

1st Quadrimester Implementation Progress Report (IPR)

FY 2023/24 (2080/81) (IDA Credit: 6194-NP]

Report-16



Government of Nepal
Ministry of Agriculture and Livestock
Development
Nepal Livestock Sector Innovation Project
December 2023

PREFACE

From the Desk of the Project Director

I have the pleasure to publish 1st Trimester Implementation Progress Report (IPR) of NLSIP for the current fiscal year 2023/24 (080/81). This is the 16th such report of the project attempting to highlight the progress and key achievements made during the current reporting period and the actual progress in cumulative terms.

The major breakthrough achieved in the current reporting period is the completion of data collection of the 69 randomly selected sub projects financed under matching grant scheme for profitability assessment and data cleaning of the endline survey carried out last FY 2022/23. The profitability assessment was carried out independently by WB/FAO consultant with the support from PMU that consists of data analysis for estimation of net profit margin (NPM) and Return on Asset (RoA) to understand the viability and sustainability of the matching grant productive alliance sub projects. The other achievements of the project are the initiation of construction of BSL 2 Laboratory at Budanilkantha for FMD diagnosis, initiation of FMD and LSD vaccine procurement which are of national interest and re-engagement of the critical consultants that were recommended at the 9th WB ISR Mission held in Aug 2023 and port folio review meeting of the WB financed projects held in Sept 2023 at MoF.



The 9th Implementation and Support Review Mission from WB led by Task Team Leader Ms. Karishma Wasti held on Aug 2023 was very productive in terms of assessing overall implementation progress, key activities to be implemented during the remaining period of the project and critically assessing the feasibility of completing the ongoing activities before the project closure. The Project is very much pleased with the missions' support and commits to fully comply with them.

At this moment, I would like to extend my sincere thanks to MoALD and DLS for their continuous guidance. I also would like to thank, WB Task Team Leader Ms. Asuka Okumura and her entire team members including Joachim Vandecasteele, Geoff Dyce, Mr. Kul Prasad Niraula and David Tuchsneider, for their support and assistance to this project. This report would not have been completed if the required information and assistance were not provided by the Senior Monitoring and Evaluation Officer, Dr. Prabesh Sharma; Finance Officer (US), Mr. Ashok Giri; Monitoring Officers, Mr. Ishwori Khatiwada and Dr. Keshab Bhatta, other PMU and DLSUs colleagues and staff; they therefore, deserve my great appreciation.

Last but not the least, my sincere thanks goes to team of experts providing technical Assistance Services to the project by Project Technical Expert (Lead), Financial Management Expert, Procurement Expert and Apex Engineering Consultancy, therefore, they also deserve our highest appreciation.

Dr. Namrata Singh

Project Director
December 2023

GENESIS AND KEY EVENTS OF THE PROJECT

Project Data	Date
Negotiation Date	18 Oct 2017
Board approval	December 07, 2017
Financial Agreement signed	January 21, 2018
Project effectiveness-actual	February 28, 2018
Formation of Project Steering Committee (PSC)	18 th May 2018
Establishment of PMU (during PPTA)	6 th May 2016
Establishment dedicated PMU	11 th July 2018
Deployment of Project Director	16 th July 2018
Approval of PIM (original)	20 th August, 2018
Establishment of DLSUs	May 03, 2018
Deployment of DLSU's staff	Nov 19, 2018
1 st Implementation Review and Support mission	September 09 to 28, 2018
2 nd Implementation Review and Support mission	March 5-15, 2019
Technical Mission led by Mohammed Shamsuddin	May 20-24, 2019
Approval of PIM (Revised) by PSC	June 26, 2019
Technical Mission led by Helen Leitch	23, 27 and 30 th June 2019
Mid-Mission Review	25 th July, 2019
Joint GoN and WB Portfolio Review Meetings with MoALD and MOF	Sept 10 at MoALD and Sept. 12 at MoF
3 rd Implementation Review and Support Mission	Sept 18-26, 2019
Technical Consultation on LIMS, M & E Strategy and Breeding	Jan 06-31, 2020
Portfolio Review meeting at MoF	March 13, 2020
1 st lockdown measures imposed in the country due to COVID-19 pandemic	March 24 –July 21, 2020
2 nd lockdown measures imposed in the country	Aug 21- Sept 08, 2020
4 th IRSM (Virtual)	July 01-16, 2020
Appointment of New Project Director	Dec 07, 2020
5 th IRSM (Virtual)	Jan 11-22, 2021
MoF Request to WB for the restructuring of the project, revising IDA fund to 60 million US\$	March 02, 2021
MoALD request to WB to consider new activities	March 31, 2021
3 rd Lockdown measures imposed due to COVID 19 pandemic	April 29 to July 05, 2021
Pre MTR mission	June 23-24, 2021
MTR and 6 th IRSM	July 26 to Aug 31, 2021
Visit to the NLSIP sites at Kapilbastu and Rupandehi by WB Country Director for Maldives, Nepal and Sri Lanka Mr. Faris Hadad- Zervos and 5 other HoAs	Dec 3, 2021
MoF Request to WB for Project Restructuring revising IDA fund to USD 55 million	Jan 12, 2022
Technical discussion with WB team on safeguard measures	Feb 28, 2022

Final Restructuring signed by MoF and WB	March 16, 2022
Technical discussion with WB team on infrastructure development works	April 07, 2022
Writ application submitted to Supreme Court of Nepal against the project to halt the instalment payment to all those signed SPs for matching grant support	April 27, 2022
Interim Order Issued by the SC of Nepal to halt the instalment payment to all those firms who are outside the list of project targeted beneficiaries	May 05, 2022
Technical Discussion with WB team on SC issues and Livestock markets	July 04, 2022
SC scheduled hearing after Interim Order has been postponed for 5 times	June 14, 27, July 03 and August 11, Sept 20, 2022, Jan 30, 2023 (next June 20, 2023)
7 th Implementation Review and Support Mission	Aug 1-15, 2022
Clearance letter from MoALD for implementation of call 3 SPs	Dec 11, 2022
8 th Implementation Review and Support Mission	March 27 – 31, 2023
Writ Application submitted to SC on the charge of contempt of court by Muga Malbashe Dihi	March 19, 2023
Letter from SC to submit the clarification	April 18, 2023
Completion of Payment to all SPs under call 1 & 2 (213 SPs)	April 30, 2023
Implementation Completion of Call 3 SPs	June 30, 2023
MoF letter for project extension	June 11, 2023
Appoint of new Project Director (Dr. Tiwari)	Sept 10, 2023
Appointment of new Project Director (Dr. Namrata Singh)	Dec 07, 2023
Final Closing Date	June 30, 2024

BASIC PROJECT DATA

<p>Board Approval: December 7, 2017 Effectiveness Date: February 28, 2018 Original Closing Date: June 30, 2023 No. of Extensions: One Revised Closing Date: -June 30, 2024 Mid-Term Review Date: July 2021 Restructuring Date: February 2022 & June 2023 Project Development Rating: Satisfactory Implementation Progress Rating: Moderately Satisfactory</p>	<p>Original Cr. Amt: US\$ 80 million Cancellation Amt: US\$ 25 million & US\$ 8.8 Revised Cr. Amt: US\$ 43 million as per client connection Amount Disbursed (as of 1st QDR FY 23/24: US\$ 34.09 million (79.28 percent) Undisbursed balance: US\$ 8.91 million Reimbursement claim: Completed up to FY 2022/23 Physical Progress as of 2023/24: 94.7 % Project Status: The project is rated as Moderately Satisfactory in the last 9th Mission held on August 20-30, 2023 in view of the substantial improvement in the performance in achieving of its PDOs.</p>
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PROJECT DEVELOPMENT OBJECTIVE

To increase productivity, enhance value addition and improve climate resilience of smallholder farms and agro-enterprises in selected livestock value chains in Nepal

KEY RESULTS ACHIEVED SO FAR (Five major achievements)

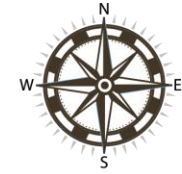
To date the project has made significant progress in terms of achieving the results per indicators in the Results Framework. They are as follows:

Average productivity of milk of cows and buffaloes and goat meat over shoots the target of 450 L, 640 L for cow and buffaloes milk respectively and 5 kg for goat meat
 Client days of training provided exceeds by 124.58 % over the target of 5,500
 Establishment of stakeholder dialogues platforms is at 100 %, all are functional and operational.
 Farmers benefiting from project services and outreach exceeds by 21.74 % over the target of 200 thousand.
 386 sub-projects have been completed out of 448 operational against the target of 350 (86.16 % completed)

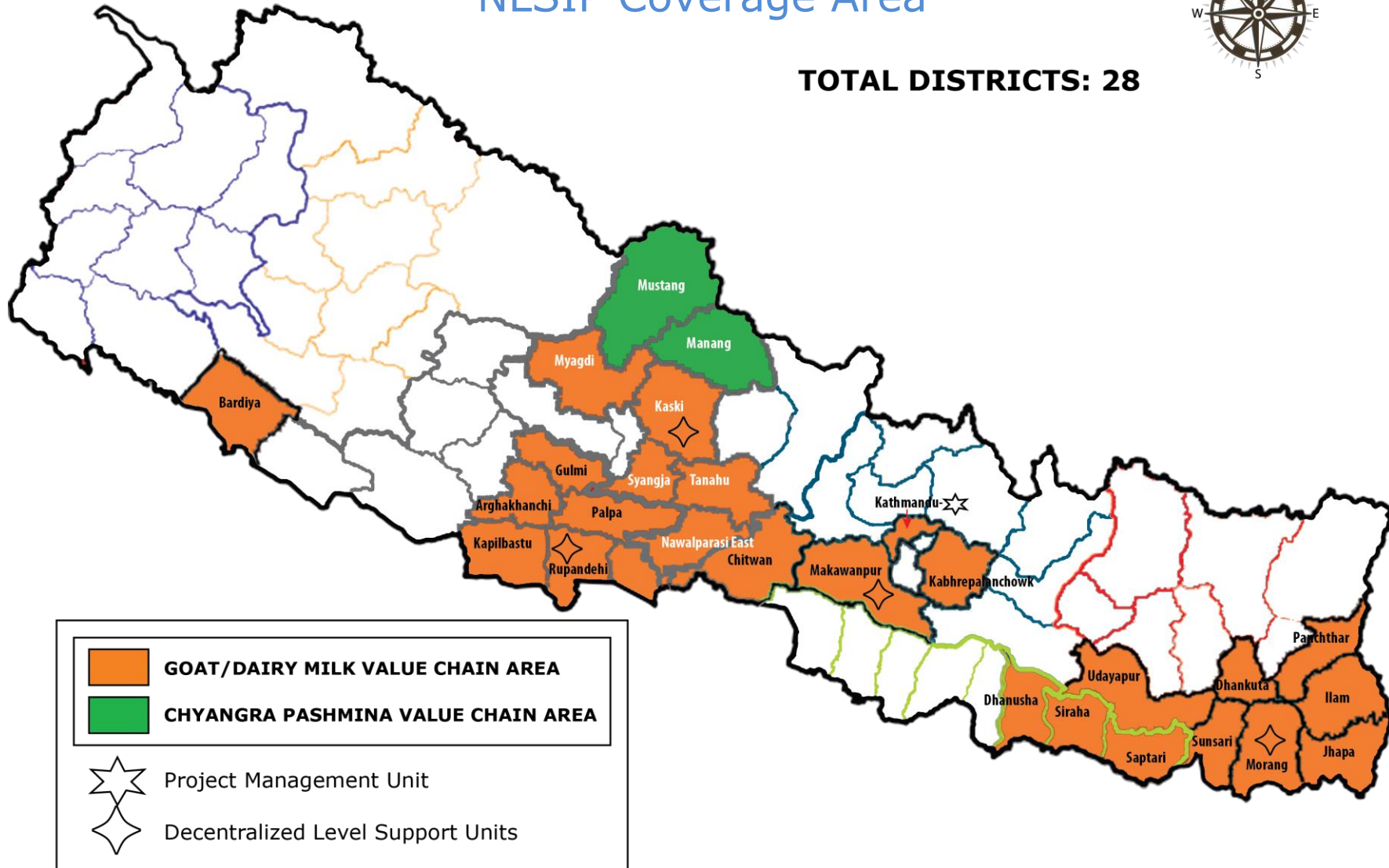
HIGHLIGHT ANY GOOD PRACTICE(S)

Promotion of productive-alliance model by forming producer-buyer alliance.
 Involvement of the private sector, especially banking and financing institutions to provide loan in livestock value chain development activities.
 Promotion and adoption of climate smart livestock practices reducing the greenhouse gas emission.
 Building resilience in livestock sector through vaccinating 10.559 million heads of large animals(cumulative) against highly infection diseases such as Foot and Mouth Disease (FMD) and 37.325 million heads of small ruminants (cumulative) against Peste Des Petits Ruminants (PPR);
 Establishment of Pedigree Performance Recording System (PPRS), where 5,477 animals in 92 herds are under recording system for identification of proven high genetic merit home grown bulls; reducing the dependency of importation.
 Generation of various knowledge products (Good Practices, Success Stories, Handbook for Social Mobilizers, Technology for Climate Smart Livestock Practices, Tool Kits and Pasu Sewa Prabhidi) for dissemination to livestock practitioners of all levels.
 Dairy processing sub projects under MG scheme are operated with the Food License issued by DFTQC for their quality compliance.

NLSIP Coverage Area



TOTAL DISTRICTS: 28



Silage Production: Semlar, Rupendehi



Janak Dairy; Dhanusha



Kabita Pasupalan Tatha Agriculture Firm; Machapuchre , Pokhara



Pashmina Processing facility; Bhaktapur



ABBREVIATIONS

ADS	Agriculture Development Strategy
AFU	Agriculture and Forestry University
AMR	Anti-Microbial Resistance
AI	Artificial Insemination
BoQ	Bill of Quantity
BP	Business Plan
BS	Bikram Sambat
CENA	Capacity Enhancement Needs Assessment
CGHC	Central Grievance Handling Committee
CLGHC	Cluster Level Grievance Handling Committee
CPG	Cooperatives and Producer Groups
CSA	Climate Smart Agriculture
CH ₄	Methane
CRVH	Central Reference Veterinary Hospital
CTCM	Central Technical Coordination Committee
CVL	Central Veterinary Laboratory
CAHW	Community Animal Health Worker
DFTQC	Department of Food Technology and Quality Control
DGHC	District Grievance Handling Committee
DLS	Department of Livestock Services
DLSO	District Livestock Services Office
DP	Dialogue Platform
DLSU	Decentralized Level Support Unit
DP	Development Partner
DTCO	District Treasury Control Office
ECOP	Environment Code of Practices
EPP	Emergency Preparedness Plan
ESMF	Environment and Social Management Framework
ESMP	Environment and Social Management Plan
FAO	Food and Agriculture Organization of the UN
FBS	Farmer's Business School

FCGO	Financial Comptroller General Office
FFS	Farmer’s Field School
FM	Financial Management
FMD	Foot-and-mouth disease
FMS	Financial Management Specialist
FY	Fiscal Year
FPP	Full Project Proposal
GAHP	Good Animal Husbandry Practices
GCES	Global Control and Eradication Strategy
GF-TADS	Global Framework for Trans-Boundary Animal Diseases
GHG	Green House Gas
GoN	Government of Nepal
GRID	Green, Resilient, Inclusive Development
GRM	Grievance Redress Mechanism
GVP	Good Veterinary Practices
HoAs	Heads of Agencies
HPAI	Highly Pathogenic Avian Influenza
ICT	Information Communication Technology
IEC	Information Education and Communication
IDA	International Development Association
IPR	Implementation Progress Report
IRSM	Implementation Review Support Mission
IUFR	Interim Unaudited Financial Report
JT	Junior Technician
JTA	Junior Technical Assistant
KPI	Key Project Indicator
LBOs	Livestock Breeding Office
LMIS	Livestock Management Information System
LMP	Livestock Master Plan
LPAI	Low Pathogenic Avian Influenza
M & E	Monitoring and Evaluation
MG	Matching Grant
MIS	Management information system

MGS	Matching Grant Scheme
MLSC	Municipal Level Service Center
MMC	Market Management Committee
MoALD	Ministry of Agriculture and Livestock Development
MoF	Ministry of Finance
MoU	Memorandum of Understanding
MToT	Master Training of Trainers
MTR	Mid Term Review
NADIL	National Avian Disease Investigation Laboratory
NARC	Nepal Agricultural Research Council
NPC	National Planning Commission
NLBO	National Livestock Breeding Office
NRB	Nepal Rastra Bank
NAFQML	National Animal Feed and Quality Management Laboratory
NVC	Nepal Veterinary Council
NVPL	National Vaccine Production Laboratory
OAG	Office of the Auditor General
OH	One Health
OIE	Office International des Epizooties
PAD	Project Appraisal Document
PCN	Project Concept Note
PCP	Progressive Control Pathway
PD	Project Director
PDO	Project Development Objectives
PFM	Procurement and Financial Management
PIUs	Project Implementation Units
PIM	Project Implementation Manual
PMIS	Project Management Information System
PMU	Project Management Unit
PO	Producers Organizations
PP	Productive Partnerships
PPR	Peste des Petits Ruminants
PPRS	Pedigree and Performance Recording System

PRS	Performance Recording System
PS	Procurement Specialist
PSC	Project Steering Committee
PTE	Project Technical Expert (Lead)
QCPs	Quarantine Check Posts
RBSP	Risk Based Strategic Plan
SAARC	South Asian Association for Regional Cooperation
SC	Supreme Court of Nepal
SDP	Stakeholder Dialogue Platform
SM	Social Mobilizer
SOE	Statement of Expenditures
SOP	Standard Operating Procedures
SPS	Sanitary and Phyto Sanitary
TA	Technical Assistance
TBT	Technical Barrier to Trade
TMR	Total Mixed Ration
TASP	Technical Assistance Service Provider
ToR	Terms of Reference
ToT	Training of Trainers
UMB	Urea Molasses Block
USD	United States Dollar
VAHWs	Village Animal Health Workers
VH &LSEC	Veterinary Hospital and Livestock Service Expert Center
VSDRL	Veterinary Standard and Drug Regulation Laboratory
WB	World Bank

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CHAPTER 1: INTRODUCTION

Background

Given the importance of the livestock sector to rural livelihoods, the food and nutritional security, as well as for growth of the national economy, Government of Nepal (GoN), Ministry of Agriculture and Livestock Development (MoALD) with the assistance of WB is implementing Livestock Sector Innovation Project since F/Y 2018/19. This is one of the key projects in livestock sector that raises livestock productivity, production and incomes and expected to lead to further investment for the overall development of the sector as well as of the nation improving service delivery, access to information, technology, market, financial resources, environmental and social safeguards measures.

The main feature of this project is to adopt approaches for effective market linkage, in response to national and export demand of livestock and livestock products, value chain linkages, development of productive alliances, gender and youth inclusion, awareness on nutrition, and reduction of greenhouse gas emissions, adapting climate smart agriculture, private sector and citizen engagement for the sustainability of the project. Following the approval of the WB Board on 7th December 2017 and signing the financial agreement on 21 January 2018 between the WB and the GoN, the project became effective since 28 February 2018. The project covers all three geographic locations Terai, Hills and Mountain in four clusters along the road corridor encompassing five provinces and commodity specific value chains (dairy, goat meat and Chyangra pashmina). Though the impact of the project can be noticed in all the 77 districts but it focuses more in 28 districts in a population of 12.4 million (6.4 million female) belonging to a 289 Municipalities.

The primary beneficiaries of the project are 200,000 livestock producers (at least 45% female) from all the Municipalities of the project districts. In addition, more than 350 small and medium sized agro-enterprises are being benefited from production and post-production value chain support. Potential primary beneficiaries are livestock farmers, POs (Farmer Group, Cooperative and Producer's/Commodity Associations, agro-business entrepreneurs

The project is well aligned with the four strategic pillars (governance, productivity, commercialization, and competitiveness) of the ADS, thus supporting the country's priorities. It is also consistent with the World Bank's twin goals of ending extreme poverty and promoting shared prosperity. The project is promoting climate-smart livestock practices (CSA) by introducing six major interventions and adopting other innovative approaches of climate friendly practices and technologies, as Nepal is one of the top five countries that are subject to the impacts of climate change. With the livelihood of more than 80 percent of the population relying on agriculture, building the resilience of agriculture production systems and mitigating the impact of climate change in agriculture cannot be overemphasized. Agriculture, livestock in particular, is also one of the main commodities through which the country plans to promote low-emission economic development. The project therefore is providing its support through three main channels: (i) creating an enabling regulatory and institutional environment; (ii) enhancing livestock productivity through improving livestock services delivery in terms of quality and quantity; and (iii) strengthening key strategic livestock value chains and improving access to business development services. To ensure gender equity and citizen engagement, the project is making a conscious effort to allow women and

beneficiaries to participate in all aspects of the project cycle, from planning and implementation to monitoring the results.

The Project is being operated by PMU at center lead by Project Director, DLSUs at four different locations namely (1) Morang (2) Hetauda, (3) Pokhara and (4) Butwal, which are led by Senior Livestock/Veterinary Officers and National Livestock Breeding Office at Pokhara led by Chief Livestock Development Officer.

During the course of implementation, the project has gone two times restructuring 1st on March 2022 and 2nd on June 2023 with one-year extension from June 30,2023 to June 30, 2024 reducing the total project cost to US\$ 67.12 million from the original US\$ 115 million. As per the revised allocation, 64.06 % (US\$ 43.0 million) is IDA assistance [IDA Credit Number 6149-NP]. The beneficiary contribution is 10.7 % (US\$ 7.2 million), contribution by the financial institution is 16.09 % (US\$ 10.8 million) and another 9.11 % (US\$ 6.12 million) is GoN contribution.

The Project Development Objectives (PDO) is to increase productivity, enhance value addition, and improve climate resilience of smallholder farms and agro-enterprises in selected livestock value-chains in Nepal.

The Key Performance Indicators of the project are:

KPI -1 – Productivity of targeted livestock commodities (milk and milk products, goat meat) measured through percentage increase of average (i) milk production per cow/buffalo; (ii) off take rate expressed as carcass weight for goats,

KPI -2 – Increased sales of value added products in targeted value chains: measured through increase in production output processed and marketed in the dairy and goat meat value chains.

KPI -3 – Farmers adopting climate smart agricultural technology (of which female) measured by the number of target farmers, including female farmers, adopting improved practices and technologies promoted by the project. The corporate results indicator is measured as adopting improved agricultural technology in livestock sector.

KPI -4 – Farmers reached with agricultural assets or services (of which female) measured through the cumulative number of farmers, including the share of women, and small and medium entrepreneurs, who benefit from one or more project activities. The corporate results indicator is measured as farmers reached with agriculture assets or services.

Note: Increased sales of value added products in *chyangra* cashmere value chain has been dropped from KPI-2 as per the recommendation of MTR.

This report presents physical and financial progresses of the project up to the 1st quadrimester of current Fiscal Year 2080/81 (2023-2024) in quantitative and qualitative terms.

Project Components

Project consists of four components as summarized below.

Component : **Strengthening Critical Regulatory and Institutional Capacity**
"A" (Sources; GoN- US\$ 0.05 million and IDA-US\$ 0.25 million; Total US\$ 0.30 million): The objective of this component is to strengthen the ability of the

MoALD and its functionaries at the provincial, municipality and village levels by creating enabling policy and regulatory environment which contribute to the performance of the livestock sector. The intervention under this component is linked to component "B" by delivering demand driven services to the livestock producer and component "C" by providing adequate incentives for the private sector investments in the livestock sector. This component is organized around three other subcomponents: (1) developing, updating and operationalizing key policies, acts and regulations affecting the performance of the livestock sector, (2) strengthening the institutional capacity of the various government agencies to support the development of the livestock sector, including the carrying out of a capacity enhancement need assessment (CENA) of MoALD and its key agencies and (3) developing and establishing a dedicated livestock management information system providing updated information on extension, management and market to farmers on periodical basis.

Component "B" : **Promoting Sector Innovation and Modernizing Service Delivery;** (Sources; GoN- US\$ 3.29 million and IDA-US\$ 17.84 million; Total US\$ 21.13 million): The objective of this component is to enhance the capacity of key stakeholders along the selected livestock supply chains to develop, disseminate and adopt best practices. Most of the activities under this component are implemented at farm and cooperative/producer group level, and involve government agencies for improved service delivery. It also contributes to environmental sustainability and particularly GHG emission reduction through improved efficiency in animal production and increased resilience toward the negative impacts of the climate change. The component also directly addresses the issue of feed resources and their vulnerability and adaptation to climate change. This component is also organized around three other subcomponents: (1) support to producer's organization, (2) modernizing service and input provision systems and (3) strengthening farmer's training and extension services.

Component "C" : **Promoting Inclusive Value Chains for Selected Livestock Commodities;** (Sources; GoN- US\$ 0.4 million and IDA-US\$ 20.20 million; Beneficiaries-US\$ 7.2 million and BFIs- 10.8 million, Total US\$ 38.6 million);): The objective of this component is to develop a more commercial-oriented approach for selected livestock subsectors and to contribute to import substitution (for dairy products and goat meat) and export promotion (for *Chyangra* cashmere) by improving the productivity and value addition within the targeted value chains. The component directly contributes to the PDO by supporting the integration of smallholder livestock farmers in those value chains. The component focuses on improving smallholders' access to markets and on strengthening the backward and forward links among value chain actors. This component is expected to facilitate the active engagement of productive partnership between the various active value chain actors including

finance and insurance institutions. These productive partnerships are supported through a Matching Grant (MG) mechanism by a combination of 50 % IDA grant, 20 % contribution in cash by the respective producer's organization and remaining 30 % as short to medium term loan from the participating financial institution. The component includes two subcomponents: (1) development of productive partnerships, and (2) financing livestock value chains.

Component "D" : **Project Management and Knowledge Generation;** (Sources; GoN- US\$ 2.38 million and IDA-US\$ 4.71 million including 0.06 million as PPA; Total US\$ 7.09 million): This component finances all aspects of project management and implementation, including (i) strategic and operational planning, execution, M&E of project activities, (ii) compliance with safeguard (iii) implementation of public awareness and outreach campaigns; (iv) verification and reporting on project execution and impacts; (v) establishment, operationalization, and maintenance of the PMU at the center, 4 DLSUs and NLBO, Pokhara established at five different locations; and (vi) the preparation/attendance of project-related studies, workshops, and seminars generating knowledge derived from the project implementation experiences, including but not limited to mainstreaming climate-smart livestock practices, to be communicated to various public and private entities in a timely and effective manner.

Report Organization

The report is organized in eight different chapters. The 1st chapter deals with introductory part while 2nd, 3rd, and 4th chapters' deal with physical and financial progress up to the 1st trimester of current F/Y 2023/24, project cost and financial plan and procurement plan respectively. Similarly, chapters 5th, 6th, 7th and 8th deal with Implementation arrangement, environment and social safeguards, World Bank Mission reports, and way forward respectively. There are several tables, figures and annexes attached to the respective heading to provide more detail information and analytical views.

CHAPTER 2: PHYSICAL PROGRESS

Component A: Strengthening Critical Regulatory and Institutional Capacity

The objective of this component is to strengthen the ability of the MoALD and its functionaries at different levels by creating enabling policy and regulatory environment, which contribute to the performance of the livestock sector. The intervention under this component is linked with component B and component C. This component is organized around three other subcomponents: (1) developing, updating and operationalizing key policies, acts and regulations affecting the performance of the livestock sector, (2) strengthening the institutional capacity of the various government agencies to support the development of the livestock sector, including the carrying out of a capacity enhancement need assessment (CENA) of MoALD and its key agencies and (3) developing and establishing a dedicated livestock management information system providing updated information on extension, management and market to farmers on periodical basis. The status of progress of project developed Policy/Act/Strategy/ Action Plan /Road map is provided below.

2.1.1 Status of Developing, Updating and Operationalizing Key Policies, Act & Regulatory Framework

(a) Approved by the Government

The cabinet decision of Nov 18, 2021 has provided the consent to develop the following two acts. They are:

Infectious Animal Disease Control Act

Animal Welfare Act

With support from project, the MoALD is taking the initiatives to formulate these two Acts in a legal template, for which two drafting committees have been constituted. The seven-member drafting committee led by Joint Secretary, Animal Health Division, is working on Infectious Animal Disease Control Act while the other committee led by joint secretary Livestock and Fishery Development Division is drafting Animal Welfare Act. Senior M & E Officer and Project Director are representing from the project in the respective committee. M & E Officer from the project is coordinating the whole procedures. In both committee's representations from Ministry of Law, Justice and Parliamentary Affairs have been ensured. There have been several meetings of each committee held at MoALD. MoALD had also gathered written public and stakeholder's opinion for the provisions to be included in each Act through a notice published in its website to have wider citizen engagement. Before that the project had organized a multi-stakeholder consultation workshop on Aug 02, 2022 inviting all the stakeholders to collect the views and opinion from the different prospective and to prepare the roadmap with timeline for the preparation of these two Acts. Final consultation to draft the Infectious Disease Control Act was held at CRVH on Feb 7-8, 2023 and in June 2023. The MoALD has shared the final draft to the federal ministries after incorporating the suggestions and feedback received from all 7 provinces. Once the feedback from federal ministries is received, then it is submitted to cabinet for approval to table in the parliament.

Similarly, the cabinet decision of January 14, 2022 has approved the following two policies, which serves as milestone for the development of the livestock sector: These policies were used for prior action while preparing Green, Resilient, Inclusive, Development (GRID)

National Livestock Breeding Policy, 2078 (2022): The livestock breeding strategy prepared by the project is embedded within the policy.

The National Animal Health Policy, 2078 (2022)

The MoALD in its initiation held Dissemination Workshop on National Animal Health Policy and National Livestock Breeding Policy on June 12, 2022 and April 28, 2023 at Biratnagar and Pokhara, where, all levels of governments and stakeholders participated and got acquainted about the provision in the policies and implementation challenges.

Similarly, with support from project MoALD also held consultation workshop at Biratnagar on Jan 20, 2023 engaging all tier of the government discussing the issues and challenges on the implementation of the ADS.

(b) Approved by the Department of Livestock Services

The DLS has approved the **Laboratory Quality Manual for Veterinary Standards and Drug Regulatory Laboratory (VSDRL)** - for fulfilling the requirements for the process of accreditation on Jan 09, 2020.

Similarly, the DLS has also approved the **Laboratory Protocols and Standard Operating Procedures (SoPs) for VSDRL** for 10 new SoPs for drug residue testing, updated 15 existing SoPs and prepared five new protocols for poultry vaccine testing, - For fulfilling the requirements for the process of accreditation on Jan 09, 2020

The DLS has also approved the Strategy on ICT use in Livestock Services, on Aug 07, 2020.

(c) Under work in progress at MoALD:

Animal Identification and Traceability Strategy: draft strategy is prepared. It is to be reviewed by MoALD in line with the new organizational structure of the DLS for onward submission and approval from cabinet.

Risk Based Strategic Plan for FMD with roadmap (RBSP): The final draft of RBSP was shared with FAO for global harmonization in its strategic direction. The document is now updated with incorporation of the suggestions and feedback received from FAO. It is to be translated into Nepali language for its approval from the cabinet. The PMU is coordinating with MoALD to assist in Nepali translation.

Animal Nutrition Strategy: The project in close coordination with National Animal Feed and Livestock Quality Management Laboratory has completed the drafting of animal nutrition strategy with guidance from DLS. It is submitted to MoALD on Aug. 09, 2023 for onward submission and approval

(d) Under work in progress at DLS

PPR Roadmap: the project prepared PPR roadmap is being integrated into the National PPR Control Strategy, which the DLS is developing. This is to be approved by MoALD.

One Health Action Plan: DLS is working on the draft prepared by the project. Multi sectorial team including Livestock, Health, environment, forestry has been formed to work further on draft prepared by project.

Emergency Preparedness Plan: A draft Emergency Preparedness Plan is prepared by the project with assistance from FAO. It is being updated by DLS led committee. The pre-requisite for this is to receive approval of the newly developed Animal Infectious Disease Control Act.

2.1.2 Status of Strengthening the Institutional Capacity of the Various Government Agencies.

CENA: The study on CENA is completed and report is prepared in two volumes. Volume-1 deals with NLSIP and volume-2 deals with MoALD functionaries' Capacity Development Plan (CDP). The draft Report is validated in a central level workshop and in various others meetings with PMU and WB. The project has handed over volume 2 (CDP for MOALD functionaries) to the officiating Secretary at MoALD on December 02, 2020, for them to use as a guiding document for their capacity development plan.

Unfortunately, the recommendation made by the study report could not be undertaken due to project restructuring and reducing to US\$ 67.12 million from the total budget of US\$ 115 million

2.1.3 Establishment of Livestock Information Management System (LIMS)

Project has developed web based and android-based prototype of Livestock Information Management System (LIMS) as per the requirement of livestock related offices of Gandaki Province to manage livestock information. Web based LIMS help to manage integrated livestock related information of each offices and the android app help to manage essential data produced in the field and help the remote user to communicate with integrated database. All the data are received in the integrated database and report is to be generated as per the organization's needs. The LIMS development work is completed. The targeted offices in the Gandaki Province have been given the trainings to use web based LIMS. In the LIMS, there are two mobile-based additional features for the specific purposes, they are: (i) PPRS module to use it for the genetic improvement program and (ii) RBP, ration-balancing app to use it by the farmers for the formulation of right amount of feed to their livestock at the least cost.

During the project restructuring, this activity has no longer been supported by IDA financing. As a result, this is now discontinued. However, DLS and Provincial government can take over for further development and implementation in the coming years.

2.2 Component B: Promoting Sector Innovation and Modernizing Service Delivery

The objective of this component is to enhance the capacity of key stakeholders along the selected livestock supply chains to develop, disseminate and adopt best practices. Most of the activities under this component are implemented at farm and cooperative/producer group level, and involved government agencies for improved service delivery. It also contributes to environmental sustainability and particularly GHG emission reduction through improved efficiency in animal production and increased resilience toward the negative impacts of the climate change. The component directly addresses the issue of feed resources and their vulnerability and adaptation to climate change. This component is also organized around three other subcomponents: (1) support to producer's organization, (2) modernizing service and input provision systems and (3) strengthening farmer's training and extension services.

2.2.1 Support to Producer's Organization

The project has carried out the study on the assessment of POs by hiring a consulting firm Nepal Environment Protection Center (NEPC). Based on the assessment report, operation guideline is developed for the project intervention. In addition, the project has also developed activities implementation guidelines for 37 different activities to properly implement them at the grass root level in a uniform manner across all DLSUs. Of 37 guidelines prepared, six guidelines were approved by MoALD and remaining 31 guidelines were approved by DLS.

2.2.1.1 POs Formed and Mobilized

The table 2.1 below provides the data for number of new farmer groups formed and supported by different project activities. In cumulative 907 new farmer groups are formed and supported by the project until the reporting period. Of 907 new farmers' groups, 308 farmer group are in dairy (34 %), 544 FGs in goat (60 %) and 55 FGs in chyangra (6 %). The total beneficiaries attached to these 907 farmer groups are 21,808 members where 57 % were the female. The female participation in the newly formed farmer groups are encouraging.

