	36	249	
<b>3.2</b>	<b>AGRICULTURE TECHNOLOGIES AND ENTERPRISE DEVELOPMENT</b>							
a.	Cropping Pattern Demonstration (in FFS Mode)							
1	Climate Resilient & Productive Cropping Pattern FFS (FFS in 3 seasons in one year/ISP)	No.	45	192	108	36	381	
2	Orientation Training for FFS Facilitators (2 days)	No.	15	22	34	12	83	Implementati on steps for typical Farmer Field School (FFS) under ISP is detailed in Appendix 7.
3	Orientation Training on Cropping Pattern FFS for Leader Farmers (1 day)	No.	9	24	33	2	68	
4	Training on Crop Management for Leader Farmers (2 days)	No.	9	24	33	2	68	
5	Training on Integrated Pest Management for Leader Farmers (2 days)	No.	9	24	33	2	68	
6	Training on Crop Water Management for Leader Farmers (1 day)	No.	9	24	33	2	68	
7	Training on Post-harvest Management & Marketing of Agro-products for Leader Farmers (2 day2)	No.	9	24	33	2	68	
h.	Seed Multiplication Business							
1	Seed Multiplication Business Demonstration on paddy (3 ha/ISP)	ha	45	132	102	24.0	303	
2	Seed Multiplication Business Training for Leader Farmers (3 days)	No.	9	24	33	2.0	68	
3	Training on Seed Growing & Post-harvest Management for Leader Farmers (3 days)	No.	9	24	33	2.0	68	
4	Training on Price Negotiation and Marketing of Seed for Leader Farmers (1 days)	No.	9	24	33	2.0	68	
c.	Green Manuring							
1	Green Manuring Demonstrations (0.5 ha/ISP)	No.	15	-	34	-	49	

  
 18  
 Rajendra Prasad Mishra (Ph.D)  
 Secretary

Hon. Dr. Mahendra Prasad Puri  
 Minister

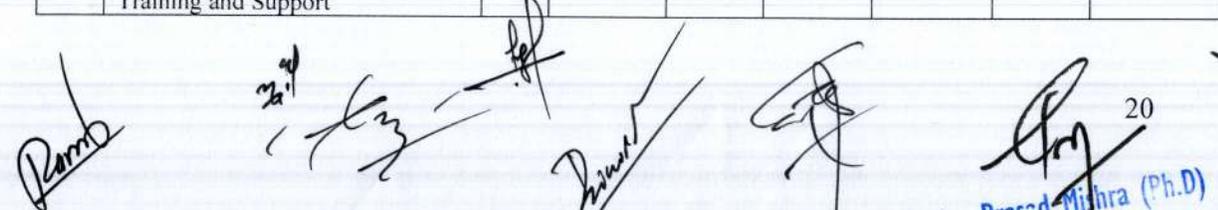
2	Training on Green Manuring Crop Cultivation for Leader Farmers (1 day)	No.	3		11		14	
d.	Minimum Tillage							
1	Minimum Tillage Demonstrations (0.5 ha/ISP in wheat)	No.	15		34		49	
2	Training on Minimum Tillage and Benefits for Leader Farmers (1 day)	No.	3		11		14	
e.	Plastic Mulch Demonstrations							
1	Plastic Mulch Demonstrations (0.25 ha/ISP)	ha	3.8	16.5	8.5	3.0	31.8	
2	Training on Plastic Mulching and Benefits for Leader Farmers (1 day)	No.	9	24	33	2	68	
f	Nature Based Protection (bamboo/vetiver)		~~~~~ ~					Site Selection Reporting Format for Production Demonstration is detailed in Appendix 4.
1	Nature Based Protection (bamboo/vetiver)	No.	4	12	15	1	32	
2	Training on Site Selection & Planting Bamboo/Vetiver for Leader Farmers (1 day)	No.	9	24	33	2	68	
g.	Biogas Awareness Campaign							Agriculture Support Activities under OUTPUT 3 is detailed in Appendix 6.
1	Biogas Awareness Campaign	No.	14		34		48	
2	Training on Biogas Operation and Management for Leader Farmers (1 day)	No.	3		11		14	
h	Soil Testing							
1	Soil Testing (30 samples/ISP focusing on seed production pockets)	Sample	450	1320	1020	240	3030	
2	Training on Soil Sampling Technique for AKC/ADO and AULL Staffs (1 day)	No.	9	24	33	2	68	
3	Training on Soil Sampling Technique for Leader Farmers (1 day)	No.	9	24	33	2	68	
i.	Crop Cutting							
1	Crop Cutting (Paddy, Wheat, Maize in the 1st & last year of project)	No.	90	396	204	72	762	
2	Training on Sample Crop Cutting for AKC/ADO & AULL Staffs (1 day)	No.	9	24	33	2	68	
3	Training on Sample Crop Cutting for Leader Farmers (1 day)	No.	9	24	33	2	68	
k.	Opportunities for Consolidated Farming							
1	Introduction Opportunities for Consolidated Farming	AKC/A DO	3		11	2	16	
2	Training on Documents and Maps Gathering & Analysis for AKC/ADO, AULL & WUC Staffs (2 days)	No.	3		11	2	16	
3	Training on Field Inventory and Record Keeping of Land for AKC/ADO, AULL & WUC Staffs (3 days)	No.	3		11	2	16	Cost sharing of different major activities of the Project is

19

  
 Rajendra Prasad Mishra (Ph.D)  
 Secretary

  
 Hon. Dr. Madan Prasad Pant  
 Minister

4	Training on Planning of Infrastructures for AKC/ADO, AULL & WUC Staffs (6 days)	No.	3		11	2	16	detailed in Appendix 9.
5	Training on Standards for Valuation of Land for Redistribution for AKC/ADO, AULL & WUC Staffs (3 days)	No.	3		11	2	16	
6	Surveys for participating farmers	No.	25		75	10	110	
1.	Support for enterprise development (1 day)	AKC/ADO	15.0	20.0	72.0	36.0	143	
<b>3.3 DEMONSTRATIONS AND TRAINING FOR MACHINERY AND FACILITIES</b>								
a.	Agriculture Machinery and Equipment							
1	Agricultural Machinery Demonstrations (in 3 seasons/AKC/ADO for 2 crop years)	No.	45	192	108	36	381	
2	Agricultural Machinery Training for AKC/ADO & WUC Staffs (1 day)	No.	9	24	33	2	68	
3	Agricultural Machinery Training for Leader Farmers (1 day)	No.	9	24	33	2	68	
4	Custom Hiring Center Training for WUC (3 days)	No.	9	24	33	2	68	
5	Modernization of Agriculture Collection Center Training for Operators (3 days)	No.	9	24	33	2	68	
b.	Training and Support for Agriculture Facilities							
1	Training on Modernization of Agriculture Collection Center for AKC/ADO, AULL & WUC Staffs (3 days)	No.	9	24	33	2	68	
2	Training on Management of Agriculture Collection Center for AKC/ADO, AULL & WUC Staffs (3 days)	No.	9	24	33	2	68	
3	Training on Post-harvest Management & Marketing of Agro-products for AKC/ADO, AULL & WUC Staffs (3 days)	No.	9	24	33	2	68	
4	Polyhouse Demonstration (10 m x 6 m)	No.				36	36	
5	Polyhouse Farming & Micro-irrigation Training for AKC/ADO and AULL Staffs (3 days)	No.				2	2	
6	Polyhouse Farming & Micro-irrigation Training for Leader Farmers (3 days)	No.				12	12	
7	Polyhouse Training on Crop & Water Management & Marketing for Leader Farmers (2 days)	No.		24		2	26	
8	Other Agriculture Facilities Training and Support	No.	9	24	33	12	78	

  
 20  
 Rajendra Prasad Mishra (Ph.D)  
 Secretary

Hon. Dr. Madan Prasad Puri  
 Minister

3.4 PROCUREMENT OF AGRICULTURE FACILITIES (UPSCALING) (85% project 15% beneficiaries)								
a.	Procurement of Polyhouses for Demonstrations (100% financing)	ha						
b.	Upscaling of Polyhouses through Partial Investment Subsidies (85%@15%)	ha				0.50	0.50	
c.	Construction/rehabilitation of WUA/WUC Facilities including equipment through partial investment subsidies (85% project-wua/wuc cofinancing)		0.35	0.25	0.30	0.10	1.00	
3.5 DEVELOPING DIGITAL ADVISORY SERVICES								
1	Support for initial operational costs	Ls	1				1	
2	Preparation of auDWRI-visual training material	Ls	1				1	

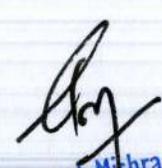
**Table 7. ADP Management Activities**

S.N.	Activity	Implementing Agency
1.	Intutional Development Support	CPMO-IMEP
2.	Establishment of CAMO in DoA Office Complex Building	CAMO- DOA
3.	Establishment of RAMO in Rajapur Irrigation Scheme	CAMO- DOA
4.	Establishment of Provincial IMEP-ADP implementation and Coordination Desk in DoAD Office Complex Building.	DoAD, Provinces
5.	Establishment of ADP-PIU in AKC/ADO/Agriculture Office Complex Building.	AKC/ADO
6.	Establishment of IMEP Implementation Support Focal Unit at AULL	AULL/Local Level
7.	ADP Technical Advisory Support	CPMO/CAMO
8.	ADP Monitoring and Evaluation Mechanism	CPMO-IMEP CAMO- DOA
9.	ADP Implementation Reporting	DoAD, AKC/ADO and CAMO- DOA
10.	Preparation, Publication and distribution of Training MannualTechnical Brochure/Leaflet	CPMO-IMEP CAMO- DOA
11.	Preparation, Approval and Publication Training curriculum	CPMO-IMEP CAMO- DOA
12.	Preparation, publication and distribution of Training Manual	CPMO-IMEP CAMO- DOA
13.	Preparation and distribution of AuDWRI-visual Training material	CPMO-IMEP CAMO- DOA
14.	Committee meeting for ADP Coordination and implementation Support	
A	Agriculture management and Coordination Committee	DoA
B	Provincial ADP Implementation and Coordination Committee	DoAD
C	ADP Implementation Committee (RAMO)	RAMO
D	ADP Implementation Committee (AKC/ADO-PIU)	AKC/ADO

### 1.43 Project support and cost sharing for ADP implementation

The project provides comprehensive support for the development and demonstration of agricultural crop production technologies to enhance productivity and promote sustainable farming practices. It also facilitates the establishment and growth of agri-enterprises through technical assistance, capacity-building, and access to essential inputs and resources. Specific details of the support, including cost-sharing, resource allocation, and implementation modalities, are presented in the Appendix 7, 8 and Table 8. Additionally, the project supports demonstrations of agricultural equipment and machinery to promote mechanization and improve farm productivity. This includes technical guidance, hands-on demonstrations, and capacity-building for farmers and

21

  
 Rajendra Prasad Mishra (Ph.D)  
 Secretary

  
 Hon. Dr. Madan Prasad Pant  
 Minister

WUA- Agriculture production and Value chain support Sub-committee members to adopt mechanized practices effectively. Support may include provision of demonstration equipment, operational assistance, and training on proper usage and maintenance, with cost-sharing arrangements detailed in the Appendix 7,8 and Table 8.

The project further promotes the upscaling of demonstrations of agricultural facilities and machinery to encourage mechanization and commercialization. Support covers technical guidance, capacity-building, and hands-on demonstrations to enable wider adoption among farmers and WUAs members, including provision of equipment, operational assistance, and training on effective utilization and maintenance. Detailed provisions, including cost-sharing arrangements, are outlined in the Table below:

**Table 8. ADB Loan and Government Counterpart Financing for Project ADP Activities**

S.N.	Item	ADB Loan (of total expenditure)	GoN	Remarks
1	Mechanical and equipment support costs	55.4%	44.6%	
2	Training and Capacity Building costs	78.8%	21.2%	
3	Agriculture Facilities support costs	83.4%	16.6%	
4	Consulting Service costs	100%	0	
5	Recurrent Costs	50%	50%	

**Procurement method of project support**

Procurement of Works, Goods, Non-consulting Services, and Consulting Services under the Agricultural Development Plan (ADP) will be carried out using appropriate procurement methods in accordance with the Public Procurement Act and Regulations of the Government of Nepal and the Asian Development Bank (ADB) Procurement Policy and Procurement Regulations for ADB Borrowers.

Depending on the nature, size, complexity, and value of individual activities, the implementing agency may apply like Request for Bids (RFB), and Request for Quotations (RFQ) procurement methods.

For Consulting Services, appropriate selection methods consistent with ADB guidelines such as quality- and cost-based selection, consultants' qualifications-based selection, or individual consultant selection will be applied as specified in the approved procurement plan.

All procurement packages, market approaches, and contract management arrangements for ADP activities shall be defined in the approved Procurement Plan and implemented in compliance with applicable national laws and ADB procurement requirements.

*[Handwritten signatures and stamps]*

Rajendra Prasad Mishra (Ph.D)  
Secretary

Hon. Dr. Manoj Prasad Pariyar  
Minister

## MONITORING AND EVALUATION OF ADP

### 1.44 Concept of monitoring and evaluation of ADP

Monitoring and Evaluation (M&E) of the Agricultural Development Program (ADP) under IMEP is a results-based system for tracking implementation progress, resource use, and achievement of planned outputs and outcomes. Monitoring focuses on regular assessment of physical and financial progress, compliance with plans, and identification of implementation issues for timely corrective action. Evaluation periodically assesses effectiveness, efficiency, impact, and sustainability of ADP interventions. The M&E system supports accountability, informed decision-making and continuous improvement to ensure ADP objectives are achieved in line with IMEP goals.

### 1.45 Methods and responsibility of monitoring and evaluation of ADP

Monitoring and Evaluation (M&E) of the Agricultural Development Plan (ADP) is carried out using a combination of field-based, reporting, and analytical methods. Key methods include regular field supervision and site inspections, progress reporting against approved work plans and budgets, collection of physical and financial performance data, and verification of outputs at demonstration and enterprise sites. Participatory monitoring involving beneficiaries and local institutions is used to assess adoption, performance, and constraints. Periodic reviews, outcome assessments, and impact evaluations are conducted to measure effectiveness, efficiency, and sustainability of ADP interventions.

**Table 9. Monitoring Methods and Responsibilities**

Types of Monitoring	Frequency	Against	Tool, Process/Method	Responsibility
Process	Day to day	Action Plan	Field visits, progress review	WUA, AULL, AKC/ADO, RAMO
Progress	Trimesterly/annually	Work Plan, Progress report, Field visit report	Field visits, Meeting with stakeholders, progress review workshop	Provincial Ministry, DoA/CAMO+DoWRI + CAMO

### 1.46 Reporting mechanism of the Agricultural Development Plan (ADP) under IMEP

Reporting of the Agricultural Development Plan (ADP) under the Irrigation Modernization and Enhancement Project (IMEP) follows a structured, standardized, and multi-tier reporting mechanism involving all key implementing and oversight institutions.

At the field level, data on physical progress, financial expenditures, outputs, and outcomes are collected, compiled, and verified by the Agriculture Knowledge Centre / Agriculture Development Office – Project Implementation Unit (AKC/ADO-PIU) including the Inputs of the PIMS consultants. Using approved standard reporting formats, the AKC/ADO-PIU prepares periodic progress reports and submits them to the Directorate of Agriculture Development (DOAD). The PIMS team of consultants shall report regularly to the PIMS Central, in accordance with their assigned responsibilities, and subsequently to the CPMO and CAMO.