Table 2. 1: Number of New Farmer Groups Formed and Supported

DLSUs	Selected Value Chain			Total	Beneficiaries		Total
	Dairy	Goat	Chyangra		Male	Female	
Morang	60	122	0	182	2,009	2,432	4,441
Hetauda	74	118	0	192	1,433	3,219	4,652
Pokhara	75	144	55	274	3,254	3,107	6,361
Butwal	99	160	0	259	2,685	3,669	6,354
Total	308	544	55	907	9,381	12,427	21,808
% age	34	60	6	100	43.00	57.00	100

Source: DLSUs Progress Report F/Y 2023/24 & PMIS

Similarly, the project is also supporting old farmer groups that were formed and registered under the then District Livestock Service Offices (DLSOs). Their registrations are renewed at the local government under the new federal system. As per the table 2.2 below 63 farmer groups for dairy, 81 for goat and one for *chyangra* total 145 existing FGs are tied up with project activities. In both new and old farmer groups, goat groups (625) are more prominent which occupies more than 59.24 % of the total 1,052 farmer groups. The overall participation of the women member in entire farmer's group (existing and new) 14,123 remained at 55.6 %, which is quite encouraging to meet the target of the project

Table 2. 2: Number of Existing Farmer Groups Supported

DLSUs	Selected Value Chain			Total	Beneficiaries		Total
	Dairy	Goat	Chyangra		Male	Female	
Morang	29	31	0	60	885	701	1,586
Hetauda	20	14	0	34	303	467	770
Pokhara	5	24	1	30	288	271	559
Butwal	9	12	0	21	416	257	673
Total	63	81	1	145	1,892	1,696	3,588
% Age	39.86	59.42	0.72	100	52.6	47.4	100

Source: DLSUs Progress Report (F.Y. 2023/24) & PMIS

In the cooperative sector, dairy cooperatives (250) are well organised and dominating. There are only 56 cooperatives for goat and 1 for *chyangra*. These all are old cooperatives. There are other three cooperatives registered as new cooperatives in Hetauda. Formation and registration of new cooperatives takes time. Processes are initiated but they are not registered yet. Table 2.3 below describes the total number of cooperatives (307) in which the project activities are tied up. DLSU Hetauda has the highest number of dairy cooperatives (110 old and 3 new total 113) almost 45 % of the total dairy cooperatives. Around 50.5 % of the women are associated with these 307 cooperatives.

Table 2. 3: Number of Existing & new Cooperatives Supported

DLSUs	Selected Value Chain			Total	Beneficiaries		Total
	Dairy	Goat	Chyangra		Male	Female	
Morang	59	7	0	66	2,984	5,976	8,960
Hetauda	113	9	0	122	17,369	12,821	30,190
Pokhara	33	20	1	54	9,183	11,701	20,884
Butwal	45	20	0	65	1,414	1,048	2,462
Total	250	56	1	307	30,950	31,546	62,496
% age	81.25	18.42	-	100	49.5	50.5	100

Source: DLSUs Progress Report (F.Y. 2023/24) & PMIS

Until the reporting period of F/Y 2023/24, the project is working with 1,359 POs of which 1,052 (907 new and 145 old) are farmer groups and 307 (304 old & 3) are cooperatives. Over 77 % are farmer groups and 23 % are cooperatives. Of 1,359 POs almost 46 % are in dairy business, 50 % in goat meat business and around 4 % in chyangra pashmina business. Similarly, the total beneficiaries in all these POs are 87,892 farmers of which 52 % are female. When compared to FGs, Cooperatives are better functional. They are engaged in multiple function from milk collection to milk processing and some even to feed formulation and manufacturing. Of 1,359 POs around 69 POs have been successful in securing the NLSIP matching grant. The table 2.4 below describes detail composition of total 1,359 POs.

Table 2. 4: Total Number of POs Supported and Mobilised

Value Chain	New FGs	Old FGs	New Coop	Old Coop	Total POs	Male	Female	Total
Dairy	308	63	3	247	621	29,928	28,021	57,949
Goat	544	81	0	56	681	11,809	17,333	29,142
Chyangra	55	1	0	1	57	486	315	801
Total	907	145	3	304	1,359	42,223	45,669	87,892
% age						48	52	100

Source: DLSUs Progress Report (F.Y. 2023/24) & PMIS

2.2.1.2 Operation of Farmer Field Schools

The project has trained 158 participants providing MTOT/TOT and developed them as FFS facilitators. These facilitators are operating FFS in their respective places. Currently, 229 FFS are under operation. Of all the FFSs, Goat FFSs are more popular covering about 67.7% of the total FFSs. Chyangra FFSs are not yet implemented. In all these FFSs, around 6,588 farmers are attached where 58.88% are the female representation. These FFSs are running for one lactation period in dairy and kid-to-kid period in goats or total nine months whichever is earlier. Table 2.5 below depicts the detail composition.

Table 2. 5: Total Number of FFS Operated

DLSUs	Operation of FFSs			Total	Beneficiaries		
	Dairy	Goat	Chyangra		Male	Female	Total
Morang	9	50	0	59	898	1,188	2,086
Hetauda	21	41	0	62	569	994	1,563
Pokhara	26	24	0	50	684	768	1,452
Butwal	18	40	0	58	558	929	1,487
Total	74	155	0	229	2,709	3,879	6,588
% age	32.3	67.7		100	41.12	58.88	100

Source: DLSUs Progress Report F/Y 2023/24 & PMIS

2.2.2 Modernizing Service and Input Provision Systems

Under this subcomponent, the project is supporting the modernization of livestock extension services by enhancing the quality and quantity of services provided by public extension agents and improving the complementarity of private and public extension providers. NLSIP is supporting the delivery of animal health services, feeding, breeding, nutrition and herd management in the project area for dairy animals, meat goats and pashmina goats (Chyangra). Some of the important activities that are supported for implementation and their status are as follows:

1. Animal Health Services and Input:

The project has carried out number of activities under this heading. They are as follows:

In the last F/Y 2022/23, the project had further carried out vaccination against FMD to 3.002 million heads of large ruminants and against PPR 8.0 million heads of small ruminants. In cumulative terms the number of vaccination against FMD reached to 10.38 million heads and against PPR 37.325 million heads. In the F/Y 2021/22, the project prepared the vaccination card for the record and documentation of each vaccination for each animal vaccinated. FMD vaccination is to be carried out two times a year and PPR every year to have the effective antibody level. Table 2.6 below provides the year wise and cumulative vaccination data.

Table 2. 6: Vaccination against FMD and PPR

Vaccination against	F/Y 18/19	F/Y 19/20	F/Y 20/21	F/Y 21/22	F/Y 22/23	FY 23/24	Cumulative Total as of 2022/23
FMD (in Million)	1.005	0.823	2.665	2.885	3.002	NA	10.38
PPR (in million)	7.000	6.565	7.86	7.9	8.0	NA	37.325
Vaccination Card for FMD and PPR	0	0	0	641,300	0	0	641,300 (DLS Requirement)
Total	8.005	7.388	10.525	10.785	11.002	NA	47.705

Source: DLS Report

In the last FY 2022/23, the project further procured 5.325 million doses of FMD vaccine and delivered to DLS. With this procurement, the cumulative doses so far procured reached to 12.669 million doses. These 12.669 million doses of FMD vaccine is to support DLS in its mass vaccination campaign in the high-risk districts under RBSP. With these vaccination campaign carried out every year, there have been significant drop in the number of outbreaks, number of affected animals and number of deaths due to FMD and PPR disease and also prevented morbidity losses as depicted in table 2.7 below. In a study carried out by NLSIP during 2018-19 after analyzing 10 years' data from 2008/09 to 2018, revealed that the total losses due to impact of FMD and PPR have been estimated as NRs 6.44 billion (US\$ 53.94 million) and NRS 149.4 million (US\$ 1.25 million) respectively every year. These losses did not account for the loss in meat production (body weight loss among meat-animals), draft power, loss due to market rejection and other indirect losses. If they were to add then losses will be many fold more. In addition, the project has tender out for the procurement of 3 million doses of FMD and 1 million doses of LSD vaccines. They are yet to be delivered. The project is assisting to prepare the Risk Based Strategic Plan following the progressive control pathway, which is to aim at reducing the outbreak, from the endemic areas and controlling and preventing the disease with vaccination by 2025. Similarly, the project is supporting to prepare National PPR Control Strategy targeting the disease to be fully controlled by 2028 and final eradication by 2030. The FY wise detail procurement of FMD vaccine is provided in annex 2.3 and the vaccination plan (FMD and LSD) for the year 2023/24 is provided in annex 2.17

Table 2. 7: Impact of the vaccination

Incidents	FMD		PPR		Difference (2018 vs 2022)	
	2018	2022	2018	2022	FMD	PPR
NOs. of outbreak	215	92	64	7	123 (57 %)	57(89%)
NOs of affected animals	17,731	3,105	11,286	208	14,626 (82 %)	11,078 (98%)
NOs of death	262	97	372	44	165 (63 %)	328 (88%)

The project has supported the National Vaccine Production Laboratory (NVPL) supplying new modern equipment in order to bring innovation and modernization in the production system and to upgrade the facility of vaccine production especially focusing on PPR vaccine production. With this equipment in hand, NVPL can work in developing other similar vaccines for emerging diseases required for the country. The project also supported CVL, VSDRL and CRVH supplying most modern equipment to strengthen their capabilities in their service delivery. In the last F/Y 2022/23, supply of 16 units of haematology analysers and 15 units of USG machines to different government institution further enhances their capabilities in service delivery. The list of equipment supplied to the NVPL, CVL, CRVH and VSDRL until the F/Y 2022/23 is provided in table 2.8 below. There is no procurement in the current trimester of FY 2023/24. NVPL, CVL, CRVH and VSDRL are all federal institution under DLS supported by the project.

Table 2. 8: List of equipment’s supplied to different Veterinary Laboratory under DLS

List of equipment’s	F/Y 2018/19	F/Y 2019/20	F/Y 2020/21	F/Y 2021/22	F/Y 2022/23	Total as of 2022/23
Multi –channel (8) micro-pipette (0.5-10 µl)	8	0	0	0	0	8 (NVPL)
Multi –channel (8) micro-pipette (10-100 µl)	8	0	0	0	0	8 (NVPL)
Automatic Bacteria Identification Machine	1	0	0	0	0	1 (CVL)
Haematology Analyser ¹	0	0	2	0	16 ²	1 (CVL) & 1 (NADIL)
Bio-chemical Analyser ³	0	0	1	0	0	1 (CVL)
Roller Culture System	0	1	0	0	0	1 (NVPL)
Spectrophotometer with Elisa reader	0	1	0	0	0	1 (NVPL)
Centrifuge with continuous flow motor	0	1	0	0	0	1 (NVPL)
Hot air oven	0	0	1	0	0	1 (NVPL)
Refrigerated Centrifuge	0	0	1	0	0	1 (NVPL)
Lyophilize bench top	0	1	0	0	0	1 (NVPL)
Deep Freezer	0	1	0	0	0	1 (NVPL)
Cross flow filtration system	0	0	1	0	0	1 (NVPL)
Automatic Labelling Machine	0	0	1	0	0	1 (NVPL)
Washing Machine	0	0	1	0	0	1 (NVPL)
Digital foggier	0	0	1	0	0	1 (NVPL)

¹ Total Hematology Analyzer procured were 23; the distribution list for 5 is provided in Table 2.10 below

² The distribution list of remaining 16 units of Haematology Analyser is provided in Annex 2.13

³ Total Bio Chemical Analyzer procured were 5; the distribution list for other 4 is provided in Table 2.10 below

List of equipment's	F/Y 2018/19	F/Y 2019/20	F/Y 2020/21	F/Y 2021/22	F/Y 2022/23	Total as of 2022/23
Incinerator	0	0	0	1	0	1 (NVPL)
Horizontal Autoclave	0	0	0	1	0	1 (NVPL)
Cold Room (944.94 CFT) ⁴	0	0	2	0	0	1 (NVPL) & 1 (NADIL)
Reagents, Diagnostics kits and Chemical	QS	0	0	5 set	0	VSDRL & NARC
HPLC Grade Water Purifier	0	0	1	0	0	1 (VSDRL)
Washing Machine	0	0	1	0	0	1 (VSDRL)
Endoscopy Machine Probe	0	0	1	0	0	1 (CRVH)
Cautery Machine	0	0	1	0	0	1 (CRVH)
Double Door Autoclave	0	0	1	0	0	1 (CRVH)
Microscope with Camera	0	0	1	0	0	1 (CRVH)
USG Machine ⁵	0	0	2	0	15 ⁶	1 (CRVH) & 1 (AFU)
Digital X-Ray Machine ⁷	0	0	1	0	0	1 (CRVH)
Coagulation Analyser	0	0	1	0	0	1 (CRVH)
Double Door Autoclave	0	0	1	0	0	1 (CRVH)
RT-PCR Machine ⁸	0	0	0	3	0	1 each in CVL, VSDRL & FMD-TADS Laboratories

Source: PMU

In addition, NLSIP has also supported the construction of experimental animal house in VSDRL and refurbished the vaccine section for carrying out different tests including safety and potency, inInstallation of prefab cold room for vaccine storage in all seven provinces, Installation of bi-safety cabinet at different veterinary laboratories, procurement of testing kits to VSDRL, are some of the major activities that have taken place in F/Y 2019/20, 2020/21, 2021/22 and 2022/23 with an aim to modernize the veterinary service delivery in the country.

The project has also supported the Quarantine Division under the DLS supplying some of the essential and critical equipment required for their service delivery. The total number of equipment

⁴ Total Cold Room (944.94 CFT) Procured were 7; distribution list for other 5 is provided in Table 2.10 & 2.11

⁵ Total USG Machine procured were 37 units (22 units in FY 2020/21 and 15 units in FY 2022/23). The distribution list for 20 is provided in the Table 2.11 and Table 2.13

⁶ The distribution list of remaining 15 units of USG machine is provided in Annex 2.10

⁷ Total Digital X-Ray Machine procured were 8. The distribution list for other 7 is provided in the Table 2.11

⁸ Total RT-PCR procured were 5, the distribution list for other 2 is provided in Table 2.10

supplied to the Quarantine offices reached to 14. These have supported not only to increase the capacity but also to help in one health approach to deal with new emerging contagious diseases. The list of equipment provided to them is given in annex 2.4

To address one health approach and to support COVID impact the project has developed cold chain facilities in the project command districts and different veterinary laboratories. These facilities have provided substantial space for vaccine storage. The capacity for each of these facilities of the cold chain is provided in table 2.9 below

Table 2. 9: Type of cold chain developed by the Project.

S.N.	Type of Cold Chain	Capacity & Location		Status
		Volume (CFT)	Location (city, province)	
1	Prefab Walk in Cold room (2-8 0C) Total 7 in Number	944.94 for each unit	Central and Provincial Laboratories under Federal Government and VHLSEC Banke under Provincial Government.	Installed and operational
2	Smaller Size Prefab walk in cold room total 14 in number	305.29 CFT	14 VH & LSSC (Provincial Government)	Installed and operational
3	Double Door Refrigerator, 53 (-200 C & 2-8 0C) and 47 Refrigerators with Freezing Compartment ⁹	220 Lt	Project Supported 100 Palikas (Local Government)	Delivered to targeted Palikas
4	Common Refrigerator (20)	345 Lt	Quarantine Check posts (federal)	Installed
5	Vaccine Storage Refrigerator (12)	269 Lt	Quarantine Check posts (Federal)	Installed
6	Cool Box for vaccine carriage, 2,332 (50 hrs holding time)	2.46 Lt	Project Districts (Provincial and Local)	Distributed to Project Districts
7	Procurement of chilling vat (67) ¹⁰	500 & 1000L	Demand based (local)	All are delivered

Source: PMU

The project procured and delivered the following modern equipment to Veterinary Laboratories to improve their service delivery. The list of equipment provided to them are as follow in table 2.10 below

⁹ Distribution List is in the Annex 2.7

¹⁰ Distribution List is in the Annex 2.8

Table 2. 10: List of equipment supplied to Veterinary Laboratories. (Federal)

S.N	Name of the equipment supplied	Location	Operational Status
1.	RT-PCR Machine (2)	Vet. Lab at Pokhara & Surkhet	Delivered & operational
2.	Bio Safety Cabinet (5)	Vet Labs at Biratnagar, Janakpur, Pokhara, Surkhet and Dhangadi	Delivered & Operational
3	Walk in Cold Room (994.94 CFT) (4)	Vet Labs at Biratnagar, Janakpur, Pokhara, and Dhangadi	Delivered & Operational
4.	RT-PCR reagents, PPE sets, other diagnostic kits and chemicals	Vet Laboratories	Delivered
5.	Biochemical Analyser (4)	Vet Labs at Biratnagar, Janakpur, Pokhara and Surkhet	Delivered & Operational
6.	Haematology Analyser (5)	Vet Labs at Biratnagar, Janakpur, Pokhara, Surkhet and Dhangadi	Delivered & Operational

Source: PMU

The project also procured and delivered the following modern equipment to VH & LSECs to improve their field service delivery. The list of equipment provided to them are as follows in table 2.11 below

Table 2. 11: List of Equipment's supplied to VH & LSEC (Provincial)

S.N	Name of the equipment supplied	Location	Operational Status
1	USG Machine (18)	VH&LSEC at Ilam, Jhapa, Morang, Dhankuta, Saptari, Udayapur, Sunsari, Dhanusha, Sarlahi, Parsa, Lalitpur, Pokhara, Nabalpur, Syangja, Bhairahawa, Banke, Kailali and Kanchanpur	Delivered & operational
2	Digital X-Ray (7)	VH&LSEC at Biratnagar, Mahottari, Chitwan, Makawanpur Pokhara, Bhairahawa and Kanchanpur	Delivered & Operational
3	Walk in Cold Room (994.94 CFT) (1)	VH&LSEC Banke	Delivered & Operational
4	Cold Room (305.29 CFT) (14)	VH&LSEC at Panchthar, Jhapa, Dhankuta, Sunsari, Udayapur, Tanahu, Palpa, Dang, Syangja,, Nawalparasi, Kapilbastu, Parsa, Kavrepalanchok and Kanchanpur	Delivered and operational
5	Power Back up; Total 38 units (Diesel Generator-17; Stabilizers-18 and Transfermers-3)	RVLs, VHLSECs and seed processing unit	Delivered and operational

Source: PMU

DLSUs have also procured various equipment and distributed to POs for innovation and modernization of the services. The list of the equipment distributed by DLSUs is provided in annex 2.14

The project also provided extensive practical hands on training on the use of USG and digital x-ray to 89 participants in four batches, representing, VH & LSEC, LSC, CTEVT and also from police department. The resource persons were invited from private organizations, human hospitals and other private practitioners. The trainings built the confidence of the participants to use this modern equipment in the veterinary services they are engaged with.

In addition, at the end of last FY 2022/23 and in the beginning of the current FY 2023/24, the project was able to deliver one 35 days' orientation training to 30 veterinary drug entrepreneurs jointly with Department of Drug Administration. The training was conducted in Livestock Service Training Center, Lagankhel, Lalitpur. The training will allow the participants to operate the veterinary drug shop with liscence. The participant selected for the training is provided in the annex 2.11 & 2.12

2. Livestock Genetic Improvement Program

Among four pillars of livestock development, livestock breeding is a very important pillar for the productivity enhancement of the animals. Genetic improvement is the crucial factor of animal breeding. Genetic improvement is possible by the selection of dams and use of bulls with higher breeding values for natural as well as artificial insemination (AI). To get high performing bulls from elite mothers, NLSIP is investing for the establishment of the pedigree performance recording system (PPRS) in cattle and buffalo. Different activities are undertaken, they include but not limited to i) implementation of field activities, ii) strengthening capacities of National Livestock Breeding Offices (NLBOs), DLS, and iii) institutionalizing and building capacity of producers' organizations for the establishment and operation of genetic improvement programs of dairy cattle and buffalo. The focus is on the selection of bull mothers from the herds registered in PPRS and upgrading them by using imported semen for the production of sires with high genetic merit that are adaptive, more productive and resilient to climate change impacts in Nepal. The results obtained so far are encouraging.

To accelerate the PPRS program at the field level, the project had hired an individual consultant in the capacity of PPRS and Data Management expert who, in collaboration and coordination with NLBOs, implemented activities as per the ToR given to him. As per the approved guidelines of PPRS, nine districts have been selected so far. The total number of animals under this recording system has been given in table 2.12 below:

Table 2. 12: Summary of herd details as of November, 2023

SN	District	Herd no	Total Animals in herds			Animal in recording		
			Cattle	Buffalo	Total	Cattle	Buffalo	Total
1	Chitwan	3	739	0	739	373	0	373
2	Dolakha	1	150	0	150	114	0	114
3	Gorkha	1	305	0	305	230	0	230
4	Kaski	21	760	250	1010	505	160	665
5	Kavre	19	320	80	400	210	50	260
6	Lamjung	1	65	0	65	44	0	44
7	Nawalparasi	22	1,273	0	1,1273	751	0	751
8	Rupandehi	15	780	80	860	586	41	627

SN	District	Herd no	Total Animals in herds			Animal in recording		
			Cattle	Buffalo	Total	Cattle	Buffalo	Total
9	Tanahu	13	760	0	760	487	0	487
	Total	96	5,152	410	5,562	3,300	251	3,551

Source: NLBO

A total of 5,562 animals (5,152 cattle and 410 buffaloes) are taken as the base animals from nine selected districts. Among these animals, a total of 3,551 lactating animals (3,300 cattle and 251 buffaloes) are registered to get the monthly milk records and other details. However, as per the PPRS guideline, 2022, at least 5,000 lactating animals (4000 cattle and 1000 buffaloes) are needed for their performance analysis based on the statistical software.

The NLBO, Pokhara has been working as one of the NLSIP cost centers from fiscal year 2020/21. The project also supported in the construction of farm quarantine shed within NLBO, Pokhara. This shed is being used in keeping the elite imported bulls, for their quarantine purpose. The storage room, record room, compound wall and the entrance gate of the bull mother shed are also completed. The maintenance work of the bull mother shed is already completed and is in full use now.

Based upon the performance records of the sires and dams, bulls will be procured from PPRS herd as per the norms and standards set in the guideline and will be tested for their physical as well as reproductive performance. Once found fit for semen production, they will be used in the regular semen collection for the production of frozen semen to be used in the national breed improvement program.

To make the PPRS program more effective and software based, one-day workshop was conducted at NLBO, Pokhara on 8th February 2023 to orient the officers, technicians and other stakeholders about the use of PPRS App. More than 30 technicians actively participated and provided their feedback and suggestions to make this App more effective. This App is now ready to handover to NLBO, Pokhara via DLS.

A central level workshop was held in Lalitpur to demonstrate the present status, working modalities, progress achieved so far, action plan and way forward of PPRS program of NLSIP on 30 June, 2023 where more than 70 officials, including joint secretaries and senior officers of the ministry of agriculture and livestock development; director of livestock and fisheries and chiefs and senior scientists of different centers/divisions of NARC; professors of the universities; DG, DDGs, chief livestock development officers, chief veterinary officers and seniors officers of the DLS; PD and all the officials and consultants/experts of the PMU, NLSIP; officials from the veterinary council; progressive farmers and stakeholders of the PPRS program, actively participated. The workshop has come up with the clear-cut recommendations for the future implementation of the PPRS program in a sustainable manner.

The list of equipment provided and type of infrastructure developed for PPRS activities are provided below in table 2.13 and 2.14 below

Table 2. 13: List of equipment's provided

S.No	Name of the Equipment	Unit	Location
1	Semen Straw Sealing, Filling and Packing (printing) Machine	1	LBOs Lahan
2	Semen Straw Counting and Packing Machine	1	NLBO, Pokhara
3	USG Machine	2	Pokhara and Lahan
4	Milk Analysers	20	NLBO and PPRS program districts
5	Air Tag Large Size (40,000) and small tip tag (40,000)	80,000	NLBO Pokhara
6	Air tag Applicator (Large-40 & small -40)	80	NLBO Pokhara
7	Cattle semen 10,000 doses (Jersey-7,000 and HF-3,000)	10,000 doses	NLBO Pokhara
8	Breeding Bulls (Jersy-4 and HF-2) from the USA	6	NLBO, Pokhara and Lahan
9	Procurement of bull calves from PPRS herds implemented by the NLSIP (HF-20, Jersey -14)	20+14 (34)	NLBO Pokhara
10	Procurement of Murrah buffalo bulls from PPRS herd	5	NLBO Pokhara

Source: NLBO & PMU

The project is also adding some infrastructures at NLBO Pokhara and Lahan to facilitate the PPRS program in a more sustainable manner. Based on the demand by NLBOs construction of Semen Processing Laboratory at Lahan has been completed and inaugurated by Honorable Minister for MoALD, Dr. Bedu Ram Bhusal. Table 2.14 below depicts the different infrastructures supported by the project to strengthen PPRS.

The imported bulls from USA (J-4, HF-2) have started donating semen. The total semen collected as of Nov, 2023 is 100,000 doses. This is worth of US\$ one million, equivalent to NRS 130 million. These bulls can be used for semen collection for 5 years in which period they can contribute up to 0.75 million doses of semen (@ 25,000 doses/head per year). The worth of these semen would be US\$ 7.5 million (equivalent to NRS 975 million). The subsequent change, from the use of these semen, in the milk productivity enhancement and total milk production of the country would be remarkable

Table 2. 14: Type of infrastructure supported

Activities	Location	Total cost (NRs million.)	Physical progress
Construction of Bull Mother Shed	NLBO Pokhara	9.62	Completed
Construction of Bull Shed	NLBO Pokhara	7.339	Completed
Construction of Bull Mother Shed	NLBO Lahan	6.39	Completed
Construction of Store Room, Record Room and Compound Wall	NLBO Pokhara	6.501	Completed
Construction of Farm Quarantine Shed	NLBO Pokhara	8.83	Completed
Construction of Semen Processing Lab	NLBO Lahan	47.03	Completed

Source: PMU

Clusters proposed for PPRS program in cattle and buffalo as per the study report carried out by NLSIP in 2018-19 is shown in table 2.15.

Table 2. 15: Clusters proposed for PPRS program in cattle and buffalo

Clusters	Districts	Primary breeds	Secondary breeds
I	Kaski, Tanahu, Chitwan, Rupandehi, Makawanpur, Nawalparasi and Kavre	HF crossbred	Jersey and Murrah crossbred
II	Ilam, Jhapa, Morang, Sunsari, and Dhankuta	Jersey crossbred	HF and Murrah crossbred
III	Kapilbastu, Nawalparasi, Rupandehi, Saptari, Siraha, and Dhanusha	Murrah crossbred	HF and Jersey crossbred

In addition, the project had also supplied AI equipment in earlier F/Ys 2075/76 (2018/19) annexes 2.5 & 2.6

Feed Base Development and Animal Ration Balancing

The project had developed nutrition strategy and action plan after assessment of the sector in the initial project implementation year 2018/19. The strategy is yet to approve by the government however, it has recommended 11 different major nutritional interventions to improve the feeding practices of the animals. The recommended interventions are as follows:

- Implementation of ration balancing program,
- Production and distribution of mineral mixture,
- Supplementation of urea molasses mineral block in the ration,
- Chaffing of fodder,
- Enrichment and densification of crop residues,
- Compound cattle feed quality regulation,
- Green fodder production and enhancement,
- Calf rearing program,
- Greenhouse gases (GHGs) emission reduction,
- Use of bypass protein feed for enhancing milk production,
- Development of a broad spectrum toxin binder.

Until the reporting period, the project through its DLSUs, supported farmers to establish model nursery, distributed forage seed and sapling to grow more forage and fodder, shed and manure improvement for cattle and goats, supply of silage making machine and produced forage seed through contract farming. Up to the reporting period, the project supported to establish 25 nurseries, which has the capacity to produce around 250, 000 saplings for new plantation every year. Until the last FY 2022/23, additional 157.18 Mt of forage seed were distributed to the members of POs for winter and summer forage development, which will cover around 2,810 ha of land. The cumulative amount of improved seed distributed up to the reporting period reached to 734.25 Mt. The project also distributed 2.4 million sets of saplings to the members of POs for forage development. The project also supplied 33 units of silage making machine to the best performing cooperatives; all these interventions are bringing changes in feeding practices. The project also provided 2 days' hands on training for the preparation of silage to the representative of the cooperatives where the silage-making machines were distributed. In addition, 137 Ha of land contracted out to produce forage seed in the reporting period. The cumulative coverage of contracted land for forage seed production reached to 582 Ha. They have the capacity to produce 712 Mt of seasonal improved forage seed. Until the reporting period the cumulative area covered by the different types of fodder and forage (winter, summer, perennial and tree fodder reached to 8,550 ha. The estimated biomass production from the area covered is the 457,027 Mt. The details of the progress achieved so far is provided in table 2.16 below. In the 1st trimester of the FY 2023/24, there is no progress to be reported.

Table 2. 16: Feed Base Development

S.N	Activities	Unit	Fiscal Years						Total
			18/19	19/20	20/21	21/22	22/23	23/24	
1	Nursery Establishment	No.	-	8	8	5	4	NA	25
2	Shed & Manure Improvement	No.	-	-	1461	104	-	NA	1565
3	Distribution of silage making machine	No.	-	9	24	NA	-	NA	33
4	Distribution of improved seed for forage development	Mt	8.53	377.82	144.94	45.78	157.18	NA	734.25
5	Distribution of improved saplings for forage development	In 'ooo'	200.27	544.19	749.84	207.85	700.99	NA	2,460.14
6	Contract farming for Seed production	ha	201	83	126	35	137	NA	582
7	Forage production in community land	ha	21	16	197.5	44	23	NA	301.5
8	Goat shed improvement	No.	-	-	838	182	-	NA	1,020
9	Herd Health Program	No	-	35	291	392	-	NA	718

Source: NLSIP PMIS

In addition, the project has supplied various modern equipment's to National Animal Feed and Quality Management Laboratory (NAFQML) under DLS to strengthen their analytical capabilities. The

DUMAS machine supplied to NAFQML will help to determine protein and nitrogen from the sample of feed, feed ingredients, forage, pet food, grain, cereals, oil seeds, meat, meat products, dairy, dairy products. It is a fully automated device used for the analysis and quality control in the food and feed laboratories. Additionally, NAFQML is supplied with automatic Bomb Calorimeter, which is used to measure the cross calorific value of solid and liquid samples. This equipment's were supplied to NAFQML on the demand driven basis. Similarly, as recommended by the nutrition strategy the project has procured and supplied two mineral mixture plant to the cooperatives at Chitwan and Tikapur, Dhangadi which has already the experience of animal feed formulation with preparation of feed with their own feed plant. The project also demonstrated engaging the members of cooperative in securing raw materials, mixing procedures, packaging, labelling and marketing of the prepared mineral mixture. The detailed list of equipment supplied to improve feed base is given in the table 2.17 below.

Table 2. 17: List of Equipment supplied to improve Feed Base

S. No	Name of the Equipment	Number	Location
	DUMAS Machine	1	NAFQML, Harihar Bhawan
	Automatic Bomb Calorimeter	1	NAFQML, Harihar Bhawan
	Silage Making Machine ¹¹	33	Different Cooperatives
	Mineral Mixture Plant	2	Unnat Krishi Sahakari, Tikapur Kailali and Chitwan Jilla Dugdha Utpadak Sahakari Sanstha, Chitwan
	Farm Tractor	1	Rhizobium and Forage Grass Seed Production Laboratory, Janakpur

Implementation of Climate Smart Practices

The project is implementing number of activities to improve the nutrition of the animals as well as to reduce the impact of greenhouse gas emission. They include, but not limited to; (1) establishment of nursery to grow more forage seedlings to be able to distribute to the farmers, (2) shed and manure improvement, (3) goat shed improvement (4) distribution of forage seed, (5) support to contract farming helping farmers to grow more quality seed to contribute to the national seed requirement for forage, (6) Silage and hay demonstration and (7) support to community land. In all these activities 47,673 farmers are benefitted of which 48.3 % are the female. The detail is provided in the table 2.18 below:

¹¹ Distribution List is provided in the Annex 2.9

Table 2. 18: Number of Beneficiaries Engaged in Climate Smart Practices

S.N.	Climate Smart Practices	Unit	Total Achieved	Beneficiaries		
				Male	Female	Total
1	Nursery Establishment	Num	25	56	1,440	1,496
2	Shed & Manure Improvement	Num	1,565	1,118	863	1,981
3	Procurement of silage making machine with hands on training	Num	33	922	897	1,819
4	Distribution of improved seed for forage development	Mt	734.25	11,160	9,307	20,467
5	Distribution of improved saplings for forage development	In '000'	2,460.14	4,418	3,361	7,779
6	Contract farming for Seed production	Ha	582	789	242	1,031
7	Forage production in community land	Ha	301.5	2,060	1,340	3,400
8	Goat shed improvement	Num	1,020	451	569	1,020
9	Herd Health Program	Num	718	3,695	4,985	8,680
	Total			22,669	23,004	47,673
	Percent			51.7	48.3	100

Infrastructure Development Works

Until the reporting period 54 different infra structure development works initiated by PMU were completed. Of the 54 different works, 28 are LSCs, 5 are livestock markets including the completion of Damak market, 5 are bull mother sheds including semen processing laboratory, 4 training centers and compound wall, 5 infrastructures to support livestock farms, and 7 different works to support NVC, Parasitology lab, VSDRL improvements and compound walls. All are fully completed and handed over to the respective palikas and government units. In all these works, NRS 771.125 million were contracted out of which NRS 794.115 has been disbursed (97.14%). The summary of the financial progress of 54 different civil works is provided in the table 2.19 below.

Table 2. 19: Summary of Status of Different Construction Works initiated by PMU

S.N.	No. of Infrastructure Development works	Contract Amount (NRS in million)	Payment as of July 16, 2023 (NPR in million)	% of the expenditure	Status
Livestock Service Centers					
1	28 (Twenty-Eight)	380.70	374.59	98.4	All completed & handed over to respective Palikas

Livestock Live Animals Markets					
2	5 (Five) four new markets & completion of Damak Market	146.275	145.39 & 45.0	99.39	All completed & handed over to respective Palikas with business plan
Bull Mother Sheds & Semen Processing Laboratory (Pokhara, Lahan and Jiri)					
3	5 (Five)	81.35	79.065	97.19	All completed and handed over to respective NLBOs & Jiri farm
Training Centers including at Karnali Province with compound wall					
4	4 (Four)	49.57	48.17	97.17	All completed and handed over
Support to Livestock Farms					
5	5 (Five)	24.95	24.67	98.87	All completed & handed over
Support to other infrastructures (NVC, Parasitology lab, compound wall and VSDRL)					
6	7 (Seven)	88.28	77.23	87.4	All completed. Payment due to VSDRL
Total	54 (Fifty-four)	771.125	794.115	102.98	All completed

In addition, DLSUs have also developed small-scale public infrastructure works. Summary of the different infrastructures facility developed by the DLSUs as per the demand of the respective government offices and palikas are presented below in the table 2.20.

Table 2. 20: Summary of Status of Different Construction Works initiated by DLSUs

Type of Infrastructure Developed	Number	Location	Agreement Amount in NRS million	Paid Amount in NRS million	Status
Biological Pits	11	VH & LSECs- Bhadrapur, Morang-, Kavre, Makawanpur, Saptari, Siraha, Sindhuli each -1; AQO-Jhapa, Belehiya (Rupandehi),	10.21	9.8	All completed

Type of Infrastructure Developed	Number	Location	Agreement Amount in NRS million	Paid Amount in NRS million	Status
		Banke and Gaddachouki			
Milk Collection Centres	7	Jhapa, Nuwakot, Saptari, Siraha, Rasuwa, Kaski and Kapilbastu	18.44	17.37	All completed.
Goat Collection Centers	4	Tanahu, Arghakhanchi, Rupani and Nawalpur	17.829	17.05	All completed.
Seed Storage and Processing Centers	4	Sunsari, Nawalparasi, Dang and Rhizobium Lab at Janakpur	25.89	18.04	Civilwork completed. Machinery part is yet to be installed at Dang, Nabalparashi and Janakpur
Cow Shed (Gaushala)	1	Syangja	0.5	0.491	Completed
Travis	2	Syangja and Myagdi	0.196	0.196	Completed
Total Expenditure			72.734	47.167	64.58 %

Ongoing construction works

There is only one infrastructure works that is ongoing now. It is the construction of BSL 2 Laboratory at Budanilkantaha, Kathmandu. The laboratory is a priority laboratory for the diagnosis of FMD virus strain, as Nepal has entered into the Progressive Control Pathway of FMD in the SAARC region. The total agreement amount for the construction of the laboratory is NRS 81,712,311.00 and the expected completion date is June 14, 2024. The contractor E.G. INFRA PVT. LTD is constructing the laboratory since Oct 17, 2023 and Apex Engineering firm is supervising it. The physical progress achieved so far is 20 %

2.2.3 Strengthening Training and Extension Services

The project is organizing capacity development programs in two folds, one for staff and technicians and the other for farmers and POs. For staff and technicians, until the reporting period of F/Y 2023/24, the project has supported three international training to 9 participants in Kenya and Bangkok. In addition, the project has carried out 171 different slots to train 4,920 staff in 13,402 client days, of which only 12.3 % are the female. Of 171 slots 7 slots of FFS MTot/ToT training were organized to

advance the project targeted FFS activities at the field level. They were 4 MTOT/TOT in FFS for officers' level and 3 were in FFS for technicians. The participations were from different organization from local level to the central level. The total number of participants trained as MTOT /TOT has risen to 158 participants. Similarly, the project was able to conduct 35 days' orientation training to veterinary drug entrepreneurs jointly with Department of Drug Administration to facilitate the trainee to operate the veterinary medicine shop. The list of the participants attended the veterinary drug orientation training is provided in the annex 2.11 and 2.12. Table 2.21 & 2.22 below provides the detail of training activities (staff) carried out by the project since the F/Y 2018/19.