The DOAD reviews, consolidates, and validates the reports received from AKCs/ADOs and forwards the consolidated reports to the Department of Agriculture – Central Agriculture Management Office (DoA-CAMO). DoA-CAMO undertakes further review and consolidation and submits the reports to the IMEP Central Project Management Office (CPMO) and Development Partners, as required.

Progress reports are reviewed through regular coordination, monitoring, and review meetings at provincial and central levels. Feedback, recommendations, and agreed corrective actions are communicated back to the AKC/ADO-PIUs and field implementation teams to ensure timely implementation, compliance with project objectives, and continuous performance improvement.

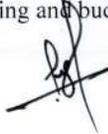
23

Rajendra Prasad Mishra (Ph.D)  
Secretary

Dr. Jitendra Prasad Parajuli  
Minister

### 1.47 Reporting Frequency under IMEP

- **Monthly:**  
Physical and financial progress reports prepared by AKC/ADO-PIU and submitted to DOAD.
- **Trimesterly:**  
Consolidated progress and performance reports prepared by the DOAD and submitted to DoA-CAMO; further consolidated and submitted by DoA-CAMO to the IMEP-CPMO.
- **Annual:**  
Comprehensive annual reports covering physical and financial progress, results and outcomes, lessons learned, and inputs for planning and budgeting for the subsequent year.



Rajendra Prasad Mishra (Ph.D)  
Secretary



Hon. Dr. Madan Prasad Pariyar  
Minister

APPENDICES

Appendix 1. List of irrigation subprojects



S. N	Project Component	Province	Ecological Belt	Local Level	Wards	Name of ISP	CCA
<b>A. Batch IA Projects</b>							
1	FMIS	Madhesh	Terai	Mahagadhimai Municipality, Bara	5	Jokaha Dora ISP	300
2	FMIS	Madhesh	Terai	Karaiyamai RM, Bara	1	Bhaluhi Suklaiya Pakki	360
3	FMIS	Madhesh	Terai	Bhangaha, Mahottari	7	Ladakawa ISP	345
4	FMIS	Madhesh	Terai	Balawa Municipality, Mahottari	8	Chakkarghatta Dewanma ISP	670
5	FMIS	Madhesh	Terai	Sukhipur RMC, Siraha	8, 10, 6 & 4	Gagan ISP	865
6	FMIS	Madhesh	Terai	Haripurwa, Sarlahi	6	Haripuwa ISP	414
7	FMIS	Madhesh	Terai	Bansbariya RM, Sarlahi	4 & 5	Laukath Dhangadha ISP	375
8	FMIS	Madhesh	Terai	Garuda Municipality, Rautahat	9	Dora Paini Raghunathpur ISP	255
9	FMIS	Madhesh	Terai	Phatuwa, Bijayapur, Rautahat	11	Aruwa Khola ISP	430
10	FMIS	Madhesh	Terai	Bideha Municipality, Dhanusha	2	Soharna ISP	430
11	FMIS	Madhesh	Terai	Bideha Municipality, Dhanusha	1 & 4	Bachharaja ISP	325
12	FMIS	Madhesh	Terai	Jagarnathpur RM, Parsa	4	Hadahi ISP	300
13	FMIS	Madhesh	Terai	Paterwa sugauli RM, Parsa	2	Gadi ISP	280
14	FMIS	Madhesh	Terai	Dakneswar, Saptarii	9	Kajra ISP	307
15	FMIS	Madhesh	Terai	Mahadeva RM, Saptari	2	Jita Khola ISP	227
16	FMIS	Bagmati	Mountain	Thakre RM, Dhading	8	Sopyang Khola Ghatta Ko Kulo ISP	50
17	FMIS	Bagmati	Mountain	Dhunibesi Municipality, Dhading	9	Jhagadiya Sikre ISP	45
18	FMIS	Bagmati	Terai	Tinpatan Rural Municipality, Sindhuli	2	Sakhmadi Chadaha ISP	90
19	FMIS	Bagmati	Mountain	Baiteshwor Municipality, Dolkha	5&6	Nimkot Besi ISP	50
20	FMIS	Bagmati	Mountain	Melung RM, Dolkha	4&5	Nause Besi Kulo ISP	72

*[Handwritten signature]*

25

Rajendra Prasad Mishra (Ph.D)  
Secretary

Min. Dr. Madan Prasad Paudyal  
Minister

S. N	Project Component	Province	Ecological Belt	Local Level	Wards	Name of ISP	CCA
21	FMIS	Bagmati	Hill	Panchkhal, Kabhreplanchowk	6	Barhasaya Sathi Kulo ISP	58
21	FMIS	Bagmati	Hill	Mandan Deupur, Kabhreplanchowk	6	Muhane Mul Kulo ISP	65
23	FMIS	Bagmati	Hill	Dudhali Municipality, Sindhuli	5	Purwari-Pachhiyari Mulkulo ISP	170
24	FMIS	Bagmati	Mountain	Chautara Sangachowgadi Municipality, Sindhupalchowk	4	Pokhre Tipling Khola ISP	65
25	FMIS	Bagmati	Mountain	Paanchpokhari Thaangpal, Sindhupalchowk	6	Mahadev Khola Sisneghari Dittiya ISP	76
26	FMIS	Bagmati	Hill	Godawari, Lalitpur	1 & 2	Godavari (Right) Rajkulo ISP	90
27	FMIS	Bagmati	Hill	Bakaiya RM, Makwanpur	6	Chyau Chyau ISP	80
28	FMIS	Bagmati	Hill	Bagmati RM, Makwanpur	4	Bagmati ISP	75
29	FMIS	Bagmati	Terai	Kalika Municipality, Chitwan	8	Majuwa ISP	45
30	FMIS	Bagmati	Mountain	Naukunda RM, Rasuwa	1	Dhuple Khola ISP	35
31	FMIS	Bagmati	Hill	Bidur Municipality, Nuwakot	8	Samari Khola Sirhuwaphant ISP	25
32	FMIS	Bagmati	Hill	Tandi Rural Municipality, Nuwakot	5	Dorkhu Khola Muhan Gari Bahun Besi ISP	76
33	FMIS	Bagmati	Hill	Shankharapur, Kathmandu	5	Bishombhar ISP	90
34	FMIS	Bagmati	Hill	Sankharapur, Kathmandu	1	Chisapani Laharedevi ISP	33
35	FMIS	Koshi	Hill	Bhojpur Municipality, Bhojpur	12	Simle Naya Kulo ISP	25
36	FMIS	Koshi	Hill	Temkemaityung RM, Bhojpur	2	Yangtang Khola ISP	45
37	FMIS	Koshi	Hill	Mahalaxmi Municipality, Dhankutta	3 & 4	Birendra Kulo ISP	106
38	FMIS	Koshi	Hill	Dhankuta Municipality, Dhankutta	2	Tin Dovane Kerabari ISP	98
39	FMIS	Koshi	Hill	Khandbari Municipality, Sakhawasava	7 & 8	Pagma Khola badareni ISP	41

*[Handwritten signature]*

26

Rajendra Prasad Mishra (Ph.D)  
Secretary

Min. Dr. Madan Prasad Parityar  
Minister

S. N	Project Component	Province	Ecological Belt	Local Level	Wards	Name of ISP	CCA
40	FMIS	Koshi	Hill	Dharmadevi Municipality, Sankhuwasava	9	Kewa Khola Fituwa Malibheg ISP	55
41	FMIS	Koshi	Hill	Rong Rural Municipality, Ilam	2	Mangaltar Dhansar ISP	135
42	FMIS	Koshi	Hill	Chulachuli RM, Ilam	6	Nunsari Khola ISP	91
43	FMIS	Koshi	Hill	Deumai Municipality, Ilam	8	Lewa Khola ISP	70
44	FMIS	Koshi	Terai	Sunbarshi Municipality, Morang	1	Sita Dans Kerkha ISP	370
45	FMIS	Koshi	Terai	Pathri Sanischare, Morang	5,6&7	Adarsa Paini ISP	230
46	FMIS	Koshi	Hill	Champadevi RM, Okhaldhunga	7	Dhuseni Khola Kangrange Kolchaur Besi ISP	53
47	FMIS	Koshi	Hill	Molung RM, Okhaldhunga	4	Kul Khola ISP	50
48	FMIS	Koshi	Hill	Phidim Municipality, Panchthar	11	Khang Khola Tetire Bibire Falate Kulo ISP	110
49	FMIS	Koshi	Hill	Miklajung RM, Panchthar	2	Naya Kulo ISP	115
50	FMIS	Koshi	Mountain	Sirijangha RM, Taplejung	1	Nebu Khola ISP	87
51	FMIS	Koshi	Mountain	Pathibhara Yangbarak RM, Taplejung	1	Khokse Nangkholyang ISP	63
52	FMIS	Koshi	Hill	Laliguras RM, Terhathum	6&7	Lambu Khola ISP	300
53	FMIS	Koshi	Hill	Myanglung Municipality, Terhathum	4	Karange Kulo ISP	85
54	FMIS	Koshi	Hill	Sakela Rural Municipality, Khotang	1	Sabju Khola Bhalu Khop ISP (4.19)	86
55	FMIS	Koshi	Hill	Diprung Chuichumma RM, Khotang	3	Kharuwa Khola Ek Chhange ISP	234
56	FMIS	Koshi	Terai	Ramdhuni, Sunsari	6 & 7	Kajara Khola Kataghara Bandh ISP	131
57	FMIS	Koshi	Terai	Itahari Sub-Metropolitan City, Sunsari	10 & 11	Tengra Khola Sera Bandh ISP	220
58	FMIS	Koshi	Hill	Katari Municipality, Udayapur	5	Beladaha ISP	105
59	FMIS	Koshi	Hill	Triyuga N.P., Udayapur	10	Upper Baruwa ISP	215

Ramb

3/3

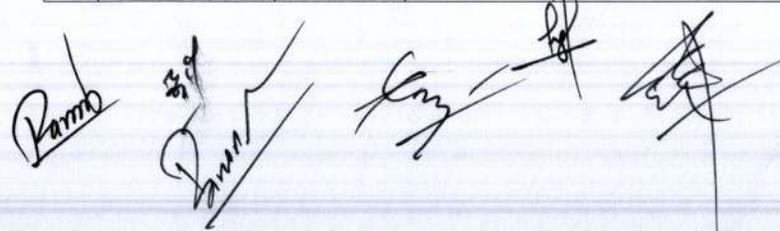
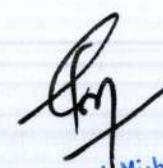
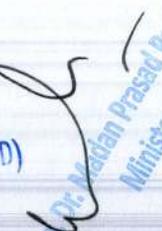
*[Handwritten signature]*

*[Handwritten signature]*

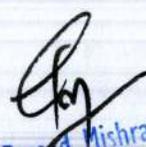
*[Handwritten signature]* 27  
Rajendra Prasad Mishra (P.T.)  
Secretary

*[Handwritten signature]*  
Hon. Dr. Madan Prasad B. ...  
Min...

S. N	Project Component	Province	Ecological Belt	Local Level	Wards	Name of ISP	CCA
60	FMIS	Koshi	Terai	Mechinagar Municipality, Jhapa	11,12	Hadiya Khola Abi Nahar ISP	265
61	FMIS	Koshi	Terai	Mechinagar Municipality, Jhapa	13 & 14	Pathivara Krishi Kulo	165
<b>B. Batch IB Projects</b>							
1	FMIS	Madhesh	Terai	Loharpatti Municipality, Mahottari	2	Pathara ISP	450
2	FMIS	Madhesh	Terai	Loharpattei and jaleswor Mun., Mahottari	9	Rato Kokaila ISP	525
3	FMIS	Madhesh	Terai	Laxmipur patari RMC, Siraha	4	Baburam ISP	400
4	FMIS	Madhesh	Terai	Siraha Municipality, Siraha	19 & 20	Gagansahaja ISP	450
5	FMIS	Madhesh	Terai	Sambhunath, Saptari	5	Tarkhana ISP	140
6	FMIS	Madhesh	Terai	Kamala Municipality, Dhanusha	1	Mujeliya Badh ISP	210
7	FMIS	Madhesh	Terai	Mithila Barahi Municipality, Dhanusha	9 and 10	Siraili Badh ISP	400
8	FMIS	Madhesh	Terai	Jagarnathpur Municipality, Parsa	1	Oriya ISP	354
9	FMIS	Bagmati	Hill	Tinpatan Rural Municipality, Sindhuli	4	Purnetar ISP	25.5
10	FMIS	Bagmati	Mountain	Thakre RM, Dhading	4&5	Liti ISP	105
11	FMIS	Bagmati	Mountain	Melung Rural Municipality, Dolkha	1	Ghyang Khola ISP	305
12	FMIS	Bagmati	Hill	Panchkhal Municipality, Kabhre	3,5	Kumaitaar ISP	35
13	FMIS	Bagmati	Mountain	Melamchi, Sindhupalchowk	1	Thulo Kulo ISP	50
14	FMIS	Bagmati	Mountain	Belkotgadhi 5, Nuwakot	1	Kolputar ISP	35
15	FMIS	Bagmati	Hill	Ramechhap, Ramechhap	4	Phalate Kola Khola Simle Swara ISP	27
16	FMIS	Bagmati	Hill	Likhutamakoshi-4, Ratamata, Ramechhap	4	Larku Kola Thada Khoriya Magargaun ISP	26
17	FMIS	Bagmati	Terai	Ratnagar Municipality, Chitwan	5	Tarauli ISP	120
18	FMIS	Bagmati	Terai	Ratnagar Municipality, Chitwan	14,15,16	Pithuwa ISP	1800


  
 28
   

  
 Rajendra Prasad Mishra (Ph.D)  
 Secretary
   

  
 Hon. Dr. Madan Prasad Periyar  
 Minister

S. N	Project Component	Province	Ecological Belt	Local Level	Wards	Name of ISP	CCA
19	FMIS	Bagmati	Hill	Dakshinkali, Kathmandu	8	Phaku Kulo ISP	30
20	FMIS	Koshi	Hill	Temkemaityung RMC, Bhojpur	2	Hinkuwa Khola Thalakhm Kulo ISP	40
21	FMIS	Koshi	Hill	Mahalaxmi Municipality, Dhankutta	2	Chayalung Laktang ISP	188
22	FMIS	Koshi	Hill	Fakfokathum RM, Ilam	1	Satake Pachewa Thingepur ISP	110
23	FMIS	Koshi	Hill	Suryodaya Municipality, Ilam	3	Rungsung ISP	70
24	FMIS	Koshi	Terai	Kerabari RM, Morang	6&7	Sira Jimdari ISP	300
25	FMIS	Koshi	Terai	Letang Municipality, Morang	5,6	Bhuwa Chisang Janta Bikas ISP	225
26	FMIS	Koshi	Terai	Kankai Municipality, Jhapa	5	Surunga Kulo ISP	410
27	FMIS	Koshi	Hill	Pathibhara Yangwarak RMC, Taplejung	1	Khokse Nakedanda Bhirmuni ISP	107
28	FMIS	Koshi	Hill	Athrai Triveni RMC, Taplejung	3	Chuwa Kalidaha ISP	75
29	FMIS	Koshi	Hill	Solu-Dudhkunda Municipality, Solukhumbu	11	Muddhe Khola Ghatte Khola ISP	154
30	FMIS	Koshi	Hill	Necha Salyan RM, Solukhumbu	1 & 2	Taari Khalpa Demde ISP	50
31	FMIS	Koshi	Hill	Yangwarak Gaunpalika, Panchthar	2	Phaalam Khola Ahale Simle ISP	120
32	FMIS	Koshi	Hill	Menchhayayem RM, Terhathum	5&6	Myangkhuwa Kulo ISP	135
33	FMIS	Koshi	Hill	Menchhayayem RM, Terhathum	3&4	Guranse Kulo ISP	95
34	FMIS	Koshi	Hill	Diktel Rupakot Majhuwagadi, Khotang	10	ChimChima Khola ISP	122
35	FMIS	Koshi	Hill	Panchkhanan RM, Sankhuwasava	1	Halo Chhekuwa ISP	48
36	FMIS	Koshi	Terai	Ramdhuni, Sunsari	7	Shankar Beli ISP	115
37	FMIS	Koshi	Hill	Triyuga N.P., Udayapur	2	Babiya Khola ISP	102
38	FMIS	Koshi	Terai	Arjundhara Municipality, Jhapa	2 & 3	Hawaladar Paini ISP	250