Table 2. 21: International Training

S.N.	F/Y	Type of Training	Participants	Location	Duration	Organizer
1	2017/18	Observation	6	Kenya	9 days	WB
2	2019/20	M & E Training	2	Bangkok	6 days	FAO/WB
3	2019/20	LSIPT Training	1	Bangkok	5 days	FAO/WB

Table 2. 22: Capacity-Building Activities for Staff

S.N.	F/Y	Type of Training	Events	Duration in days	Client days	Participants		Total
						Male	Female	
1	2018/19	Sub Total	3		533	33	8	41
2	2019/20	Sub Total	48		4,194	1,325	150	1,475
3	2020/21	Sub Total	66		4,140	1,637	275	1,912
4	2021/22	Sub Total	30		1,866	742	93	835
5	2022/23	Sub Total	23		1,619	552	75	627
6	2023/24	Orientation Training to Veterinary Drug entrepreneurs, implemented jointly with DDA	1	35	1,050	25	5	30
7	2023/24	AI Training	1			NA	NA	NA
		All Total as of 2023/24	171		13,402	4,314	606	4,920
		Percent of Participation				87.69	12.31	100

Source: PMIS and DLSU's Progress

In addition, the project had also trained farmers and POs in different capacity building activities. The duration of the most of the training is one day. However, for specific type of training the duration is extended even up to six days. Until the reporting period 327 slots of different training have been organized in 32,961 client days. All together 8,870 farmers or POs representatives were benefitted from all of these type of capacity building program of which 24 % are female. This also includes the 550 credit hours Dairy Diversification Training, the approved curricula from CTEVT organized in 5 slots, where 58 participants were trained. This is a skill based training approved by CTEVT, and having skill test certificate. The participants are eligible for any type of job in the government or in private dairies of that category. The type of training organized is presented in table 2.23 below.

Table 2. 23: Type of Capacity Building Activities Organised for Farmers

S.N.	FY	Activities	Events	Duration in days	Client days	Participants		
						Male	Female	Total
1	2018/19	Sub Total (2018/19)	24		2,009	284	154	438
2	2019/20	Sub Total	71		4,363	1,272	673	1,945
3	2020/21	Sub Total 2020/21	54		9,129	1,477	333	1,810
4	2021/22	Sub Total (2021/22)	123		13,516	2,613	642	3,255
5	2022/23	Sub Total (2022/23)	54		3,842	1,038	349	1,387
6	2023/24	Training on the awareness of the zoonotic disease	1	3	102	28	7	34
	2023/24							
		All Total as of 2023/24	327		32,961	6,712	2,158	8,870
		Percent				75.67	24.33	100

Source: PMIS, DLSU's Progress

Apart from above, the project also organized various interactions, workshops and awareness program engaging both farmers and staff. They were mostly carried out in the cross cutting issues like food safety, one health and PPRS. They were mostly carried out for one-day duration. All together 69 such events were organized; 4,826 participants were present of which around 26 % were the females. The type of activities carried out is presented in table 2.24 below.

Table 2. 24: Type of Capacity Building Activities Organised for Staff and Farmers

S.N.	F/Y	Type of Training	Events	Duration in days	Client days	Participants		Total
						Male	Female	
1	2018/19	Sub Total (2018/19)	4		249	227	22	249
2	2019/20	Sub Total (2019/20)	6		216	199	17	216
3	2020/21	Sub Total (2020/21)	29		2,346	1,516	830	2,346
4	2021/22	Sub Total 2021/22	6		613	523	90	613
5	2022/23	Sub Total 2022/23	23		1,473	1,045	278	1,323
6	2023/24	Stakeholder discussion to implement one health strategy	1	1	79	68	11	79
		All Total as of 2023/24	69		4,976	3,578	1,248	4,826
		Percent of Participation				74	26	100

Source: PMIS and DLSU's Progress

2.2.4 Curriculum Development

The project has organized two important workshops to revise/update the existing curriculum of Veterinarians and Para-veterinarians. The first workshop was organized on June 18, 2023 inviting experts from universities, MoALD, DLS, NVC and NARC. the revised/updated B.V. Sc & AH curriculum is expected to submit by NVC for further discussion. Similarly, another workshop was organized on July 13, 2023 inviting experts from CTEVT, Universities, MoALD, DLS, NARC, Councils and professional organization to revise/update the existing curriculum of para-professionals. The CTEVT will provide updated curriculum for wider discussion

2.3 Component C: Promoting Inclusive Value Chains for Selected Livestock Commodities

The objective of this component is to develop a more commercial-oriented approach for selected livestock subsectors and to contribute to import substitution (for dairy products and goat meat) and export promotion (for Chyangra cashmere) by improving the productivity and value addition within the targeted value chains. The component directly contributes to the PDO by supporting the integration of smallholder livestock farmers in those value chains. The component focuses on improving smallholders' access to markets and on strengthening the backward and forward links among value chain actors. This component also facilitates to establish active engagement of productive partnership between the various active value chain actors including finance and insurance institutions. These productive partnerships are supported through a Matching Grant (MG) mechanism by a combination of 50 % IDA grant, 20 % contribution in cash by the respective producer's organization and remaining 30 % as short to medium term loan from the participating financial institution. The component includes two subcomponents: (1) development of productive partnerships, and (2) financing livestock value chains

2.3.1 Development of Productive Partnership (PP)

The Project has prepared the SoP for the operation of Stakeholder Dialogue Platform and received approval from MoALD on Jan 22, 2019. As per the approved SoP, the project had established Stakeholder Dialogue Platforms (SDPs) at three levels (Central, Cluster and District Level). They all are operational. They have met 117 times until the current reporting period. Until the F/Y 2022/23, they have met 117 times and discussed on various project implementation agendas. The table 2.25 below provides year wise SDP meetings held at different level.

Table 2. 25: Number of SDP Meetings Organised as of FY 2023/24

Activities	18/19	19/20	20/21	21/22	22/23	23/24	Total
SDP Meetings at District level	0	24	38	18	13	NA	93
SDP meetings at Province Level	0	7	8	5	2	NA	22
SDP Meetings at National Level	0	1	0	0	1	NA	2
Total	0	32	46	23	16	NA	117

2.3.2 Financing Livestock Value Chain

This component is following a two-pronged approach:

Providing matching grant to eligible value chain participant to partially finance productive livestock business plan on competitive basis.

This subcomponent is designed to extend matching grants on a competitive basis to a minimum of 350 small and medium enterprises in the project supported livestock value chains. Eligible grant recipients are required to have entered into a Productive Alliance (PA) to ensure a market for their products. Furthermore, grantees must obtain loans from BFIs to the extent of 30% of their investment plan and put in 20% equity. The maximum amount of grant award to one grantee is Rs. 10 million.

The project has revised the PIM incorporating all the elements required for a successful implementation of the project activities including the implementation of sub-project financed under matching grant scheme. The PSC meeting held on March 22, 2020 with no objection from the WB

on Feb 17, 2020 has approved the project developed PCN preparation and field verification procedures. In addition, the project has also developed the FPP preparation, submission and evaluation procedures and received approval from 5th Project Steering Committee held on Oct 05, 2020 with no objection from the Bank. The FPP preparation procedure was used as training materials for the preparation of FPPs to all Grant Applicants. Similarly, the 6th project Steering Committee held on Jan 10, 2021 approved the guidelines for the invitation of PCNs from eligible private firms and small and medium entrepreneurs in the targeted value chain. The ninth PSC meeting held on November 12, 2021 has approved the Sub Project Implementation Guideline.

To assist in the PCN preparation, the project also completed an assessment for potential buyers for dairy, goat meat and chyangra.

The project published the public notice on Nov 12, 2019 for buyers requesting them to place their demand in quantity, quality and place for delivery of the project targeted value chain on dairy, meat and chyangra pashmina. Project received very little responses on this notice.

The project published a public notice for a first call for proposal on June 10, 2020 inviting concept notes from cooperatives and farmer groups and from producer associations on June 30, 2020 providing 45 days' time to submit the proposal. Similarly, the public notice for call 3 (Private Companies and SMEs) was published on Feb 02, 2021. After the call, there was a great enthusiasm among the farmers for the submission of proposals for matching grant support.

The detailed number of Project Concept Notes (PCNs), Full Project Proposals (FPPs) received and agreements signed under call 1 & 2 is presented in table 2.26 and under call 3 in table 2.27 below. The district wise PCNs received is presented in the annex 2.23

Table 2. 26: Number of PCNs, FPPs and number of SPs Signed Under Calls 1 & 2

DLSUs	PCNs Received	Total FPP invited after FV	Total FPPs received after FV	Qualified FPPs with approved loan	Number of SPs signed for MG support	Cancellation	At Implementation
Biratnagar	199	145	133	50	50	8	42
Hetauda	235	152	132	95	75	6	69
Pokhara	194	178	138	89	74	19	55
Butwal	136	127	103	56	50	3	47
Total	764	602	506	290	249	36	213

Table 2. 27: Number of PCNs, FPPs and Number of SPs Signed Under Call 3

Cluster	PCNs received	FPPs invited after FV	Total FPP Received after FV	FPPs invited for negotiation based on merit	No. of Agreements Signed	Cancelled	At Completion
Morang	726	262	211	117	96	34	62
Hetauda	512	249	221	91	82	44	38
Pokhara	648	200	152	109	85	29	56
Butwal	523	183	164	139	117	38	79
Total	2,409	894	748	456	380	145	235

The Project had received a total of 1,254 (506 from Call 1 & 2; and 748 from call 3) Sub Project Proposals/Business Plans from all three calls. Following technical evaluation and receipt of the required loan approval evidence from approved banking and finance institutions (BFIs), the Project entered into Matching Grant Agreements with 629 (Call 1 & 2-249 and call 3- 380) sub Project Proponents almost 50 % of the total FPPs received. Some of the reasons for reduced number of grant agreements are the following;(1) Liquidity crisis in the Bank, (2) FGs are not recognized as legal entity by some of the banks, (3) conflicts among the members within the FGs and cooperatives, (4) collateral deficits and (5) long administrative procedures in the Bank for the sanction of the loan. Similarly, there are 181 SPs (Call 1-2-36 and Call 3-145) cancelled after the grant agreement signed. Some of the reasons for cancellation are; (1) Supreme Court Stay Order of May 05, 2022, (2) not willing to take forward, voluntarily withdrawn (3) BFIs did not obliged the earlier commitments due to liquidity crisis, (4) very long & cumbersome grant implementation procedures, (5) Lot of conditions on grant and (6) increased cost of the construction materials. The total number of Sub Projects (SPs) under implementation across all calls now stands at 448 (213 under call 1 & 2; 235 under call 3). All 213 SPs under call 1 & 2 have been completed on April 30, 2023 and 173 SPs under call 3 were completed by Dec 07, 2023 and other 62 SPs under call 3 are in the process of verification. The total amount of grant committed after cancellation for all calls is now at NRS 2,361.44 million equivalent to US\$ 18.16 million (exchange rate 1 USD= NRS 130). The total amount invested in these 448 SPs in terms of equity, bank loan and grant is at NRS 4,780. 18 million (table 2.28 below). With the interim order issued by the Supreme Court on May 05, 2022 against the writ application filed by Muga Malbase Dihi, FG, Secretary Mr. Ganga Bahadur Thapa on Aril 26, 2022, the instalment payments to the SPs under call 3 faced serious impact for nearly 7 months, later in December 11, 2022; MoALD provided clearance to make the installment payments to successful call 3 SPs. The detail of the writ petition and stay order from SC is presented in the annex 2.1.

Table 2. 28: Total number of SPs and investment under MGS

Type of Investments in all calls	Call 1	Call 2	Call 3	Total
Total number of SPs signed originally	246	3	380	629
Number of SPs cancelled	36	0	145	179
Total number of SPs successfully completed or operational	210	3	235 Of which 173 completed	448
Originally committed grant for the signed SPs in million NRS	1,776.838	25.605	1,282.25	3,084.69
Committed grant amount after cancellation in million	1,512.402	25.605	823.43	2,361.44
Committed Loan from participating BFIs in million NRS	1,052.686	15.835	576.07	1,644.59
Committed Equity in million NRS	494.881	9.771	269.5	774.15
Total Investment (Equity +BFIs loan +Grant) in million NRS	3,059.97	51.21	1,669	4,780.18
Average size of the matching grant.	7.2	8.5	3.5	5.27
Average size of the BFIs loan	5.01	5.27	2.45	3.67

Average size of the Equity	2.35	3.25	1.15	1.72
Average size of the total project cost (equity, loan and grant)	14.57	17.07	7.1	10.67
Total Disbursement as of Dec 07, 2023 (in million NRS)	1,208.946	20.987	616.34	1,846.27
Average size of the grant in terms of disbursement	5.75	6.99	NA	NA
Disbursement Rate (%)	79.94	81.96	74.48	78.18

Of 448 SPs under implementation, private firms and companies occupies highest presence at 52.66 % followed by cooperatives at 29.55 % and least with farmer's group at 17.11 %. Presence of producer's association is almost negligible. In terms of NLSIP grant, FGs and Cooperatives stand at 63.98 % and Private Firms stands at 34.93 %, about 29 percent points lower than FGs and Cooperatives. The table 2.29 and figure 2.1 below provides the detailed number

Table 2. 29: Distribution of SPs by Producer's Organization

DLSUs	Sub projects by Producer's Organization				Total
	FGs	Coop	Producer's Association	Private Firms & Companies	
Biratnagar	13	29	0	62	104
Hetauda	22	46	1	38	107
Pokhara	33	20	2	56	111
Butwal	9	38	0	79	126
Total SPs	77	133	3	235	448
Percent	17.18	29.68	0.67	52.45	100
Grant Amount committed in million NRS	1,512.402 (64.05%)		25.6	823.43 (34.86 %)	2,361.44 (100 %)

Figure 2. 4: Investment Trend (FGs/Coop vs Private Firm)

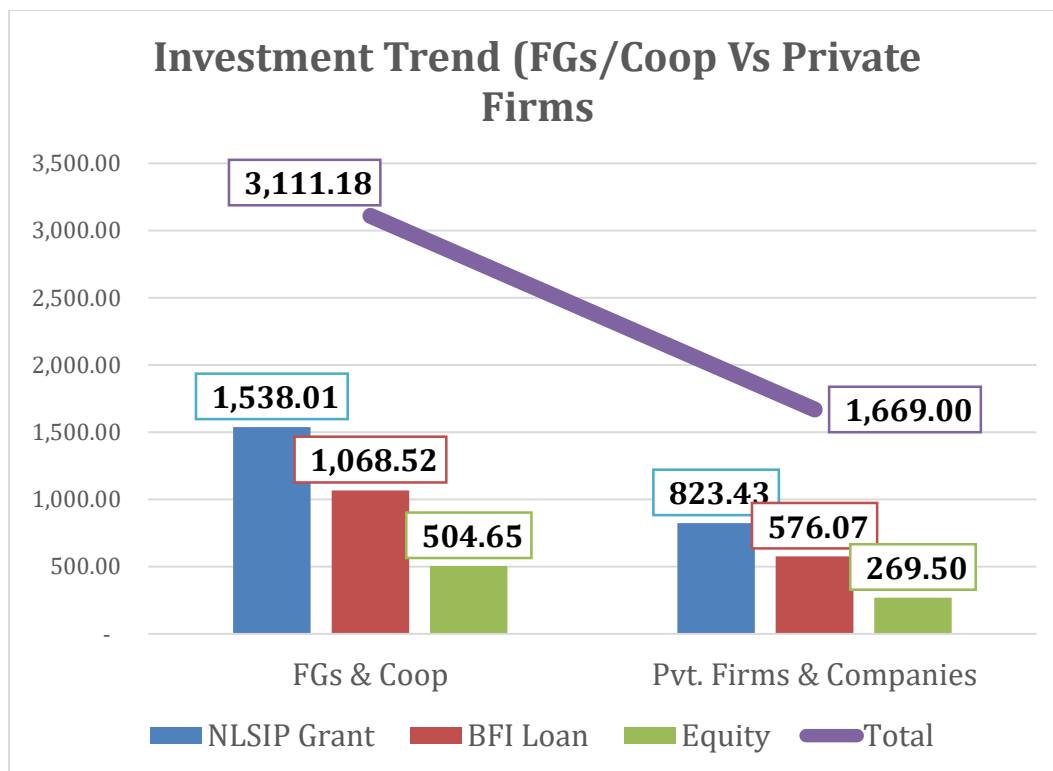
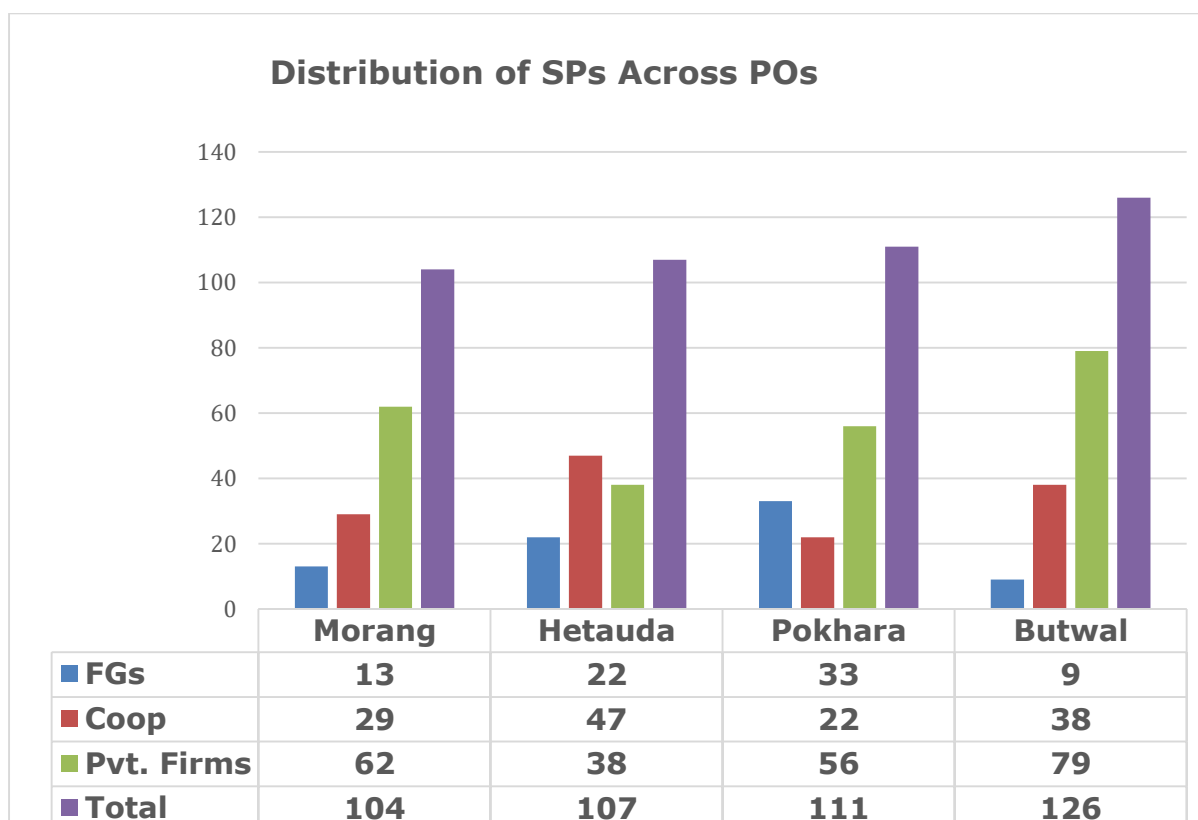


Figure 2. 5: Distribution of SPs Across POs



Note: There are three SPs under Producer's Association, One SP at Hetauda and Two SPs at Pokhara. They are included in the cooperatives list in the respective DLSU

Value chain wise 262 SPs are in dairy (58.48 %), 173 SPs (38.61 %) in meat and 13 SPs (2.91 %) in Pashmina value chain. The detailed number is provided in table 2.30 and figure 2.3 below.

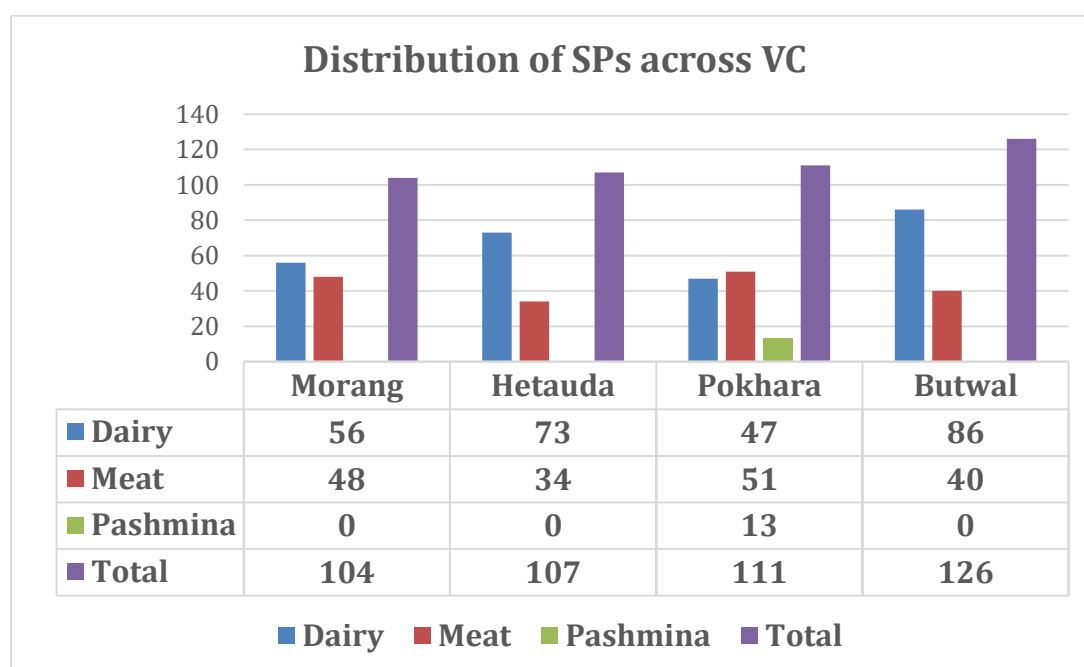
Table 2. 30: Distribution of SPs by Value Chain

DLSUs	FGs & Coop		Pvt Firms		Total			All Total
	Dairy	Meat	Dairy	Meat	Dairy	Meat	Pashmina	
Biratnagar	22	20	34	28	56	48	0	104
Hetauda	48	21	25	13	73	34	0	107
Pokhara	20	25	27	26	47	51	10 +3	111
Butwal	32	15	54	25	86	40	0	126
Total SPs	122	81	140	92	262	173	13	448
Percent	-	-	-	-	58.48	38.61	2.91	100

Source: PMIS & DLSUs

Note: There are 10 SPs for chyangra in FGs & coop and remaining 3 SPs in Pvt. firms.

Figure 2. 6: Distribution of SPs by Value Chain



Details of Sub Projects by function are as presented in table 2.31 below:

Table 2. 31: Sub Projects by Function

S.N	Value Chain	Function	No. of SPs	% of Total
1	Goat Meat	Production	172	99.42 %
		Collection and Marketing	1	0.58
Sub Total A			173	100
2	Dairy	Processing	29	11.07 %
		Production	216	82.44 %

S.N	Value Chain	Function	No. of SPs	% of Total
		Production and Processing	5	1.91 %
		Processing and Marketing	7	2.67
		Collection and Marketing	5	1.91 %
Sub Total B			262	100 %
3	Chyangra	Production	12	92.3
		Processing	1	7.7 %
Sub Total C			13	
Total (A+B+C)			448	100.0%

Cluster wise status of the sub projects under call 1, 2 and 3 is provided in the table 2.32 below. At the end of last FY 2022/23, 213 SPs under call 1 & 2 and 237 SPs under call 3 totaling 450 SPs were at implementation. Over the time 2 SPs under call 3, were cancelled for different reasons. Now, 448 SPs are at implementation of which 213 SPs under call 1/2 and 173 SPs undercall 3 have been completed. On the disbursement of the matching grant, the project was able to make expenditure only 71.12 % of the total committed matching grant of NRS 2,361.44 million at the end of last FY 2022/23, now, until the reporting period the expenditure has increased to 78.18 % i.e increment of 7 percent point over the last FY 2022/23. The detail is presented in table 2.32 below.

Table 2. 32: Detailed status of MG sub project from PCNs to Implementation

Description	Total as of July 16, 2023	Total as of Dec, 07, 2023	DLSUs			
			BRT	HTD	PKH	BTW
Call 1: Farmer's Group and Cooperatives						
Total PCN Received	800	800	195	232	237	136
Total PCN Rejected after desk evaluation	69	69	0	60	7	2
Number of PCNs carried out for FV	731	731	195	172	230	134
Number of PCN rejected in FV	133	133	49	21	54	7
Total FPPs invited	599	599	145	151	176	127
Total FPPs received	503	503	133	131	136	103
Total FPPs at negotiation	328	328	55	98	116	59
Total FPPs signed an agreement for MG support	246	246	50	74	72	50
Total FPPs cancelled	36	36	8	6	19	3
Total FPPs after cancellation	210	210	42	68	53	47
Total Number of FPPs for dairy value chain	119	119	22	47	18	32

Description	Total as of July 16, 2023	Total as of Dec, 07, 2023	DLSUs			
			BRT	HTD	PKH	BTW
Total Number of FPPs for meat value chain	81	81	20	21	25	15
Total Number of FPPs signed for Chyangra value chain	10	10	0	0	10	0
Total Number of FPPs by the FGs	77	77	13	22	33	9
Total Number of FPPs by Cooperatives	133	133	29	46	20	38
Project with 1st installment	210	210	42	68	53	47
Project with 2nd installment	144	144	16	68	13	47
Project with final installment & Project completed	210	210	42	68	53	47
Grant Committed for MG Support in Million NRS	1512.40	1512.40	269.03	490.77	379.4	373.21
Bank loan committed in Million NRS	1052.68	1052.68	177.55	350.34	234.89	289.89
Equity committed in Million NRS	494.88	494.88	93.48	163.18	154.87	83.34
Total Investment in Million NRS	3,059.96	3,059.9	540.06	1003.59	769.15	746.44
Grant Amount disbursement in Million NRS	1208.94	1208.94	240.75	432.73	265.65	269.81
Disbursement Rate (%)	79.94	79.94	89.49	88.17	70.02	72.3
Comments: PMU published the public notice on June 10, 2020 inviting the PCNs from eligible Farmer Groups and Cooperatives. The last date for submission of PCNs was July 24, 2020. Received PCNs were evaluated, FVs completed and notice for invitation of submission of FPPs published on Jan 4, Jan 11, Jan 14 and Jan 28, 2021 by DLSUs Morang, Hetauda, Pokhara and Butwal respectively providing 30 days to submit the FPPs and another 30 days to obtain loan approval letter from the Bank. All FPPs were signed by Oct 31, 2021. Payment for all SPs under this call was closed on April 30, 2023						
Call 2: (Associations and Federations)						
Total PCN Received	11	11	4	3	4	0
Total PCN Rejected after evaluation	8	8	4	2	2	0
Number of PCNs carried out for FV	3	3	0	1	2	0
Number of PCN rejected in FV	0	0	0	0	0	0
Total FPPs invited	3	3	0	1	2	0
Total FPPs received	3	3	0	1	2	0
Total FPPs signed with an agreement	3	3	0	1	2	0
Number of FPPs for Dairy VC	3	3	0	1	2	0
SP with 1st Installment	3	3	0	1	2	0

Description	Total as of July 16, 2023	Total as of Dec, 07, 2023	DLSUs			
			BRT	HTD	PKH	BTW
SP with 2nd installment	1	1	0	1	0	0
SP with final installment and completed	3	3	0	1	2	0
Grant Amount Committed in M NRs	25.6	25.6	0	9.21	16.39	0
Equity Committed in M NRs	9.77	9.77	0	3.21	6.56	0
Bank Loan Committed in M NRs	15.84	15.84	0	6.0	9.84	0
Total investment in M NRs	51.21	51.21	0	18.42	32.79	0
Grant Amount disbursed in M NRs	20.98	20.98	0	8.24	12.74	0
Disbursement Rate (%)	81.95	81.95	0	89.46	77.73	0
Comments: PMU published the public notice on June 30, 2020 inviting PCNs from Producer's Associations and Federations. Received PCNs were evaluated, FVs completed and notice for invitation of submission of FPPs published on Jan 4, Jan 11, Jan 14 and Jan 28, 2021 by DLSUs Morang, Hetauda, Pokhara and Butwal respectively providing 30 days to submit the FPPs and another 30 days to get loan approval letter from the preferred BFIs. FPP was signed by Oct 31, 2021. Payment for all SPs under this call was closed on April 30, 2023.						
Call 3 (Private Firms)						
Total PCN Received	2409	2409	726	512	648	523
PCN Rejected	1,296	1,296	434	190	384	288
PCN Approved for FV	1,116	1,116	297	320	264	235
PCN Rejected at FV	222	222	35	71	64	52
Call for FPPs	894	894	262	249	200	183
FPPs received	748	748	211	221	152	164
FPPs selected for negotiation on merit basis	456	456	117	91	109	139
Grant agreement signed	380	380	96	82	85	117
Sub project cancelled	143	145	34	44	29	38
SPs Operational	237	235	62	38	56	79
Total SPs on Dairy VC	140	140	34	25	27	54
Total SPs on Meat VC	94	92	28	13	26	25
Total SP on Pashmina	3	3	0	0	3	0
Grant Committed for MG Support in Million NRS	825.755	823.43	276.52	117.27	190.65	238.98
Bank loan committed in Million	578.07	576.07	198.07	83.91	145.85	148.23
Equity committed in Million NRS	269.83	269.5	86.94	36.48	48.11	97.96
Total Investment in Million NRS	1,673.65	1,669.0	561.53	237.66	384.61	485.17
SPs with 1st Installment	226	232	62	35	56	79
SPs with 2nd Installment	95	112	12	25	1	74

Description	Total as of July 16, 2023	Total as of Dec, 07, 2023	DLSUs			
			BRT	HTD	PKH	BTW
SPs with final installment and completed	104	173	60	1	40	72
Total Grant Amount Disbursed in M NRs	451.18	616.34	234.45	76.2	131.44	174.26
Disbursement Rate (%)	54.64	74.48	83.69	64.98	68.94	72.92
Comments: PMU published the public notice on Feb 1, 2021 inviting eligible private livestock firms to submit the PCNs in the project approved format. The last day for the submission of PCNs was March 02, 2021. Received PCNs were evaluated, FVs completed and notice for invitation of submission of FPPs published on Oct 5, Dec 22, Dec 22, and Dec 15, 2021 by DLSUs Morang, Hetauda, Pokhara and Butwal respectively providing 30 days to submit the FPPs and another 30 days to get loan approval letter from the preferred BFIs. All FPs were signed by March 07, 2022 by three DLSUs except Hetauda. Hetauda completed the signing of grant agreement by March 31, 2022. With the interim order issued by the SC on May 05, 2022 against the writ application filed by Muga Malbase Dihi, FG, Secretary Mr. Ganga Bahadur Thapa on Aril 26, 2022, the instalment payment to these SPs were on hold. The call 3 SPs have resumed their implementation following the clearance from MoALD on Dec 11, 2022. The implementation period of these SPs has been fixed until June 30, 2023 and completion by Dec 30, 2023						
All Total for Call 1, 2, and 3						
Total SPs signed from all calls	629	629	146	157	159	167
Total SPs cancelled from all calls	179	181	42	50	48	41
Total SPs at implementation from all calls	450	448	104	107	111	126
Total SPs completed (call 1, 2 & 3)	317	386	102	70	95	119
Total Bank loan committed across all calls (1,2 & 3) after cancellation	1646.57	1644.59	375.62	440.25	390.58	438.12
Total Equity committed across all calls (1,2 & 3) after cancellation	774.5	774.13	180.42	202.87	209.54	181.3
Total Grant Committed for all calls (1,2 & 3) after cancellation	2363.76	2361.43	545.55	617.25	586.44	612.19
All Total for calls 1,2 & 3	4784.79	4780.15	1101.59	1260.37	1186.56	1231.61
Total Grant Disbursed in Million NRS	1681.1	1846.26	475.2	517.17	409.83	444.07
Total Disbursement Rate for all calls 1,2 & 3 (%)	71.12	78.18	87.1	83.79	69.88	72.54

Source: PMIS

The Project has delivered a number of training programs to support Sub Project Proponents at preparation phase, implementation phase and at closing phase. During preparation they were assisted to develop bankable business plans, at implementation they were provided with start up, technical, managerial and account keeping trainings and at closing they were assisted with the preparation of sub project completion report. Until the last FY 2022/23, the project was able to

organize 159 events with training provided to 4,027 grant applicants. Following are the details of capacity development support provided to grant applicants and successful Sub-projects as in table 2.33 below: In the current FY 2023/24, the whole approved training activities have to be revised due to the instruction of MoF to reduce the training budget by 50 %, hence no training activities could be undertaken in the current quadrimester. However, the project was able to receive the approval from MoF in the revised training activities. The progress will be reported in the next quadrimester. The revised training activities is presented in the annex 2.16

Table 2. 33: Capacity Development Support to Sub Project Proponents

S.N.	FY	Activities	Events	Duration in days	Participants		
					Male	Female	Total
1	2020/21	FPP Preparation Trg (call 1/2)	27	3	563	145	708
2	2021/22	Commercial Goat Keeping Training	2	6	26	4	30
3	2021/22	Start-up Training for Call 1/ 2 Sub Project Managers	15	3	317	47	364
4	2021/22	FPP Preparation Training to Call 3 managers (Private Firms)	28	2	803	106	909
5	2021/22	Start Up Training Call 3	10	2	273	20	293
6	2021/22	Start Up Training Call 3	3	3	77	8	85
7	2021/22	Sub project Technical Training (Dairy)	1	6	9	3	12
8	2021/22	Sub project Technical Training (Dairy)	2	3	52	5	57
9	2021/22	Sub project Technical Training (Goat)	3	3	56	20	76
10	2021/22	Chyangra Rearing & Pashmina Production Training	2	3	45	14	59
11	2021/22	Sub Project Review Workshop	2	2	32	6	38
12	2021/22	Training to Cooperative for Commercial Business Preparation	2	3	30	11	41
13	2021/22	Value Chain Based SPs Implementation and Management Training to GRs	3	3	50	4	54
14	2021/22	SPs management Training to PFs	1	2	121	14	135
15	2021/22	Sub project Management & Accounting training	14	2	223	50	273
		Sub Total 2021/22	115		2,677	457	3,134
16	2022/23	Milk and milk production Diversification training (6 days)	5	6	124	17	141
17	2022/23	Dairy diversification training (7 days)	3	7	25	1	26

S.N.	FY	Activities	Events	Duration in days	Participants		
					Male	Female	Total
18	2022/23	Technical knowhow training to SP GR's(cattle/Buffalo)	5	3	105	16	121
19	2022/23	Technical knowhow training to SP GR's(Goat)	4	3	58	17	75
20	2022/23	Sub-project Start-up Management Training (2 days)	1	2	41	8	49
21	2022/23	Sub-project Start-up Management Training (3 days)	2	3	51	5	56
22	2022/23	Entrepreneurship capacity development training to SP grantees	13	7	72	51	123
23	2022/23	Procurement and ESS Training	3	1	83	10	93
24	2022/23	Sub Project management and record keeping training to GRs	3	3	66	5	71
25	2022/23	Management Training (Private) (Account Keeping)	4	2	98	17	115
26	2022/23	Subproject Business Expansion training to GRs	1	3	20	3	23
		Sub Total (2022/23	44		743	150	893
	2023/24						
		All Total as of 2023/24	159		3,420	607	4,027

The Project has actively advised and supported matching grant applicants to obtain the required loans for their proposals through individual coaching and mentoring. Furthermore, interaction with concerned banking and finance institutions (BFIs) were also held in groups and individually to follow-up for loans on behalf of Sub Project Proponents.