  
 29  
 Rajendra Prasad Mishra (Ph.D)  
 Secretary

  
 Dr. Madan Prasad Pant  
 Minister

S. N	Project Component	Province	Ecological Belt	Local Level	Wards	Name of ISP	CCA
Hill lift Projects							
1	Hill Lift	Gandaki	Hill	Vyas Municipality	10	Baireini Hill lift	49.35
2	Hill Lift	Gandaki	Hill	Vyas Municipality	10	Dumsi Hill left	102.2
3	Hill Lift	Gandaki	Hill	Madhya Nepal	4	Duiple hill lift	124.96
4	Hill Lift	Gandaki	Hill	Madhya Nepal	4	Sirshaghat Hill left	50.4
5	Hill Lift	Lumbini	Hill	Rampur Municipality	6	Tilakpur Hill left	105.53
6	Hill Lift	Lumbini	Hill	Rampur Municipality	6	Pyakluk Hill left	109.73
7	Hill Lift	Lumbini	Hill	Rampur Municipality	8	Alketar Hill left	157.97
8	Hill Lift	Lumbini	Hill	Rampur Municipality	10	Ramtar-Kumalgaun	90.55
9	Hill Lift	Lumbini	Hill	Rambha Rural Municipality	1	Majhigaun Hill left	60.93
10	Hill Lift	Gandaki	Hill	Palungtar Municipality	7	Chyanglitar Hill Left	415
11	Hill Lift	Gandaki	Hill	Byas Municipality	7	Kalesti Hill left	135
12	Hill Lift	Lumbini	Hill	Rampur Municipality	10	Siko Danda Hill left	14
Rajapur Project							
1	Rajapur	Lumbini	Terai	Rajapur Municipality and Geruwa RM	All	Rajapur Irrigation Project	14500

*Pamb* 3.7 *[Signature]*

*[Signature]*

*[Signature]*

Rajendra Prasad Mishra (Ph.D)  
Secretary

Hon. Dr. Madan Prasad Pariyar  
Minister

## Appendix 2. Demonstration Up-scaling Matching Grant Support Forum

### Section A: Applicant Profile

A1. Applicant Type (select one):

- Individual Farmer
- Farmer Group
- Cooperative
- Agribusiness Firm
- Water User Association (WUA)

A2. Applicant Details

1. Name of Applicant / Entity:.....
2. Registration No. (if applicable): .....
3. Address  
.....Province.....District.....Palika.....Ward
4. Contact Person (for groups/organizations): .....
5. Phone / Mobile: .....
6. Email: .....
7. PAN/VAT No. (if applicable): .....

### Section B: Project Summary

B1. Title of Proposed ADP Upscaling Intervention:  
.....

B2. Category of Intervention (tick all applicable):

- Agricultural Mechanization
- ADP Input Support
- Post-Harvest/Processing and Value Addition
- Market Linkage Improvement
- Other (specify).....

B3. Linkage to IMEP/ADP

1. Name of ISP/Command Area: .....
2. Previous ADP Demonstration Conducted: .....Type.....Year
3. Reason/Justification for Upscaling.....

### Section C: Technical Description of Proposed Intervention

C1. Target Crop(s)/Enterprise:.....

C2. Area Coverage and Beneficiaries

Total Area to be Covered (ha):.....

No. of Target Beneficiary Farmers:.....

C3. Description of Proposed Activities (sequence-wise):

C4. Expected Outputs:

C5. Expected Outcomes:

### Section D: Financial Proposal

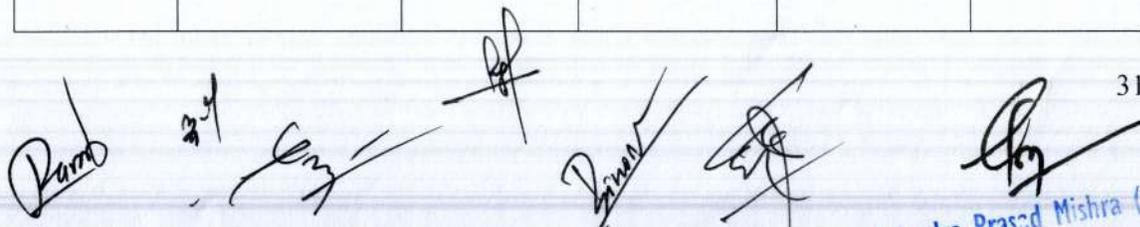
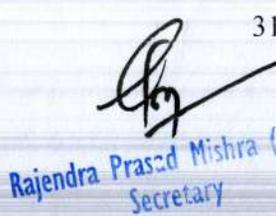
D1. Total Estimated Cost of the Proposed Intervention (NPR):.....

D2. Applicant's Contribution (≥50% of total cost) (NPR):.....

D3. Matching Grant Amount Requested (NPR):.....

D4. Detailed Item-wise Budget

S.N.	Upscaling Cost Item	Total Cost (NPR)	Applicant Share (NPR)	Matching Grant Requested (NPR)	Remarks


  
 31
   

  
 Rajendra Prasad Mishra (Ph. No. 9770101010)
   
 Secretary
   

  
 Hon. Dr. Jeevan Prasad Parivara
   
 Minister



**Section E: Implementation Plan**

**E1. Timeline (Month-wise Implementation Schedule)**

S.N.	Activity	Trimester				Remarks
		1st	2nd	3rd	4th	

E2. Key Responsible Agency/Personnel: .....

**Section F: Safeguards and Compliance**

**F1. Environmental Safeguards**

- No significant environmental impact expected
- Mitigation measures included (specify):

**F2. Social Safeguards**

- No displacement or social risk
- Inclusive participation ensured (women, disadvantaged groups)

**F3. Compliance with IMEP Guidelines**

- I confirm that project activities comply with IMEP operational guidelines
- No duplication with other grants/subsidies

**Section G: Supporting Documents Checklist**

- Citizenship/Registration Certificate
- PAN/VAT Certificate
- Group/Cooperative/WUA Registration
- Land Ownership/Use Permission
- Cost Estimates / Quotations
- Command Area Verification by ISP/AKC/ADO/AULL
- Other relevant documents

**Section H: Declaration**

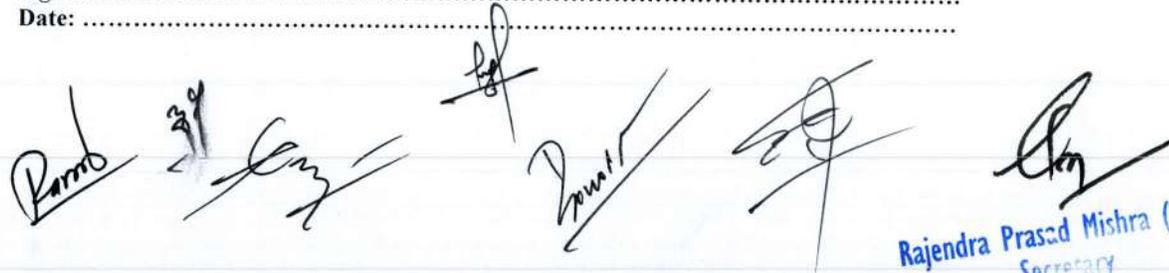
I hereby certify that the information provided in this application is true, correct, and complete. I agree to comply with all IMEP and ADP implementation guidelines, monitoring requirements, and financial reporting obligations.

**Name of Applicant/Authorized Person:**.....

**Position (if organization):**.....

**Signature:** .....

**Date:** .....



Rajendra Prasad Mishra (Ph.D)  
 Secretary

Hon. Dr. Madan Prasad Pariyar  
 Minister

**Appendix 3. Evaluation Criteria (Demonstration Up scaling Matching Grant Forum)**

S. N	Evaluation Criteria	Full Marks	Remarks
1.	<b>Technical Feasibility</b> – Practical, clear, and achievable activities.	20	
2.	<b>Economic &amp; Financial Viability</b> - Reasonable costs, strong cost-sharing, expected income/productivity gains.	20	
3	<b>Expected Impact</b> - Number of beneficiaries, area coverage, yield increase, replicability.	15	
4	<b>Institutional Capacity</b> - Applicant experience, management, and reporting ability	15	
5	<b>Social Inclusion</b> - Participation of women, disadvantaged groups.	10	
6	<b>Environmental &amp; Climate Safety</b> - Compliance with safeguards, climate-smart measures	10	
7	<b>Alignment with IMEP/ADP Guidelines</b> - Fits program objectives and local priorities	10	
	<b>Total</b>	100	









Rajendra Prasad Mishra (Ph.D)  
 Secretary

  
 Hon. Dr. Madan Prasad Parhiyar  
 Minister



**4. Suitability Assessment**

Criteria	Yes / No	Comments
Adequate area for demonstration		
Adequate water supply		
Soil and site suitable for target crop/enterprise		
Accessible for technical supervision & monitoring		
Farmer/Group willing and capable		
No major environmental or social risks		

**Overall Site Suitability:**

- Highly Suitable
- Suitable with minor improvements
- Unsuitable

**5. Recommended Demonstration Crop / Enterprise**

Crop / Enterprise	Area (ha)	Expected Yield / Target Outcome	Remarks

**6. Additional Remarks / Recommendations** (Include special observations, mitigation measures, or technical recommendations)

**7. Verification & Sign-off**

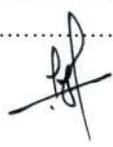
Name .....

Designation .....

Signature .....

Date .....








Rajendra Prasad Mishra (Ph.D)  
 Secretary

  
 Hon. Dr. Madan Prasad Pariyar  
 Minister

### Appendix 5. Strengthening Activities for Irrigation and Agriculture agencies and Farmers Organizations (WUAs and WUCs) under OUTPUT 2

S.N	Activity	Objectives	Process of Implementation	Responsibility
<b>2.1 STRENGTHENING OF IRRIGATION AND AGRICULTURE AGENCIES</b>				
<b>a. Project Launching/Briefing and Progress Review Workshop</b>				
1	Federal Level Staffs (1 day every year)	To provide information about the project, project activities, project documents etc.	-	CPMO/CAMO
2	Province/Local Level Staffs (1 day every year)	To find out the project implementation progress at PIUs.	-	CPMO/CAMO/DO AD
<b>b. Training</b>				
1	Irrigation and Agriculture Programs for Federal Level Technical Staffs (3 days every year)	To provide information about the project programs, activities, technical knowledge.	- Select participants for training. - Prepare and approve the training plan.	CPMO/CAMO
2	Project Administration & Accounting Training for Admin & Account Staffs of Federation/Province (3 days)	To provide administration & accounting information of the project activities.	- Mobilize trainers, materials, and logistics. - Schedule training and notify participants. - Coordinate with related authorities.	CPMO
3	Irrigation Development Programs under for Province/Local Level Staffs (3 days every year)		- Maintain attendance, agenda, and administrative records - Submit training report and feedback to higher authority.	CPMO
4	Agriculture Development Programs for Province/Local Level Staffs (3 days every year)	To provide ADP information to province and local level staffs.		CAMO
5	Supporting Integrated River Management in Lower Karnali Basin	-	-	CPMO
<b>c. Strengthening of Devolved Irrigation and Agriculture Agencies</b>				
1	Leadership & Administrative Capacity Development training	-	- Select participants for training.	CPMO

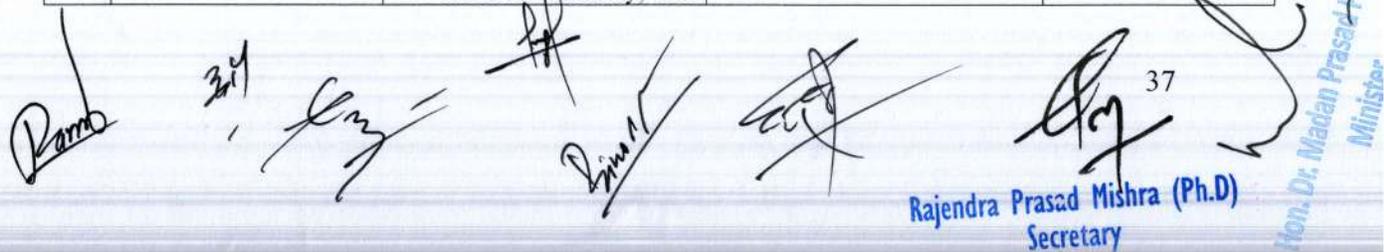
*[Handwritten signature]*

36

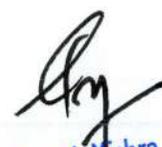
Rajendra Prasad Mishra (Ph.D)  
Secretary

Hon. Dr. Madan Prasad Puri  
Minister

S.N	Activity	Objectives	Process of Implementation	Responsibility
			<ul style="list-style-type: none"> <li>- Prepare and approve the training plan.</li> <li>- Mobilize trainers, materials, and logistics.</li> <li>- Schedule training and notify participants.</li> <li>- Coordinate with related authorities.</li> <li>- Maintain attendance, agenda, and administrative records</li> <li>- Submit training report and feedback to higher authority.</li> </ul>	
2	Organizational Strengthening & Governance	-	-	CPMO/CAMO
3	Digital Advisory and Farm Information Systems	-	-	CPMO/CAMO
<b>2.2</b>	<b>PROCUREMENT OF EQUIPMENT</b>			
a.	Office Equipment	-	As per the provisions mentioned in Public Procurement Act and ADB procurement guidelines.	CPMO/CAMO /DWRI/PIU/ RAMO/AKC /ADO
<b>2.3</b>	<b>MODERNIZATION OF IRRIGATION AND AGRICULTURE MANAGEMENT AT FIELD LEVEL</b>			
a.	Strengthening Existing WUA	-	-	DWRI/PIU/AKC/A DO
b.	Establish New Water User Cooperative (20 pilot subprojects)	-	-	DWRI/PIU/AKC/A DO
c.	Upscaling of New Water User Cooperatives (100 sub projects)	-	-	DWRI/PIU/AKC/A DO
d.	Training and support for Sustainable ICWM	<ul style="list-style-type: none"> <li>- To enhance farmers' knowledge and skills in sustainable crop and water management practices.</li> <li>- To promote adoption of ICWM techniques to improve productivity, resource efficiency, and</li> </ul>	<ul style="list-style-type: none"> <li>- Select leader farmers for training.</li> <li>- Prepare and approve the training plan.</li> <li>- Mobilize trainers, manage materials, venue and logistics.</li> </ul>	PIU/RAMO/AKC/ ADO


  
 37  
 Rajendra Prasad Mishra (Ph.D)  
 Secretary  
 Hon. Dr. Madan Prasad Poudyal  
 Minister

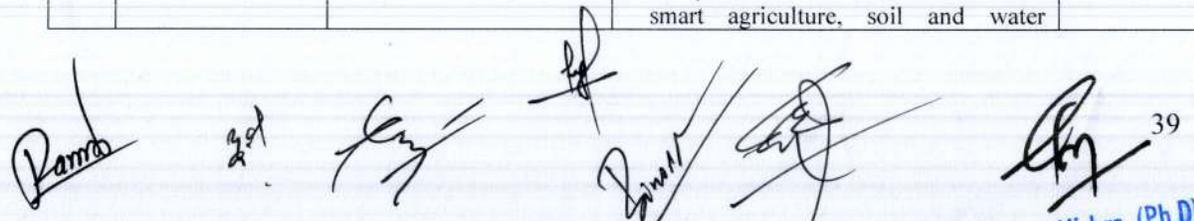
S.N	Activity	Objectives	Process of Implementation	Responsibility
		environmental sustainability.	<ul style="list-style-type: none"> <li>- Approve the training schedule and notify the selected participants.</li> <li>- Coordinate with AULL and WUA and local authorities.</li> <li>- Maintain attendance, agenda, and administrative records.</li> <li>- Submit training report and feedback to higher authority.</li> </ul> <p><b>Support Activities for ICWM</b></p> <ul style="list-style-type: none"> <li>- Provide technical guidance on crop, water, and soil management.</li> <li>- Conduct field demonstrations of ICWM practices.</li> <li>- Supply necessary inputs and tools.</li> <li>- Monitor adoption and crop performance.</li> <li>- Document outcomes and lessons learned.</li> </ul>	
2.4	<b>ENHANCED ACCESS TO RURAL FINANCE</b>			
a.	Training and Pilot Program for Improved Procedures to enhance access to rural finance	<ul style="list-style-type: none"> <li>- To enhance participants' understanding of improved procedures, tools, and best practices for accessing rural finance.</li> <li>- To promote adoption of efficient financial practices to increase farmers' access to credit and financial services.</li> </ul>	-	CPMO/CMPU


  

  
 Rajendra Prasad Mishra (Ph.D)  
 Secretary


  
 Hon. Dr. Nisaban Prasad Pariyar  
 Minister

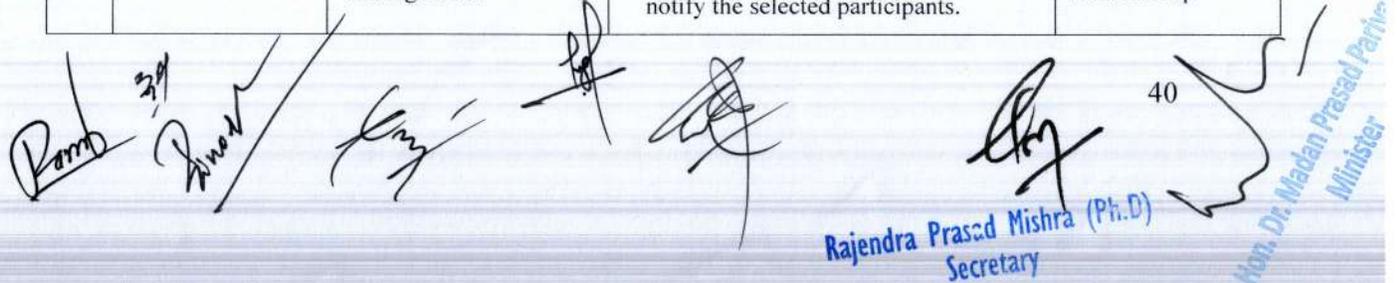
**Appendix 6. Agriculture Support Activities under OUTPUT 3**

S.N	Activity	Objectives	Process of Implementation	Expected Outputs
<b>3.1</b>	<b>ADP IDP BRIEFING MEETING WITH COMMUNITY AND FARMERS</b>			
<b>a.</b>	Community Briefing Meeting about ISP Activities (1 day/ISP)	- To ensure informed participation, transparency and effective stakeholder engagement.	- Prepare agenda, materials, and venue. - Notify to select the participants. - Present ISP activities and collect feedback. - Record minutes and submit report. - Integrate feedback into planning.	Community informed, feedback recorded, and action points for ISP planning identified.
<b>b.</b>	ADP IDP Briefing Meeting to Leader Farmers (1 day)	- To inform leader farmers about ADP/IDP activities, progress, and upcoming plans. - To collect feedback and suggestions to improve implementation.	- Prepare agenda, materials, and venue. - Notify and mobilize leader farmers. - Present activities and collect feedback. - Record minutes and integrate feedback.	Leader farmers informed, feedback collected, and action points for ADP/IDP implementation identified.
<b>3.2</b>	<b>AGRICULTURE TECHNOLOGIES AND ENTERPRISE DEVELOPMENT</b>			
<b>a.</b>	Cropping Pattern Demonstration (in FFS Mode)			
<b>1</b>	Climate Resilient & Productive Cropping Pattern FFS (FFS in 3 seasons in one year/ISP)	- To enhance farmers' learning knowledge and skills in adopting climate-resilient and productive cropping patterns. - To increase crop yield, resource use efficiency, and climate adaptation at the farm level. - To promote farmer-led experimentation and learning for sustainable agriculture.	- <b>Site Selection &amp; Community Mobilization</b> (Identify suitable villages/wards based on climate risk and cropping potential, mobilize farmers and form FFS groups (20-25 farmers per WUA). - <b>Facilitator Training</b> (Train agriculture extension staff and lead farmers on climate-resilient agriculture and FFS methodology, provide manuals, demonstration guides, and record-keeping tools.) - <b>Baseline Assessment</b> (Conduct participatory assessment of current cropping patterns, soil fertility, water availability, and climate vulnerabilities.) - <b>Design Demonstration Plots</b> (Plan field trials with different cropping patterns and climate-resilient varieties, prepare the land and allocate plots for observation and experimentation.) - <b>Conduct Field Sessions</b> (Combine participatory learning, demonstrations, and practical exercises, teach climate-smart agriculture, soil and water	- Farmers trained in climate-resilient and productive cropping. - Demonstration plots established with improved cropping patterns. - Farm-level records and adoption plans developed. - Documented local best practices for wider adoption.

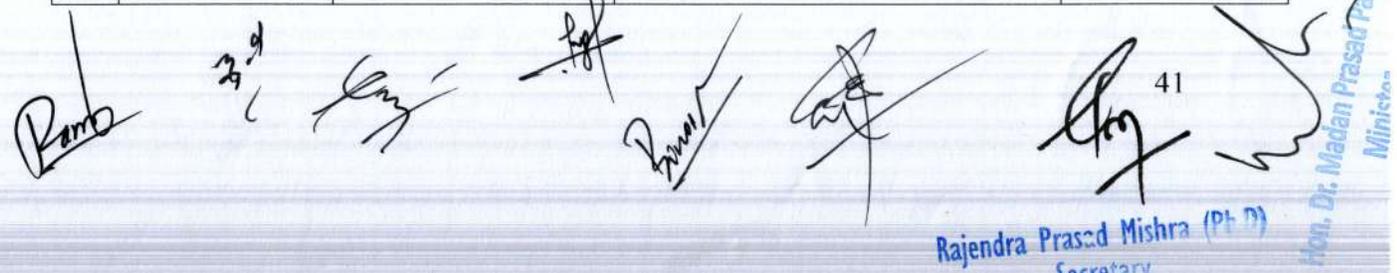

  
**Rajendra Prasad Mishra (Ph.D)**  
 Secretary

39  
**Hon. Dr. Madan Prasad Parhi**  
 Minister

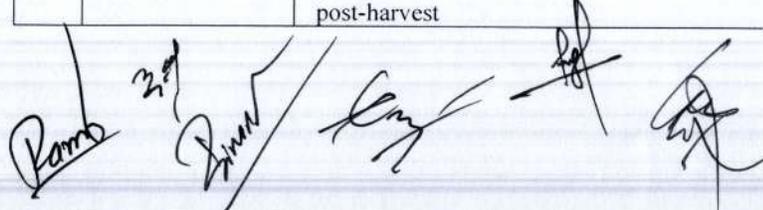
S.N	Activity	Objectives	Process of Implementation	Expected Outputs
			<p>management, pest management, and yield recording.)</p> <ul style="list-style-type: none"> <li>- <b>Record-Keeping &amp; Monitoring</b> (Farmers maintain plot records (growth, input use, pest incidence, yield, Facilitators provide guidance, monitor progress, and document outcomes.)</li> <li>- <b>Evaluation &amp; Analysis</b> (Compare different cropping patterns based on yield, resilience, and resource use, facilitate farmer-led discussions to identify best practices.)</li> <li>- <b>Scaling &amp; Dissemination</b> (Share successful practices with the wider community, support farmers in planning adoption at farm level for the next season.)</li> </ul>	
2	Orientation Training for FFS Facilitators (2 days)	<ul style="list-style-type: none"> <li>-To introduce FFS principles, structure, and facilitation approach to ensure facilitators understand the philosophy and process-based learning model based on experiential learning approach.</li> <li>-To build basic knowledge on roles, responsibilities, planning, and session management required for effective FFS implementation.</li> <li>-To orient facilitators on field observation, group dynamics, and documentation requirements for quality facilitation and reporting.</li> </ul>	<ul style="list-style-type: none"> <li>- Prepare and approve training plan and materials including agenda, FFS modules, handouts, and field observation tools.</li> <li>- Select and invite participants (prospective FFS facilitators) in coordination with AKC/ADO/AULL/WUC.</li> <li>- Conduct the session covering objectives, FFS concept, facilitator roles, and expectations.</li> <li>- Deliver core technical and facilitation sessions through presentations, group work, field visit/observation, and demonstrations.</li> <li>- Organize practical exercises on session planning, facilitation techniques, AESA process, and record-keeping.</li> <li>- Conduct evaluation and closing include feedback collection, summary of key messages, and distribution of training completion certificates.</li> <li>- DOAD will coordinate with AKCs/ADOs to organize district-wise training programs at a single venue.</li> </ul>	- At least 20 FFS facilitators with basic knowledge and skills to run Farmer Field School activities effectively.
3	Orientation Training on Cropping Pattern FFS for Leader Farmers (1 day)	-To enhance understanding of appropriate cropping patterns, crop sequencing, and season-specific crop management.	<ul style="list-style-type: none"> <li>- Select leader farmers for training.</li> <li>- Prepare and approve the training plan.</li> <li>- Mobilize trainers, manage materials, venue and logistics.</li> <li>- Approve the training schedule and notify the selected participants.</li> </ul>	At least 20 leader farmers oriented on cropping patterns and able to apply and demonstrate climate resilient crop

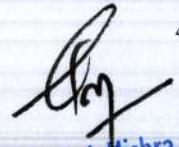

  
 40  
 Rajendra Prasad Mishra (Ph.D)  
 Secretary  
 Hon. Dr. Madan Prasad Paritosh  
 Minister

S.N	Activity	Objectives	Process of Implementation	Expected Outputs
		-To enable practical application to leader farmers for making able implement and demonstrate improved cropping pattern in their fields.	- Coordinate with AULL and WUA and local authorities. - Maintain attendance, agenda, and administrative records. - Submit training report and feedback to higher authority.	sequencing in their fields.
4	Training on Crop Management for Leader Farmers (2 days)	-To enhance knowledge and skills of leader farmers in modern crop management practices for better productivity.  -To enable adoption and dissemination of improved crop technologies within the farming community.	- Select leader farmers for training. - Prepare and approve the training plan. - Mobilize trainers, manage materials, venue and logistics. - Approve training schedule and notify participants. - Coordinate with AULL and WUA and local authorities. - Maintain attendance, agenda, and administrative records. - Submit training report and feedback to higher authority.	At least 20 leader farmers trained in modern crop management and ready to apply and share improved practices.
5	Training on Integrated Pest Management for Leader Farmers (2 days)	-To enhance knowledge of pest identification, monitoring, and sustainable IPM practices.  -To enable practical application so leader farmers can implement and promote IPM strategies in their fields.	- Select leader farmers for training. - Prepare and approve the training plan. - Mobilize trainers, materials, and logistics. - Approve training schedule and notify participants - Coordinate with AULL and WUA and local authorities. - Maintain attendance, agenda, and administrative records. - Submit training report and feedback to higher authority.	At least 20 leader farmers trained in IPM, capable of applying and promoting sustainable pest management practices in their fields.
6	Training on Crop Water Management for Leader Farmers (1 day)	-To enhance knowledge of efficient irrigation techniques, water-saving practices, and crop water requirements.  -To Enable practical application so leader farmers can manage water effectively and demonstrate improved irrigation practices in their fields.	- Select leader farmers for training. - Prepare and approve the training plan. - Mobilize trainers, manage materials, venue and logistics. - Approve training schedule and notify participants. - Coordinate with AULL and WUA and local authorities. - Maintain attendance, agenda, and administrative records. - Submit training report and feedback to higher authority.	At least 20 leader farmers trained in crop water management and capable of applying and demonstrating efficient irrigation practices in their fields.


  
 33-9  
 41  
 Rajendra Prasad Mishra (P.T.)  
 Secretary  
 Hon. Dr. Madan Prasad Pant  
 Minister

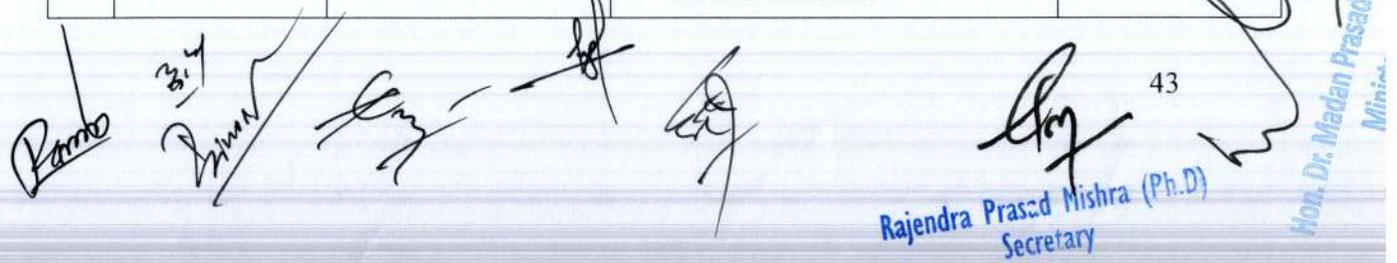
S.N	Activity	Objectives	Process of Implementation	Expected Outputs
7	Training on Post-harvest Management & Marketing of Agro-products for Leader Farmers (2 day2)	<ul style="list-style-type: none"> <li>-To enhance leader farmers' knowledge and skills on post-harvest handling, storage, and value addition of agro-products.</li> <li>-To improve farmers' understanding of marketing strategies to increase profitability and market access.</li> </ul>	<ul style="list-style-type: none"> <li>- Select leader farmers for training.</li> <li>- Prepare and approve the training plan.</li> <li>- Mobilize trainers, materials, and logistics.</li> <li>- Schedule training and notify participants.</li> <li>- Coordinate with AULL and WUA and local authorities.</li> <li>- Maintain attendance, agenda, and administrative records</li> <li>- Submit training report and feedback to higher authority.</li> </ul>	At least 20 leader farmers adopt improved post-harvest handling and marketing practices, resulting in reduced losses, better product quality, stronger market linkages, and increased farm income.
<b>b. Seed Multiplication Business</b>				
1	Seed Multiplication Business Demonstration on paddy (3 ha/ISP)	<ul style="list-style-type: none"> <li>-To demonstrate registered high quality certified paddy seed production for income generation</li> <li>-To enhance farmers' knowledge of seed production techniques, quality control and market linkage</li> <li>-To promote replication of seed multiplication practices in ISP command area</li> </ul>	<ul style="list-style-type: none"> <li>- Selection of appropriate demonstration sites</li> <li>- Demonstration planning (activities, variety, timing, indicators)</li> <li>- Field orientation</li> <li>- Seed and input arrangement</li> <li>- Demonstration execution</li> <li>- Standing crop monitoring, inspection as quality seed guideline and technical support</li> <li>- Seed certification and quality control</li> <li>- Documentation, feedback and reporting</li> </ul>	
2	Seed Multiplication Business Training for Leader Farmers (3 days)	-To develop leader farmers' skills in quality seed production and seed business management.	<ul style="list-style-type: none"> <li>- Select leader farmers for training.</li> <li>- Prepare and approve the training plan.</li> <li>- Mobilize trainers, materials, and logistics.</li> <li>- Schedule training and notify participants.</li> <li>- Coordinate with AULL and WUA and local authorities.</li> <li>- Maintain attendance, agenda, and administrative records.</li> <li>- Submit training report and feedback to higher authority.</li> </ul>	At least 20 leader farmers are capable of producing, managing, and marketing quality seed as a viable business.
3	Training on Seed Growing & Post-harvest Management for	-To enhance leader farmers' knowledge and skills in quality seed production and effective post-harvest	<ul style="list-style-type: none"> <li>- Select leader farmers for training.</li> <li>- Prepare and approve the training plan.</li> </ul>	At least 20 leader farmers gain practical skills in quality seed production, post-