The services of Livestock Social Mobilizers (LSMs) were utilized to support delivery of business services to sub projects. Training events were organized for capacity development of LSMs to enhance their capacity to support sub project implementation, including in the area of business services. Training sessions on theme "Enterprise Facilitation Training for Social Mobilizers" were integrated within three Monitoring and Evaluation training events held in three DLSUs in June 2022. Following the training, LSMs are more active and engaged in supporting Sub Project implementation.

There are 50 BFIs participating in co-financing of the sub projects. Commercial banks lead financing of NLSIP sub project with 64% of number of proposals financed and 61% of loans extended. The breakdown of BFIs' participation in NLSIP Sub Projects – segregated by BFI category - is presented in table 2.34 below:

Table 2. 34: BFI types in NLSIP Sub Projects

BFI Category	No. of Participating BFIs	Number of SPs Financed	% of Total	Amount Financed (NRS)	% of Total	Average size of the loan
A. Commercial Banks	25	285	64 %	1,009,550,226	61%	3,542,281
B - Development Banks	13	85	19 %	275,869,329	17%	3,245,521
C - Finance Companies	5	6	1 %	29,109,428	2%	4,851,571
D - Micro Finance Institutions (MFIs)	6	27	6%	135,986,037	8%	5,036,519
O - Others National Cooperative Bank	1	45	10%	194,069,335	12%	4,312,651
Total	50	448	100	1,644,594,355	100	3,675,765

Agriculture Development Bank and National Cooperative Bank and Mega Bank are the top three BFIs financing NLSIP sub projects both in terms of both number of proposals financed and amount of loan provided. Details of the top ten BFIs participating in NLSIP Matching Grant Scheme - by Sub Projects financed is presented in table 2.35 below:

Table 2. 35: List of Top Participating BFIs In Terms of Number of SPs

SN/ Rank	BFI Category and Name	Category	Sum of BFI Loan (NRs)	No of SPs financed by Individual BFIs	Av. Size of the Loan
1	Agriculture Development Bank	A	209,880,389	75	2,798,405
2	National Cooperative Bank	O	194,069,335	45	4,312,651
3	Mega Bank Ltd.	A	101,859,200	24	4,244,133
4	Rastriya Banijya Bank Ltd.	A	46,709,086	21	2,224,242
5	Mukthinath Bikas Bank Ltd.	B	49,914,132	21	2,376,863
6	Global IME Bank Ltd.	A	66,410,100	20	3,320,505
7	Shine Resunga Development Bank Ltd.	B	61,259,587	18	3,403,310
8	Sana Kisan Bikas Laghubitta Bittiya Sanstha Ltd.	D	93,202,983	17	5,482,528
9	Garima Bikas Bank Ltd.	B	29,574,976	15	1,971,665
10	Kumari Bank Ltd.	A	58,244,859	13	4,480,374
	Total		911,124,648	269	3,387,080

Details of the top ten BFIs participating in NLSIP Matching Grant Scheme - by amount of loan provided – is presented in table 2.36 below

Table 2. 36: List of Top Participating BFIs by amount of loan

SN/Rank	BFI Category and Name	Category	Sum of BFI Loan (NRs)	No of SPs financed by Individual BFIs by BFI Category
1	Agriculture Development Bank Ltd.	A	209,880,389	75
2	National Cooperative Bank Ltd.	O	194,069,335	45

SN/Rank	BFI Category and Name	Category	Sum of BFI Loan (NRs)	No of SPs financed by Individual BFIs by BFI Category
3	Mega Bank Ltd.	A	101,859,200	24
4	Sana Kisan Bikas Laghubitta Bittiya Sanstha Ltd.	D	93,202,983	17
5	Citizens Bank International Ltd.	A	66,669,028	11
6	Global IME Bank Ltd.	A	66,410,100	20
7	Shine Resunga Development Bank Ltd.	B	61,259,587	18
8	Kumari Bank Ltd.	A	58,244,859	13
9	Nepal Credit and commerce Bank Ltd.	A	56,601,034	12
10	Muktinath Bikas Bank Ltd.	B	49,914,132	21
	Total		958,110,647	256

The full list of participating BFIs and details of their involvement – segregated by BFI category is presented in Annex 2.15

As a result of the operation of the sub projects, there has been substantial development on the assets creation by POs, which will further promote in commercialization of the livestock sector. Some of the major asset creation is provided in the table 2.37 below

Table 2. 37: Asset Creation in the sub projects (Call 1 & 2)

DLSUs	Infra structure	Dairy Animals	Meat Animals	Vehicles	Silage Machines	Milking Machines	Chilling Vats	Milk Processing Unit	Feed Processing Unit
Morang	878	793	3,576	0	4	4	4	1	0
HTD	489	1,321	3,990	3	7	7	24	14	0
PKH	490	359	6,965	0	1	11	4	2	2
Butwal	691	1,327	2,943	6	2	4	12	6	0
Total	2,548	3,800	17,474	9	14	26	44	23	2

Note: Infrastructure includes cattle shed, goat shed, milking parlor etc.

Providing support to erect market infrastructure for better integration of smallholders to facilitate their market opportunities.

With regard to providing support to erect market infrastructure for better integration of smallholders for their market opportunities, the project at the request of the Ministry and with no objection from the WB has completed some of the unfinished works of the Damak Livestock Market in the Eastern Region initially designed and erected by another WB funded project PACT. The market was unfinished at the time of PACT closure (June 30, 2018), the responsibility for completion of unfinished part was later shifted to GoN with dead line until November 15, 2018. Somehow, it was not completed within the dead line and requested NLSIP to take over. The Market is now completed with the modern facilities built within it. The project has made the payment of about NRs 45 million out of NRs 132 Million contract after it is verified by the certified Engineer.

The project had undertaken feasibility study for the establishment of livestock market and collection centres in the country. Based on the recommendation of the feasibility study report the markets at different locations were supported and financed.

The project has supported the construction of four livestock markets at Ratnagar (Chitwan), Gulariya (Bardiya), Siyari (Rupandehi) and Rangeli (Morang). All markets are completed. In the Ratnanagar market, the local government has assisted in the construction of river protection wall in the Kageri River, on the side of the market. The project also assisted the market development committee of each palika in the preparation of business plan for the next 10 years. The member of the market development committee is also provided with the trainings on the preparation of the business plan and operation of market in a sustainable manner. The detailed status of project financed livestock markets is provided in the table 2.38 below. The project has also constructed the dairy collection centres-seven, goat collection centers-two, seed collection and storage centres-three and biological pits-eleven in number.

Table 2. 38: Status of Livestock Markets

S. N	Name of Markets	Total Agreement amount (million NPR)	Comp Date	Amount paid till date (million NPR)	Physical Progress (%)
1	Construction of Livestock Market- 2 Slices (Ratnanagar Municipality) Chitwan	36.51	Apr 13, 2022	36.38	100 %
2	Construction of Livestock Market- 2Slices (Gulariya Municipality) Bardiya	39.46	Oct 12, 2021	39.44	100 %
3	Construction of Livestock Market (Siyari Rural Municipality) Rupandehi	35.26	Dec 31, 2021	35.12	100 %
4	Construction of Livestock Market- 2 Slices (Rangeli Municipality) Morang	35.03	Feb 20, 2022	34.44	100 %
5	Completion of Damak Market	carried over from the previous project		45.0	100 %
6	Total	146.275		145.96 99.78 %	Damak not included

Food Quality and Safety

The project has developed the poster for clean milk production for distribution and a book on consumer awareness on Food Safety focusing on Meat and Milk, with collaboration of Consumer Forum.

The Project organized various training and workshops to POs in order to improve their understanding on One Health, Good Animal Husbandry Practices, Good Veterinary Practices, Food Safety and Environmental Safe Guard Measures. Until the reporting F/Y 2022/23, the project organized 96 such events in different locations engaging 4,641 participants. The women participation remained around 16 % all together. The table 2.39 below depicts the detail of such events.

Table 2. 39: Consumer Awareness on Food safety and Hygiene

S.N	Year	Activities	Events	Duration in days	Client days	Participants		Total
						Male	Female	
1		Sub Total (2019/20)	20		1,030	714	126	840
2		Sub Total (2020/21)	35		2,000	1,524	288	1,812
3		Sub Total (2021/22)	19		1,038	807	130	937
4		Sub Total 2022/23	22		1,052	836	216	1,052
	2023/24							
		All Total as of 2023/24	96		5,120	3,881	760	4,641
		Percent participation				83.62	16.38	100

2.4 Component D: Project Management and Knowledge Generation

This component finances all aspects of project management and implementation, including (i) strategic and operational planning, execution, M&E of project activities, (ii) compliance with safeguard (iii) implementation of public awareness and outreach campaigns; (iv) verification and reporting on project execution and impacts; (v) establishment, operationalization, and maintenance of the PMU at the centre and four DLSUs established at four different locations; and NLBO Pokhara (vi) carrying out the project-related studies, workshops, and seminars generating knowledge derived from the project implementation experiences, including but not limited to mainstreaming climate-smart livestock practices, to be communicated to various public and private entities in a timely and effective manner

Under this component, the project has completed/initiated the following

Functional GRC

Grievance Redress committees are formed at all levels. They are meeting regularly. To date, at the district level, only two grievances were received, whereas at the cluster level, it is the highest 199 and at the national level, it is only 59. Of the total 260 grievances received 242 (95.27%) were addressed satisfactorily. Year wise complaints received are provided in the table 2.40 below

Table 2. 40: Summary of Grievances Received and Addressed

Activities	18/19	19/20	20/21	21/22	22/23	23/24	Total
Number of grievances received at District level	0	0	0	2	NA	NA	2
Number of grievances received at cluster level	0	0	12	177	4	6 ¹²	199
Number of grievances received at National level	7	8	36	6	2	NA	59
Total Grievances	7	8	48	185	6	6	260
Addressed	7	8	48	177	3	On Process	242
Addressed (%)	100	100	100	95.68	50	On Process	93.07

Source: NLSIP PMIS

Hiring of Consulting Firms/Consultants

Apex-Inclusive JV Engineering Consultancy hired on March 2019 were providing their services as per the approved ToR until the end of F/Y 2022/23.

The Project has signed the agreement with Development Vision/Nepal, Mount Digit Technology Pvt. Ltd, CMS Engineering Consult Pvt. Ltd., and Full Bright Consultancy Pvt. Ltd JV on Jan 2nd, 2020 to provide technical Assistance services to the project out of six short listed firms. The other short listed firms were M/S Agri-food Consulting International, RIMC, TMS and BPRC JV, Silt Consultant Pvt. Ltd, Bright Future International Pvt. Ltd JV, SOFRECO and ERMC Pvt. Ltd. The CMS JV continued their services as per their revised scope of work and approved budget after the MTR until June 30, 2023. The total inputs of the TASP originally proposed was 576 person months and contract award including all taxes was NRS 174.58 million. After

¹² Pithauli, Cooperative, Nabalpur; Diamond Krishi, Tanahu, Ujjawal Krishi Sahakari, Hetauda, Tushar Pashu Palan Samuha, Nepal Krishak Butwal and Niglasaini Coop, Kachanpur

MTR, the input was reduced to 540 person months (6.2 % reduction) and total cost to NRS 154.51 million (11.49 % reduction). Their contract ended on June 30, 2023

Nepal Agribusiness Innovation Centre (NABIC) hired on Sept 02, 2020 provided services up to Dec 31, 2022. As with TASP, The BSP budget was also revised after the MTR. The total contract was NRS 29.37 million, this was reduced to NRS 27.64 million around 5.8 % reduction have taken place.

The project has selected Full Bright Consultancy Pvt. Ltd for carrying out the Base Line Survey. The survey work is completed. The final report is submitted reviewed by PMU team and shared with WB

As provisioned in the PAD, the Project Technical Expert (PTE) was recruited in November 2018, for the period of 48 months. Later his contract was extended for the period of 54.5 months to provide services until June 30, 2023.

Finance Management Specialist, recruited as covenant in November 2018, soon after project became effective with engagement until June 30, 2023 (542 man-days) on an intermittent basis.

Procurement Specialist, recruited as covenant in November 2018, soon after project became effective, for the period of 48 months. He was again recruited on an intermittent basis to provide services until June 30, 2023.

The project has hired Mr. Thakur Prasad Bhatta and was on board as Gender Specialist since Oct 24, 2019 as an intermittent consultant

The project has hired Dr. Shreeram P. Neopane and was on board since June 21, 2020 as Animal Breeding Expert to take the PPRS program forward as suggested in the Breeding Strategy and Action Plan. Dr. Neopane has resigned from his post on Feb 01, 2022. Dr. Lok Nath Poudel has taken over the responsibilities of PPRS since Sept 13, 2022 after Dr. Neopane's resignation. His contract also ended on June 30, 2023.

The project has hired the Bio-medical Engineer on March 06, 2020 for the period of 10 months intermittently.

Following the MoF's letter of Oct 04, 2023 (2080/6/17) the project recruited /reengaged the following critical consultants as mentioned in the 9th ISR, Management letter and AM.

- Project Technical Expert (PTE) hired from Nov 1 to June 30, 2024
- Financial Management Specialist hired from Nov to June 30, 2024 (intermittent for 96 days)
- Procurement Specialist (PS) hired from Nov to June 30, 2024 (Intermittent for 70 days)
- Apex Engineering Consulting Firm hired from Nov to June 30, 2024 to supervise the construction of BSL 2 laboratory.

Production of Project Brochure for wider dissemination completed and disseminated to public through DLSUs to bring the awareness about the project activities.

DLSUs are participating in various provincial and district level Fairs, Exhibition Mohatsab and Expos in project related thematic areas to show the greater visibility of the project and its supporting activities.

The detail of consultancy services procured as of reporting period is provided in the annex 2.24 and detail of project procured vehicle, equipment's and computers, printers and photocopiers are presented in annexes 2.25 to 2.27

M & E

PMIS update

Following the progresses in the implementation of NLSIP activities, the information on PMIS have been updated regularly. Responding users' feedbacks improvement in the dashboard progress bar for data entry, updating and generating reports have been continued for making the system more robust as per M&E requirements.

End line survey of NLSIP and M & E workshop:

The endline survey is completed. Data cleaning and data analysis also completed. After several discussions at PMU, the final data was presented in the workshop on Nov 23, 2023 in presence of WB (Joachim). The firm was advised to add some of the essential features, description when there are differences in the data in different round of survey and chisquare or t-test for the treatment and controlled group of the endline survey to see if there is significant association between the two groups.

Independent Assessment of the process of the MG award

The WB carried out independent assessment of the process of the matching grant. The independent consultant after discussion at PMU visited the different sites in Pokhara and Biratnagar cluster directly interacting with the beneficiaries. The consultant after assessment concluded the report as follows; **Quoted** "The MG process is well-designed, transparent, and effective procedure. It is based on international experience that has been adapted to the Nepal's livestock sector. The Project has established clear guidelines and has followed them consistently. The guidelines and associated supporting documentation have supported the implementation from the initial establishment of stakeholder platforms through to sub-project proposal evaluation, negotiation, grant disbursement and implementation. Appropriate training and support are provided to the PO at each stage.

The MG funds are flowing to the selected SPs in the agreed targeted districts and value chains as well as the targeted farmer's groups, cooperatives and private sector operators. Despite a slow start up and the impost of the COVID pandemic and a disbursement stay order, the Project has established 585 approved sub-projects and signed agreements. Significant finance has been mobilized through this process. A specific grievance redress system has been used to record and manage any issues arising. The challenge now is to continue the develop the monitoring base, to disburse the grant funds and support those SPs who will undertake startup activities in the months prior to project closure. Through the establishment of the productive partnerships the MG process is making a significant contribution to the achievement of the Project's development objective". **Unquoted**

High level monitoring of the NLSIP financed activities

As part of the 9th mission, a delegation led by the World Bank and development partners, visited some of the NLSIP sites under Biratnagar cluster and together with the Provincial and Local Government representatives and experts on livestock and animal health had a rich discussion on need for animal health system in Nepal. The roundtable held in Biratnagar brainstormed ways to transition from a scheme-based approach to animal health towards institutionalized systems that

prevent the occurrence and spread of animal diseases, improve the productivity of herds, and safeguard public health in Nepal. It examined the potential roles and functions of the three levels of government in adopting and implementing a systemic approach to animal health and identified the next steps needed to establish an improved animal health system. It emphasized the need for continued engagement and collaboration among development partners and the government in ensuring implementation of these policies, acts and strategies in the coming years. Following the roundtable, the Secretary for Livestock Development recommended forming a task force with budget allocation to prepare a concept for a new operation on animal health systems.

Profitability Assessment

Profitability assessment of NLSIP sub-projects was carried out examining 69 projects spanning dairy, goat, and Chyangra value chains across four DLSUs. Interviews conducted through face-to-face, telephone, and on-site methods have reached 84.06%, 11.59%, and 4.35%, respectively. Dairy sub-projects lead at 59.42%, followed by goats at 39.13%, with Chyangra assessments at 1.45%. The largest sample was gathered from a private firm, amounting to 50.72%, followed by cooperatives at 30.43%, with farmers' groups comprising 18.84%. Key figures like UNFAO/WB's Purna Chetri joined at Biratnagar and Pokhara, project director Dr. Ramnandan Tiwari and Project Technical Lead Dr. Prabhakar Pathak joined at Butwal, along with senior monitoring officers Dr. Prabesh Sharma joined at Pokhara and Mr. Ishori Khatiwoda joined at Hetauda, collaborated for these assessments, fostering cooperation. Working closely with DLSU chiefs and officials has significantly enhanced the effectiveness and coordination of these assessments, ensuring a thorough evaluation for financial viability.

Summary of progress status in the table below:

DLSU	No. of PO assessment	PO types			VC			Interviewed conducted	Mode of interview			Date of Conducted assessment
		Farmer group	Cooperative	Private farm	Dairy	Goat	Chyangra		Face to Face	Telephone	On-site	
Biratnagar	16	2	5	9	9	7	0	16	14	2	0	31 Oct-3 Nov
Hetauda	17	4	7	6	12	5	0	17	14	2	1	6-9 Nov
Butwal	20	2	6	12	13	7	0	20	17	2	1	21-25 Nov
Pokhara	16	5	3	8	7	8	1	16	13	2	1	27-30 Nov
Total	69	13	21	35	41	27	1	69	58	8	3	
%	100%	18.84%	30.43%	50.72%	59.42%	39.13%	1.45%	100%	84.06%	11.59%	4.35%	

2.5 Project Covenants

2.5.1 Establishment of the Project Steering Committee

The Project Steering Committee as envisaged in the PAD has been established on May 10th 2018 and is maintained. The PSC is providing policy guidelines to support PMU and carrying out inter-ministerial/interagency coordination to facilitate project implementation. The detail composition and function of PSC is being revised along with the revision of the PIM.

2.5.2 Project Management Unit

PMU has been established within the MoALD on July 11th 2018 headed by Project Director and supported by well-qualified and experienced staffs as envisaged in the PAD. The PMU is located within the complex of Department of Livestock Services, Harhar Bhawan, Lalitpur.

2.5.3 Project Implementation Manual

The Project Implementation Manual has been prepared by a team of consultant headed by Dr. Chandra Mani Dhakal and is approved by the PSC on August 20th 2018. During the short course of implementation, the project noticed some deficiencies and inconsistency in the existing PIM, with the approval of PSC it is revised to align with cost tab and PAD. With no objection from WB in April 30, 2019, the PIM received approval by the third PSC Meeting held on June 26, 2019.

2.5.4 Recruitment of Financial Management Specialist

The Financial Management Specialist has been recruited on November 19th 2018 until June 30, 2023 and after Nov 01 to June 30, 2024 on an intermittent basis

2.5.5 Recruitment of Procurement Specialist

The Procurement Specialist has been recruited on November 23rd 2018 until June 30, 2023. And later from Nov 1 to June 30 2024 on an intermittent basis

2.6 Physical Progress

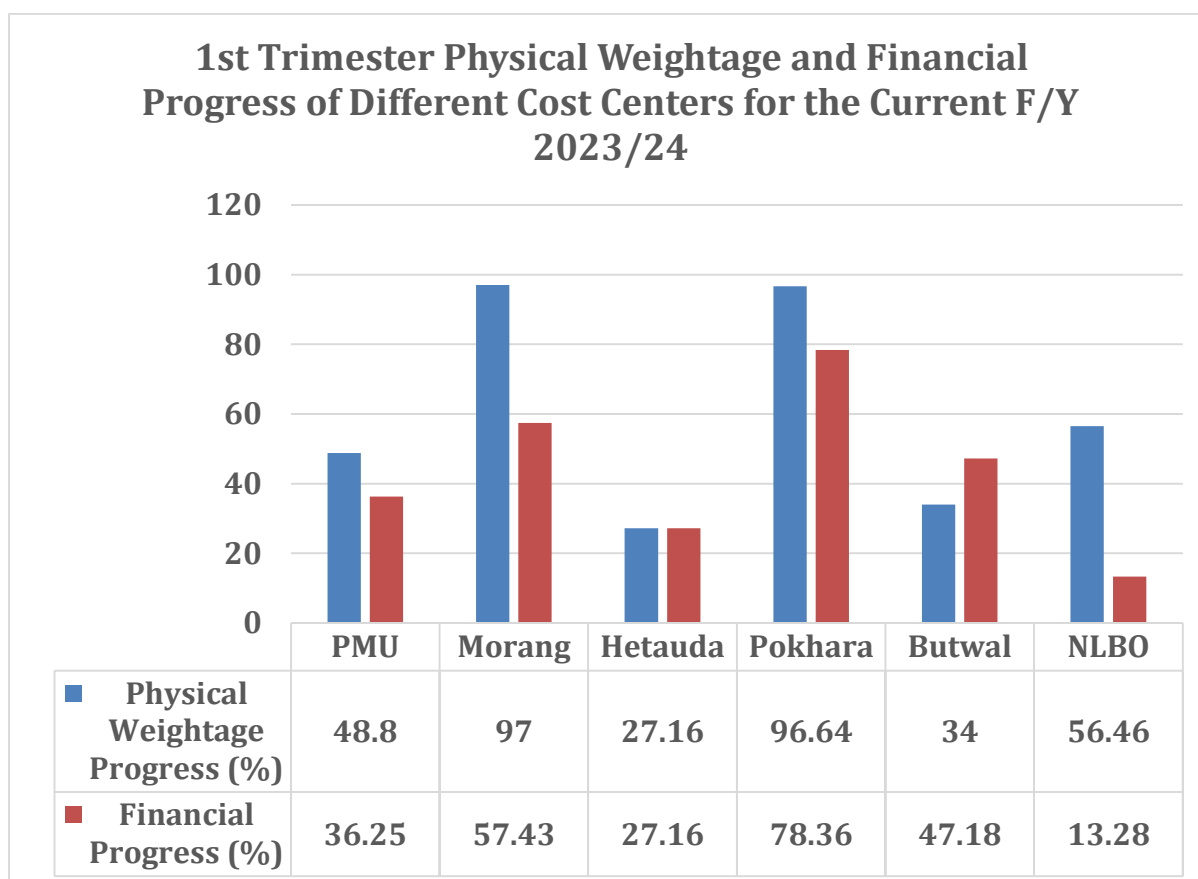
The overall physical weightage progress of the project during the 1st trimester of the current F.Y. 2023/24 is documented as 60.01 % as against the set targets for that period and financial progress is at 45.75 %. The table 2.41 below presents the physical and financial progress for 1st trimester of the current F/Y 2023/24, whereas the figure 2.4 below presents the combined physical weightage and financial progress of all cost centres in the FY 2023/24.

Table 2. 41: Physical and Financial Progress of 1st Trimester of the F.Y 2023/24

Cost Centers	1 st Trimester Progress	
	Physical Weightage Progress (%)	Financial Progress (%)
PMU	48.8	36.25
Biratnagar	97.0	57.43
Hetauda	27.16	27.16
Pokhara	96.64	78.36
Butwal	34.0	47.18
NLBO	56.46	13.28
Total	60.01	45.75

Source: PMU & DLSUs Progress Report

Figure 2.4: 1st Tri. Physical and Financial Progress of all cost centers in F.Y 23/24

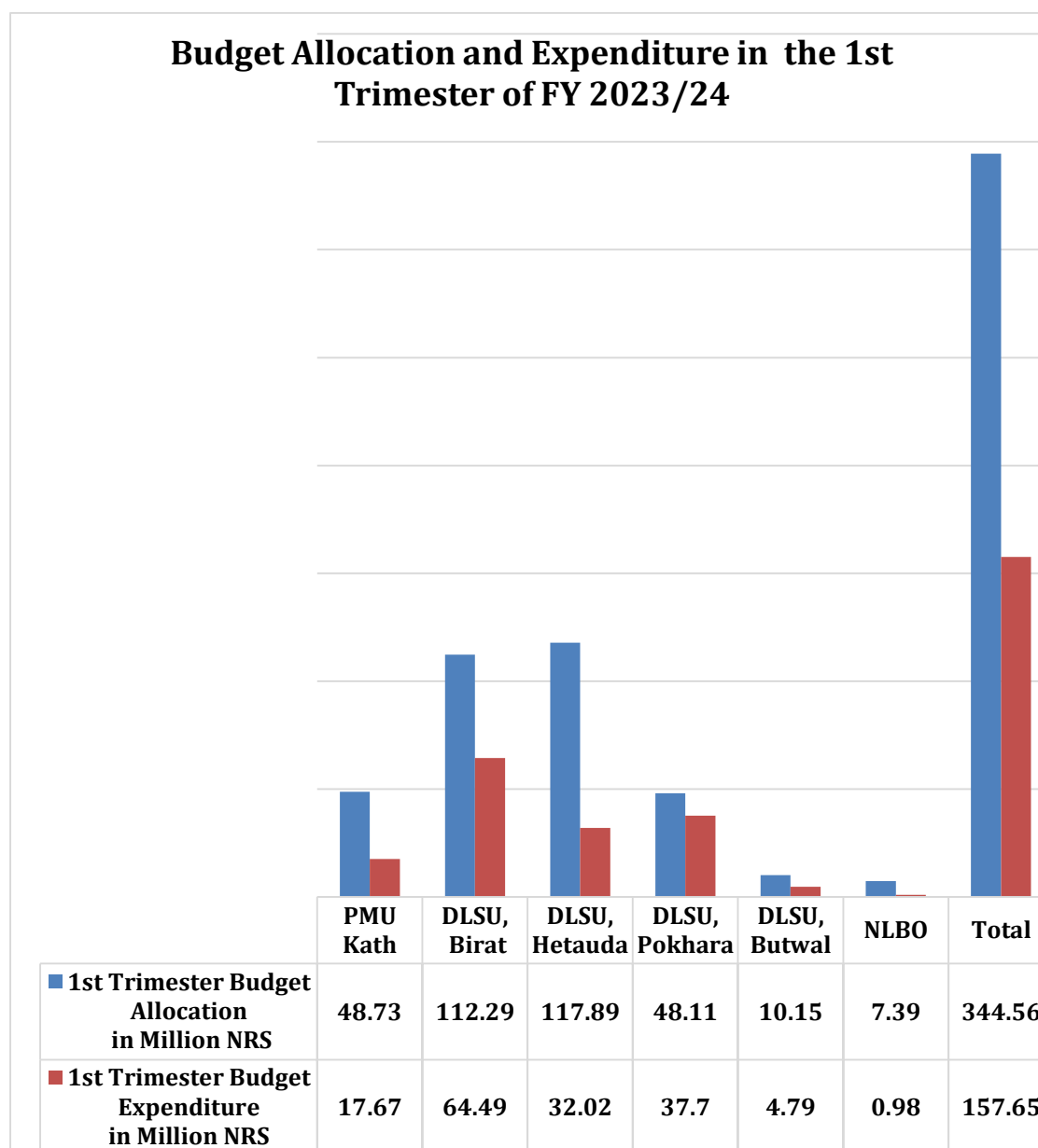


The budget allocation and actual expenditure incurred at PMU and other cost centres in 1st Trimester of current F/Y 2023/24 is provided in table 2.42 and figure 2.5 below. The actual total expenditure for all cost centers with respect to allocated budget for that trimester is documented as 45.75 %. These expenditures however do not account for BFIs and benefeceries contribution. When compared to the previous F/Ys, the trend of expenditure in the current reporting period is much better but not satisfactory. Table 2.42 below provides the total expenditure across all cost centres against the approved budget for that period.

Table 2. 42: Financial Progress of the Different Cost Centres in the F.Y. 2023/24

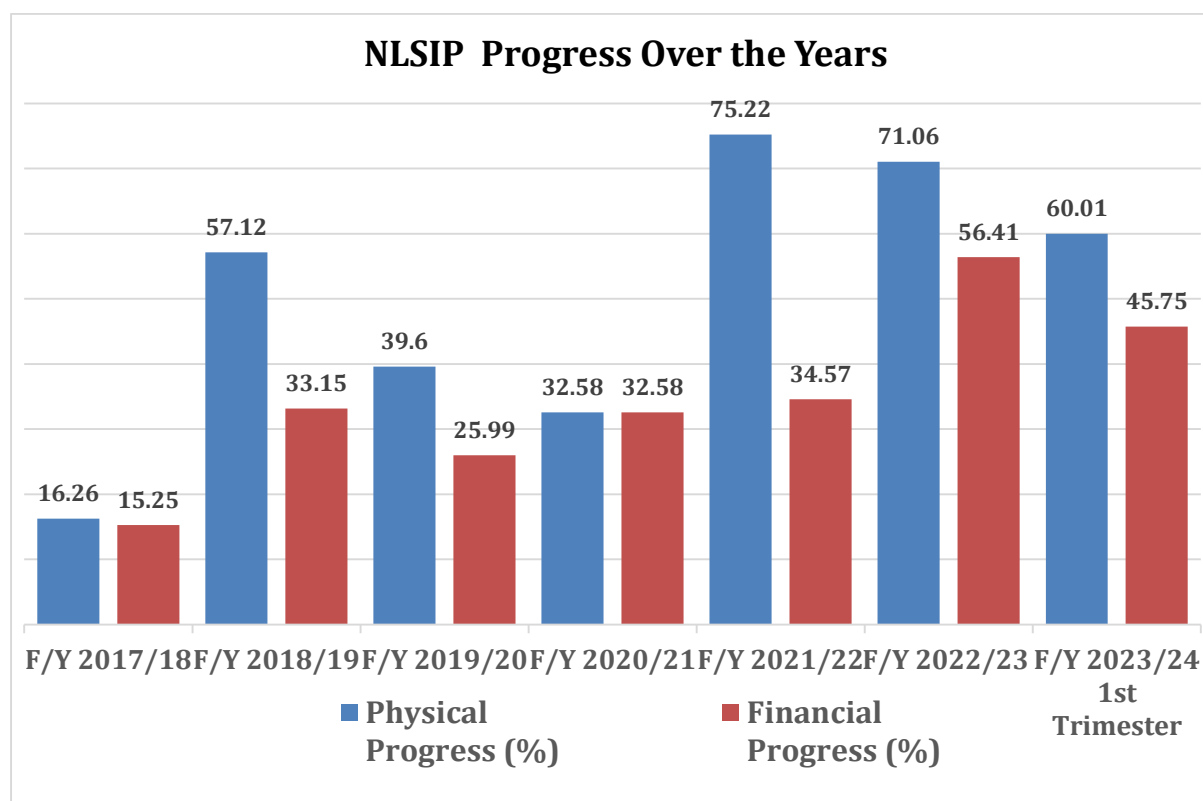
Cost Centers	1 st Trimester Budget Allocation and Expenditure		Expenditure %
	1 st Trimester Budget Allocation in NRS Million	1 st Trimester Budget Expenditure in NRS Million	
PMU	48.73	17.67	36.25
Biratnagar	112.29	64.49	57.43
Hetauda	117.89	32.02	27.16
Pokhara	48.11	37.7	78.36
Butwal	10.15	4.79	47.18
NLBO	7.39	0.98	13.28
Total	344.56	157.64	45.75

Figure 2. 5: Budget Allocation and Expenditure of all cost centers in FY 2023/24



The overall progress of the NLSIP over the years is presented in figure 2.6 below. F.Y 2017/18 is the first implementation year of the project but actual field level implementation started only after the establishment of dedicated PMU on July 11, 2018. In the FY 2017/18, though project became effective, limited activities have taken place with few studies and procurements undertaken. Over the years the project performance and absorbing capacity has increased reaching to 75.22 physical progress in FY 2021/22 and 56.41 % financial progress in F/Y 2022/23. The figure below provides the trend of the performance

Figure 2. 6: NLSIP Progress Over the Years



Source: PMU & DLSUs progress Report

2.7 Number of Beneficiaries Attending Different Project Activities

The table 2.43 and figure 2.7 below provides the number of beneficiaries benefitting from different project activities. The number of beneficiaries benefitting from different project activities. Under training and workshops both for staffs and farmers reached to 18,619 participants, in farmer's field school 6,588 participants, and in Producers Organization 87,892 participants have been benefitted. Similarly, in climate smart practices 47,673 farmers have been benefitted. In addition, from matching grant support under call 1, 2 and 3, a total of 28,468 are benefitted. The overall participation of the women remained at 42.4%.

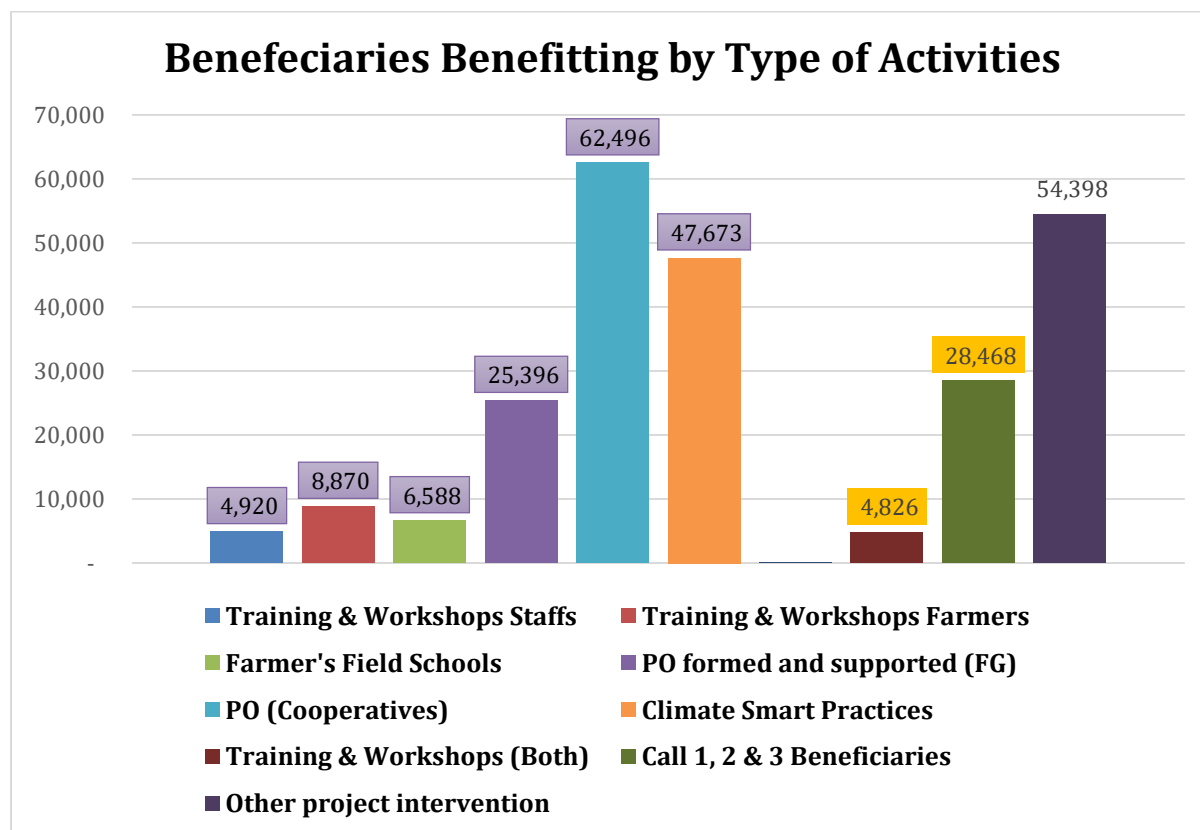
Table 2. 43: Number of Beneficiaries Engaged, by Type of Project Activities

S. N.	Type of Activities	Male	Female	Total	% age of the Women
1	Training, Workshops and Interactions (staffs)	4,314	606	4,920	12.3
2	Training, Workshops and Interactions (Farmers)	6,712	2,158	8,870	24.3
3	Workshops and Interactions (Staff & Farmers)	3,578	1,248	4,826	26
4	Operation of Farmer's Field Schools (FFSs)	2,709	3,879	6,588	58.88
5	POs Formed and supported (FGs & Coop)	42,223	45,669	87,892	52
7	Engaged in Climate Smart Practices	24,669	23,004	47,673	48.3
8	Beneficiaries from call 1 & 2	12,709	15,146	27,855	54.37

9	Beneficiaries from 3	465	148	613	24.14
10.	Beneficiaries from other project intervention (Markets, Chilling Vat and other Equipment support etc)	42,945	11,453	54,398	21
Total Beneficiaries		140,324	103,311	243,635	42.4
% age		57.6	42.4	100	

Source: DLSUs Progress Report 2022/23 & PMIS

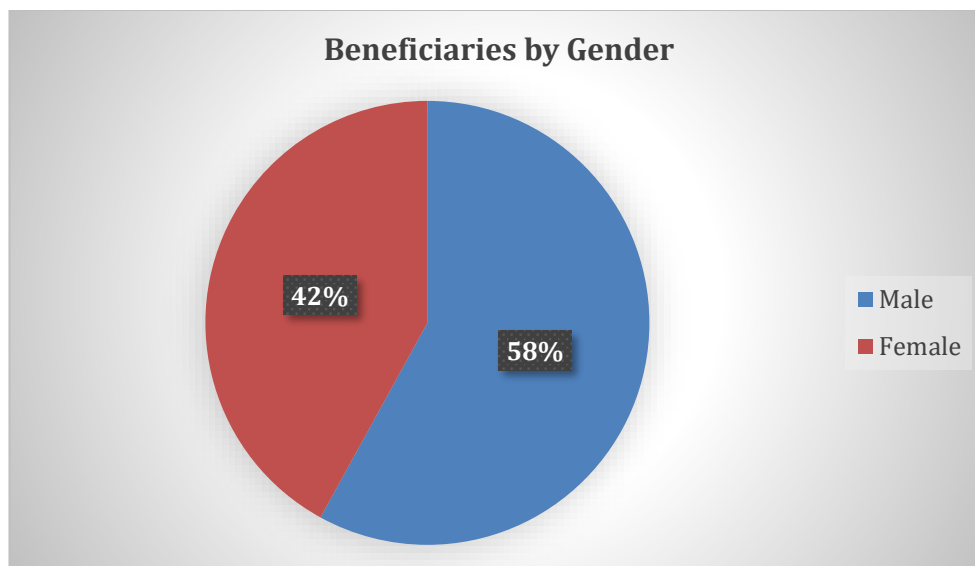
Figure 2. 7: Beneficiaries by Type of Project Activities



2.8 Number of Beneficiaries by Gender

The figure 2.8 below represents the number of beneficiaries by gender. Around 58% of the total beneficiaries are male and remaining 42 % are females. Female participation in the project provided staff training is only at 12.3 %, in farmers training 24.3 %. Female participation in these categories needs to be improved. Whereas, in farmer field school, the female participation is very promising at 58.9 % and in POs formed and mobilised (Farmer groups and Cooperatives) it is around at 52 % and in climate smart practices it is around 48.3 %.

Figure 2. 8: Beneficiaries by Gender



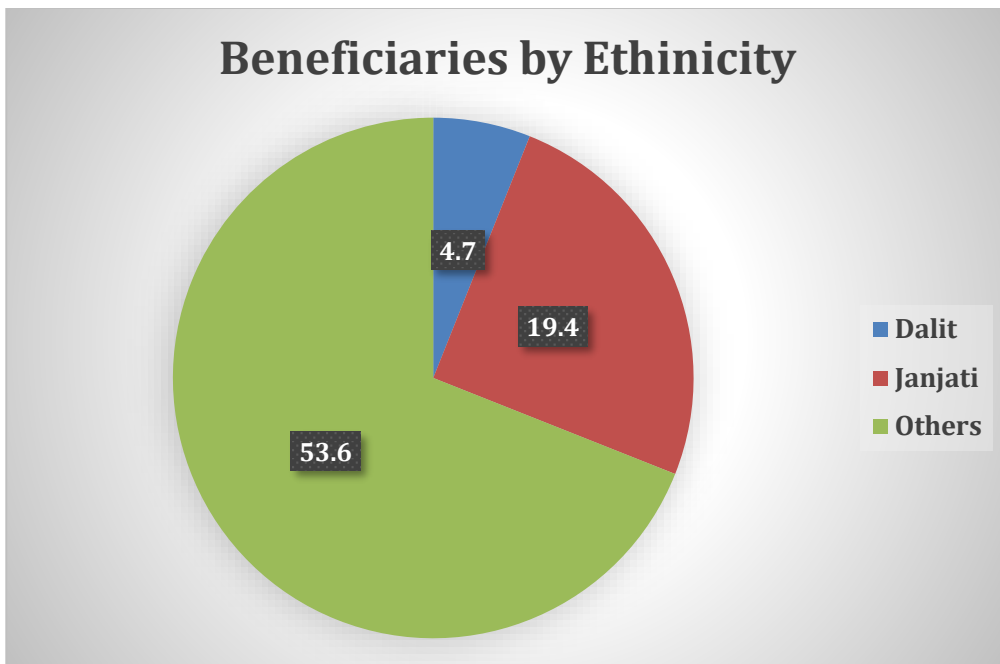
2.9 Number of Beneficiaries by Ethnicity

The project is also gathering the ethnic data in all project-implemented activities. They are presented below in table 2.44 and figure 2.9. In the entire project supported activities Dalit participation is found to be very low at 4.7 %, Janajati at 19.4 % and other 53.6 %.

Table 2. 44: Number of Beneficiaries Engaged, in Project Activities by Their Ethnicity

S.N.	Type of Activities	Dalit	Janajati	Others	Total
1	Training, Workshops and Interactions (staffs)	137	1,168	3,615	4,920
2	Training, Workshops and Interactions (Farmers)	492	2,275	6,103	8,870
3	Training, Workshops and Interactions (Both)	179	995	3,652	4,826
4	Operation of Farmer's Field Schools (FFSs)	507	1,930	4,151	6,588
5	POs Formed and supported (FGs new and old)	2,510	9,305	13,581	25,396
6	POs engaged (cooperatives)	3,530	16,325	42,641	62,496
7	Engaged in Climate Smart Practices	1,904	6,502	39,267	47,673
8	Beneficiaries from Call 1,2 & 3	2,096	8,845	17,527	28,468
9	Beneficiaries from other project intervention (Markets, Chilling Vat and other Equipment support etc)	NA	NA	NA	54,398
Total Beneficiaries		11,355	47,345	130,537	243,635
% age		4.7 %	19.4 %	53.6 %	100 %

Figure 2. 9: Beneficiaries by Ethnicity

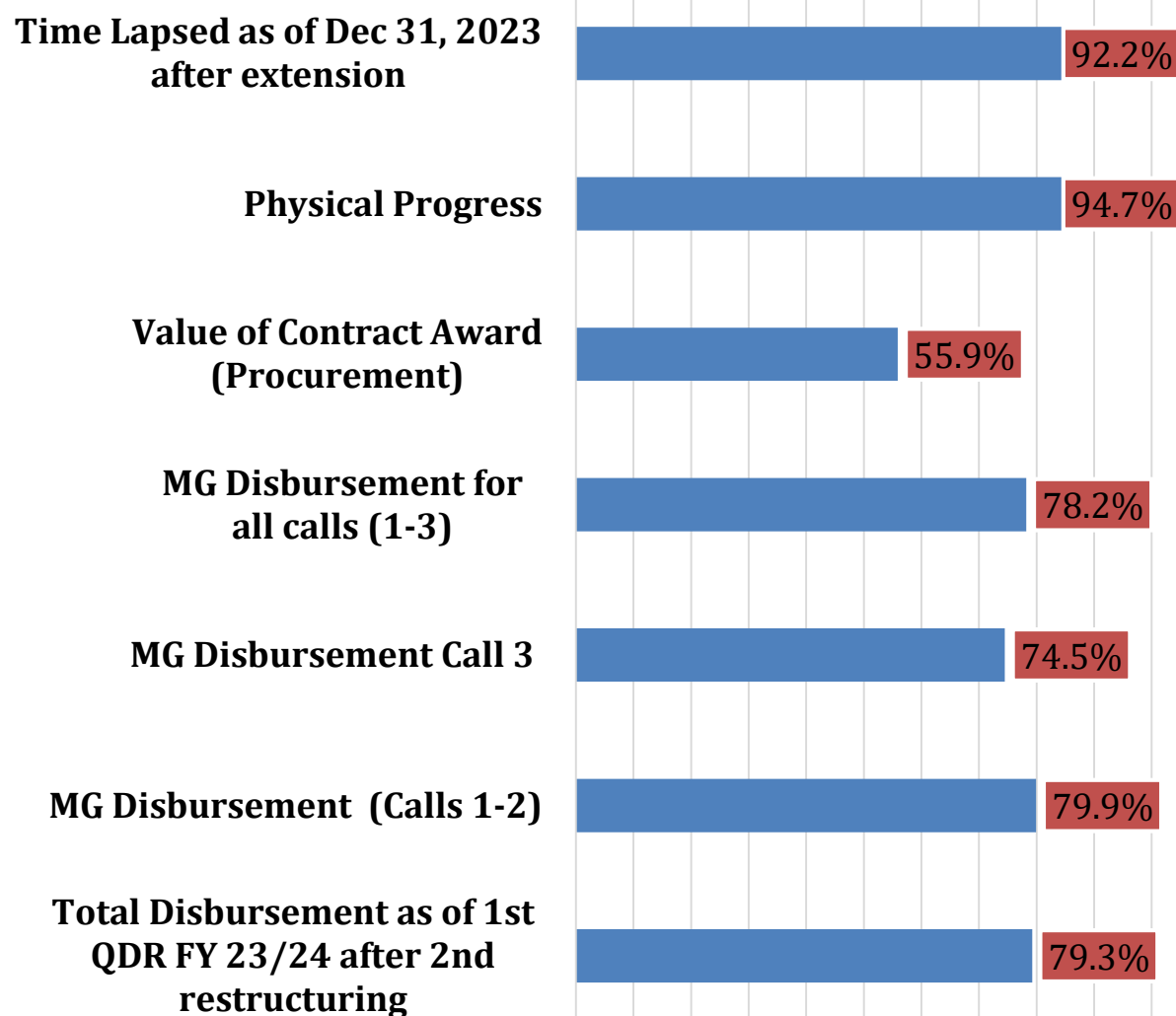


2.10 Overall Performance of the Project

Overall performance of the NLSIP is measured around the four indicators as shown in figure 2.10 below. Time lapsed is measured based on the actual time spent (71 Months) as against the total duration of the project (77 Months), and the physical progress is the total progress achieved so far against the total activities planned after the MTR. Value of contract awarded is measured in terms of actual contract awarded so far as against the total contract planned and disbursement rate is actual disbursed by the Bank in the NLSIP designated account as of Dec, 2023. As per the figure 2.10 below, as of Dec 2023, the project has spent more than 92 % of its total allocated time period, whereas the physical progress is measured at 94.7 %. The project has equally made a good physical progress around 90.9 % towards the award of the contract. The planned contract for the project until this period was fixed at 340 activities, of which 141 activities were cancelled due to various reasons, some of them were no longer necessary. Out of remaining 199 activities estimated value of USD 32.097 million, 181 procurement activities are signed having actual contract agreement amount of USD 17.96 million. Of 181 signed 174 activities are completed. Other are under implementation. Overall physical progress of procurement after cancellation of 141 activities is at 90.9 %. Whereas, the value of contract awarded is around 55.9 %.

Figure 2. 10: Overall Performance of NLSIP

Overall Performance of NLSIP



Note: The IDA allocation as of June 13, 2023 is USD 51.8 million as per client connection despite USD 55 million in FA. In the 2nd restructuring US\$ 8.8 million was cancelled leaving behind only US\$ 43 million. The disbursement is calculated only for total IDA allocation of USD 43.00 as per client connection after 2nd restructuring and disbursement claimed as of Dec, 2023

2.11 Approved Annual Work Plan Budget for the F/Y 2023/24

The annual work plan budget for the F/Y 2023/24 has been approved. The total approved budget for all the cost centres is NPR 914.9 million, which is equivalent to USD 7.04 million. (exchange rate USD = NRS 130.0). Of the total NPR 914.9 million budget, the IDA contribution is NPR 780.1 million (85.26 %) and GoN contribution is NPR 134.8 million (14.74%). The recurrent budget is NPR 761.3 million and capital budget is NPR 153.6 million. The cost centre wise budget allocation is presented in table 2.45 below.

Table 2. 45: Approved AWPB for the FY 2023/24

Cost Centers	Capital	Recurrent	Total	GoN NRS M	IDA NRS M	Total NRS M
PMU	141.345	241.543	382.888	70.136	312.752	382.888
Morang	0	151.105	151.105	14.893	136.212	151.105
Hetauda	0.7	145.739	146.439	12.043	134.396	146.439
Kaski	1.32	95.67	96.99	13.066	83.924	96.99
Rupendehi	0.98	77.124	78.104	15.232	62.872	78.104
NLBO	9.255	50.119	59.374	9.43	49.944	59.374
Total	153.6	761.3	914.9	134.8	780.1	914.9
USD	1.18	5.86	7.04	1.04	6.00	7.04

Source: LMBIS (PMU)

2.12 Project 1st and 2nd Restructuring

The project has gone two times restructuring. The first restructuring was done on March 21, 2022 with proactive cancellation of USD 25 million IDA fund and 2nd restructuring on June 30, 2023 with cancellation of USD 8.8 million IDA fund. There is a difference in IDA allocation between signed agreement and client connection portal. As per the client connection portal as of June 2023, there is a total IDA allocation of US\$ 51.8 million from which US\$ 8.8 million was cancelled. So, the project left with only US\$ 43.0 million after 2nd restructuring. The table 2.46, 2.47 and 2.48 below details out the original and revised IDA allocation plan source wise, component wise and, cost category wise.

Table 2. 46: Original and Revised Project Allocation in USD million

Source	Unit	original	After 1st Restructuring	After 2nd Restructuring
WB/IDA	US\$ M	80.0	55.0	43.0
GoN	US\$ M	10.0	7.05	6.12
Beneficiaries	US\$ M	10.0	10.0	7.2
BFI's	US\$ M	15.0	15.0	10.8
Total	US\$ M	115.0	87.05	67.12

Source: PMU

Table 2. 47: Component wise Original and Revised Allocation in USD

S.No	Components	Unit	original	After 1st Restructuring	After 2nd Restructuring
A	Strengthening Critical Regulatory and Institutional Capacity	US\$ million	7.00	0.37	0.30
B	Promoting Sector Innovation and Modernizing Service delivery	US\$ million	45.00	26.04	21.13
C	Promoting Inclusive Value Chain for Selected Livestock Commodities	US\$ million	54.00	53.55	38.6
D	Project Management and Knowledge Generation	US\$ million	8.00	7.03	7.03

PPF	Project Preparation Fund	US\$ million	0.5	0.06	0.06
	Total	US\$ million	115.00	87.05	67.12

Source: PMU, NLSIP

Table 2. 48: Category wise original and revised IDA allocation

Cost Category	Unit	original	After 1st Restructuring	After 2nd Restructuring
Goods and Works (I)	US\$ M	32.5	19.02	16.51
Consulting, Non consulting, training and workshops (II)	US\$ M	19.0	8.09	5.91
Incremental Operating (III)	US\$ M	3.0	2.83	2.52
Matching Grant (IV)	US\$ M	25	25.0	18.00
PPF	US\$ M	0.5	0.06	0.06
Total	US\$ M	80	55.0	43.00

Source: PMU

2.13 Organization of Project Steering Committee and Central Technical Committee Meeting

Until the reporting period, the project has organized 17 Project Steering Committee Meeting chaired by the Secretary MoALD and more than 42 Central Level Technical Coordination Meeting (CTCM) chaired by Director General, Department of Livestock Services as per the provision made in the revised PIM. All these meetings were very useful and productive to stream line the project activities.

2.14. Summary Status of the Project Result Framework Data

The project has 4 PDO Indicators and 8 Intermediate Result Indicators. Of which the project has less progress in the farmers adopting climate smart livestock practices 75, 000 target vs 47,673 progress. Similarly, women participation in the client days of training provided the project achieved only 12.3 percent against 35 %. In addition, there is also less progress in POs formation 1,359 POs against 1,700 target and FMD vaccination 3.002 million against 5 million target. The detailed RF is provided in Annex 1.

The detailed RF is provided in Annex 1.

The survey plan to track the result for the end of project is provided in annex 2.18

CHAPTER 3: PROJECT COST AND FINANCING PLAN

3.1 Project Cost

The total original cost of the project was US\$ 115.00 million of which 69.57% (US\$ 80 million) was IDA loan, 8.70 % (US\$ 10 million) was from beneficiary contribution, contribution by the Financial Institution was 13.03 % (US\$ 15 million) and remaining 8.70 % (US\$ 10 million) was from GoN contribution. The NLSIP 1st restructuring was done with US\$ 25 million cancelled and deducted from the total project cost. The revised project cost has significantly come down to US\$ 87.04 million of which IDA contribution was US\$ 55.00 million, GoN share was US\$ 7.04 million, beneficiary contribution was US\$ 10.00 million and the contribution by the Financial Institution was US\$ 15.00 million. The 2nd restructuring of the NLSIP project cost was carried out subsequently with US\$ 12.00 million again cancelled leaving the total NLSIP projects costs to US\$ 43.00 million with GoN contribution US\$ 6.12 million, IDA share US\$ 43.00 million, beneficiary contribution US\$ 7.20 million and Financial Institution US\$ 10.80 million.

Table 3. 1: NLSIP's Financing Structure

Sources	Original Project Cost US\$ Million	1st Restructuring US\$ Million	2nd Restructuring US\$ Million
Borrower/Recipient Contribution (GoN)	10.00	7.04	6.12
International Development Association (IDA) (Credit)	80.00	55.00	43.00
Country's FIs	15.00	15.00	10.80
Contribution of Local Beneficiaries (farmers, POs, other value chain actors)	10.00	10.00	7.20
Total	115.00	87.04	67.12

Table 3. 2: Total Cost and Financing by Project Component

Project Components	NLSIP Costs and Financing										
	Project Cost - US\$ Million										
	Original	1st Revised					2nd Revised				
		GoN	IDA	Beneficiaries	Fis	Total	GoN	IDA	Beneficiaries	Fis	Total
A. Strengthening Critical Regulatory and Institutional Capacity	7.00	0.06	0.31	-	-	0.37	0.05	0.25	-	-	0.30
B. Promoting Sector Innovation and Modernizing Service Delivery	45.00	4.06	21.98	-	-	26.04	3.29	17.84	-	-	21.13
C. Promoting Inclusive Value Chains for Selected Livestock Commodities	54.50	0.55	28.00	10.00	15.00	53.55	0.40	20.20	7.20	10.80	38.60
D. Project Management and Knowledge Generation	8.00	2.38	4.65	-	-	7.03	2.38	4.65	-	-	7.03
PPA	0.50	-	0.06			0.06	-	0.06	-	-	0.06
Total Cost	115.00	7.05	55.00	10.00	15.00	87.05	6.12	43.00	7.20	10.80	67.12

Table 3. 3: Allocation of IDA Credit

Loan Category		Credit Allocated in US\$			% of Category Financing
		Original	1st Revised	2nd Revised	
1	Goods and works under Components A, B, C (other than C.2(a)), and D of the project	32,500,000.00	19,016,000.00	16,510,000.00	85
2	Non-consulting services, consultants' services, training and workshops under (Components A, B, C (other than C.2 (a) and D of the project	19,000,000.00	8,092,000.00	5,910,000.00	85
3	Incremental operating costs under Components A, B, C (other than C.2 (a) and D of the project	3,000,000.00	2,834,000.00	2,520,000.00	72
4	MGs under Subcomponent C.2(a) of the project	25,000,000.00	25,000,000.00	18,000,000.00	50% of amount disbursed
5	Refund of PPA	500,000.00	58,000.00	60,000.00	Amount payable pursuant to Section 2.07 of the General Condition
Total Amount		80,000,000.00	55,000,000.00	43,000,000.00	

The table 3.4 below details the IDA share of NLSIP financing in SDR.

Table 3. 4: IDA Financing in SDR

Loan Category		IDA Loan Allocation in SDR		
		Original	1st Revised	2nd Revised
1	Goods and Works	23,000,000.00	13,381,636.00	12,445,663.00
2	Non-consulting services, consultants' services, Training and Workshops	13,450,000.00	5,668,909.00	4,386,140.00
3	Incremental Operating Costs	2,150,000.00	2,031,443.00	1,897,200.00
4	Matching Grants	17,700,000.00	17,700,000.00	13,531,003.00
5	Preparation Advance Refund	400,000.00	84,562.00	44,289.00
Grand Total		56,700,000.00	38,866,550.00	32,304,295.00

3.2 Project's Financial Delivery as of FY 1st Quadrimester 2023/24

The following table 3.5 shows the project's accumulated expenditures as of 1st QDR - FY 2023/24. The total project expenditure incurred as of FY 1st Quadrimester 2023/24 has amounted to NPR 6,838.25 million (including beneficiary contribution and financial institution loan) of which the GoN contribution is NPR 646.13 million, IDA contribution NPR 4,359.50 million, Beneficiary's contribution NPR 733.05 million and Financial Institutions' Loan on Matching Grant NPR 1,099.57 million. The total project cost excluding Beneficiary's contribution and Financial Institutions Loan has amounted to NPR 5,005.63 million. The total project absorption ratio has remained to be 44.85% over the project period. It shows that the project's financial performance has not been satisfactory till now.

Figure 3. 1: Project Expenditure as of 1st Quadrimester FY 2023/24

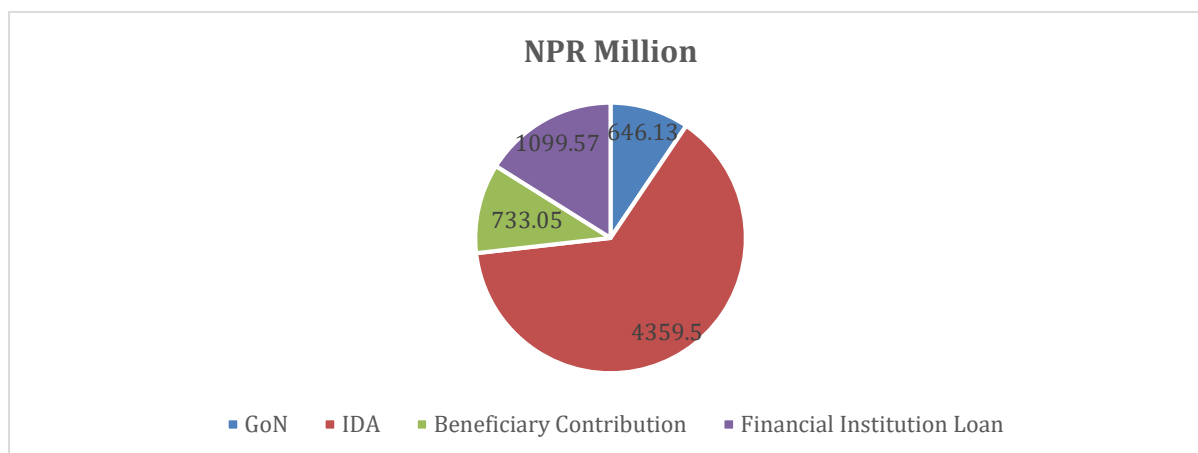
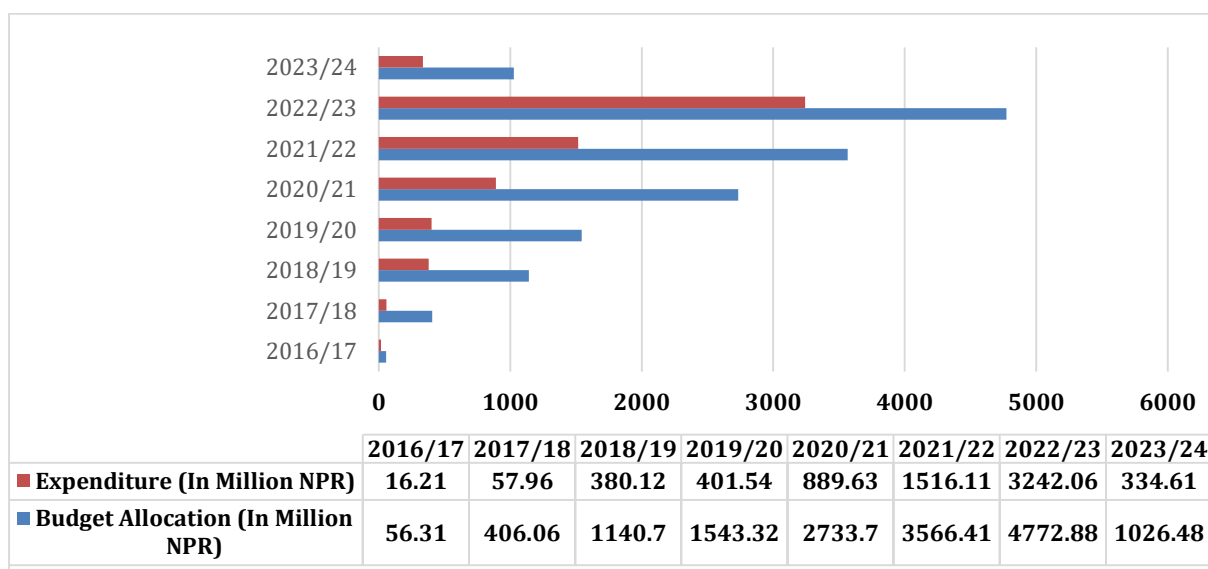


Table 3. 5: The Project's Expenditures as of FY 1st QDR 2023/24

In Million NPR											
Fiscal Year	Budget Allocation by Source					Expenditure by Source					Exp %
	GoN	IDA	Beneficiary	BFI	Total	GoN	IDA	Beneficiary	BFI	Total	
2016/17	21.30	35.01	-	-	56.31	10.26	5.95	-	-	16.21	28.79
2017/18	58.96	347.10	-	-	406.06	10.97	46.99	-	-	57.96	14.27
2018/19	191.10	949.60	-	-	1,140.70	72.18	307.94	-	-	380.12	33.32
2019/20	237.81	1,305.51	-	-	1,543.32	87.91	313.63	-	-	401.54	26.02
2020/21	348.12	2,385.58	-	-	2,733.70	165.16	724.47	-	-	889.63	32.54
2021/22	300.04	2,842.80	169.43	254.14	3,566.41	138.01	954.54	169.43	254.14	1,516.12	42.51
2022/23	252.00	3,257.00	505.55	758.33	4,772.88	145.43	1,832.75	505.55	758.33	3,242.06	67.93
2023/24 -1st QDR	129.64	751.67	58.07	87.10	1,026.48	16.21	173.23	58.07	87.10	334.61	32.60
Total - as of FY 2022/23	1,538.97	11,874.27	733.05	1,099.57	15,245.86	646.13	4,359.50	733.05	1,099.57	6,838.25	44.85

Figure 3.2: Budget Allocation and Project Expenditure by Fiscal Year



3.3 PIUs Financial Performance During 1st Quadrimester 2023/24

The following Table 3.6 shows financial performance of all six PIUs including Project Management Office Kathmandu in FY 1st Quadrimester 2023/24.

Table 3. 6: Financial Performance of PIUs in FY1st Quadrimester 2023/24

In NPR Million											
PIUs	Budget Allocation by Source (2023/24)					Expenditure by Source (2023/24)					% Expenditure
	GoN	IDA	Beneficiary	BFI	Total	GoN	IDA	Beneficiary	BFI	Total	
PMU	70.14	312.75	-	-	382.89	6.24	13.05	-	-	19.29	5.04
DLSU, Biratnagar	14.89	136.21	25.22	37.83	214.15	2.15	67.56	25.22	37.83	132.76	61.99
DLSU, Hetauda	12.04	134.40	11.60	17.40	175.44	2.00	30.93	11.60	17.40	61.93	35.30
DLSU, Butwal	15.23	62.87	7.57	11.36	97.03	2.35	22.53	7.57	11.36	43.81	45.15
DLSU, Pokhara	13.07	83.92	13.67	20.52	131.18	2.70	36.06	13.67	20.52	72.95	55.61
NLBO Pokhara	4.26	21.52	-	-	25.78	0.77	3.10	-	-	3.87	15.01
Total	129.63	751.67	58.06	87.11	1,026.47	16.21	173.23	58.06	87.11	334.61	32.60

NLSIP total spending has amounted to NPR 334.61 million (32.60%) including beneficiary and Banking Financial Institution contribution in 1st QDR 2023/24. Of the total project expenditure incurred during 1st QDR 2023/24, GoN contribution amounted to NPR 16.21 million, IDA 173.23 million, beneficiary contribution 58.06 million and BFI contribution NPR 87.11 million.

3.4 IDA Disbursement Status

IDA disbursement is basically based on the volume of project expenditure incurred during the project period. More is the project spending; more would be the IDA disbursement and vice versa.

The Project Appraisal Document (PAD) has estimated the expected disbursement pattern of IDA fund by Year as given below in Table 3.7.

Table 3. 7: Projected and Actual IDA Disbursement (in million USD) as of FY 1st QDR 2023/24

	Fiscal Year	2017	2018	2019	2020	2021	2022	2023	Total
Projected IDA Disbursement (Based on Original Allocation of US\$ 80 Million)	Annual	-	5.00	10.00	20.00	25.00	18.00	2.00	80.00
	Cumulative	-	5.00	15.00	35.00	60.00	78.00	80.00	80.00
	In %	-	6.25	12.50	25.00	31.25	22.50	2.50	100.00
Adjusted IDA Disbursement (Based on Revised Allocation of US\$ 55.00 million)	Annual	-	2.69	5.37	10.75	13.43	9.68	1.08	43.00
	Cumulative	-	2.69	8.06	18.81	32.24	41.92	43.00	55.00
	In %	-	6.25	12.50	25.00	31.25	22.50	2.50	100.00
Actual IDA Disbursement (US \$ Million)	Annual	0.06	2.00	3.09	3.46	5.23	10.43	9.83	34.09
	% Achieved	-	74.42	57.53	32.16	38.97	107.76	914.34	79.28

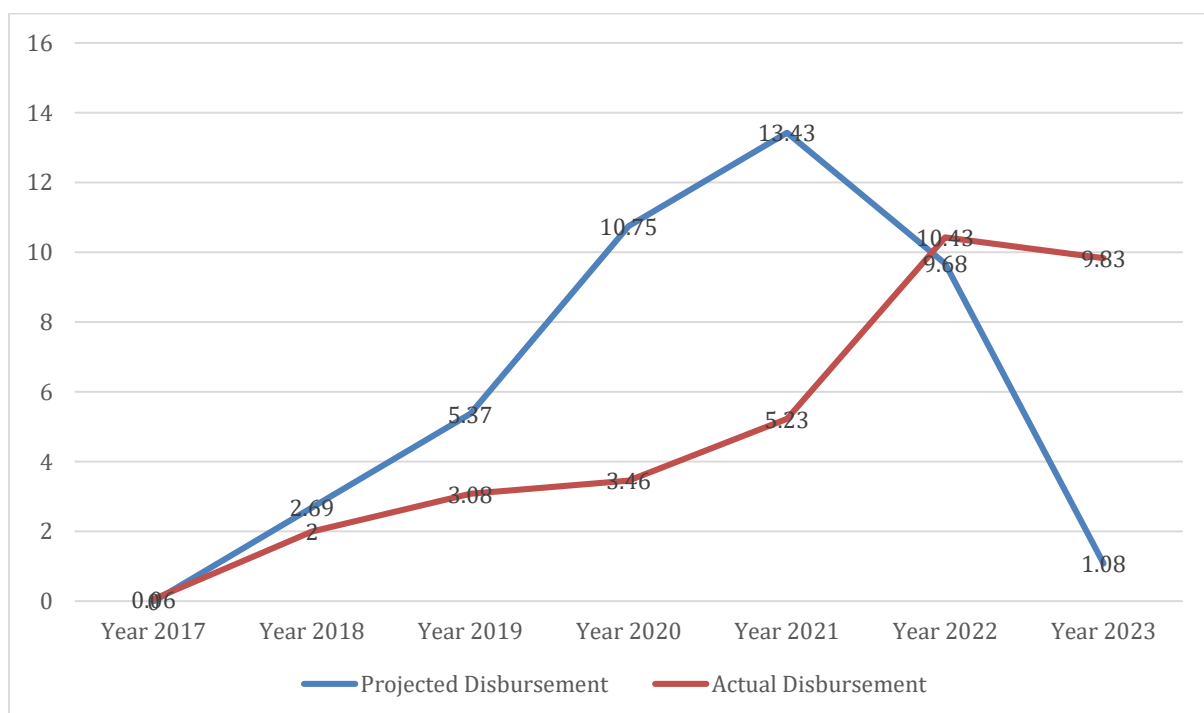
As of 1st QDR 2023/24, the total disbursement has amounted to US\$ 34.09 million. Despite dismal performance during the initial project periods, the project disbursement has steadily improved during the year 2022 and 2023.

The Category-wise IDA disbursement as of 1st QDR 2023/24 is given in the Table 3.8 hereunder.

Table 3. 8: Category-Wise IDA Disbursement as of FY 1st Quadrimester 2023/24

Year	Category 1	Category 2	Category 3	Category 4	PPF Funding	Advance Account	Total
	US\$	US\$	US\$	US\$	US\$	US\$	US\$
2017	-	-	-	-	57,835.14	-	57,835.14
2018	-	-	-	-	-	2,000,000.00	2,000,000.00
2019	2,319,788.23	446,198.69	320,475.35	-	-	-	3,086,462.27
2020	1,831,411.72	1,244,585.57	381,703.13	-	-	-	3,457,700.42
2021	3,755,362.91	1,137,124.34	340,317.74	-	-	-	5,232,804.99
2022	2,615,328.20	1,376,714.46	585,245.27	5,848,969.58	-	-	10,426,257.51
2023 - as of 15 July 2023	2,778,350.10	411,314.02	263,424.93	6,376,118.94	-	-	9,829,207.99
Total Disbursement - as of 31 August 2023	13,300,241.16	4,615,937.08	1,891,166.42	12,225,088.52	57,835.14	2,000,000.00	34,090,268.32
Revised Allocation as per WB Client Connection	16,703,075.40	5,886,550.77	2,546,194.18	18,159,688.51	59,439.38	-	43,354,948.24
Financial Progress (%) as per WB Client Connection	79.63	78.41	74.27	67.32	97.30	-	78.63

Figure 3. 3: Actual IDA Disbursement against Projected Disbursement (In Million USD)



3.5 Status of Designated Account

The Table 3.9 presented below portrays the actual status of DA balance of the project.