42  
  
 Rajendra Prasad Mishra (Ph.D)  
 Secretary

Hon. Dr. Madan Prasad Paudyal  
 Minister

S.N	Activity	Objectives	Process of Implementation	Expected Outputs
	Leader Farmers (3 days)	management to maintain seed quality and reduce losses.	<ul style="list-style-type: none"> <li>- Mobilize trainers, materials, and logistics.</li> <li>- Schedule training and notify participants.</li> <li>- Coordinate with AULL and WUA and local authorities.</li> <li>- Maintain attendance, agenda, and administrative records.</li> <li>- Submit training report and feedback to higher authority.</li> </ul>	harvest handling, processing, storage, and quality maintenance.
4	Training on Price Negotiation and Marketing of Seed for Leader Farmers (1 days)	<ul style="list-style-type: none"> <li>- To enhance leader farmers' skills in negotiating fair prices for seeds.</li> <li>- To improve understanding of seed marketing strategies to increase sales and income.</li> </ul>	<ul style="list-style-type: none"> <li>- Select leader farmers for training.</li> <li>- Prepare and approve the training plan.</li> <li>- Mobilize trainers, materials, and logistics.</li> <li>- Schedule training and notify participants.</li> <li>- Coordinate with AULL and WUA and local authorities.</li> <li>- Maintain attendance, agenda, and administrative records.</li> <li>- Submit training report and feedback to higher authority.</li> </ul>	At least 20 leader farmers are able to effectively negotiate prices and market quality seed competitively and profitably.
<b>c. Green Manuring</b>				
1	Green Manuring Demonstrations (0.5 ha/ISP)	<ul style="list-style-type: none"> <li>- To demonstrate the uses of green manure crops to improve soil fertility, organic matter and crop productivity</li> <li>- To promote sustainable soil fertility management among farmers</li> </ul>	<ul style="list-style-type: none"> <li>- Selection of Demonstration sites</li> <li>- Demonstration planning (activities, crops, timing, indicators)</li> <li>- Field orientation</li> <li>- Seed and input arrangement</li> <li>- Demonstration Execution</li> <li>- Field monitoring and technical support</li> <li>- Documentation, feedback and reporting</li> </ul>	Individual farmers/WUAs/WUCs members nearby demonstration site understand importance of green manuring, feedback collected and green manuring adaptation plan initiated.
2	Training on Green Manuring Crop Cultivation for Leader Farmers (1 day)	<ul style="list-style-type: none"> <li>- To enhance leader farmers' knowledge and skills in green manuring crop cultivation and soil fertility improvement.</li> <li>- To promote adoption of green manuring practices for</li> </ul>	<ul style="list-style-type: none"> <li>- Select leader farmers for training.</li> <li>- Prepare and approve the training plan.</li> <li>- Mobilize trainers, materials, and logistics.</li> <li>- Schedule training and notify participants.</li> <li>- Coordinate with AULL and WUA and local authorities.</li> </ul>	At least 20 leader farmers trained, feedback collected, and green manuring adoption plan initiated.



43  
 Rajendra Prasad Mishra (Ph.D)  
 Secretary

Hon. Dr. Madan Prasad Pantar  
 Minister

S.N	Activity	Objectives	Process of Implementation	Expected Outputs
		sustainable crop production.	<ul style="list-style-type: none"> <li>Maintain attendance, agenda, and administrative records.</li> <li>Submit training report and feedback to higher authority.</li> </ul>	
<b>d. Minimum Tillage</b>				
1	Minimum Tillage Demonstrations (0.5 ha/ISP in wheat)	<ul style="list-style-type: none"> <li>To demonstrate reduced land preparation cost, fuel use, and labor through minimum soil disturbance.</li> <li>To show improved soil moisture conservation and comparable or better crop performance under minimum tillage.</li> </ul>	<ul style="list-style-type: none"> <li>Selection of Demonstration sites</li> <li>Demonstration planning (activities, crops, timing, indicators)</li> <li>Field orientation</li> <li>Seed and input arrangement</li> <li>Demonstration Execution</li> <li>Field monitoring and technical support</li> <li>Documentation, feedback and reporting</li> </ul>	Individual farmers/WUAs/WUCs members nearby demonstration site understand importance of soil conservation, their feedback collected and minimum tillage adaptation plan initiated.
2	Training on Minimum Tillage and Benefits for Leader Farmers (1 day)	<ul style="list-style-type: none"> <li>To enhance leader farmers' knowledge and skills on minimum tillage techniques.</li> <li>To promote adoption of minimum tillage to improve soil health, reduce labor, and increase crop productivity.</li> </ul>	<ul style="list-style-type: none"> <li>Select leader farmers for training.</li> <li>Prepare and approve the training plan.</li> <li>Mobilize trainers, materials, and logistics.</li> <li>Schedule training and notify participants.</li> <li>Coordinate with AULL and WUA and local authorities.</li> <li>Maintain attendance, agenda, and administrative records.</li> <li>Submit training report and feedback to higher authority.</li> </ul>	At least 20 leader farmers trained, understanding of minimum tillage techniques improved, and adoption of practices initiated.
<b>e. Plastic Mulch Demonstrations</b>				
1	Plastic Mulch Demonstrations (0.25 ha/ISP)	<ul style="list-style-type: none"> <li>To demonstrate moisture conservation, weed suppression, and improved micro-climate for better crop growth and yield.</li> <li>To show reduction in irrigation frequency, labor for weeding, and enhanced input-use efficiency</li> </ul>	<ul style="list-style-type: none"> <li>Selection of Demonstration sites</li> <li>Demonstration planning (activities, crops, timing, indicators)</li> <li>Field orientation</li> <li>Seed and input arrangement</li> <li>Demonstration Execution</li> <li>Field monitoring and technical support</li> <li>Documentation, feedback and reporting</li> </ul>	Individual farmers/WUAs/WUCs members nearby demonstration site understand importance of crop competence capacity development through moisture conservation, weed suppression and improved micro-climate, feedback

*Pamo*

214

*Singh*

*[Signature]*

*[Signature]*

*[Signature]*

44  
*[Signature]*

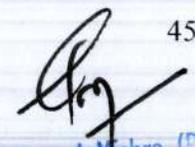
Rajendra Prasad Mishra (Ph.D)  
Secretary

Hon. Dr. Madan Prasad Pantwar

S.N	Activity	Objectives	Process of Implementation	Expected Outputs
		compared to traditional practices.		collected and plastic mulch adaptation plan initiated.
2	Training on Plastic Mulching and Benefits for Leader Farmers (1 day)	<ul style="list-style-type: none"> <li>- To enhance leader farmers' knowledge and skills on plastic mulching techniques.</li> <li>- To promote adoption of plastic mulching to conserve soil moisture, control weeds, and improve crop yield.</li> </ul>	<ul style="list-style-type: none"> <li>- Select leader farmers for training.</li> <li>- Prepare and approve the training plan.</li> <li>- Mobilize trainers, materials, and logistics.</li> <li>- Schedule training and notify participants.</li> <li>- Coordinate with AULL and WUA and local authorities.</li> <li>- Maintain attendance, agenda, and administrative records.</li> <li>- Submit training report and feedback to higher authority.</li> </ul>	At least 20 leader farmers trained, skills in plastic mulching improved, and adoption of mulching practices initiated.
<b>f. Nature Based Protection (bamboo/vetiver)</b>				
1	Nature Based Protection (bamboo/vetiver)	<ul style="list-style-type: none"> <li>- To reduce soil erosion, riverbank cutting, and slope instability using nature-based solutions.</li> <li>- To enhance ecosystem services and climate resilience while protecting local infrastructure and farmland.</li> </ul>	<ul style="list-style-type: none"> <li>- Site selection and risk assessment of erosion-, flood-, or landslide-prone areas.</li> <li>- Species selection (suitable bamboo/vetiver varieties) and plantation design/layout.</li> <li>- Community consultation and land preparation along riverbanks, canals, slopes, or embankments.</li> <li>- Nursery raising/procurement of quality planting materials.</li> <li>- Plantation and bio-engineering works (contour planting, trenching, bunding).</li> <li>- Protection and maintenance (fencing, weeding, gap filling).</li> <li>- Monitoring, survival assessment, and capacity building of local users for upkeep.</li> </ul>	Stabilized riverbanks/slopes with established bamboo and vetiver cover.  Reduced erosion and flood damage, with improved land productivity and community resilience.
2	Training on Site Selection & Planting Bamboo/Vetiver for Leader Farmers (1 day)	<ul style="list-style-type: none"> <li>- To enhance leader farmers' knowledge and skills in selecting suitable sites for bamboo and vetiver planting.</li> <li>- To promote proper planting techniques to ensure survival.</li> </ul>	<ul style="list-style-type: none"> <li>- Select leader farmers for training.</li> <li>- Prepare and approve the training plan.</li> <li>- Mobilize trainers, materials, and logistics.</li> <li>- Schedule training and notify participants.</li> <li>- Coordinate with AULL and WUA and local authorities.</li> </ul>	At least 20 leader farmers trained, site selection and planting skills improved, and bamboo/vetiver plantation practices initiated.

*Handwritten signatures and initials in the bottom left corner.*

*Handwritten signatures and initials in the bottom center.*

45  
  
**Rajendra Prasad Mishra**  
 Secretary

Hon. Dr. Madan Prasad Periyar  
 Minister

S.N	Activity	Objectives	Process of Implementation	Expected Outputs
		growth, and soil/water conservation benefits.	<ul style="list-style-type: none"> <li>- Maintain attendance, agenda, and administrative records.</li> <li>- Submit training report and feedback to higher authority.</li> </ul>	
<b>g.</b>	Biogas Awareness Campaign			
<b>1</b>	Biogas Awareness Campaign			
<b>2</b>	Training on Biogas Operation and Management for Leader Farmers (1 day)	<ul style="list-style-type: none"> <li>- To enhance leader farmers' knowledge and skills in operating and managing biogas plants efficiently.</li> <li>- To promote proper maintenance and utilization of biogas for energy and organic slurry benefits.</li> </ul>	<ul style="list-style-type: none"> <li>- Select leader farmers for training.</li> <li>- Prepare and approve the training plan.</li> <li>- Mobilize trainers, materials, and logistics.</li> <li>- Schedule training and notify participants.</li> <li>- Coordinate with AULL and WUA and local authorities.</li> <li>- Maintain attendance, agenda, and administrative records.</li> <li>- Submit training report and feedback to higher authority.</li> </ul>	At least 20 leader farmers trained, operational and management skills improved, and adoption of biogas use and maintenance practices initiated.
<b>h.</b>	Soil Testing			
<b>1</b>	Soil Testing (30 samples/ISP focusing on seed production pockets)	<ul style="list-style-type: none"> <li>- To assess soil fertility status of seed production pockets to guide balanced nutrient management.</li> <li>- To improve seed quality and productivity through soil test-based recommendations.</li> </ul>	<ul style="list-style-type: none"> <li>- Identification and mapping of seed production pockets and representative fields under each ISP.</li> <li>- Orientation of farmers and technicians on proper soil sampling methods and timing.</li> <li>- Collection of 30 composite soil samples following standard depth and grid/field approach.</li> <li>- Labeling, documentation, and transport of samples to accredited soil testing laboratories.</li> <li>- Laboratory analysis for key parameters (pH, OM, N, P, K, and relevant micronutrients).</li> <li>- Compilation, interpretation, and validation of soil test results.</li> <li>- Preparation and dissemination of soil health cards and crop-/seed-specific nutrient recommendations.</li> </ul>	<p>Soil test reports for 30 samples with crop-/seed-specific nutrient recommendations.</p> <p>Improved soil fertility management practices adopted in targeted seed production pockets.</p>
<b>2</b>	Training on Soil Sampling Technique for AKC/ADO and	<ul style="list-style-type: none"> <li>- To build staff capacity in proper soil sampling techniques for</li> </ul>	<ul style="list-style-type: none"> <li>- Select participants and finalize the training plan.</li> </ul>	Trained AKC/ADO and AULL staff proficient in soil sampling and

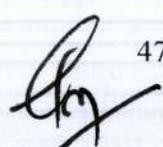
*Ramb*

*3.4*  
*D. W. N. /*

*[Handwritten signatures]*

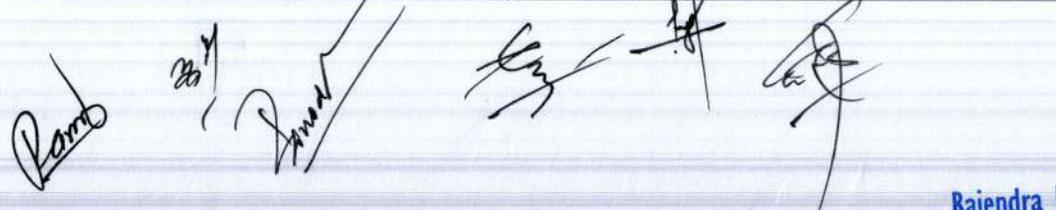
*[Handwritten signature]*

S.N	Activity	Objectives	Process of Implementation	Expected Outputs
	AULL Staffs (1 day)	accurate soil analysis. - To enable staff to guide farmers and local authorities in soil testing and nutrient management.	- Mobilize trainers, materials, and logistics; coordinate with local authorities. - Conduct training on soil sampling methods, sample handling, and data recording; maintain attendance and records. - Collect feedback and submit the training report to higher authorities.	record-keeping for field level application
3	Training on Soil Sampling Technique for Leader Farmers (1 day)	- To enhance leader farmers' knowledge and skills in proper soil sampling methods. - To enable farmers to assess soil health and nutrient status for informed crop management decisions.	- Select leader farmers for training. - Prepare and approve the training plan. - Mobilize trainers, materials, and logistics. - Schedule training and notify participants. - Coordinate with AULL and WUA and local authorities. - Maintain attendance, agenda, and administrative records. - Submit training report and feedback to higher authority.	At least 20 leader farmers trained, soil sampling skills improved, and ability to make soil-based crop management decisions initiated.
<b>i. Crop Cutting</b>				
1	Crop Cutting (Paddy, Wheat, Maize in the 1st & last year of project)	- To accurately estimate crop yields of paddy, wheat, and maize to monitor project impact. - To provide baseline and end-line data for planning and evaluation of interventions.	- Selection of representative plots for paddy, wheat, and maize in the project area. - Orientation of field staff and enumerators on standard crop-cutting methodology. - Demarcation of sample plots as per prescribed size and protocol. - Harvesting, threshing, and weighing of produce from sample plots. - Recording of yield data and moisture correction, if required. - Data compilation, verification, and analysis for baseline (1st year) and end-line (last year) comparison.	Verified yield data for selected crops at the start and end of the project.  Evidence-based assessment of productivity improvements and project impact.
2	Training on Sample Crop Cutting for AKC/ADO & AULL Staffs (1 day)	- To build staff capacity in conducting accurate sample crop cutting for production estimation. - To enable staff to support farmers and	- Select participants and finalize the training plan. - Mobilize trainers, materials, and logistics; coordinate with local authorities. - Conduct training on sample crop cutting methods, data recording, and	Trained AKC/ADO and AULL staff proficient in sample crop cutting and yield estimation for field level application

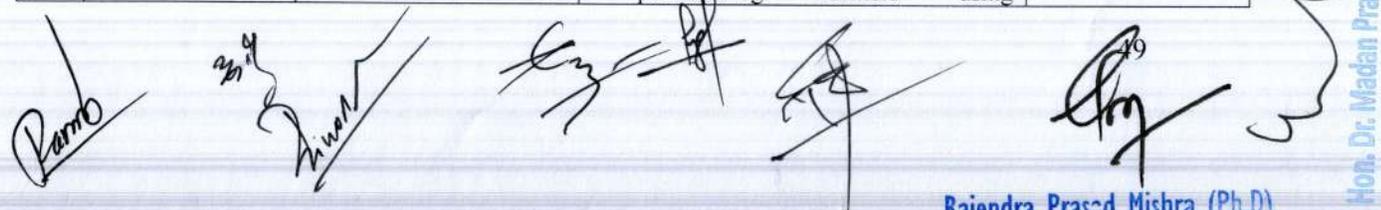
  
 47  
**Rajendra Prasad Mishra (Ph.D)**  
 Secretary

Hon. Dr. Madan Prasad Puriyar  
 Minister

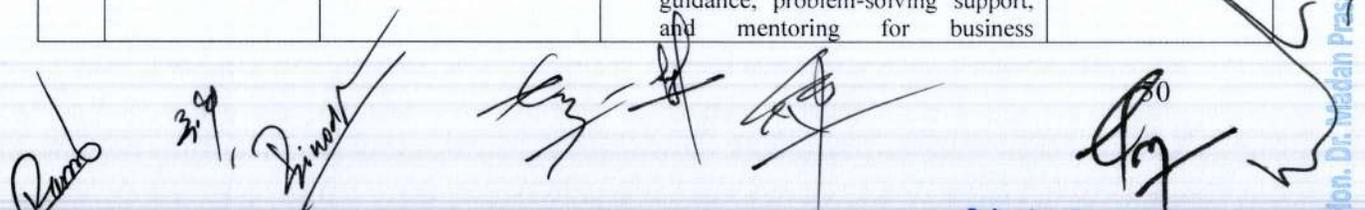
S.N	Activity	Objectives	Process of Implementation	Expected Outputs
		local authorities in crop monitoring and data collection.	yield estimation; maintain attendance and records. - Collect feedback and submit the training report to higher authorities.	
3	Training on Sample Crop Cutting and Yield Estimation technique for Leader Farmers (1 day)	<ul style="list-style-type: none"> <li>- To enhance leader farmers' skills in conducting sample crop cutting accurately.</li> <li>- To enable farmers to estimate crop yield for better planning and decision-making.</li> </ul>	<ul style="list-style-type: none"> <li>- Select leader farmers for training.</li> <li>- Prepare and approve the training plan.</li> <li>- Mobilize trainers, materials, and logistics.</li> <li>- Schedule training and notify participants.</li> <li>- Coordinate with AULL and WUA and local authorities.</li> <li>- Maintain attendance, agenda, and administrative records.</li> <li>- Submit training report and feedback to higher authority.</li> </ul>	At least 20 leader farmers trained, crop cutting and yield estimation skills improved, and accurate yield assessment practices initiated.
<b>k. Opportunities for Consolidated Farming</b>				
1	Introduction Opportunities for Consolidated Farming	<ul style="list-style-type: none"> <li>- To optimize land use and farm efficiency through consolidated farming.</li> <li>- To enhance productivity, reduce input costs, and improve market access for smallholder farmers.</li> </ul>	<ul style="list-style-type: none"> <li>- Identify fragmented lands and willing farmers.</li> <li>- Conduct feasibility and community analysis.</li> <li>- Form farmer groups/cooperatives.</li> <li>- Plan resource use and consolidation layout.</li> <li>- Train farmers on group farming and shared inputs.</li> <li>- Implement pilot consolidated plots.</li> <li>- Monitor adoption and productivity improvements.</li> </ul>	Functional farmer groups practicing consolidated farming.  Increased crop productivity, resource-use efficiency, and collective marketing benefits.
2	Training on Documents and Maps Gathering & Analysis for AKC/ADO, AULL & WUC Staffs (2 days)	<ul style="list-style-type: none"> <li>- To build staff capacity in gathering, analyzing, and interpreting land documents and maps.</li> <li>- To enable staff to support WUCs and local authorities in land planning and management decisions</li> </ul>	<ul style="list-style-type: none"> <li>- Select participants and finalize the training plan.</li> <li>- Mobilize trainers, materials, and logistics; coordinate with local authorities.</li> <li>- Conduct training on collecting, organizing, and analyzing land documents and maps; maintain attendance and records.</li> <li>- Collect feedback and submit the training report to higher authorities.</li> </ul>	Trained AKC/ADO, AULL, and WUC staff skilled in documents and maps analysis for field level application
3	Training on Field Inventory and Record Keeping	<ul style="list-style-type: none"> <li>- To strengthen staff capacity in conducting field</li> </ul>	<ul style="list-style-type: none"> <li>- Select participants and finalize the training plan.</li> </ul>	Trained AKC/ADO, AULL, and WUC


  
 48  
 Rajendra Prasad Mishra (Ph.D)  
 Secretary  
 Hon. Dr. Madan Prasad Bishyar  
 Minister

S.N	Activity	Objectives	Process of Implementation	Expected Outputs
	of Land for AKC/ADO, AULL & WUC Staffs (3 days)	<ul style="list-style-type: none"> <li>inventory and maintaining accurate land records.</li> <li>To enable staff to support WUCs and local authorities in proper documentation and land management.</li> </ul>	<ul style="list-style-type: none"> <li>Mobilize trainers, materials, and logistics; coordinate with local authorities.</li> <li>Conduct training on field surveying, data collection, land inventory preparation, and record-keeping procedures; maintain attendance and records.</li> <li>Collect feedback and submit the training report to higher authorities.</li> </ul>	staff proficient in land inventory and record-keeping for field level application
4	Training on Planning of Infrastructures for AKC/ADO, AULL & WUC Staffs (6 days)	<ul style="list-style-type: none"> <li>To build staff capacity in planning, designing, and managing agricultural infrastructures.</li> <li>To enable staff to assist farmers, AKC/ADO, and WUCs in effective infrastructure development and management.</li> </ul>	<ul style="list-style-type: none"> <li>Select participants and finalize the training plan.</li> <li>Mobilize trainers, materials, and logistics; coordinate with local authorities.</li> <li>Conduct training on site selection, design, budgeting, and maintenance planning of agricultural infrastructures; maintain attendance and records.</li> <li>Collect feedback and submit the training report to higher authorities.</li> </ul>	Trained staff capable of planning and supporting agricultural infrastructure projects and production activity
5	Training on Standards for Valuation of Land for Redistribution for AKC/ADO, AULL & WUC Staffs (3 days)	<ul style="list-style-type: none"> <li>To build capacity of staff in applying standardized methods for land valuation and redistribution.</li> <li>To enable staff to assist local authorities and WUCs in equitable and accurate land redistribution.</li> </ul>	<ul style="list-style-type: none"> <li>Select participants and finalize the training plan.</li> <li>Mobilize trainers, materials, and logistics; coordinate with local authorities.</li> <li>Conduct training on land valuation methods, standards, record-keeping, and redistribution procedures; maintain attendance and records.</li> <li>Collect feedback and submit the training report to higher authorities.</li> </ul>	Trained AKC/ADO, AULL, and WUC staff capable of implementing land valuation and redistribution standards.
6	Surveys for participating farmers	<ul style="list-style-type: none"> <li>To gather baseline information on farmers' socio-economic status, farming practices, crop choices, input use, and constraints.</li> <li>To identify priority needs and tailor interventions for maximum impact.</li> <li>To monitor changes in knowledge, adoption, and</li> </ul>	<ul style="list-style-type: none"> <li><b>Survey Design &amp; Planning</b> (Define objectives, target group, and survey scope, develop structured questionnaires covering demographics, landholding, crop patterns, inputs, income sources, and challenges, Pilot test the questionnaire with a small farmer group and revise as needed.)</li> <li><b>Enumerator Training</b> (Train field staff/extension workers on survey objectives, question interpretation, interview techniques, and ethical considerations.)</li> <li><b>Farmer Selection</b> (Identify participating farmers using</li> </ul>	Baseline data, needs assessment, farmer database, and recommendations for targeted training and interventions.

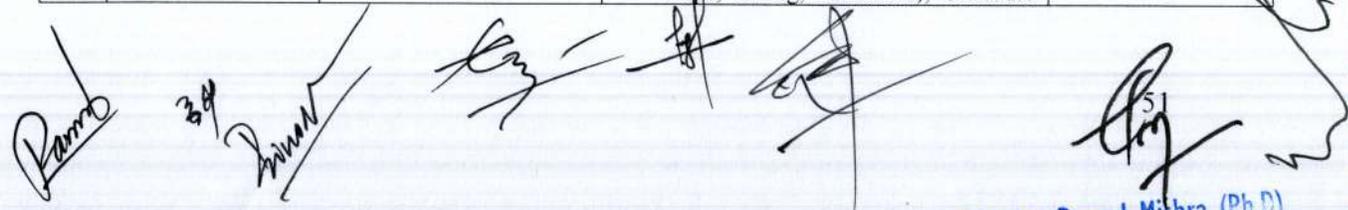


S.N	Activity	Objectives	Process of Implementation	Expected Outputs
		<p>productivity over the project period.</p>	<p>project criteria (e.g., location, crop type, gender inclusivity), Ensure random sampling for representativeness if required.)</p> <ul style="list-style-type: none"> <li>- <b>Data Collection</b> (Conduct face-to-face interviews or focus group discussions as per methodology), Use digital tools (mobile data collection apps) where possible for accuracy and speed.</li> <li>- <b>Data Verification &amp; Cleaning</b> (Review collected data for completeness and accuracy, Cross-check with field staff and resolve inconsistencies.)</li> <li>- <b>Data Analysis</b> (Analyze data to identify patterns, gaps, and needs, Generate statistical summaries, charts, and maps where relevant.)</li> <li>- <b>Reporting &amp; Feedback</b> (Prepare a survey report highlighting key findings and recommendations, share results with farmers and stakeholders to validate and enhance engagement)</li> </ul>	
I.	Support for enterprise development (1 day)	<ul style="list-style-type: none"> <li>- To enhance farmers' income and livelihoods through development of viable agro-enterprises.</li> <li>- To strengthen entrepreneurial skills, market linkages, and access to finance.</li> <li>- To promote sustainable and scalable farming-based businesses.</li> </ul>	<ul style="list-style-type: none"> <li>- <b>Assessment of Enterprise Opportunities</b> (Identify potential enterprises based on local resources, market demand, and farmer capacity; Conduct feasibility studies for priority crops/products.</li> <li>- <b>Capacity Building &amp; Training</b> (Train farmers on enterprise planning, production techniques, value addition, and business management; Provide exposure visits or demonstrations of successful models.)</li> <li>- <b>Financial &amp; Input Support</b> (Facilitate access to credit, grants, or subsidies for start-up inputs and equipment; Link farmers with input suppliers and service providers.</li> <li>- <b>Market Linkage Development</b> (Identify and connect farmers to local, regional, or niche markets; Support contract farming or cooperative-based marketing where feasible)</li> <li>- <b>Enterprise Mentoring &amp; Follow-up</b> (Provide on-going technical guidance, problem-solving support, and mentoring for business</li> </ul>	<p>Feasibility assessment, trained farmers, market linkages, access to finance, and functional income-generating enterprises.</p>

  
**Rajendra Prasad Mishra (Ph.D)**  
 Secretary

Hon. Dr. Madan Prasad Pantyar

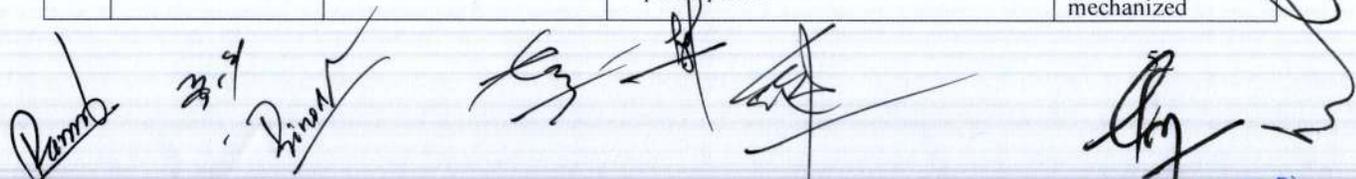
S.N	Activity	Objectives	Process of Implementation	Expected Outputs
			operations; Monitor production, sales, and financial performance)	
<b>3.3</b>	<b>DEMONSTRATIONS AND TRAINING FOR MACHINERY AND FACILITIES</b>			
<b>a.</b>	Agriculture Machinery and Equipment			
<b>1</b>	Agricultural Machinery Demonstrations (in 3 seasons/AKC/AD Ofor 2 crop years)	<ul style="list-style-type: none"> <li>- To demonstrate efficiency gains in land preparation, planting, weeding, harvesting, and post-harvest operations through modern machinery.</li> <li>- To promote reduction in labor cost, time, and drudgery while improving timeliness and quality of agricultural operations.</li> <li>- To build farmer and WUC capacity to adopt appropriate mechanization technologies suitable for IMEP command areas.</li> </ul>	<p><b>A. Procurement of Machinery:</b></p> <ul style="list-style-type: none"> <li>- Needs Assessment (Identify machinery requirements (e.g., seeders, reapers, threshers, irrigation equipment) based on crop plans and farmer demand, Consult WUAs, cooperatives, extension units, and NAMP clusters.)</li> <li>- Specification Development (Prepare detailed technical specifications and performance standards, Ensure alignment with national standards and suitability to local conditions.</li> <li>- Procurement Planning (Include machinery in annual/quarterly procurement plans, Select procurement method (shopping, NCB, framework agreement, etc.).)</li> <li>- Bidding and Supplier Selection (Prepare bidding documents and invite suppliers, evaluate bids based on technical compliance, cost, warranty, and after-sales service.)</li> <li>- Contract Award and Delivery (Finalize contracts, ensure timely delivery, Inspect machinery at delivery for quality and compliance with specifications.)</li> <li>- Installation, Testing, and Certification (Install machinery at demonstration sites or service centers, Conduct field testing and operational verification.)</li> </ul> <p><b>B. Demonstration of Machinery</b></p> <ul style="list-style-type: none"> <li>- Selection of Demonstration Sites (Identify representative locations across command areas, Select lead farmers, cooperatives, or WUAs with good access and mobilization capacity.)</li> <li>- Demonstration Planning (Prepare demonstration protocols (activities, crops, timing, indicators), Schedule</li> </ul>	Farmers and WUA/WUC members gain practical knowledge on agricultural machinery, enhancing community mechanization capacity; feedback guides wider adoption and scaling-up support.