Table 3. 9: Status of DA Utilization as of FY 1st Quadrimester 2023/24

IN US Dollar				
FY	Receipt	Withdrawal (GoN Transfer)	Direct Payment	DA Balance
2016/17	100,000.00	57,835.14	-	42,164.86
2017/18	1,957,835.14	412,729.42	-	1,587,270.58
2018/19	1,731,541.38	1,318,811.96	53,140.16	1,946,859.84
2019/20	2,960,353.32	2,907,213.16	-	2,000,000.00
2020/21	4,703,404.69	4,703,404.69	-	2,000,000.00
2021/22	7,351,396.13	9,349,783.09	-	1,613.04
2022/23	13,804,564.41	11,806,177.45	-	2,000,000.00
2023/24	1,726,276.24	1,726,276.24	-	2,000,000.00
Total	34,335,371.31	32,282,231.15	53,140.16	2,000,000.00

The above table 3.9 exhibits the status of Designated Account being operated since FY 2016/17. The balance at the Designated Account as of 1st Quadrimester of FY 2023/24 is USD 2.0 million.

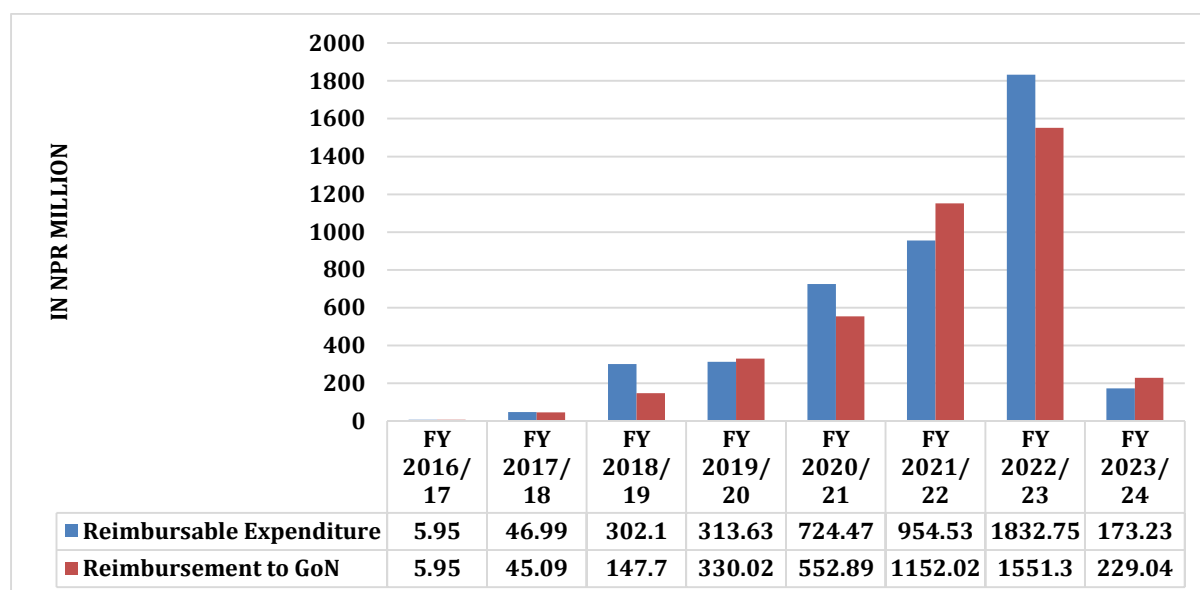
3.6 Reimbursement Status of NLSIP

As of FY 1st Quadrimester 2023/24, the outstanding reimbursable expenditure has amounted to NPR 339.63 million. The detail of the reimbursable expenditure incurred, and reimbursement made to the GoN in each fiscal year is exhibited in the following Table 3.10 given hereunder.

Table 3. 10: Status of Reimbursement as of FY1st QDR 2023/24

In NPR						
FY	IDA Reimbursable Expenditure	Source Change	Frozen Amount	Net Reimbursable Expenditure	Transfer to GoN Treasury From DA	Reimbursement Yet to be Made to GoN Treasury
2016/17	5,953,548.93	-	-	5,953,548.93	5,953,548.94	(0.01)
2017/18	45,165,688.70	1,827,497.59	-	46,993,186.29	45,090,688.70	1,902,497.59
2018/19	304,066,293.87	-	(1,970,133.24)	302,096,160.63	147,700,211.08	154,395,949.55
2019/20	303,917,295.49	9,711,194.97	-	313,628,490.46	330,015,514.29	(16,387,023.83)
2020/21	724,470,326.46	-	-	724,470,326.46	552,891,344.61	171,578,981.85
2021/22	954,532,149.89	-	-	954,532,149.89	1,152,023,416.90	(197,491,267.01)
2022/23	1,832,749,555.23	-	-	1,832,749,555.23	1,551,304,784.64	281,444,770.59
2023/24	173,226,093.58	-	-	173,226,093.58	229,042,332.08	(55,816,238.50)
Grand Total	4,344,080,952.15	11,538,692.56	(1,970,133.24)	4,353,649,511.47	4,014,021,841.24	339,627,670.23

Figure 3. 4: Reimbursable Expenditure and Reimbursement to GoN



3.7 PFM Orientation and Financial Monitoring:

The NLSIP management has given utmost priority to strengthening the capacity of the financial management officials working in PMU and DLSUs. Several PFM orientations training was carried out. The orientation training to DLSU chiefs and financial management officials of the DLSUs have focused on providing PFM technical know on (i) how activity / program-wise accounts are maintained? (ii) what types of accounting formats they are required to maintain apart from the CGAS generated PFM templates, (iii) how should they follow the financing share of expenditure on account of civil works, consulting services, training and workshops, operating expenditure and matching grants, (iv) when and how they are required to send PFM reporting formats to PMU? In addition to this, they were taught to prepare the customized PFM reporting formats provided by PMU. Such training has helped them in timely and rightly preparation and submission of PFM reporting books of accounts and formats to PMU. It also facilitated the timely disbursement from World Bank and timely reimbursement to GoN.

Similarly, the NLSIP management has carried out frequent financial monitoring of the DLSUs. Financial monitoring is often carried out by field visits to the DLSUs Offices. Likewise, financial monitoring is carried out through virtual mode as well. Monthly and periodical review of financial statements of the DLSUs through CGAS has also been carried out to ensure that the DLSUs have spent according to the provisions of the loan agreement.

Sub-project level physical and financial monitoring has been frequently and periodically carried out jointly by DLSU technical and financial officials and TA Consulting Team. However, due to the discontinuation of the consulting inputs after June 30, 2023, until the beginning of November 2023, financial monitoring has been seriously affected.

3.8 Project Financial Accounting

The project has followed the GoN prescribed standard accounting system to record the project financial transactions. Apart from this, the Project has also maintained the essential books of accounts as prescribed by the World Bank especially regarding the preparation of Internal Unaudited Financial Report (IUFR) and external audit reports. In addition, NLSIP has developed several customized PFM reporting templates to be maintained and prepared by DLSUs so that all required quality financial information is received in time to expedite disbursement and reimbursement procedure. The Treasury Single Account (TSA) has been in operation in Nepal for more than eight years that has eased the accounting & bookkeeping through online PFM networks. The Project has made necessary arrangements in sending the Withdrawal Application in time for timely reimbursement to GoN or replenishment to Designated Account. In addition, the Project has also started maintaining books of accounts through Computerized Government Accounting System (CGAS) in all DLSUs to which the PMU has read-only access through sharing of CGAS passwords.

3.9 IUFR / Project Audit/ Reporting

The project has made effective arrangements to prepare the Implementation Progress Report along with Internal Unaudited Financial Reports (IUFR) within the deadline prescribed in PAD and Financing Agreement. NLSIP has been continuously submitting IPR and IUFR to the World Bank on a Quadrimester basis. But the preparation and submission of the 3rd Quadrimester IUFR 2022/23 and Un-audited Project Financial Statements has been considerably delayed due to the discontinuation of the consulting team especially after June 2023.

NLSIP has made necessary arrangement in getting the accounts of PMU and DLSUs audited timely by the authorized auditing agency of Government of Nepal as per the provision of Financing Agreement. The Un-audited Project Financial Statements (Project account) for 2022/23 has already been submitted to the World Bank and Audited Project Financial Statements (Audited Project Account) for FY 2022/23 shall be submitted to the World Bank within the prescribed deadline in the Financing Agreement.

CHAPTER 4: PROCUREMENT

This chapter presents brief descriptions on the major procurement and commitments made by the project over the 1st quadrimester of fiscal year 2023-24 and updates on project's procurement as of the reporting period.

4.1 General

In the beginning of this FY, Procurement plan was prepared for the procurement activities to be carried out during current FY 2023-24. During this period, notice was published for the procurement of critical consultants and consulting firm and construction of BSL 2 laboratory at Budanilkantha, Kathamnfu. Procurement Plan is updated on regular basis. Major procurements activities agreed during this period are as follows:

- Procurement of three critical consultants (PTE, FMS and PS)
- Procurement of consulting firm to supervise the construction of BSL 2 Laboratory
- Procurement of 3 million doses of FMD vaccine
- Procurement of 1 million doses of LSD vaccine
- Construction of BSL 2 laboratory
- Procurement of UV-VIS Spectrophotometer for NAFQML
- Procurement of HPLC Water Generator for NAFQML
- Procurement of electrical appliance for Seed Processing Unit, Ranjitpur
- Procurement of Refree for AI Inseminators-NLBO
- Procurement of Mobile Semen Analyzer-NLBO
- Procurement of high quality bull semen-NLBO
- Procurement of sexed semen-NLBO
- Procurement of annual forage seed and mineral mizture block for DLSO Biratnagar
- Procurement of annual forage seed, Hoof Triming and Cow Lifter for DLSU Hetauda
- Procurement of perennial grass and fodder saplings, forage seed, annual forage seed, winter forage seed and materials for herd health program for DLSU Pokhara
- Procurement of perennial forage seed and annual forage seed for DLSU Butwal
- Procurement of seed processing equipment for Rhizobium Laboratory, Dhanusha

In the coming Quadrimester more focus would be given to complete the procurement activities listed above well on time.

CHAPTER 5: IMPLEMENTATION ARRANGEMENT

The MoALD is the implementing agency of the project which is at the apex level. It is supported by Project Steering Committee established on May 18, 2018 and chaired by Secretary. The PSC consists of various members from different government line agencies, civil societies and farmer's organization. The composition of PSC is- Joint Secretaries of MoALD, NPC, MoF, Director Generals of DoLS, DFTQC, ED of NARC, Department of Cooperative, and one representative each from the civil society (farmer's alliance). The project Director of NLSIP is the member secretary of the PSC. The PSC will meet quarterly and will approve the project's annual work plan and budget, monitor NLSIP progress, provide oversight and policy guidance, and resolve any outstanding issues. As of now, the PSC has met five times and taken important decision on approving PIM and establishing DLSUs at four different locations, and approving different important guidelines.

The PMU is an implementing agency under MoALD. It is established within the complex of Department of Livestock Services at Harihar Bhawan, Lalitpur on July 11th, 2018. The PMU is headed by Project Director (GI Level) and supported by well-qualified and experienced staff. The government deputed-staff are 11 and other 11 are on contract basis (table 5.2 & 5.3). In addition to the dedicated government staff, the PMU is also assisted by number of TA team from various discipline. The PMU carries out the following functions- day-to-day overall project implementation and management, including fiduciary, environmental, social safeguards, communication, monitoring and evaluation (M&E) and reporting. It also provides guidance/assistance to DLSUs in carrying out their assigned work. The PMU is supported by four other Decentralized Level Support Units (DLSUs) as cost centers established on May 03, 2018 one in each of the five provinces covering 289 municipalities in the selected clusters. Each DLSU is headed by Project Coordination Chief (GII Level) and supported by eight other government staffs on deputation and five other on contract basis (table 5.1). Each DLSUs will provide service to an average of 60-70 municipalities. The command districts and municipalities for each of the DLSU is provided below in the table 5.1.

Table 5. 1: NLSIP Coverage Areas

Province	Districts	Total municipalities	Location of the DLSUs
Koshi	Panchthar, Ilam, Jhapa, Dhankuta, Udayapur, Morang & Sunsari	77	Morang
Madesh Pradesh	Saptari, Dhanusha & Siraha	53	Hetauda
Bagmati	Kavrepalanchok, Kathmandu, Makawanpur & Chitwan	41	
Gandaki	Syangja, Kaski, Mustang, Manang, Tanahu, Myagdi & Nawalparasi (East)	49	Pokhara

Lumbini	Rupandehi, Nawalparasi (W), Gulmi, Palpa, Arghakhanchi, Kapilbastu & Bardiya	69	Butwal
	Total	289	

The governance structure and deployment of staff at PMU and DLSUs level is given below (figure 5.1)

Figure 5. 1: Governance Structure of NLSIP

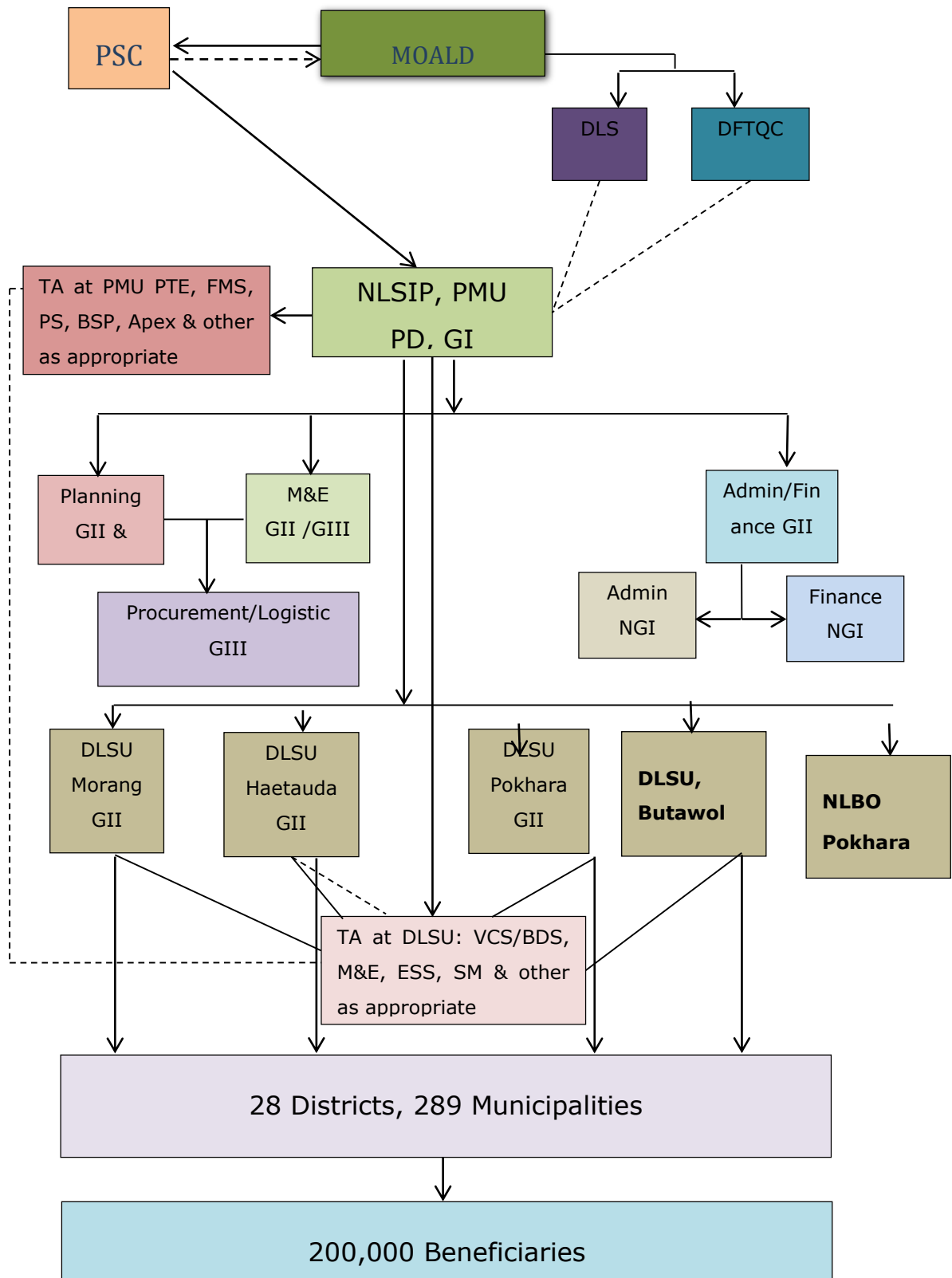


Table 5. 2: Allocated Human Resources at PMU

At PMU

a) Government Deputation

S.N.	Designation	Class	Allocated	Full filed	Status
1	Project Director	GI	1	1	All Fulfilled and deployed
2	Senior M & E Officer	GII	1	1	
3	Senior Planning Officer	GII	1	1	
4	Finance Officer	GII	1	1	
5	Planning Officer	GIII	1	1	
6	M&E Officers	GIII	2	2	
7	Junior Technicians (JTs)	NGI	2	2	
8	Administrative Assistant	NGI	1	1	
9	Accountant (Lekhapal)	NGI	1	1	
Sub Total			11	11	

b) On Contract

S.N.	Designation	Class	Allocated	Full filed	Status
1	Computer Operator	NA	3	3	All Fulfilled and Deployed
2	Driver	NA	5	5	
3	Office Assistant	NA	3	3	
Sub Total			11	11	
All Total at PMU			22	22	

Table 5. 3: Allocated Human Resources at NLBO, Pokhara

On Contract

S.N.	Designation	Class	Allocated	Full filed	Status
1	JTs	NA	1		
All Total at NLBO			1	-	

Table 5. 4: Allocated Human Resources at DLSUs

a) On Government Deputation

S.N.	Designation	Class	Morang	Hetauda	Pokhara	Butwal	Total
1	Project Coordination Chief	GII	1	1	1	1	4
2	M & E Officer	GIII	1	1	1	1	4
3	Planning Officer	GIII	1	1	1	1	4
3	Junior Technician	NGI	2	2	2	2	8
5	JTA	NGII	0	0	1	0	1
4	Accountant	NGI	1	1	1	1	4
5	Admin Assistant	NGI	1	1	1	1	4
6	Sub Total		7	7	8	7	29

b) On Contract

S.N.	Designation	Class	Morang	Hetauda	Pokhara	Butwal	Total
1	Sub Engineer	-	1	1	1	1	4
2	Computer Operator	-	1	1	1	1	4
3	Driver	-	2	2	2	1	7
4	Office Assistant		2	2	2	2	8
Sub Total			6	6	6	5	23
All Total for DLSUs			13	13	14	12	52
All Total for NLSIP on Government Deputation							40
All Total for NLSIP on Contract							35
All Total for NLSIP							75

CHAPTER 6: ENVIRONMENT AND SOCIAL SAFEGUARD MEASURES

6.1 Introduction

The project is very concerned on the implementation of environment and social safeguard measures as it triggers number of GoN and World Bank policies. The project is committed to implement, manage, and monitor the mitigation measure as the project activity rolls out over time.

The project is covering potential areas of Mountain, Hills and Terai in four cluster along the road corridor of five provinces. It is working extensively in 289 Municipalities of 28 districts that have at least 12.4 million people of which 6.4 million are female.

The major areas of intervention of the project are small to medium type of infrastructure development work, support to potential entrepreneurs to run sustainable and viable business in dairy, meat and pashmina value chain providing partial grants and strengthening the existing laboratory and breeding station. All these interventions are likely to generate some kind of negative impacts on the safeguard side.

Against this backdrop, the following are the key activities that are ongoing in order to address the issues described above:

The project has prepared the Environment and Social Management Frame work. The project is adhering to this document as guidelines to implement all its activities

The project has updated the Project Implementation Manual, which is approved by the competent authority WB and PSC. The updated PIM has addressed sufficiently on safeguard measures by developing issue based action plan to adopt while the project activities are being implemented

The project has hired Engineering Consultancy Firm, to design and supervise all the construction works that are approved in the project. The Consultancy Firm has Environmental specialist, who is preparing the guidelines for the implementation of Environment Management Plan developed for each construction work.

The project provided capacity building training to all Grant Applicants whose Project Concept Note are accepted and they are trained in the compliance of safeguards and quality control measure.

The project has provided orientation training on environmental and social safeguard training to GR's of call I/II/III.

The project has put in place the Grievance Redress Mechanism in all tiers of project implementation. The MoALD has already approved the guidelines for this. During the reporting period, GRM Committee meeting at district level, cluster and national level are held regularly. Grievances lodged in the reporting period were responded successfully.

The project has hired the Technical Assistance Service provider that has the provision for Social Expert and Environmental Specialists who will take care of all social aspect of the project without compromising the compliance of the GoN and World Bank policy on these issues.

The project has prepared and put in place the PMIS system to track all these records on a real time basis.

The project has hired the Gender Specialist on October 24, 2019 for the entire period of the project on an intermittent basis for 12 months input, who is carefully looking at the Gender Action Plan and putting its efforts to raise the women participation in all project activities.

On the other side, the project is also promoting the adoption of climate smart livestock practices and climate smart livestock processing technologies by adopting various activities prescribed by the National Action Plan for Adaptation developed by Ministry of Population and Environment. Similarly, on the social safeguards aspect, the project has planned to reach out more than 200,000 beneficiaries of which at least 90,000 will be female. The project is designed to engage larger proportion of beneficiaries to participate in the project activities that would include farmer's group, cooperatives, producers, processors, input providers through a platform called Stakeholder Dialogue Platform. These interventions generate positive outcome on Environment and social measures. The project has prepared Environmental and Social screening guidelines of project activities especially for the proposal submitted for project partial financing.

All these interventions are documented and presented in the Implementation Progress Report as the project activities rolled out over time.

Similarly, the project has prepared site specific Environment and Social Management Plan in consistent with the Environment and social Management Framework for different project activities. While preparing the site specific ESMPs, screening checklists is used to identify the problems, stakeholder consultation is held, site map is prepared and land acquisition is confirmed. Based on the site specific ESMP, the tasks to be carried out is added in the contract document where appropriate, some added in the BoQ and some requirements simply to abide by the contractor. These ESMPs are also reviewed by the WB safeguard team.

Site visit

Screening using the check lists

Stakeholder consultation

Decision minute of the consultation meeting

Site Map preparation

Evidences for the availability of appropriate land

Similarly, monitoring template has been developed to monitor the SPs under Matching Grant of Component C and monitored the ongoing activities of each SP visited

The project has prepared the Gender Action Plan and progress reporting template to ensure gender equity and citizen engagement, the project is making a conscious effort to allow women and other disadvantage group of beneficiaries to participate in all aspects of the project cycle, from planning and implementation to monitoring the results. The data are regularly collected analyzed and presented in each progress review meetings. The

Preparation of Safeguard Reports

The project made substantial progress in the preparation of ESMPs for various construction works since the 7th mission. Under the able guidance from the WB safeguard team and with continuous hand holding support, the project is able to produce site specific ESMPs as well as ECoP. Environment and Social Screenings were followed by the preparation of site specific ESMPs as well as site specific ECoP.

Orientation on E & S Risk Management to Call 3 Grantees.

Environmental and Social Safeguard Orientation Training was organized for grantees of Matching Grant Program under Component "C" at three DLSUs—Pokhara, Butwal and Hetauda. The program was conducted as a part of annual program of NLSIP. A total of 117 people participated in the program including 37 project staffs and rest were farmers. The program was of 1 day focusing on safeguard measures to be considered during construction and operation of subproject activities. Participants were also sensitized about existing law and policies of GoN along with the World Bank.

The table 6.1 below provides the disaggregated social data of the project beneficiaries participating in the different project activities.

Table 6. 1: Beneficiaries participating in Various Project Activities

S. N.	Type of Activities	Male	Female	Total	Dalit	Janajati	Others	Total	% age of the Women
1	Training, Workshops and Interactions (staffs)	4,314	606	4,920	137	1,168	3,615	4,920	12.3
2	Training, Workshops and Interactions (Farmers)	6,712	2,158	8,870	492	2,275	6,103	8,870	24.3
3	Workshops and Interactions (Staff & Farmers)	3,578	1,248	4,826	179	995	3,652	4,826	26
4	Operation of Farmer's Field Schools (FFSs)	2,709	3,879	6,588	507	1,930	4,151	6,588	58.88
5	POs Formed and supported (FGs & Coop)	42,223	45,669	87,892	2,510	9,305	13,581	25,396	52
7	Engaged in Climate Smart Practices	24,669	23,004	47,673	3,530	16,325	42,641	62,496	48.3
8	Beneficiaries from call 1 & 2	12,709	15,146	27,855	1,904	6,502	39,267	47,673	54.37
9	Beneficiaries from 3	465	148	613	2096	8845	17527	28,468	24.14
10	Beneficiaries from other project intervention (Markets, Chilling Vat and other Equipment support etc)	42,945	11,453	54,398	NA	NA	NA	54,398	21
Total Beneficiaries		140,324	103,311	243,635	11,355	47,345	130,537	243,635	42.4

CHAPTER 7: WORLD BANK MISSION AND ACTION PLAN

7.1 General

This section presents the progress status on action plans of the 9th Implementation Support Review Mission held on August 20 to 31, 2023.

7.2 WB 9th Implementation Support and Review Mission

The 9th WB Implementation Review and Support Mission was carried out by a Bank team led by Karishma Wasti¹³ (Task Team Leader [TTL]) from Aug 20-31, 2023. The objectives of the review were to: (i) assess the overall implementation progress; and (ii) discuss and agree on the key activities to be implemented in the remaining period of the project period. The main findings were discussed at the wrap-up meeting at the Ministry of Agriculture and Livestock Development (MoALD) chaired by Dr. Rewati Raman Poudel, Secretary for Livestock Development, on September 14, 2023

The Mission brought the following critical points to the attention of PMU and the higher management of the MoALD.

- Extend the contract of four critical consultants (Project Technical Expert, Financial Management Expert, Procurement, Civil Engineer specialized in Bio-safety laboratory and Monitoring and Evaluation Expert) by October 30, 2023
- Share with the Bank the revised proposal for new activities including the Bio-safety laboratory, procurement of Lumpy Skin Disease Vaccine and trainings by October 30, 2023.

In the wrap up meeting held at MoALD the following eight agreed action plans have been agreed. They are presented in table 7.1 below.

The component wise discussion and the progress made are described in detail in the Aid Memoir. The AM also provided (1) updated Result Framework, and (2) agreed action of the annual portfolio review of the WB financed projects held on Sept 15, 2023 at MoALD

In view of the good progress and exceeding the targets in many indicators the project performance rating in the 9th ISR was significantly improved. Of eight different performance indicators, the project has achieved SATISFACTORY in three indicators, MODERATELY SATISFACTORY in other four indicators as follows except in Financial Management which is mainly due to absence of FMS.

¹³ The Bank team comprised Mr. David Tuchsneider, Senior Agriculture Economist, Ms. Asuka Okumura, Agriculture Economist, Ms. Annu Rajbhandari (Senior Environmental Specialist), Ms. Timila Shrestha (Senior Financial Management Specialist), Mr. Chandra Kishore Mishra (Procurement Specialist), Mr. Joachim Vandercasteelen (Economist), Mr. Purna Chhetri (consultant), Geoffrey Dyce (consultant), Mr. Ishwar Neupane (Social Safeguard consultant), and Ms. Sunita Gurung (Program Assistant).

Table 7. 1: Performance rating at the 9th ISR

S.No	Indicators	Rating
1	Achievement of PDO	S
2	Implementation Progress	MS
3	Project Management	MS
4	Procurement	S
5	Financial Management	MU
6	Counterpart Funding	S
7	Safeguard	MS
8	Monitoring and Evaluation	MS

Note: S= Satisfactory; MS= Moderately Satisfactory

Table 7. 2: Status of agreed action plan agreed of the 9th Mission (agreed at MoALD)

No.	Agreed Action	Responsibility & deadline	Status
1	Extend the contracts of the critical consultants	PMU; Oct 30, 2023	Contract for 4 critical consultants have been extended since Nov 1, 2023 and they are fully on board. Completed
2	Complete the data cleaning for the endline survey	PMU; Oct 30, 2023	Data cleaning for end line survey has been completed and the result shared at the workshop organized by PMU in presence of Joachim and Purna Sir on Nov 23, 2023. Accordingly, RF updated. Updated RF and full report of the endline survey shared with WB on Dec 08, 2023 Completed
3	Secure approval from MoALD on Animal Nutrition Strategy	MoALD; Nov 29, 2023 Revised Date Dec 31,2023 (MoALD to MoF) Jan 31, 2024 (MoALD to Cabinet)	This Strategy is still under the consideration of MoALD. Due to long holidays for the national festival (Tihar and Chhat) there might be further delay for the final approval. (Work under progress)
4	Complete the data collection for profitability analysis exercise and share final data for analysis with the Bank	PMU; Nov 29, 2023	Data collection completed in all DLSUs. Data cleaning and analysis is going on. The updated status is planned to

			<p>review on Dec 13, 2023 with Joachim, Geoff and Kul ji.</p> <p>Completed</p>
5	Submission of draft Infectious Animal Disease Control Act and Animal Welfare Act to the Cabinet	MoALD; Jan 30, 2024	<p>For the final draft on Infectious Animal Disease Control Act, consent from provincial and local governments have been received. It is now shared with the federal relevant ministries for their consent. After which it is once again updated incorporating all feedbacks and submitted to cabinet to secure approval to table the bill in the parliament.</p> <p>Whereas for Animal Welfare Act, it is still in the final drafting phase at MoALD.</p> <p>(Work in progress)</p>
6	Secure approval from MoALD on Risk Based Strategic Plan	MoALD; Jan 31, 2024	<p>MoALD has received the feedback on the FMD Risk Based Strategic Plan from FAO where the document was shared for global harmonization. After updating it, PMU will assist MoALD for the Nepali translation which is mandatory to secure approval from cabinet.</p> <p>(Work in progress)</p>
7	Complete payments for all call 3 sub projects	PMU; Dec 30, 2023	<p>Of 380 Signed SPs under call 3, only 235 SPs are at implementation. Of 235, 173 SPs have been completed with final payments. There are now 62 SPs waiting for final payments. They were on hold due to budgetary constrain. The budget has been released on Dec 11, 2023. Attempts will be made to complete all pending SPs by Dec 31, 2023.</p> <p>(Work in progress)</p>
8	New procurement activities will not be initiated in the last six month of the project implementation period.	PMU; January 1, 2024	<p>It was discussed and made known to all cost centers during the trimester progress review meeting held at PMU on Nov 03, 2023. Procurement plan for new procurement activities has</p>

			been submitted to WB through STEP on Dec 08, 2023 for approval. (Completed)
9	Start data collection, report compilations and drafting of project completion report	PMU; December 30, 2023	The Annual Implementation Progress Report (IPR) for the last FY 2022/23 has been prepared and is ready to share with WB. It contains all analytical project related data and information which can be useful for the preparation of ICRR. The 1 st Quadrimester FY 2023/24 IPR prepared and shared with WB (Completed)

The status of agreed action plan of the last 8th AM at the time of 9th ISR is presented below in table 7.2

Table 7. 3: Status of agreed action of the 8th ISR held in (March 27-31, 2023)

No.	Agreed Action	Responsibility & deadline	Status
1	Approval of BES for Livestock Market and LSC Madi belonging to National Park	PMU April 30, 2023	Documents prepared and submitted to MoALD. The project is following up with MoALD. MoALD is reviewing it. (Work in Progress)
2	Report to the Bank on the full payments for Call 1 and 2 Matching Grant Schemes	PMU April 30, 2023	Of 249 agreement signed for the implementation of the subprojects under call 1 & 2; 213 SPs are fully completed after cancellation of 36 SPs. Of NRS 1,538.07 million grant committed to these 213 SPs NRS 1229.93 million grant have been successfully paid. Which is 79.96% of the total committed. Cluster wise total number of SPs completed are; Morang-42; Hetauda-69; Pokhara-55 and Butwal-47. (Completed)
3	Receive NoL from the Bank on technical clearances including business and sustainability plan for all new construction and large equipment purchase	PMU Sept 30, 2023	The new construction planned for next FY 2023/24 were cancelled by MoF except for BSL 2 plus laboratory at Budanikantha, Kathmandu. For this the clearance is already received from WB. With regard to the procurement of high value equipment like LCMS-MS

			has been dropped due to its complexity and questions on its sustainable use. (Completed)
4	Orientation on E&S risk management to the matching grant recipients under call 3	PMU May 30, 2023	Orientation to call 3 beneficiaries with respect to E & S risk management have been organized in Pokhara, Butwal and Chitwan on June 26, 27 and 28, 2023 respectively with participation of more than 117 call 3 grantees. (Completed)
5	Complete implementation for Call 3 Matching Grant Schemes	PMU June 30, 2023	Of 380 SPs signed for grant agreement, 237 SPs are in operation with voluntarily cancellation of 143 SPs. Of 237 SPs 105 SPs are fully completed with the submission of PCR. and other 132 SPs have completed the implementation part but they are yet to be verified and provide them the final payment. Of total grant NRS 827.71 million committed for these 237 SPs; NRS 451.38 million have been disbursed. The rate of disbursement for these SPs under call 3 as of Aug 15, 2023 is 54.53 %. (Completed)
6	Provide additional data and insights about the measurement of key indicators in the RF by unpacking the achievements into subcomponents used in the indicator measurement.	PMU June 30, 2023	The project has provided the appraisal data, baseline data, 1st and 2nd HHs survey including national average of the project district data to Joachim especially on milk productivity as suggested in the meeting. Joachim is to finalize and suggest to the project. (Work in Progress)
7	Share with the Bank the business operation and maintenance plan for the markets supported by the project	PMU June 30, 2023	The project has completed the business plan of the three project financed livestock markets (Siyari, Rangeli and Berdiya) after consulting the market development committee

			of the respective markets and respective Palikas (Completed)
8	Share with the Bank exit and handover plan for SDPs	PMU Sept 30, 2023	Work in progress.

7.3 Project's Performance Rating in Last Nine Mission

The performance rating of the project in last 9 missions is presented in the table 7.4 below. Accordingly, the project was at problem status in the 1st ISR but significantly improved in the 2nd and 3rd ISR. Again in the 4th and 5th the project went into the problem status later it slowly recovered. The detail is presented in the table 7.4 below.

Table 7. 4 : Performance rating during the last 9 ISR

S.No	Indicators	WB Implementation Review and Support Mission								
		1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th
1	Achievement of PDO	MS	MS	S	MS	MU	MS	MS	MS	S
2	Implementation Progress	MU	MS	MS	MU	MU	TBC ¹⁴	MS	MS	MS
3	Project Management	MU	MS	MS	MS	MS	MS	MS	MS	MS
4	Procurement	MS	MS	S	S	S	S	S	S	S
5	Financial Management	MU	MS	MS	MS	MS	MS	MS	MS	MU
6	Counter Funding	MU	S	S	S	S	S	S	S	S
7	Safeguard	MU	MS	MS	MS	MS	MS	MS	MS	MS
8	Monitoring and Evaluation	MS	MS	MS	MS	S	MU	MU	MS	MS

Note: HS = Highly Satisfactory; S = Satisfactory; MS = Moderately Satisfactory; MU = Moderately Unsatisfactory; U = Unsatisfactory; and HU = Highly unsatisfactory.