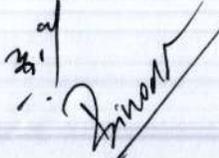
Rajendra Prasad Mishra (Ph.D)  
 Secretary

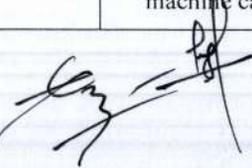
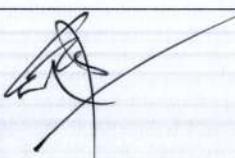
Hon. Dr. Madan Prasad Pariyar

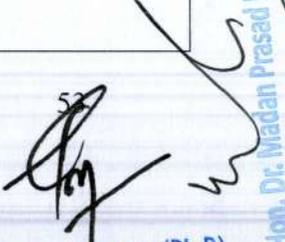
S.N	Activity	Objectives	Process of Implementation	Expected Outputs
			<p>demonstrations aligned with crop calendar and irrigation availability)</p> <ul style="list-style-type: none"> <li>- Training and Field Orientation (Train farmers, machinery operators, and extension staff, Orient WUAs and cooperatives on operational procedures and benefits.)</li> <li>- Demonstration Execution (Conduct field demonstrations with active farmer participation, Showcase operational efficiency, cost savings, and productivity benefits.)</li> <li>- Documentation and Feedback (Record results, photos, and farmer feedback, Assess performance, challenges, and scalability potential)</li> </ul> <p><b>C. Handover and Post-Demonstration Support</b></p> <ul style="list-style-type: none"> <li>- Prepare a formal handover process document and operation and maintenance (O&amp;M) guidelines.</li> <li>- Handover machinery to the designated Water User Association/WUC/Agriculture Production and Value Chain Support Sub-committee agreed terms.</li> <li>- Define post-handover responsibilities, including operation, maintenance, cost recovery, and reporting.</li> </ul>	
2	Agricultural Machinery Training for AKC/ADO & WUC Staffs (1 day)	<ul style="list-style-type: none"> <li>- To build capacity of AKC/ADO and WUC staff in operating and maintaining agricultural machinery efficiently.</li> <li>- To enable staff to guide farmers in proper usage, safety, and maintenance of machinery.</li> </ul>	<ul style="list-style-type: none"> <li>- Select participants and approve the training plan.</li> <li>- Mobilize trainers, machinery, tools, and logistics; coordinate with local authorities.</li> <li>- Conduct training on operation, maintenance, safety, and troubleshooting of agricultural machinery; maintain attendance and records.</li> <li>- Collect feedback and submit the training report to higher authorities.</li> </ul>	Trained staff proficient in agricultural machinery operation, maintenance, and safety.
3	Agricultural Machinery Training for Leader Farmers (1 day)	<ul style="list-style-type: none"> <li>- To enhance leader farmers' knowledge and skills in operating and maintaining agricultural machinery.</li> </ul>	<ul style="list-style-type: none"> <li>- Select leader farmers for training.</li> <li>- Prepare and approve the training plan.</li> <li>- Mobilize trainers, materials, and logistics.</li> <li>- Schedule training and notify participants.</li> </ul>	At least 20 leader farmers trained, machinery operation and maintenance skills improved, and adoption of mechanized

  
**Rajendra Prasad Mishra (Ph.D)**  
**Secretary**

S.N	Activity	Objectives	Process of Implementation	Expected Outputs
		<ul style="list-style-type: none"> <li>- To promote efficient use of machinery to increase productivity and reduce labor.</li> </ul>	<ul style="list-style-type: none"> <li>- Coordinate with AULL and WUA and local authorities.</li> <li>- Maintain attendance, agenda, and administrative records.</li> <li>- Submit training report and feedback to higher authority.</li> </ul>	farming practices initiated.
4	Custom Hiring Center Training for WUC (3 days)	<ul style="list-style-type: none"> <li>- To strengthen WUC capacity to plan, manage, and oversee CHC services for efficient farm mechanization.</li> <li>- To improve transparency, sustainability, and equitable access to CHC services for member farmers.</li> </ul>	<ul style="list-style-type: none"> <li>- Select WUAs/WUCs and nominate trainees.</li> <li>- Assess WUC training needs.</li> <li>- Develop WUC-focused CHC training module.</li> <li>- Orient WUC on CHC roles and guidelines.</li> <li>- Train on CHC operation and scheduling.</li> <li>- Train on finance, pricing, and cost recovery.</li> <li>- Train on records, MIS, and reporting.</li> <li>- Orient on transparency and accountability.</li> <li>- Assess learning outcomes.</li> <li>- Provide follow-up mentoring.</li> </ul>	<p>WUC members trained on CHC governance, financial management, and service oversight.</p> <p>Functioning CHC under WUC with clear roles, records, and accountable service delivery.</p>
5	Modernization of Custom Hiring Center Training for Operators (3 days)	<ul style="list-style-type: none"> <li>- To enhance operators' skills for safe, efficient, and professional operation of modern farm machinery.</li> <li>- To improve service quality, machine uptime, and cost-effectiveness of CHC operations through skilled operators.</li> </ul>	<ul style="list-style-type: none"> <li>- Assess individual operator skills on machinery operation and maintenance.</li> <li>- Orient the operator on modern CHC objectives, service standards, and roles.</li> <li>- Train the operator on safe and efficient operation of modern farm machinery.</li> <li>- Build operator capacity on basic repair, preventive maintenance, and calibration.</li> <li>- Train the operator on digital booking, logbooks, and service records.</li> <li>- Sensitize the operator on fuel efficiency, cost control, and machine care.</li> <li>- Provide training on occupational safety and environmental compliance.</li> <li>- Evaluate operator performance through practical skill tests.</li> <li>- Certify the operator for specific machine categories.</li> </ul>	<p>CHC operators certified in modern machinery operation, safety, and basic maintenance.</p> <p>Improved machine utilization, reduced breakdowns, and better record keeping at CHC level.</p>

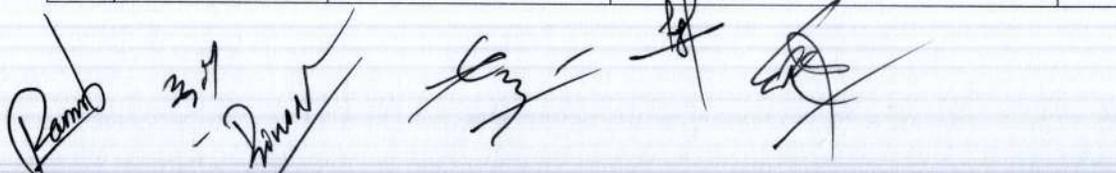
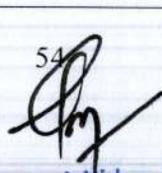





**Rajendra Prasad Mishra (Ph.D)**  
 Secretary

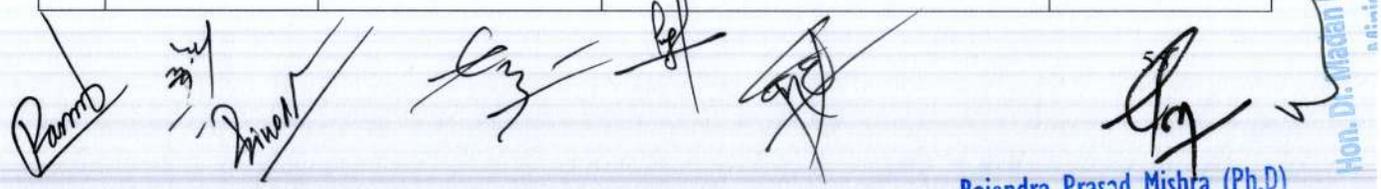
Hon. Dr. Madan Prasad Pariyar

S.N	Activity	Objectives	Process of Implementation	Expected Outputs
			- Provide on-the-job coaching	
<b>b.</b>	<b>Training and Support for Agriculture Facilities</b>			
1	Training on Modernization of Agriculture Collection Center for AKC/ADO, AULL & WUC Staffs (3 days)	<ul style="list-style-type: none"> <li>- To build capacity of staff in modern management, operation, and maintenance of agriculture collection centers.</li> <li>- To enable staff to support farmers and WUCs in efficient storage, handling, and marketing of agricultural produce.</li> </ul>	<ul style="list-style-type: none"> <li>- Select participants and approve the training plan.</li> <li>- Mobilize trainers, training materials, and logistics; coordinate with WUAs and local authorities.</li> <li>- Conduct training on modern collection center practices, inventory management, storage, and quality control; maintain attendance and records.</li> <li>- Collect feedback and submit the training report to higher authorities.</li> </ul>	Trained AKC/ADO, AULL, and WUC staff capable of managing modernized collection centers.
2	Training on Management of Agriculture Collection Center for AKC/ADO, AULL & WUC Staffs (3 days)	<ul style="list-style-type: none"> <li>- To strengthen staff capacity in managing agriculture collection centers efficiently.</li> <li>- To enable staff to support farmers and WUCs in proper storage, handling, and documentation of produce.</li> </ul>	<ul style="list-style-type: none"> <li>- Select participants and finalize the training plan.</li> <li>- Mobilize trainers, materials, and logistics; coordinate with authorities.</li> <li>- Conduct training on day-to-day management, record keeping, storage, and quality control; maintain attendance and records.</li> <li>- Collect feedback and submit the training report to higher authorities.</li> </ul>	Trained AKC/ADO, AULL, and WUC staff capable of managing collection centers effectively.
3	Training on Post-harvest Management & Marketing of Agro-products for AKC/ADO, AULL & WUC Staffs (3 days)	<ul style="list-style-type: none"> <li>- To enhance staff capacity in post-harvest management, value addition, and marketing of agro-products.</li> <li>- To enable staff to guide farmers on reducing post-harvest losses and improving market access.</li> </ul>	<ul style="list-style-type: none"> <li>- Select participants and finalize the training plan.</li> <li>- Mobilize trainers, materials, and logistics; coordinate with authorities.</li> <li>- Conduct training sessions on post-harvest handling, storage, value addition, and marketing; maintain attendance and records.</li> <li>- Collect feedback and submit the training report to higher authorities.</li> </ul>	Trained AKC/ADO, AULL, and WUC staff with practical knowledge on post-harvest management and marketing.
4	Polyhouse Demonstration (10 m x 6 m)	<ul style="list-style-type: none"> <li>- To demonstrate controlled-environment crop production to increase yield, quality, and off-season production.</li> <li>- To promote farmer awareness and</li> </ul>	<ul style="list-style-type: none"> <li>- Site Selection &amp; Specification: Select suitable site and prepare technical specifications and cost estimate.</li> <li>- Procurement: Issue RFQ/tender, evaluate bids, and select vendor as per procedures.</li> <li>- Delivery &amp; Inspection: Receive materials and verify quality against specifications.</li> </ul>	Individual farmers/WUAs/WUCs members aware of protected cultivation technique, feedback collected and polyhouse cultivation

  
 54  
  
**Rajendra Prasad Mishra (Ph.D.)**  
 Secretary

Hon. Dr. Mahesh Prasad Pariyar  
 Director

S.N	Activity	Objectives	Process of Implementation	Expected Outputs
		adoption of polyhouse technology through practical learning on operation, management, and benefits.	<ul style="list-style-type: none"> <li>- Site Preparation: Level site, mark layout, and prepare foundation and utilities.</li> <li>- Installation: Construct poly house structure, fix covering, and install irrigation system; test functionality.</li> <li>- Training &amp; Demonstration: Orient farmers on operation and crop management inside poly house.</li> <li>- Monitoring: Track performance, document results, and capturing farmer feedback.</li> </ul>	adaptation plan initiated.
5	Polyhouse Farming & Micro-irrigation Training for AKC/ADO and AULL Staffs (3 days)	<ul style="list-style-type: none"> <li>- To build technical capacity of AKC/ADO and AULL staff in polyhouse farming and micro-irrigation management.</li> <li>- To enable staff to provide advisory support and practical guidance to farmers.</li> </ul>	<ul style="list-style-type: none"> <li>- Select participants and approve training plan.</li> <li>- Mobilize trainers, materials, and logistics; coordinate with authorities.</li> <li>- Conduct training; maintain attendance and records.</li> <li>- Submit training report and feedback to the higher agencies.</li> </ul>	Trained staff capable of operating and demonstrating polyhouse and micro-irrigation systems.
6	Polyhouse Farming & Micro-irrigation Training for Leader Farmers (3 days)	<ul style="list-style-type: none"> <li>- To enhance leader farmers' knowledge and skills in polyhouse farming techniques and micro-irrigation systems.</li> <li>- To promote adoption of protected cultivation and efficient water management to increase crop yield and quality.</li> </ul>	<ul style="list-style-type: none"> <li>- Select leader farmers for training.</li> <li>- Prepare and approve the training plan.</li> <li>- Mobilize trainers, materials, and logistics.</li> <li>- Schedule training and notify participants.</li> <li>- Coordinate with AULL and WUA and local authorities.</li> <li>- Maintain attendance, agenda, and administrative records.</li> <li>- Submit training report and feedback to higher authority.</li> </ul>	At least 20 leader farmers trained, skills in polyhouse farming and micro-irrigation improved, and adoption of protected cultivation practices initiated.
7	Polyhouse Training on Crop & Water Management & Marketing for Leader Farmers (2 days)	<ul style="list-style-type: none"> <li>- To enhance leader farmers' skills in managing crops and water efficiently in polyhouse conditions.</li> <li>- To improve understanding of marketing strategies for polyhouse-grown produce to increase profitability.</li> </ul>	<ul style="list-style-type: none"> <li>- Select leader farmers for training.</li> <li>- Prepare and approve the training plan.</li> <li>- Mobilize trainers, materials, and logistics.</li> <li>- Schedule training and notify participants.</li> <li>- Coordinate with AULL and WUA and local authorities.</li> <li>- Maintain attendance, agenda, and administrative records.</li> </ul>	At least 20 leader farmers trained, crop and water management skills improved, and marketing practices for polyhouse produce initiated.