¹⁴ TBC: To be confirmed after proactive cancellation of US\$ 25 million. Which after cancellation of US\$ 25 million upgraded to MS

CHAPTER 8: WAY FORWARD AND FUTURE ACTIONS

This chapter presents key issues and way forward to be considered for the effective implementation for the remaining period of the Project

Writ petition and Supreme Court Stay Order

The writ petition lodge by Muga Malbashe Dihi, Krishak Samuha, Dhankuta in Supreme Court and the Stay Order issued on May 05, 2022 has seriously impacted the implementation of call three subprojects resulting in the halt of the instalment payment to these sub projects. These SPs are operated by private firms and companies. With the clearance from MoALD, the work has been resumed on Dec 11, 2022. The final verdict from Supreme court has not been received yet. The detail of writ is presented in the annex 2.1

Construction of BSL 2 Laboratory

The project is to complete the ongoing construction of BSL 2 Laboratory at Budanilkantha, Kathmandu. The speed of construction work is much appreciated, since this is a special type of construction, proper attention is to be paid for its quality completion.

Data collection for the project extended period

Collection of data for the extended period to feed in the RF is a challenging. There is no provision in the approved AWPB for t he current FY 2023/24. However, the project has requested to TTL to assist in this task.

Approval of Strategies

The project has developed draft Animal Nutrition, Animal Identification, and other roadmaps. They all need to be approved by the competent authority MoALD

Approval of the FMD Risk Based Strategy and PPR Road Map

The Department has developed FMD Risk Based Strategy integrating project-developed roadmap. It should be submitted to the international community to allow Nepal to upgrade in stage-2 from stage-1 in PCP pathway. Sooner the strategy is developed and submitted, better will be the chance to be upgraded in stage 2. This has to be expedited. PPR Road Map has been prepared following Global Strategy for the Control and Eradication of PPR. This also has to be integrated into the National PPR Control Strategy (being developed) to step up from stage I to stage II and later in stage III finally aiming at the eradication by 2030.

Approval of the FMD Risk Based Strategy and PPR Road Map:

The project developed Brief Environmental Study (BES) for Ratnanagar livestock market and LSC at Madi, as they fall on buffer zone of the National Park, Chitwan still pending at MoALD.

Insurance of High Value Equipment

The high value equipment procured by the project has not been insured due to the inadequate policy to do so.

Annex 3: Implementation Progress by Results Framework

PDO Indicator One: Productivity of targeted livestock commodities (milk, goat meat, <i>chyangra wool</i>) among beneficiaries.									
Unit of Measurement	Baseline (Appraisal)	Target/Actual	YR1 17/18	YR2 18/19	YR3 19/20	YR4 20/21	YR5 21/22	YR6 22/23	YR7 23/24
Percentage increase of average milk production per cow/buffalo.	Cow = 450 L per year	Target	0%	5%	15%	25%	40%	40%	40%
		Actual (L)				1232.00	1,498.43	2,203.62	
		Actual against appraisal baseline (%)				173.70%	232.98%	389.69%	
	Buffalo: 640 L per year	Target	0%	5%	15%	25%	40%	40%	
		Actual (L)				749.00	814.94	1,400.83	
		Actual against appraisal baseline (%)				17.03%	27.33%	118.8	
<p>Explanation: <i>regarding baseline values:</i> The baseline values reported in the project's PAD were 450 L and 640 L for cow and buffaloes, respectively and were collected through a Rapid Rural Appraisal (RRA) carried out in 2017 during project preparation. The endline survey was carried out in 2023. In between there were baseline survey 2020, 1st Annual House Hold Survey (AHHS1) in 2021 and 2nd Annual Household survey (AHHS2) in 2022. The cow productivity for control households during baseline survey 2020, AHHS1 2021 and AHHS2 2022 were 1,222 L, 1,232 L, and 1,498 L respectively. These control productivity values are larger compared to the RRA baseline value which considered local animal were only and where average values are below the national average of 737 L (Total Milk Production from cow/Number of milking cows: 795,530,000/1,078,775-Statistical Information of Nepalese Agriculture 2018/19). In other survey round both local and improved animals were included in the samples. Similarly, the productivity value obtained for buffalo during baseline survey 2020, AHHS1 2021 and AHHS2 2022 were 720 L, 749 L and 814.94 L respectively.</p> <p><i>Regarding endline values:</i> At the endline survey, the productivity values for cow and buffalo are also calculated between the treatment and controlled group at the institutional level (POs and Pvt. Firms). At the POs level the cow productivity is measured as 1,918.8 L and at Pvt firm level as 2,077.4 L. The average productivity at the institutional level is 1,998.1 L. Similarly, for buffalo productivity in the controlled group is measured as 942.7 L at POs level and at Pvt. Firm level it is 1,434 L. The average productivity value for buffalo in the controlled group at institutional is 1,188.35 L. But the final value 2,203.62 L is calculated as the weightage average of different types of beneficiaries that received productivity support: HHs in POs, HHs from grant recipient under call 1 & 2 (FGs and Coop) and grant recipient under call 3 (private firms). The end line survey results of the productivity level of the cow's milk in the different selected samples were 2,239.45 L, 2,029.3 L, and 2,199.9 L from POs HHs, HHs from Call 1&2 grant recipient and private firms under Call 3 grant recipients. Compared to the baseline value of control groups for cow and buffalo groups (1,222 and 720, respectively), achievement is 80% and 94%, well above the project's targets. The increased productivity in endline survey result can be attributed to increased herd size, increased lactating period and increased number of improved animals. The endline value of buffalo productivity is 1,400.83 L and is the weightage average from the different sub samples from HHs from POs-1,346.39 L; HHs from Call 1/2 grant recipients- 1662.9 L and from private firms under call 3- 1,533 L. The reasons for increased productivity in buffalo milk in addition to reasons provided in the cow milk can be named as increased access to animal health services, improved feeding practices and market linkage with PA partnership.</p> <p>Data Source: PAD 2017, AHHS1 2021, AHHS2 2022 and Endline survey 2023</p>									
Unit of Measurement	Baseline 2020	Target/Actual	YR1 17/18	YR2 18/19	YR3 19/20	YR4 20/21	YR5 21/22	YR6 22/23	YR7 23/24
Percentage increase in off take rate expressed as carcass weight for goats	Goat meat=5 Kg per year	Target	0%	10%	20%	20%	20%	20%	
		Actual (Kg)				3.90	5.42	13.6	
		Actual against Baseline 2020				-22.00%	8.4%	172%	

Explanation: End target for offtake for carcass weight has been reduced from 40% to 20% in MTR recommendation based on progress and level of difficulty to achieve this target, and. Similarly, the indicator on chyangra wool production has been dropped due to the difficulty of achieving this target for reasons outside the control of the project, while project support to this value chain will continue under extension and outreach services.

The PAD does not provide the baseline value of for goat meat. The baseline value in the results framework is derived from the value of control households in the baseline survey 2020. However, as that baseline value was not calculated using the definition of the indicator as explained in the PAD, it was recalculated using the same data during the endline survey and it is found to be 7.8 kg/year instead of 5 Kg per year. The endline value of 13.6 kg is calculated based on the weightage average of the beneficiaries from HHs from POs (13.48 kg), HHs from grant recipient from call 1& 2 (14.1 Kg) and from grant recipient from private firms, call 3 (17.37 kg). Thus, compared to the more appropriate baseline value of 7.8, achievement is 73% and above the project target. The reasons behind increased value in endline result can be attributed to increased number of improved goat population, mortality control due to PPR (Peste des Petits Ruminants, one of the killer disease in goats) vaccination, access to improved veterinary services and market linkage in a productive partnership alliance.

Data Source: Baseline Survey 2020, AHHS1 2021, AHHS2 2022 and Endline survey 2023

PDO Indicator Two: Increased sales of value-added products in targeted value chains									
Unit of Measurement	Baseline 2020	Target/Actual	YR1 17/18	YR2 18/19	YR3 19/20	YR4 20/21	YR5 21/22	YR6 22/23	YR7 23/24
Percentage increase of sales value (aggregated over all the targeted value chains) ¹⁵	Milk (Cow/Bufaloes)/HH =300.2 (Rs '000' per year) with adjustment of the inflation rate	Target	0%	5%	10%	20%	25%	30%	30%
		Actual (NRs '000)				298.9	337.6	573.49	
		Actual against Baseline					12.45%	91.03%	
	Goat Meat/HH= 42.9 (Rs '000' per year after adjusting with inflation rate.	Target	0%	5%	10%	20%	25%	30%	
		Actual (NRs '000)				43.7	51.5	102.61	
		Actual against Baseline 2020				(1.86%)	(20.04%)	(139.2%)	

Explanation: This indicator is defined as the average increase of sales and measured as the mean value of sales within the individual targeted value chains. The values are calculated after deducting inflation rate by using CPI calculation from Nepal Rastra Bank, taking base year 2014/15. The endline sales value after adjusting with the inflation rate in cow/buffalo milk 573.49 thousand and goat meat 102.61 thousand has been achieved from the weightage average calculation as in the case of productivity.

Data Source: Baseline survey 2020, AHHS1 2021, AHHS2 2022 and endline survey 2023

PDO Indicator Three: Farmers adopting climate smart agricultural technology (of which female)									
Unit of Measurement	Baseline (Appraisal)	Target/Actual	YR1 17/18	YR2 18/19	YR3 19/20	YR4 20/21	YR5 21/22	YR6 22/23	YR7 23/24
Number (in '000, cumulative)	0	Target	0	10	30	60	75	75	
		Actual		0,599	12,377	24,247	35,411	47,673	
Of which female (%)	(0)	Target	(0)	(20)	(30)	(45)	(45)	(45)	
		Actual		29	35	49.44	51.18	48.3	

Explanation: Project supported CSLP include shed and manure management to reduce methane emission, improved feeding practices such as fodder and improved grasses over grain based formulation to reduce enteric fermentation, silage feeding, animal health improvement through vaccination and breed improvement for efficiency. The total beneficiaries are calculated from different intervention as follows; (1) Nursery establishment-1,496; (2) Shed and Manure Management-1,981; (3) Silage feeding from 33 units- 1,819; (4) Distribution of improved seed for forage development-20,467; (5) Distribution of improved samplings for forage development-7,779; (6) Contract farming for seed production-1,031;

¹⁵ Rate of increase of sales in targeted value chains; this indicator will be measured for every targeted value chain. However, only the average value over all the targeted value chains will be reported.

(7) Forage production in community land-3,400; (8) Goat shed improvement-1,020 and (9) Herd Health Program (Vaccination, drenching and pneumonia control) – 8,680. All total- 47,673 of which 23,004 (48.3%) are the female beneficiaries benefitted from all those interventions. Data Source: PMIS and IPRs									
PDO Indicator Four: Farmers reached with agricultural assets or services (of which female)									
Unit of Measurement	Baseline (Appraisal)	Target/Actual	YR1 17/18	YR2 18/19	YR3 19/20	YR4 20/21	YR5 21/22	YR6 22/23	YR7 23/24
Number (in '000, cumulative)	0	Target	0	25	50	100	150	200	
		Actual		7.354	73.205	115.78	174.55	243.63	5
Of which Female (%) ¹⁶	0	Target	(0)	(20)	(30)	(45)	(45)	(45)	
		Actual		33.3	42	46.7	49.0	42.4	
Explanation: This indicator measures the number of beneficiaries in targeted Municipalities who were provided with agricultural assets and services by the project. The baseline value is zero. The number of beneficiaries benefitted from different project intervention as tracked from IPRs are; (1) Capacity building training provided to staff-4,920, (2) Capacity building training provided to farmers-8,870, (3) Capacity building workshop/interaction in the cross cutting areas provided to stakeholders-4,826, (4) operation of Farmer Field School (FFSs)-6,588, (5) POs formed and supported (FGs and Coops)-87,892, (6) benefiting from adoption of climate smart practices- 47,673, (7) Beneficiaries from matching grant support (call 1,2 and 3)- 28,468, (8) beneficiaries from other project intervention, markets, chilling vat and other equipment support-54398. The total beneficiaries benefitted from different project intervention are 243,491. However, there can be 15-20 % overlap of the beneficiaries between the different project interventions. But the project has not counted the beneficiaries from the services provided from the project financed construction of 28 LCSs and vaccination against FMD and PPR									
Data Source: PMIS and IPR									
Intermediate Results Indicators									
Component A: Strengthening Critical Regulatory and Institutional Capacity									
A.2 Client days of training provided (of which female)									
Unit of Measurement	Baseline (Appraisal)	Target/Actual	YR1 17/18	YR2 18/19	YR3 19/20	YR4 20/21	YR5 21/22	YR6 22/23	YR7 23/24
Number (cumulative)	0	Target	5,00	1,500	2,500	3,500	4,500	5,500	
		Actual		533	4,727	8,867	10,733	12,352	
Of which female (%)	0	Target	(35)	(35)	(35)	(35)	(35)	(35)	
		Actual		19.5	10.42	12.63	12.34	12.3	
Explanation: The number of clients (Government staff) who completed trainings multiplied by the duration of the training in days. Total number of events organized were 171 with participation of 4,920 staff. The duration of the training ranges from 1-12 days (DLS approved curriculum) based on the type and nature of the trainings. Data Source: PMIS and IPRs									
Component B: Promoting sector innovation and modernizing service delivery.									
B.1 Number of Producer Organizations/Cooperatives newly established or formalized and offering an increased range of services to members									
Unit of Measurement	Baseline (Appraisal)	Target/Actual	YR1 17/18	YR2 18/19	YR3 19/20	YR4 20/21	YR5 21/22	YR6 22/23	YR7 23/24
Number (cumulative)	0	Targets	0	500	1,500	1,600	1,700	1,700	
		Actual		184	654	1048	1,347	1,359	
Data Source: PMIS.									
Explanation: The target of producer organizations to be supported was reduced from 3,000 to 1,700 to focus on fewer but quality support. Instead of increasing the number of groups, the project has opted to strengthen									

¹⁶ This includes the farmers who would benefit from the vaccination campaign supported by the project.

the existing and newly formed groups supported by the project for their sustainability. The target fixed was too ambitious, moreover, the local level of government is also forming the similar type of farmer group in their respective Palika. In the MTR it was realized and reduced the target

Data Source: PMIS and IPRs

B.2 Number of animals vaccinated against PPR and FMD through the project

Unit of Measurement	Baseline (Appraisal)	Target/Actual	YR1 17/18	YR2 18/19	YR3 19/20	YR4 20/21	YR5 21/22	YR6 22/23	YR7 23/24
FMD for cattle and buffalo (Number in '000,)	0	Target	1,500	2,500	3,500	4,500	5,000	5,000	
		Actual (Cumulative)		1,005 -	823 (1,828)	2,665 (4,493)	2,885 (7,378)	3,002 (10,380)	
PPR for small ruminants (Number in '000,)	0	Target	5,000	6,500	7,500	8,500	9,600	9,600	
		Actual (Cumulative)	-	-	7,000 (13,565)	6,565 (21,425)	7,860 (29,325)	7,900 (37,325)	8,000 (37,325)

Explanation: The project is now supporting the National FMD and PPR control program in compliance to agreement with SAARC. NLSIP therefore is supporting the GoN's Risk Based Strategic Plan to control FMD and National PPR Control Strategy to control PPR. The progress on FMD and PPR are reported in terms of number of animals vaccinated as per year wise target in thousand. The year wise target is well aligned with nation's RBSP of FMD and national PPR control program.

With these vaccination supporting National Disease Control Program of DLS the project is able to achieve 123, 10,626 and 165 reductions in number of outbreaks (57 %), number of affected animals (77 %) and number of deaths (63 %) respectively against FMD when compared between 2018 and 2022 DLS published data. Similarly, In PPR the reduction is 7 (89 %), 208 (98 %), and 44 (88 %) in terms of number of outbreaks, number of affected and number of death respectively in 2022 when compared to 64, 11,286 and 372 respectively in 2018.

Data Source: DLS Data

B.3 Beneficiary satisfaction rate with relevance, timeliness and effectiveness of services provided by the project for the livestock sector (of which female)

Unit of Measurement	Baseline (Appraisal)	Target/Actual	YR1 17/18	YR2 18/19	YR3 19/20	YR4 20/21	YR5 21/22	YR6 22/23	YR7 23/24
Total (%)	0	Target	—	—	35	—	—	75	
		Actual				28.40	34.57	68.84	
Of which female (%)	0	Target	—	—	35	—	—	75	
		Actual				29.30	44.27	66.46	

Explanation: The data presented applies to result obtained from AHHS1 2021, AHHS2 2022 and Endline survey 2023. In the endline survey overall beneficiary satisfaction rate as per the weightage average is 68.84 %. At the endline survey, the disaggregated data for relevance, timeliness and effectiveness are 69.13 %, 69.92 and 67.29 % respectively. The female representation will be updated later.

Data Source: AHHS1 2021, AHHS2 2022 and Endline survey 2023

Component C: Promoting Smallholder Inclusive Value Chains for Selected Livestock Commodities

C.1 Dialog platform between actors of the targeted value chains established and operational at national, provincial and district level (Number, Custom)

Unit of Measurement	Baseline (Appraisal)	Target/Actual	YR1 17/18	YR2 18/19	YR3 19/20	YR4 20/21	YR5 21/22	YR6 22/23	YR7 23/24
Number (National)	0	Target	0	1	1	1	1	1	
		Actual		1	1	1	1	1	
Number (provincial)	0	Target	0	5	5	5	5	5	
		Actual		5	5	5	5	5	
		Target		0	28	28	28	28	

Number (district)		Actual		0	28	28	28	28	
Explanation: This adjustment is to aligned with current administrative structure of the country during MTR. SDPs are established in all project 28 Districts, Five provinces (two provinces in Hetauda DLSUs) and at national level. All are operational and follows the MoALD approved guidelines.									
Data Source: PMIS, DLSU Report and IPRs									
C.2 Number of business plans financed by the project on a matching grant basis									
Unit of Measurement	Baseline (Appraisal)	Target/Actual	YR1	YR2	YR3	YR4	YR5	YR6	
Number (cumulative)	0	Target	0	50	125	250	350	350	
		Actual		0	0	0	629	448	
Explanation: Given the delay in rolling out matching grant schemes, the end target has been revised downward from financing 500 business plans to 350 business plans. The project had signed the matching grant agreement with 629 SPs (246 from call 1, three from call 2 and 380 from call 3) in year 2021/22. Due to various reasons described in IPR, a total of 179 (36 SPs from call 1 and 2 and 145 SPs from call 3) were cancelled. Currently 448 SPs are at implementation. Of the 448 SPs supported, 262 SPs are for dairy, 173 for meat and 13 for Chyangra wool. Similarly, 77, 133, 3, and 235 SPs are operated by FGs, Cooperative, Producer's Associations and Private Firms respectively.									
Source: PMIS, DLSU reports									
C.3 Share of project beneficiaries with a livestock risk insurance policy (of which female)									
Unit of Measurement	Baseline (Appraisal)	Target/Actual	YR1 17/18	YR2 18/19	YR3 19/20	YR4 20/21	YR5 21/22	YR6 22/23	YR7 23/24
Total (%)	0	Target	0	5	20	40	60	60	
		Actual				0	-	56.29	
Of which female (%)		Target	(0)	(20)	(30)	(45)	(45)	(45)	
		Actual				0	-	24.46	
Explanation: The insurance policy has been made mandatory in the animals procured through NLSIP financing under MGS. The information tracked in the endline survey result is 56.29 %. This is the weightage average calculated from all type of beneficiaries. This is slightly below than target. In addition, the project has trained and developed 153 livestock insurance agents to disseminate and link livestock farmers to insurance companies to support the national initiative.									
Data Source: Endline survey 2023									
Component D: Project Management and Knowledge Generation									
D.1 Grievances registered related to delivery of project benefits satisfactorily addressed									
Unit of Measurement	Baseline (Appraisal)	Target/Actual	YR1 17/18	YR2 18/19	YR3 19/20	YR4 20/21	YR5 21/22	YR6 22/23	YR7 23/24
%	0	Target	50	55	60	65	70	70	
		Actual		100	100	100	95.68	50	
Explanation: Grievance Redress Guideline approved by MoALD is at implementation. Accordingly, there are District level redress committee (28) led by chief of Veterinary Hospital and Livestock Service Expert Center, Cluster level redress committee at DLSU level (4) led by Provincial Director for Livestock and Fisheries Directorate and national level redress committee led by joint secretary of MoALD. All the grievances received are documented, heard and redressed.									
Data Source: DLSU Reports and IPR									

Annex 4.1: Status of MGs After the Writ Petition Filled in Supreme Court

A writ petition was filled to the Supreme Court of Nepal (SC) on April 27, 2022 (079/1/14) against NLSIP and seven other opponents requesting to halt, all MGS related payment to Farmer's Organizations (FGs, Cooperatives and Pvt. Firms) with whom the project had signed the grant agreement for the implementation of their selected sub projects. The writ petition also requested

the Supreme Court to issue interim order to halt the grant installment payment to all sub projects that included 224 SPs under implementation by FGs and Cooperatives and 380 SPs by private firms and livestock entrepreneurs. The writ petition has identified eight government institutions including NLSIP as opponents; they are (1) OPMCM, (2) MoALD, (3) NLSIP, (4) DLSU Biratnagar), (5) National Farmer's Commission, (6) NPC, (7) MoF and (8) NRB.

The SC summoned the order to all opponents listed above to make a physical presence at the court with all evidence for the hearing on May 05, 2022 (2079/1/22) and also a written reply on the writ petition within 15 days after the recipient of the order. In close consultation and coordination with Attorney General Office, NLSIP officials participated on the hearing at SC on May 05, 2022 and presented all its evidences from FA to PAD and from PIM to the AM of the WB ISR Mission defending all our procedures and works being implemented towards signing the MG is right and in line with approved guidelines and procedures. Despite all these efforts from NLSIP and Attorney General Office, SC has issued the Interim Order to halt the Grant Installment Payment against the Matching Grant to all those who are outside the targeted list of the beneficiaries until the final verdict is issued. With this order all 380 signed SPs for Pvt. Firms were affected, their implementation period were delayed, and grant payment also affected. However, the good part of this Interim Order was that it did not in any way affected the grant installment payment to the FGs and Cooperatives. There are 224 SPs of this category.

In consultation with the Attorney General Office and legal advice from DLS/MoALD, legal officer NLSIP filled another writ petition to SC to vacate the court's earlier interim order with all evidence and justifications. At the same time, it also prepared written reply in consultation with legal officer from DLS/MoALD, which SC asked for, during the initial hearing and submitted on May 18, 2022 (2079/2/4) within the deadline.

Hearing to vacate the SC earlier interim order was scheduled to take place only when all the eight opponents listed above present their written reply to the court. Written reply from all these eight opponents was submitted for the hearing at the court for the judgement with NLSIP coordinating with all eight opponents (OPMCM, MoALD, NPC, MoF, NRB and NFC) including Attorney General Office for the written reply.

On the other hand, in order not to invite further complications, the project through its DLSUs informed to all the private firms with whom NLSIP had signed agreements for the MG support about the Supreme Court's Interim Order.

To date the date of final verdict has been postponed number of times and it is uncertain. In order to avoid the further delay in implementation the project with its proactiveness sought the advice from Ministry of Law, Justice and Parliamentary Affairs and received the approval from MoALD on Dec 11, 2022. Considering the delay in reaching the final verdict, the implementation period of these SPs have been extended until June 30, 2023 as per the agreed action in the last 8th ISR Mission's AM.

Unfortunately, the same Durga Bahadur Thapa lodged another writ petition in the Supreme Court against the NLSIP and MoALD on the charge of contempt of court on March 15, 2023. The hearing is going on.

Annex 2.2: Provinces/Districts provided with FMD vaccine from DLS in FY 2022/23

S No.	Name of Pradeshes/Districts	No. of doses of FMD Vaccine Distributed
1	Sudur Pashim Pradesh	150,000
2.	Karnali Pradeesh	50,000
3.	Kavre District	165,000
4.	Lumbini Pradesh	580,500
5.	Lalitpur District	50,000
6.	Makawanpur District	49,500
7	Gandaki Pradesh	316,800
8.	Chitwan District	49,500
9.	Madesh Pradesh	528,000
10.	Koshi Pradesh	600,600
11	Vaccine Bank	462,100
	Total	3,002,000

Annex 2.3: Procurement of Vaccine, Cool Box and Vaccinator (2018/19 to 2023/24)

S. N	Total Procured/s tock	18/19	19/20	20/21	21/22	22/23	23/24	Total
1	FMD Vaccine	1,941,152	993,400	4,410,000	0	5,325,000	3,000,000 ND	12,669,552
2	LSD	0	0	0	0	0	1,000,000 (ND)	(ND)
3	Cool Box	2,332	0	0	0			2,332
4	Vaccinator	563	0	0	0	500		1,063
5	Vaccination Card for FMD and PPR	0	0	0	641,300			641,300

Note: ND= Not Delivered

Annex 2.4: Supply of Equipment's to Quarantine Check Posts (F.Y. 2020/21)

S.N.	Name of Items	Unit	Total Procured	Location
1	Refrigerator (vaccine storage)	Set	12	Distributed to major QCPs on demand by Quarantine Division of DLS
2	Common Refrigerator	Set	20	Same as above
3	Compound Microscope	Set	12	Same as above
4	Jet Sprayer with 20-25 Lt Plastic Tank	Set	12	Same as above
5	Autoclave	Set	12	Same as above
6	Automatic Centrifuge (15-20 ml test tubes)	Set	12	Same as above
7	Micro Pipette single channel (10-100µl)	Pcs	24	Same as above
8	Micro Pipette single channel (100-1000µl)	Pcs	24	Same as above
9	Forceps (6 inch)	Pcs	60	Same as above
10	Digital Infra-Red Thermometer	Pcs	24	Same as above
11	Electronic Balances	Set	12	Same as above
12	Water Bath	Set	12	Same as above
13	Lab Stool (Steel)	Pcs	36	Same as above
14	Scissors (6 Inch)	Pcs	36	Same as above

Annex 2.5: Procurement of Ear Tags and Semen Filling Machine (F.Y. 2075/76:2018/19)

S.N.	F/Y	Name of Items	Unit	Total Procured	Location	Remarks
1	075/76	Visual Ear Tag Couple (40 mm)	Set	1,58,350	PMU	To be distributed in the district
2	075/76	Tip Tag (for goat & sheep)	Set	53,500	PMU	To be distributed in the district
3	075/76	Ear Tag Applicator (for all species of animals)	Pcs	400	PMU	To be distributed in the district

Annex 2.6: Procurement of AI Equipment (F.Y. 2075/76:2018/19)

S.N.	Name of the Item	Unit	Total Procured	Total distributed				
				BRT	Hetauda	Pokhara	Butwal	Total
1	LN Container (50 Ltr)	Pcs	45	10	10	10	15	45
2	LN Container (30 Ltr)	Pcs	140	35	35	35	35	140
3	AI Referee (2 Ltr)	Pcs	450	115	110	115	110	450
4	AI Gun	Pcs	600	150	150	150	150	600
5	Thawing Kit	Pcs	45	10	10	10	15	45

S.N.	Name of the Item	Unit	Total Procured	Total distributed				
				BRT	Hetauda	Pokhara	Butwal	Total
6	Straw Cutter	Pcs	900	250	200	200	250	900
7	Alpha Sheath	Pkt	4500	1200	1200	1000	1100	4500
8	AI Sheath	Pkt	5000	1500	1200	1300	1000	5000
9	AI Sensitive Gloves	Box	3500	900	900	900	800	3500
10	Super Sensitive AI Gloves	Box	3500	900	900	900	800	3500

Annex 2.7: Distribution List of Double Doors Refrigerator (Number 100)

Equipment	List of Palika Receiving Refrigerators with Freezing Compartment
Double Doors Refrigerators with Freezing Compartments -200 C & 2-80 C (Number 53) and Refrigerators with freezing compartments-47	<p>Bharatpur, Khairani, Madi, Ratnanagar, Rapti, Bhimphedi, Chandragiri, Dashinkali, Budanilkantha, Banepa, Panauti, Namobudha, Dhanushadham, Mithila, Golbazar, Mirchaiya, Kanchanrup, Surunga, Waling, Putalibazar, Byas, Sukla Gandaki, Beni, Kawasoti, Gainakot, Sunwal, Bardhaghat, Ramgram, Lumbini Sanskritik, Tolottama, Sainamaina, Kapilbastu, Shibaraj, Rampur, Madhuban, Rajapur, Thakurbaba, Resunga, Budhasanti, Barhdashi, Kankai, Pathari, Sanischare, Uralbari, Duhabi, Barahachetra, Dhankuta, Surdaya, Deomai, Ilam, Katari, Bhumlu and Phedikhola</p> <p>Budhiganga, Katahari, Kanepokhari, Jahada and Letang of Morang District; Itahari, Bhokrahsring of Sunsari District; Damak, Arjundhara and Kamal of Jhapa District; Triuga, Belka of Udayapur; Pakhariwas, Chathar jorpati of Dhankuta; Falelung of Pachthar; Balan behul, Dakneswari of Saptari; Sakhuwankarkati, kanjarnaha of Siraha; Bateswar, Kamala of Dhanusha; Gaushala, Bhangaha of Mohatari; Bishnupur, Ramnagar of Sarlahi; Yamunamai, Madhab Narayan of Rautahat; Aadarshakotwal, Simraungad of Bara; Jagarnathpur, Pokhariya of Parsa; Fedikhola, Aadhikhola, Gyalang of Syangja; Gaidakot, Binay Triveni, Bulingtar of Nawalpur; Dhangadi, Godawari, Gauriganga, Ghodaghodi, Lamkichuwa, Tikapur of Kailali; Krishnapur, Punarwash, Belauri, Dodhara Chadani of Kanchanpur District.</p>

Annex 2.8: Distribution List of Milk Chilling Vat (500 and 1,000 Lt)

S. No	Name of the selected cooperatives	Address			Capacity
		Province	District	Municipality	
1	Dairy Development Coop	Sudur Pashim	Kailali	Lamki chuha Na. Pa ward no. 1 (Motipur)	1,000 lt
2	Small Farmer Agriculture Coop	Sudur Pashim	Kanchanpur	Bedkot Na. Pa; 7	1,000 lt
3	Sri Shiv Sakti Dairy Coop	Sudur Pashim	Kanchanpur	Punarbans Na. Pa. 8; Prithibi Basti	1,000 lt
4	Small Farmer Agriculture Coop	Sudur Pashim	Kanchanpur	Bedkot Na. Pa; 3 daiji	1,000 lt

S. No	Name of the selected cooperatives	Address			Capacity
		Province	District	Municipality	
5	Srijana Saving and Credit Coop	Sudur Pashim	Kanchanpur	Mahakali Na. Pa. 4	1,000 lt
6	Sri Sanjibini Agriculture & Livestock Coop	Karnali Pradesh	Surkhet	Birendra Nagar Na. Pa. 2; Koldada	1,000 lt
7	Parekhet Agriculture & Livestock Coop	Karnali Pradesh	Surkhet	Gurubhakot Na. Pa. 4; Parkhet	1,000 lt
8	Sri Gaule Multipurpose Coop	Karnali Pradesh	Surkhet	Chinggad Ga. Pa. 3, Thatibagar, Matela	1,000 lt
9	Sri Rato Panda Youth Agriculture Coop	Karnali Pradesh	Jajarkot	Bheri Na. Pa. 6; Sabik Punma	1,000 lt
10	Sri Ujyalo Small Farmer Agriculture Coop	Karnali Pradesh	Dailekh	Bhairabi Ga. Pa. 7 Khambagade	1,000 lt
11	Sri Srijan Agriculture and Livestock Coop	Karnali Pradesh	Dailekh	Chamunda Bindhabashini Na. Pa.2	1,000 lt
12	Chinggad Small Farmer Agriculture Coop	Karnali Pradesh	Surkhet	Chinggad Ga. Pa. 5, Abalching, Bhel Takuri	500 lt
13	Hamro Krishi tatha Pasupalan Coop	Karnali Pradesh	Surkhet	Panchapuri Palika, 6; Babiyachour	500 lt
14	Sana Kisan Krishi Sahakari Sanstha Limited	Karnali Pradesh	Surkhet	Lekbesi Municipality-10	500 lt
15	Sri Janata Dairy Producer Coop	Lumbini Pradesh	Banke	Khajura Ga. Pa.3	1,000 lt
16	Sri Bankatawa Dairy Producer Coop	Lumbini Pradesh	Banke	Baijnath Ga. Pa. 5; Sangam Chouk	1,000 lt
17	Sri Mahadev Puri Dairy Producer Coop	Lumbini Pradesh	Banke	Rapti Sonar Ga. Pa. 9; Dhakeri	1,000 lt
18	Sri Panchamrit Dairy Producer Coop	Lumbini Pradesh	Rupandehi	Tolottama Na. Pa, 6	1,000 lt
19	Nabodit Dairy Producer Coop	Lumbini Pradesh	Rupandehi	Gaidhaba Ga. Pa.,9	1,000 lt
20	Pourakhi Dairy Producer Coop	Lumbini Pradesh	Gulmi	Chatrakot 5	500 lt
21	Sudha Gorash Dairy Producer Coop	Lumbini Pradesh	Banke	Nepalgung Up Ma. Na. Pa. 20; Thapuwa	500 lt
22	Budha Sangam Dudha Utpadak Coop	Lumbini Pradesh	Rupandehi	Sudhodan Ga. Pa. 4; Farsaticket	500 lt
23	Sakaladevi Samajik Uddyami Mahila Coop	Gandaki Pradesh	Nawalparasi	Dev Chuli Na. Pa.3; Ambaschouk	1,000 lt
24	Pach Pandab Dairy Producer Coop	Gandaki Pradesh	Nawalparasi	Madhyabindu Na. Pa. 4; Madanpur	1,000 lt
25	Sri Amrit Agriculture Coop	Gandaki Pradesh	Nabalpur	Madhyabindu Na. Pa. 10; Arunkhola	1,000 lt
26	Hatemalo Agriculture and Livestock Coop	Gandaki Pradesh	Kaski	Machapuchre Ga. Pa. 6	500 lt

S. No	Name of the selected cooperatives	Address			Capacity
		Province	District	Municipality	
27	Modikhola Multipurpose Coop	Gandaki Pradesh	Parbat	Modi Ga.Pa. 2; Patichour	500 lt
28	Namuna Small Farmer Ag. Coop	Gandaki Pradesh	Shyanja	Waling Na. Pa. 8; Waling	1,000 lt
29	Bashkuna Agriculture Coop	Gandaki Pradesh	Myagdi	Beni Na. Pa. 4; Baskuna	500 lt
30	Shuvakamana Ag. Coop	Gandaki Pradesh	Myagdi	Beni Na. Pa; Singa	1,000 lt
31	Sri Naba Namuna Dairy Coop	Gandaki Pradesh	Baglung	Baglung Na. Pa.Amalachour	500 lt
32	Kali Gandaki Agriculture Coop	Gandaki Pradesh	Baglung	Baglung Na. Pa, 12; Baglung	1,000 lt
33	Baglung District Dairy Producer Coop	Gandaki Pradesh	Baglung	Baglung Na. Pa, 2; Baglung	1,000 lt
34	Sri Patheswori Agriculture Coop	Gandaki Pradesh	Parbat	Kushma Na.Pa, 9; Katuwa Choupari	1,000 lt
35	Prativa Samajik Udyami Mahila Coop	Gandaki Pradesh	Kaski	Machapuchre Ga. Pa. 4; Lahachouk	1,000 lt
36	Jan Bikash Sahakari Sanstha Limited	Gandaki Pradesh	Lamjung	Rinash Municipality-5	500 lt
37	Sadabahr Krishi Tatha Dugdh Utpadak Sahakari Sanstha Limited	Gandaki Pradesh	Baglung	Jaymani Municipality-5	1000 lt
38	Sro Jeevan Sudhar Agriculture Coop	Bagmati Pradesh	Kavre Palanchouk	Khani Khola Ga. Pa. 5; Taldhunga	1,000 lt
39	Bhatere Dairy Producer Coop	Bagmati Pradesh	Kavre Palanchouk	Mandan Deupur Na. Pa. 12; Jyamdi	1,000 lt
40	Narke Dairy Producer Coop	Bagmati Pradesh	Kavre Palanchouk	Roshi Ga. Pa.8; Narke Bazar	1,000 lt
41	Sri Debata Bagmati Multipurpose Coop	Bagmati Pradesh	Lalitpur	Bagmati Ga. Pa. 7; Gimdi	1,000 lt
42	Dalchoki Prangarik Agriculture Coop	Bagmati Pradesh	Lalitpur	Konjyosom Ga. Pa. 3;	1,000 lt
43	Dhaibung Kalika Small Farmer Agriculture Coop	Bagmati Pradesh	Rasuwa	Kalika 2, Rasuwa	1,000 lt
44	Om Sibalaya Agriculture Coop	Bagmati Pradesh	Chitwan	Bharatpur Ma. Na. Pa. 21; Parbatipur	1,000 lt
45	Sri Tribeni Dairy Producer coop	Bagmati Pradesh	Chitwan	Bharatpur Ma. Na. Pa. 6; Parash Nagar	1,000 lt
46	Chahari Dairy Producer Coop	Bagmati Pradesh	Chitwan	Bharatpur 5; Narayanpur	1,000 lt
47	Kosheli Dairy Producer Coop	Bagmati Pradesh	Lalitpur	Konjyosom Ga. Pa. 1;	500 lt
48	Bhume Thumka Dairy Producer Coop	Bagmati Pradesh	Lalitpur	Konjyosom Ga. Pa. 2;	500 lt