Rajendra Prasad Mishra (Ph.D)  
Secretary

Hon. Dr. Madan Prasad Pantyar  
Director

S.N	Activity	Objectives	Process of Implementation	Expected Outputs
			- Submit training report and feedback to higher authority.	
8	Other Agriculture Facilities Training and Support			
3.4	<b>PROCUREMENT OF AGRICULTURE FACILITIES (UPSCALING) (85% project 15% beneficiaries)</b>			
a.	Procurement of Polyhouses for Demonstrations (100% financing)	<ul style="list-style-type: none"> <li>- To demonstrate improved crop growth, yield, and year-round production through controlled temperature, humidity, and protection from rain, wind, and pests.</li> <li>- To show increased resource-use efficiency (water, nutrients, space) and reduced production risks compared to open-field farming.</li> <li>- To promote adoption of high-value crops (vegetables, nursery raising, off-season production) to enhance farmer income.</li> </ul>	<ul style="list-style-type: none"> <li>- Site and beneficiary selection</li> <li>- Demonstration planning (activities, crops, timing, polyhouse establishment, indicators)</li> <li>- Field orientation</li> <li>- Seed and input arrangement</li> <li>- Demonstration Execution</li> <li>- Field monitoring and technical support</li> <li>- Documentation, feedback and reporting</li> </ul>	
b.	Upscaling of Polyhouses through Partial Investment Subsidies (85%@15%)	<ul style="list-style-type: none"> <li>- To promote wider adoption of controlled-environment farming by supporting farmers with demonstrations and financial assistance.</li> <li>- To increase crop productivity, quality, and off-season production through expanded use of polyhouse technology.</li> </ul>	<ul style="list-style-type: none"> <li>- Identification &amp; Selection (Screen proposals, verify site suitability (land, water, access), and select eligible farmers/groups for polyhouse upscaling support.)</li> <li>- Specification &amp; Costing (Prepare standard polyhouse design, size, materials, and cost estimates; determine financial support/subsidy as per norms.)</li> <li>- Procurement Facilitation (Collect quotations or guide beneficiaries to approved suppliers; verify technical compliance and cost reasonableness.)</li> <li>- Approval &amp; Support (Approve financial support package, issue purchase/installation authorization,</li> </ul>	

*Pam*

3.2  
*Dhawal*

*Singh*

*[Signature]*

*[Signature]*

Hon. Dr. Madan Prasad Pariyar  
Minister

S.N	Activity	Objectives	Process of Implementation	Expected Outputs
			<p>and ensure timely delivery of materials.)</p> <ul style="list-style-type: none"> <li>- Construction &amp; Demonstration (Oversee proper installation of the polyhouse and conduct demonstration on crop management, environment control, and maintenance)</li> <li>- Monitoring &amp; Documentation (Track performance, yield benefits, and farmer adoption; document results for scaling and reporting.)</li> </ul>	
c.	Upscaling of Agriculture Machinery through Partial Investment Subsidies (50:50 cofinancing)	<ul style="list-style-type: none"> <li>- Promote wider adoption of efficient farm machinery by supporting farmers with demonstrations and financial assistance.</li> </ul> <p>Enhance productivity and reduce labor/time costs through improved access to modern agricultural equipment.</p>	<ul style="list-style-type: none"> <li>- Identify and select eligible farmers/WUA through proposal screening and field verification.</li> <li>- Prepare machinery specifications and cost estimates and determine financial support as per norms.</li> <li>- Facilitate procurement through quotations/approved vendors and verify machinery quality.</li> <li>- Provide financial support, ensure delivery, and conduct coaching on operation and maintenance.</li> <li>- Monitor machinery use and document outcomes for scaling.</li> </ul>	
d.	Construction/rehabilitation of WUA/WUC Facilities including equipment through partial investment subsidies (85% project-wua/wuc cofinancing)	To support the construction and/or rehabilitation of WUA/WUC facilities, including essential equipment, through partial investment subsidies in order to strengthen institutional capacity and ensure effective operation and maintenance of irrigation systems.	<ul style="list-style-type: none"> <li>- Identification and Eligibility (Eligible WUA/WUCs shall be identified in accordance with IMEP eligibility criteria).</li> <li>- Proposal Submission (WUA/WUC shall submit a proposal, including scope of works, cost estimate, and confirmation of co-financing commitment)</li> <li>- Review and Approval (The proposal shall be reviewed and approved by the concerned PIU as per approved procedures)</li> <li>- Agreement and Cost Sharing (A cost-sharing agreement shall be executed, with financing of 85% by the project and 15% by WUA/WUC.</li> <li>- Implementation (Construction/rehabilitation and procurement shall be carried out in accordance with approved plans and applicable procurement guidelines)</li> <li>- Supervision and Monitoring (Implementation shall be supervised)</li> </ul>	

*(Handwritten signatures and initials)*

Rajendra Prasad Mishra  
Secretary

Hon. Dr. Madan Prasad Puriyar  
Minister

S.N	Activity	Objectives	Process of Implementation	Expected Outputs
			and monitored by PIU/RAMO to ensure quality and compliance) - Completion and Handover (Upon completion, facilities and equipment shall be formally handed over to the concerned WUA/WUC)	
<b>3.5</b>	<b>DEVELOPING DIGITAL ADVISORY SERVICES</b>			
1.	Support for initial operational costs			
2.	Preparation of audio-visual training material	<ul style="list-style-type: none"> <li>- To make technical information easy to understand through clear visual and audio demonstrations</li> <li>- To reach more users consistently by using reusable digital training materials</li> </ul>	<ul style="list-style-type: none"> <li>- Identify training topics and target audience</li> <li>- Prepare script and storyboard</li> <li>- Technical review and approval</li> <li>- Record audio/video and visuals</li> <li>- Edit and localize content</li> <li>- Quality check and finalize</li> <li>- Package and disseminate</li> </ul>	Ready-to-use audio-visual training materials tailored to target users and topics

*Ramb*  
*Prasad*

*[Signature]*

*[Signature]*

Rajendra Prasad Mishra (Ph.D)  
Secretary

*[Signature]*  
Hon. Dr. Madan Prasad Pantel  
Minister

## Appendix 7. Implementation Steps for Typical Farmer Field School (FFS) under ISP

### Step 1: Check Suitability/Pre-requisites

**Objective:** Ensure the ISP site is ready for FFS implementation.

**Key Actions:**

- Confirm farmer-managed irrigation system is functional.
- Assess water delivery and system condition for pilot demonstration.
- Verify farmer motivation and willingness to cooperate.
- Ensure WUA is registered and active.
- Confirm clarity of expected agricultural improvements (crop expansion, diversification, yield increase, capacity building, market linkages).
- AKC/ADO-PIU ensures staff readiness, orientation on FFS, availability of trainers, and approved program/budget.

**Output:** Site cleared for FFS activities, staff and resources ready.

### Step 2: Sensitization

**Objective:** Create awareness and ensure participation.

**Key Actions:**

- **ISP Level Awareness Meeting:** Sensitize WUA and farmers on objectives, approach, and expected benefits; gain commitment.

**Output:** Stakeholder awareness, commitment, and support ensured.

### Step 3: Farmer's Comprehensive & Seasonal Planning (FSP)

**Objective:** Plan agricultural development at comprehensive and seasonal levels.

**Key Actions:**

- **Comprehensive Planning:**
  - Set 3–4-year vision for crop development.
  - Define final targets for production, yields, intensities, input output management, and water use.
  - Plan community assets, capacity building, and market linkages.
  - Break down annual and seasonal targets for implementation.
- **Seasonal Planning:**
  - Review comprehensive plan.
  - Adjust targets based on recent progress.
  - Prepare seasonal action plans for crop, water, land, and soil management, investment, and market support.

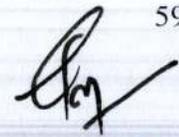
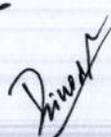
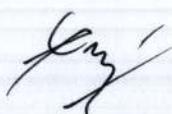
**Output:** Comprehensive and seasonal plans ready for implementation.

### Step 4: Endorsement of Action Plan

**Objective:** Ensure transparency and community approval.

**Key Actions:**

- Present work plans in the Farmers General Meeting (FGM).
- Obtain community endorsement of work plan and FFS implementation.



59  
Rajendra Prasad Mishra (Ph.D)  
Secretary

Hon. Dr. Madan Prasad Pantar  
Minister

- Define internal institutional arrangements for seasonal action plan, FFS, F-F approach, monitoring, and farmer selection.

**Output:** Community-endorsed action plan; clear implementation structure.

#### Step 5: Technical Staff Training (TST)

**Objective:** Build capacity for training staff to support farmers.

**Key Actions:**

- **TST-1:** Familiarize trainers with FFS objectives, plans, seasonal activity arrangements, and technical knowledge.
- **TST-2:** Review seasonal performance, identify constraints, select technologies for next season, and enhance trainer knowledge.

**Output:** Trainers equipped to implement and support FFS activities.

#### Step 6: Training of Farmer Trainers (TFT)

**Objective:** Enable farmer-to-farmer scaling up of technologies.

**Key Actions:**

- Train selected farmers/WUA/FG members as core trainers.
- Focus on F-F training procedures, planning, and technical knowledge dissemination.

**Output:** Core farmer trainers capable of conducting farmer-to-farmer training.

#### Step 7: Implementation of Farmer's Seasonal Activities

**Objective:** Execute planned FFS activities.

**Key Actions:**

- Conduct FFS sessions and F-F training.
- Strengthen FGs through capacity building.
- Implement irrigation management improvements.
- Support community assets, investment, and market linkages.

**Output:** Field-level implementation of agricultural improvement plan.

#### Step 8: In-Service Benefit Monitoring and Training

**Objective:** Track progress and provide real-time support.

**Key Actions:**

- Collect baseline and seasonal performance data.
- Monitor field progress, identify constraints, and assist field staff.

**Output:** Evidence-based assessment of FFS performance and issues addressed.

#### Step 9: ISP Level Mass Meeting

**Objective:** Review FFS results and prepare for next cycle.

**Key Actions:**

- Evaluate FFS and F-F approach performance.
- Assess seasonal achievements and lessons learned.
- Review farmer selection and prepare for the next cycle.

**Output:** Completion of first FFS cycle and readiness for the next season.

Rajendra Prasad Mishra (Ph.D)  
Secretary

Hon. Dr. Madan Prasad Panyar  
Minister

**Appendix 8. Project Support for ADP implementation**

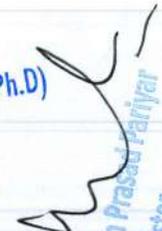
S.N.	Activities	Types of support	Remarks
1	Seed production program	Seed production program may include technical support; production of foundation and first-generation certified seed; provision of production inputs such as fertilizers, micronutrients, pesticides, and plant growth hormones; supply of agricultural machinery and tools including processing machines, seed treatment machines, moisture meters, weighing and stitching machines; provision of seed bins, seed packing sacks, and other packaging materials; and training on seed production and seed value chain development.	
2	Poly houses and agri-net houses	Poly houses and agri-net houses may include technical support, as well as the procurement and establishment costs of poly houses and agri-net houses.	
3	Agri - machines and equipments	Agricultural Machines and Equipment for Project Support may include power tillers and their attachments, mini-tillers and attachments, laser land levelers and related equipment, rice transplanters and attachments, potato ridge makers and diggers, weeders and other agricultural tools, sprayers and related spraying equipment, water pumps, motors, shallow tube wells and other irrigation and water-pumping equipment, combined harvesters, and other harvesting-related machines, tools, and equipment.	
4	Agriculture facilities, post harvest structure and buildings	<p>Agriculture facilities, post harvest structure and buildings may include polyhouses, collection and processing centers, cold storage and seed storage facilities, offices and custom hiring centers for WUCs, and other post-harvest handling and market-supporting materials (e.g., plastic crates).</p> <ul style="list-style-type: none"> <li>- For groups, cooperatives, and WUA/WUC structures: 85% financed by the Project and 15% contributed by beneficiaries.</li> <li>- For individual firms, 50% financed by the Project and 50% contributed by beneficiaries.</li> </ul>	
5	Crop production/Compost making/Green manuring/Agri-mechinaery and equipments/poly house and agri-net houses demonstration	<p>Support for Crop production/Compost making/Green manuring/Agri-mechinary and equipments/poly house and agri-net houses demonstration may include technical support, orientation meetings and technical training, provision of certified, improved, and hybrid seeds, fertilizers, micronutrients, pesticides, plant growth hormones, plastics for mulching, sprayers, and other necessary production inputs.</p> <p>The procurement and demonstration costs of Agri-mechinary and equipments/poly house and agri-net houses.</p>	








  
**Rajendra Prasad Mishra (Ph.D)**  
 Secretary

  
**Hon. Dr. Madan Prasad Puriyar**  
 Minister

**Appendix 9. Cost sharing of different major activities of the Project**

S.N.	Activities	Cost Sharing	
		Project	Beneficiary
1.	ADP Briefing Meetings/Workshop	100% (78.8% ADB and 21.2% GoN)	0
2.	Agriculture Technologies and Enterprise Development Demonstration (Cropping Pattern, Seed Multiplication, Green Manuring, Plastic Mulch, Nature based Protection, Bio - gas Awareness, Soil testing, Crop Cutting, Consolidated Farming)	100% (78.8% ADB and 21.2% GoN)	0
3.	Demonstration and Training for Machineries and Facilities (Agriculture Machineries and Equipment demonstration, Training and support for agriculture Facilities)	100% (78.8% ADB and 21.2% GoN)	0
4.	Procurement of Agriculture Machineries for demonstration	100% (55.4% ADB and 44.6 % GoN)	0
5.	Upscaling of Agriculture Machineries and Equipments.	50% (27.7% ADB and 22.3 % GoN)	50%
6.	Procurement of Agriculture Facilities (Polyhouse) for Demonstration	100% (83.4% ADB and 16.6 % GoN)	0
7.	Procurement of Agriculture Facilities (Polyhouse, Construction/Rehabilitation of WUA/WUC including Equipments)	85% (70.89 % ADB and 14.11 % GoN)	15%
8.	Developing Digital Advisory Service.	100% (100% ADB)	0

*(Handwritten signatures)*

*(Handwritten signature)*  
Rajendra Prasad Mishra (Ph.D)  
Secretary

*(Handwritten signature)*  
Hon. Dr. Madan Prasad Pantar  
Minister

### Appendix 10. ICWM Activities implementation under Component 3

The ICWM approach and activities related to Output 3 to be implemented on-farm are illustrated in the table below:

Project Components 3	Irrigation Systems	Irrigation Institutions	Agricultural Systems	Overall Responsibility
<b>3. Agriculture</b>				
ADP and IDP Briefing with community and farmers	Proposed program for irrigation presented and discussed in Appendix 1.	Pre-briefing WUAs on proposed ADP and IDP	Briefing farmers on proposed IDP and ADP	Concerned FMISPs, AKCs, project consultants
Agriculture Technologies and Enterprise development	Key parts of the training very relevant to MOM including cropping patterns, nature-based protection, opportunities for consolidated farming	Key role of WUA and WUC in upscaling training. Training in enterprise very relevant to WUA/WUC	Training and demonstration to farmers in wide range of agriculture technologies	Concerned FMISPs, AKCs, project consultants
Agriculture equipment and machinery to support mechanization	Mechanized farming reduces times of agriculture operations which provide flexibility in cropping patterns and increased irrigation efficiency	Key role of the WUA/WUC to support mechanization	Agriculture machinery will improve efficiency and productivity and reduce labor, allowing more crops to be grown and harvested within the available time.	Concerned FMISPs, AKCs, project consultant
Construction of WUA/ WUC facilities	Facilities can be used for meetings to support irrigation management	Intensive support to WUA and WUC to maximize the opportunities from the facilities	Facilities designed to be financially viable through agribusiness functions	Concerned FMISPs, project consultants
Digital Advisory Systems (DAS)	Improved weather and climate advisory to improve water management	Information appropriate for WUA/WUC which are trained in the various apps to promote the DAS.	Information on cropping technologies, weather /climate, markets	International Expert

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*

Rajendra Prasad Mishra (Ph.D)  
Secretary

Hon. Dr. Madan Prasad Pantyar  
Minister