S. No	Name of the selected cooperatives	Address			Capacity
		Province	District	Municipality	
49	Shree Debata Bagmati Multipurpose Coop Ltd	Bagmati Pradesh	Lalitpur	Bagmati Rural Municipality	500 It
50	Sindhu Krishi Sudhar Bahuuddessiya Sahakari Sanstha Limited	Bagmati Pradesh	Sindhu Palchouk	Melamchi Municipality-1	1000 It
51	Sri Bagahi Agriculture Coop	Madesh Pradesh	Rautahat	Katahariya Na. Pa. 7	1,000 It
52	Sri Jana Chetana Agriculture Coop	Madesh Pradesh	Rautahat	Moulapur Na. Pa. 4; Pataura	1,000 It
53	Sri Kalyankari Agriculture Coop	Madesh Pradesh	Bara	Devtal Ga. Pa. 4; Pipradhi	1,000 It
54	Nitika Krishi Sahakari Sanstha Limited	Madesh Pradesh	Sarlahi	Chakraghnata Rural municipality-2	1,000 It
55	New Udaya Samajik Udyami Mahila Ag. Coop	Madesh Pradesh	Sarlahi	Lalbandi Na. Pa 16; Parwanipur	1,000 It
56	Sri Mahila Small Farmer Ag. Coop	Madesh Pradesh	Sarlahi	Lalbandi Na. Pa 16; Parwanipur	1,000 It
57	Aadi Dugdh Utpadak Sahakari Sanstha Limited	Madesh Pradesh	Parsa	Kalika Mai Rural Municipality, Mudali	500 It
58	Hardinath Krishi Sahakari sanstha Limited	Madesh Pradesh	Sarlahi	Haripurwa-7	500 It
59	Madhuprakash Dairy Producer Coop	Koshi Pradesh	Sunsari	Baraha Chhetra Na. Pa; 11, Madhuban	1,000 It
60	Pragatishil Dairy Producer Coop	Koshi Pradesh	Sunsari	Baraha Chhetra Na. Pa; 7	1,000 It
61	Sri Chinari Agriculture Coop	Koshi Pradesh	Morang	Pathari Sanischare Na. Pa. 2; Tribhuj Chouk	1,000 It
62	Letang Dairy Producer Coop	Koshi Pradesh	Morang	Letang Na. Pa. 3	1,000 It
63	Sahara Agriculture Coop	Koshi Pradesh	Udayapur	Triyuga Na. Pa. 13; Bahedawa	1,000 It
64	Laganshil Agriculture Coop	Koshi Pradesh	Jhapa	Kamal Ga. Pa. 5; Padajungi	500 It
65	Sri Jana Kalyan Dairy Producer Coop	Koshi Pradesh	Udayapur	Triyuga Na. Pa. 9; Rajabas	500 It
66	Salle Dairy Producer Coop	Koshi Pradesh	Dhankuta	Chathar Jorpati Ga. Pa 2; Salle	1,000 It
67	Chandra Surya Dairy Producer Coop	Koshi Pradesh	Dhankuta	Chathar Jorpati Ga. Pa 1; Hatti Khark	500 It

Annex 2.9: Distribution List of Silage Making Machine

SN	Recipient	Fiscal Year	District	Address	Qty
A	DLSU Biratnagar			Total	7
1	VHLSC	2020/21	Ilam	Ilam M	1
2	VHLSC	2020/21	Jhapa	Bhadrapur M	1
3	VHLSC	2020/21	Morang	Biratnagar MC	1
4	VHLSC	2020/21	Pachathar	Phidim M	1
5	VHLSC	2020/21	Sunsari	Inaruwa M	1
6	VHLSC	2020/21	Udaypur	Triyuga M	1
7	VHLSC	2020/21	Dhankuta	Dhankuta M	1
B	DLSU Hetauda			Total	7
1	Dumarbana Dugdha Utpadak Sahakari Sanstha Ltd.	2020/21	Bara	Jitpur, Dumarbana-15	1
2	Mahila Sanakishan Krishi Sahakari Sanstha Ltd.	2020/21	Sarlahi	Parwanipur-16	1
3	Hajariya Dugdha Utpadak Sahakari Sanstha Ltd.	2020/21	Sarlahi	Hajariya-1	1
4	Bagdev Dugdha Utpadak Sahakari Sanstha	2020/21	Bara	Nijgadh-6	1
5	Annapurna Dugdha Utpadak Sahakari Sanstha Ltd.	2020/21	Parsa	Parsa Gadhi-3	1
6	Jaya Kalika Mahila Dugdha Utpadak Sahakari Sanstha	2020/21	Bara	Kolhawi-2	1
7	Hatpate Krishi Sahakari Sanstha Ltd.	2020/21	Sindhuli	Dudhauri-9	1
C	DLSU Butwal			Total	15
1	Dumre dugdha utpadan sahakari sanstha	2019/20	Palpa	Tinau Rural M	1
2	Chandrodaya bahu uddheshiya sahakari sanstha	2019/20	Nawalpara si West	Bardaghat M	1
3	Adishakti dugdha utpadan sahakari sanstha ltd.	2019/20	Bardiya	Gulariya M	1
4	Argkhanchi dugdha utpadan sahakari sanstha	2019/20	Argkhanchi	Sandhikharka M	1
5	Satyawati Dugdha Sahakari sanstha ltd.	2019/20	Gulmi	Satyawoti RM	1
6	Kshyakathan Bahu Udesiya Krishak Samuha	2020/21	Argkhanchi	Bhumikasthan M-4	1

SN	Recipient	Fiscal Year	District	Address	Qty
7	Bhagawati dugdha sahakari sanstha	2020/21	Bardiya	Badhaiyatal RM	1
8	Amarpur Krishi Tatha Pashu Bikas Sahakari Sanstha Ltd.	2020/21	Gulmi	Isma RM	1
9	Mani Bahu Udesiya Krishi Sahakari Sanstha Ltd.	2020/21	Palpa	Mathagadhi RM -2	1
10	Khanchikot Pashu Bikas Sahakari Sanstha Ltd.	2020/21	Arghakhan chi	Sandhikharka M-7	1
11	Harnampur Krishi Sahakari Sanstha Ltd.	2020/21	Kapilbastu	Mayadevi RM	1
12	Samawshi Krishi Sahakari sanstha ltd.	2020/21	Kapilbastu	Banganga M	1
13	Sainamaina Krishi Udhyog	2020/21	Rupandehi	Sainamaina M	1
14	Manchamrit Dugdha Utpadan Sahakari Sanstha Ltd.	2020/21	Rupandehi	Tilottama M	1
15	Bhumai Dugdha Utpadan Sahakari Sanstha Ltd.	2020/21	Nawalpara si West	Sunawal M	1

D	PMU Kathmandu	Total	4		
1	Parishramik Samajik Udhyam mahila Coop	2019/20	Morang	Belbari	1
2	Kaahu Deurali MP Coop, Lekhnath M, Kaski 1920	2019/20	Kaski	Lekhnath M	1
3	Banganga Dudh Utpadan Coop	2019/20	Kapilbastu	Banganga M	1
4	Ganganagar Dugdha Utpadan Coop	2019/20	Chitwan	Bhratpur M	1
				Grand Total	33

Annex 2.10: Distribution List of USG (2022/23)

S. No	Name of the Institutions	Units	Status
1.	Nepal Army equine breeding centre, Chitawan	1	Operational
2	Nepal Police Canine Office, Maharajgunj, Kathmandu	1	Operational
3	Institute of Agriculture and Animal Science, Paklihwaba, Bhairahawa	1	Operational

4.	Veterinary teaching Hospital, AFU, Chitwan	1	Operational
5	VH & LEC, Tanahu	1	Operational
6	VH & LEC, Bara	1	Operational
7	VH & LEC, Pachthar	1	Operational
8	VH & LEC, Dolakha	1	Operational
9	VH & LEC, Nuwakot	1	Operational
10	VH & LEC, Dhading	1	Operational
11	VH & LEC, Lamjung	1	Operational
12	VH & LEC, Dang	1	Operational
13	VH & LEC, Palpa	1	Operational
14	VH & LEC, Gulmi	1	Operational
15	PMU	1	Operational

**Annex 2.11: List of participants participated in the Veterinary Drug Orientation Training
(Registered in DDA)**

S.No	Name of the Participats	Name of the Vet. Med. Shop	Location of the Shop
1	Upasana Manandhar	Manandhar Agro. Vet.	KaMaNaPa 11, Ktm
2	Mukunda Bdr. Chhetri	Synergy Vet. Trade	KaMaNaPa 16, Balaju
3	Chitra Bdr. Pun	Tilicho Trd. Pvt. Ltd (Vet. Div.)	KaMaNaPa 17, Ktm
4	Pradeep Lama Bhojyan	Namo Budha Vet. Concern	HeUMaNaPa 10, Makwanpur
5	Hari Bdr. Bhujel	Pancha Kanya Vet. Distributers	LaMaNaPa 15, Lalitpur
6	Anju Gaiju	Manandhar Vet Shop	Banepa 10, Kavre
7	Bhintuna Gangol	Adarsha Vet. Med. Pharma	Mathyapurthimi NaPa 4,
8	Karnabahadur Gurung	B.S.W Pvt. Ltd	BhaMaNaPa 4, Chitwan
9	Bel Bdr. Mahat	Mahat Vet. Center	Sangachouk 7, Sindhupalchouk
10	Anita Kumari Bhandari	Sudhar Vet Pharma	BhaMaNaPa 12, Chitwan
11	Sushil Adhikari	Adhikari Vet Pharma	Chandragiri NaPa 1, Ktm
12	Ramesh Aryal	Bastipur Vet. Pharma	HeuMaNaPa 29, Makawanpur
13	Krishna Kaji Pradhan	Jhamkeswor Vet. Pharma	Thaha Na Pa 1, Makawanpur
14	Ram Babu Adhikari	Prabesh Vet Pharma	Dudhouli 8, Sindhuli
15	Surya Ghale	Cannine Vet Pharma	LaNaPa 5, Lalitpur
16	Krishna Bdr.Adhikari	Safe Vet. Care Pvt. Ltd	KaMaNaPa 14, Kathmandu
17	NabaRaj Dhakal	Nabina Vet Shop	Belkotgadi 4, Nuwakot
18	Ramesh Khadga	Chandragiri Vet. Pharma	Chandragiri NaPa, Ktm
19	Thakur Dhakal	Sewamulak Vet Pharma	BhaMaNaPa 19, Chitwan
20	Damodar Koirala	Madhuban Vet Pharma	Pachkhal 4, Kavre
21	Milan Bhattarai	Milan Vet Shop	Madhyapur 3, Bhaktapur
22	Jeevan Bhujel	Bhatauli Vet Center	Manthali NaPa7, Sindhuli
23	Rabi Pyakuryal	Sagarmatha Vet Distributor	Gokarneswor 8, Ktm

**Annex 2.12: List of participants participated in the Veterinary Drug Orientation Training
(Not Registered in DDA)**

S.No	Name of the Participants	Address	District
1	Kabi Prasad Dulal	Gajuri GaPa 6	Dhading
2	Anup Dulal	Surya Binayak NaPa 10	Bhaktapur
3	Dev Raj Sijali	Ghyanglek GaPa 5	Sindhuli
4	Sabina Tamang	Myagad GaPa 3	Nuwakot
5	Pradeep Kumar Pokarel	Rapti NaPa 9	Chitwan
6	Fenchu Lama	Padampokhari 1	Makawanpur
7	Bhim Prasad Neupane	Namo Budha Na Pa 6	Kavre

Annex 2.13: Distribution List of Haematology Analyzer (2022/23)

S. No	Name of the Institutions	Units	Status
1.	Nepal Police Canine Office, Maharajgunj, Kathmandu	1	Operational
2	Institute of Agriculture and Animal Science, Paklihawa, Bhairahawa	1	Operational
3	Central Referral Veterinary Hospital, Tripureswar, Kathmandu	1	Operational
4.	VH & LEC, Bardaghat, Susta East	1	Operational
5	VH & LEC, Bara	1	Operational
6	VH & LEC, Morang	1	Operational
7	VH & LEC, Jhapa	1	Operational
8	VH & LEC, Pachthar	1	Operational
9	VH & LEC, Sunsari	1	Operational
10	VH & LEC, Udayapur	1	Operational
11	VH & LEC, Chitwan	1	Operational
12	VH & LEC, Makawanpur	1	Operational
13	VH & LEC, Kavre	1	Operational
14	VH & LEC, Rupandehi	1	Operational
15	VH & LEC, Bardiya	1	Operational
16	VH & LEC, Dhanusha	1	Operational

Annex 2.14: List of Equipment Distributed by DLSUs as of 2022/23

S.No	Type of Goods procured	Unit	DLSU				Total
			Biratnagar	Hetauda	Pokhara	Butwal	
1	DSLR Camera	Number	1	1	1	2	5
2	Refrigerators	Number	2	22	4	1	29
3	Multi Media Projector	Number	2	2	3	3	10
4	LCD Monitor (TV)	Number	0	0	1	1	2
5	Lap top computer	Number	3	4	7	1	15
6	Television	Number	2	1	0	1	4
7	Intercom Phone	Number	1	1	4	0	6
8	UPS	Number	0	5	1	6	12
9	Vacuum Cleaner	Number	2	2	1	2	7
10	Printers	Number	7	31	8	8	54
11	Desktop Computer	Number	1	32	7	4	44
12	Scanner	Number	0	0	0	1	1
13	Air conditioner	Number	5	4	3	10	22
14	GPS	Number	0	0	2	1	3
15	Bicycle	Number	0	2	2	0	4
16	Photocopy Machine	Number	0	0	1	0	1
17	Digital Display Board	Number	0	0	2	0	2
18	Forage Chaff Cutter	Number	0	36	0	7	43

S.No	Type of Goods procured	Unit	DLSU				Total
			Biratnagar	Hetauda	Pokhara	Butwal	
19	Silage Making Machine	Number	7	7	0	15	29
20	UV Euro guard and water dispencer in Hetauda	Number	2	1	1	1	5
21	Generator	Number	1	0	0	1	2
22	40-DC Medical freezer	Number	1	0	0	0	1
23	Animal lifter	Number	10	0	0	0	10
24	Hoof managemnet set with instruments	Number	10	0	0	0	10
25	Grinder-Flour mill	Number	0	0	0	2	2
26	Deep Freezer	Number	0	0	0	7	7
27	Chaff cutter and grinder	Number	0	0	0	2	2
28	Milk analyzer	Number	0	0	0	5	5

Annex 2.15: Details of BFI Participation in NLSIP Sub Projects

SN	BFI Category and Name	Sum of BFI Loan (NRs)	No of SPs financed by Individual BFIs by Category
A	Category A Total	1,009,550,226	285
1	Agriculture Development Bank Ltd.	209,370,388	74
2	Bank of Kathmandu Ltd.	24,351,386	6
3	Century Commercial Bank Ltd.	10,100,000	3
4	Citizens Bank International Ltd.	66,669,028	11
5	Civil Bank Ltd.	31,689,955	7
6	Everest Bank Ltd.	20,608,141	7
7	Global IME Bank Ltd.	66,410,100	20
8	Kumari Bank Ltd.	58,244,859	13
9	Laxmi Bank Ltd.	32,476,512	8
10	Machhapuchhare Bank Ltd.	16,100,001	3
11	Mega Bank Ltd.	101,859,200	24
12	Nabil Bank Ltd.	10,565,315	3
13	Nepal Bangladesh Bank Ltd.	13,102,627	4
14	Nepal Bank Ltd.	16,635,140	4
15	Nepal Credit and commerce Bank Ltd.	56,601,034	12
16	Nepal Investment Bank Ltd.	20,605,592	6
17	Nepal SBI Bank Ltd.	16,575,120	3
18	NIC Asia Bank Ltd.	14,587,357	5
19	NMB Bank Ltd.	35,836,955	11
20	Prabhu Bank Ltd.	35,917,164	9
21	Prime Commercial Bank Ltd.	24,377,201	10
22	Rastriya Banijya Bank Ltd.	46,709,086	21
23	Sanima Bank Ltd.	18,857,573	5
24	Siddhartha Bank Ltd.	26,588,954	6
25	Sunrise Bank Ltd.	34,711,538	10
B	Category B Total	275,869,329	85
26	Garima Bikas Bank Ltd.	29,574,976	15
27	Gramin Bikash Bank Ltd.	5,664,450	1
28	Green Development Bank Ltd.	26,055,461	4
29	Jyoti Bikash Bank Ltd.	13,565,000	2
30	Kamana Sewa Bikash Bank Ltd.	16,595,566	4
31	Lumbini Bikash Bank Ltd.	21,355,000	4
32	Mahalaxmi Bikas Bank Ltd.	24,977,664	6
33	Miteri Development Bank	2,500,000	1
34	Muktinath Bikas Bank Ltd.	49,914,132	21
35	Sangrila Development Bank Limited	3,000,000	1
36	Sangrila Development Bank Ltd.	4,304,092	2
37	Saptakoshi Development Bank Ltd.	17,103,400	6
38	Shine Resunga Development Bank Ltd.	61,259,587	18
C	Category C Total	29,109,428	6

39	Gorkha Finance	16,421,678	1
40	Guheshwori Merchant Banking & Finance Ltd.	4,374,750	2
41	Janaki Finance Company Ltd.	1,441,000	1
42	Manjushree Finance Institutional Ltd.	1,272,000	1
43	Progressive Finance Ltd.	5,600,000	1
D	Category D Total	135,986,037	27
44	Gramin Bikas Laghu Bitta Bittiya Sanstha Ltd	20,100,000	4
45	Infinity Laghu Bitta Bittiya Sanstha Ltd.	1,200,000	1
46	Mahuli Laghu Bitta Bittiya Sanstha Ltd.	10,183,054	3
47	Nirdhan Laghu Bitta Bittiya Sanstha Ltd.	7,000,000	1
48	RMDC Lagubitta Bittiye Sasntha Ltd.	4,300,000	1
49	Sana Kisan Bikas Laghubitta Bittiya Sanstha Ltd.	93,202,983	17
O	Category O Total	194,069,335	45
50	National Cooperative Bank Ltd.	194,069,335	45
	Grand Total	1,644,594,355	448

Annex 2.16: Approved Training Activities for FY 2023/24

S. No	Slot	Training Activities	Originally Approved		Revised		Remarks
			Target	Budget (Rs)	Target	Budget (Rs.)	
1	PMU	Workshop on the implementation of Animal Health and Livestock Breeding Policy	2	600,000.0	2	600,000.0	No change
2	PMU	Interaction for drafting Animal Disease Control and Animal Welfare Act	4	1,600,000.0	4	1,600,000.0	No change
3	PMU	Haematology and Bio-chemical Analyser operation Training	1	540,000.0	1	540,000.0	No change
4	PMU	USG and X-ray operation training	2	1,190,000.0	2	800,000.0	Budget Scaled down
5	PMU	Sample collection for Lab testing	1	400,000.0	0	0	Dropped
6	PMU	Preparation of Mineral Mixture	1	184,000.0	1	200,000.0	Slightly budget raised
7	PMU	Forage Seed Processing Training	1	700,000.0	1	700,000.0	No change
8	PMU	Awareness against Zoonotic Disease	4	600,000.0	4	600,000.0	No change
9	PMU	Interaction with stakeholders on solving problems on MG SPs	12	900,000.0	6	600,000.0	Scaled down
10	PMU	Orientation to BFIs	2	700,000.0	1	300,000.0	Scaled Down

S. No	Slot	Training Activities	Originally Approved		Revised		Remarks
			Target	Budget (Rs)	Target	Budget (Rs.)	
11	PMU	Workshop to disseminate project's learnings on good practices, CST, PA model, VC round table	2	1,000,000.0	0	-	Dropped
12	PMU	Validation on project prepared SOPs, Studies etc	3	900,000.0	2	600,000.0	Scaled down
13	PMU	Workshop to regularise irregularity and good governance	4	1,200,000.0	1	300,000.0	Scaled down
14	PMU	Workshop on project closure	1	1,000,000.0	1	600,000.0	Scaled down
15	PMU	Training to processors, traders, sellers on food safety and requirement of food license	4	1,000,000.0	0	0	Dropped
16	PMU	Capacity building training to DFTQC staff	2	1,260,000.0	0	0	Dropped
17	PMU	Food safety and Hygiene training to stakeholders on meat and dairy value chain	2	1,200,000.0	0	0	Dropped
18	PMU	Consumer Awareness on Food safety and hygiene	3	1,500,000.0	0	0	Dropped
		Sub Total	51	16,474,000.0	26	7,440,000.0	
1	Moranga	Forage production and conservation training	2	900,000.0	2	600,000	Scaled down
2	Moranga	Entrepreneurship development training to Grantees	3	3,105,000.0	3	1,350,000	Scaled down
3	Moranga	Dairy Diversification training (7 days)	2	576,000.0	1	250,000	Scaled down
4	Moranga	Awareness on food safety (Milk and meat VC)	3	750,000.0	0	0	Dropped
5	Moranga	Technical Training to GRs	8	2,400,000.0	6	1,500,000	Scaled down
		Sub Total	18	7,731,000.00	12	3,700,000.00	
1	Hetauda	Dairy Diversification training (7 days)	1	350,000.0	0	0	Dropped
2	Hetauda	Progress review of the LSMs	6	450,000.0	0	0	Dropped
3	Hetauda	Compliance on Social and Environment Measures	1	300,000.0	0	0	Dropped
4	Hetauda	Technical Training to GRs	0	0	2	500,000	Added
5	Hetauda	Handover ceremony of SPs	4	600,000.0	0	0	Dropped
6	Hetauda	Progress Review within DLSUs	0	0	1	300,000	Added
		Sub Total	12	1,700,000.00	3	800,000.00	
1	Pokhara	Dairy Diversification training (7 days)	1	450,000.00	1	200,000	Scaled down

S. No	Slot	Training Activities	Originally Approved		Revised		Remarks
			Target	Budget (Rs)	Target	Budget (Rs.)	
2	Pokhara	Machinery Repair Training	1	405,000.0	0	0	Dropped
3	Pokhara	GMP Training to SPs	1	600,000.0	1	300,000	Scaled down
4	Pokhara	Progress Review & planning workshop	2	300,000.0	1	300,000	Scaled down
5	Pokhara	Technical Training to GRs	0	0	3	750,000	Added
6	Pokhara	Progress Review of the SPs	3	1,200,000.0	2	400,000	Scaled down
		Sub Total	8.0	2,955,000.0	8.0	1,950,000.0	
1	Butwal	Dairy Diversification training (7 days)	1	1,400,000.0	1	600,000	Scaled down
2	Butwal	Hygienic Meat Production Training	7	1,470,000.0	0	0	Dropped
3	Butwal	Training on Control of Zoonotic Disease	2	600,000.0	2	600,000.0	No change
4	Butwal	Technical Training to GRs	0	0	2	500,000	Added
5	Butwal	Celebratio of World Animal, Veterinary and Rabies Day	4	400,000.0	0	0	Dropped
6	Butwal	Stakeholder consultative workshop on One Health Approach	3	750,000.0	0	0	Dropped
7	Butwal	Progress Review	0	0	1	300,000	Added
8	Butwal	Progress Review of the SPs	2	800,000.0	2	600,000	Scaled down
		Sub Total	19.0	5,420,000.0	8.0	2,600,000.0	
1	NLBO	AI training to Officers (1 week)	1	600,000.0	1	300,000	Scaled down
2	NLBO	Reproductive Disorder Training	1	500,000.0	1	250,000	Scaled down
3	NLBO	Fress AI Training (2 Weeks)	2	720,000.0	2	720,000.0	No change
4	NLBO	Interaction with Recorder, Supervisor and Inseminator for PPRS	3	1,200,000.0	2	600,000	Scaled down
		Sub Total	7.0	3,020,000.0	6.0	1,870,000.0	
		All Total	115	37,300,000	63	18,360,000	
		Budget Cancelled				18,940,000	
		Percent of the training slot and budget cancelled			55	51	

Annex 2.17: Vaccination Plan for FY 2023/24

1. Context:

The outbreak of Lumpy Skin Disease (LSD) in cattle and buffaloes has been escalating over the past three years, with a particularly rapid increase observed in the last five months. This devastating disease has now spread to all 77 districts in Nepal, resulting in significant productivity losses and mortality rates among livestock, and posing a severe threat to the country's agricultural sector.

Lumpy Skin Disease is a highly contagious viral disease that affects cattle and buffaloes, leading to painful skin lesions, reduced milk production, and even death. The outbreak has already a profound impact on the rural communities that heavily rely on these animals for their livelihoods, as well as the overall agricultural and economic stability of Nepal.

More than 1.1 million animals have already been affected by Lumpy Skin Disease, resulting in over 48,800 deaths (DLS July 30, 2023). Economic losses have surpassed US\$ 300 million, jeopardizing the already fragile recovery from previous challenges such as the 2015 earthquake and the COVID-19 pandemic. If the disease continues to spread at its current rate, an estimated 2.5 million heads of cattle and buffaloes could be affected, leading to the death of around 100,000 animals and a staggering loss exceeding US\$ 1,000 million (Shrestha, M.N; Kantipur Daily, Aug 01, 2023).

The issues have been raised several times in parliament and has been hitting the headlines in major national news media. It was also discussed at length in the 17th PSC meeting chaired by Secretary, MoALD held on August 03, 2023 and agreed to request to WB for immediate support to effectively control and mitigate the further spread of the disease with vaccination using homologous Neethling strain LSD vaccine as recommended by the World Animal Health Organization.

Similarly, the FMD is a target disease of NLSIP. Every year there is an outbreak which is effectively controlled by vaccination. In a study carried out by NLSIP during 2018-19 after analyzing 10 years' data from 2008/09 to 2018, revealed that the total losses due to impact of FMD has been estimated as NRs 6.44 billion (US\$ 53.94 million) every year. These losses do not account for the loss in meat production (body weight loss among meat-animals), draft power, loss due to market rejection and other indirect losses. If they were to add then losses will be many fold more. The project is assisting to prepare the Risk Based Strategic Plan following the progressive control pathway, which is to aim at reducing the outbreak, from the endemic areas and controlling and preventing the disease with vaccination by 2025.

In this context the meeting held at MoALD in presence of Ministers and Secretaries of federal and respective provincial ministries have decided to share the cost and responsibilities of mass vaccination of FMD and LSD in a way that the responsibility for the supply and delivery of the vaccine be with MoALD and arrangement of required logistics and vaccination cost be with provincial ministry in coordination with respective local governments.

The current FY 2023/24 AWPB has been amended with a provision of procuring 3 million doses of FMD vaccine and 1 million doses of LSD vaccine. The project has already received no objection from WB through STEP to procure these vaccines. Accordingly, the project has published the notice for ICB on Nov 12, 2023 for the supply and delivery of vaccines as per the specification provided. The first lot of vaccine is expected to arrive on May 15, 2024 for FMD and March/April 2024 for LSD. They will be supplied in different lots.

2. Objective

The overall objectives of the vaccination are the following;

- To contain the disease outbreak and prevent further spread with mass vaccination
- To reduce livestock mortality rates and improve animal health.
- To minimize economic losses and protection of rural livelihoods
- To strengthen VH &LSEC and Livestock Section of the Palikas capabilities for future disease preparedness and control
- Use project supplied cold storage facilities in storing and the delivery of the vaccine on site.

3. Procurement of FMD and LSD Vaccine

The procurement process is adopted following the WB procurement guidelines;

Prepared specification of the both vaccine from DLS led Committee
 Prepare cost estimate with extensive market research
 Seek approval from WB in STEP
 Procure vaccine with competitive ICB bidding.

4. Vaccine Distribution Plan

The DLS has prepared the vaccine distribution plan for different districts and provinces as follows and shared with the project for necessary vaccine procurement and delivery especially for FMD and LSD. DLS also requested MoALD to communicate with the provincial governments for their preparedness for effective coordination and vaccination once they arrive.

Pradesh	No. of Districts	Vaccine Distribution Plan (in doses)		
		PPR	FMD	LSD
Koshi	14	1,663,000	1,295,000	280,700
Madesh Pradesh	8	792,000	840,000	83,100
Bagmati	13	1,594,000	612,000	128,000
Gandaki	11	1,000,000	445,000	54,200
Lumbani	12	1,331,000	932,000	113,400
Karnali	10	802,000	219,000	143,400
Sudur Pashim	9	818,000	834,000	192,800
All Total	77	8,000,000	5,177,000	995,600

DLS also decided to store some of the vaccines in the vaccine bank as follows for emergency use to control the epidemic.

S. No	Vaccine Bank	PPR vaccine (Dose)	FMD Vaccine (Dose)	LSD Vaccine (Doses)
1	Biratnagar	100,000	100,000	10,000
2	Janakpur	100,000	100,000	10,000
3	Pokhara	100,000	100,000	10,000
4	Surkhet	100,000	100,000	10,000
5	Dhangadi	100,000	100,000	10,000
6	NVPL Kathmandu		223,000	54,400
	All Total	500,000	723,000	104,400

5. Arrangement of Logistics for vaccination

In the last FY 2022/23 the project procured the following logistics they were; (1) syringe-1.2 million pieces, (2) needle-6 million pieces, (3) cotton-60,000 role, (4) spirit- 60,000 bottle, (5) color sprayer- 20,000 pieces, (6) automatic vaccinator- 500 pieces and (7) vaccination card-641,300 pieces for the vaccination of FMD. They were delivered to the DLS. Some of these logistics were used for FMD vaccination last year and some of them are still with DLS. They can be used for the present mass vaccination. It is agreed in the ministerial meeting held at MoALD that the provincial government in coordination with their respective local counterpart will make sufficient arrangement for the supply of required logistics if not sufficient supplied from the center.

6. Vaccine storage and delivery

Upon arrival, the procured vaccines will be stored in the project developed cold chain facilities. The project has developed 7 walk in cold room at 7 different locations and 14 other smaller size cold rooms in VH&LSEC. In addition, the project has also distributed more than 100 double doors refrigerators at Palika level and 20 common refrigerators at Quarantine check posts. Numerous 2,332 cool boxes with 50 hrs holding time were also distributed. These all facilities can be effectively utilized for storage and transportation of the vaccine on the vaccination site without losing efficacy. The viral vaccine requires to maintain cold chain all the time.

7. Vaccination and Reporting

Required number of vaccinators (usually Village Animal Health Workers, VAHWs are hired) will be hired by the Veterinary Hospitals and Livestock Service Expert Center based at districts in collaboration with respective palika. These VAHWs are already trained technicians. VHLSEC will plan for each palika in consultation with respective palika prepare and approve the number of animals to be vaccinated, logistics requirement and necessary budget. Mass vaccination against FMD and LSD will be carried out following RBSP in case of FMD and DLS prepared protocols for LSD at palika level in the direct supervision and support from VH&LSEC. The palika will report the progress of vaccination in a given template to VH&LSEC and through VH&LSEC to respective veterinary laboratories and DLS. DLS will finally prepare the report and provide to PMU for the record and documentation.

8. Sero-monitoring of the vaccination

To measure the effectiveness of the vaccination, serum will be collected in the randomly selected vaccinated animals and test for the presence of antibody titer in the FMD and TADs laboratory under DLS after one month of vaccination. The project will support in sero monitoring in the current FY if required. Otherwise, DLS will build the budget in its AWPB for sero-monitoring and continued vaccination program from next FY onwards.

9. Expected Outcome

The expected outcome will be the following

Rapid containment of the disease outbreak and prevention of further spread.

Reduction in livestock mortality rates and improved animal health.

Minimized economic losses and protection of rural livelihoods.

Strengthened VH &LSEC and Livestock Section of the Palikas capabilities for future disease preparedness.

Project developed cold chain facilities and other innovations will be effectively utilized.

10. Beneficiaries

The exact list of the beneficiaries as per the vaccine distribution list of the DLS (Annex 1) will be known after the vaccination. However, the tentative beneficiaries will be the following;

Total Population of Nepal (2021 census): 29,164,578

Of total population 50.3 % are in agriculture: 14,669,782

Of total population in agriculture 70 % raise Livestock: 10,268,847

Average member in HHs (2021 census): 4.32

Total HHs in Livestock: 2,377,048

Total cattle and Buffaloes population (7,413,197 and 5,132,931): 12,546,128

Average cattle/buffaloes and goat holdings per HHs: 5.27 and 5.88 respectively

Total HHs coverage by vaccination with LSD after adjusting the losses is 180,000

11. Conclusion

The Bank has always been supporting NLSIP in times of need. This proposal to address this pressing issue can significantly contribute to mitigating the impact of Lumpy Skin Disease and FMD on Nepal's rural economy. This support is also crucial in safeguarding the well-being of Nepal's rural communities and ensuring the stability of its agricultural sector.

The urgency of this situation necessitates swift action. Hence, a quick response as always from the Bank will be greatly appreciated. The project will follow the World Bank guidance, should there be any, to implement this plan effectively.

Annex 2.18: Suurvey plan to track the end result of the project 2023/24

1. Context

The Government of Nepal, Ministry of Agriculture and Livestock Development MoALD has been implementing Nepal Livestock Sector Innovation Project since the FY 2017/18. The project development objectives are to increase productivity, enhance value addition, and improve climate resilience of smallholder farms and agro-enterprises in selected livestock value chains in Nepal.

The project comprises four components: A. Strengthening Critical Regulatory and Institutional Capacity, B. Promoting Sector Innovation and Modernizing Service Delivery, C. Promoting Smallholder Inclusive Value Chains for Selected Livestock Commodities, and D. Project Management and Knowledge Generation

It involves investments in productive assets, livestock services, market infrastructure, capacity building, institutional and regulatory strengthening, etc. The Project Management Unit (PMU) under the Ministry of Agriculture and Livestock Development, along with four decentralized-level support units (DLSUs) and the National Livestock Breeding Office (NLBO) in Kaski, have been established to support the project.

The project operates in 28 districts across five states (State No. 1 through 5) of the country, benefiting 200,000 livestock producers. This includes 75,000 beneficiaries adopting climate-smart livestock practices, and 448 small and medium-sized agro-enterprises receiving production and post-production value chain support.

The project had carried out base line survey in 2020, 1st annual households survey in 2021, 2nd annual household survey in 2022 and endline survey in 2023 to track the project progress and results and reported in the RF accordingly.

Due to unforeseen delays, including the global impact of COVID-19 and Supreme Court stay order to halt the installment payment to call 3 grantees, the project's original closing date of June 30, 2023, was extended to June 30, 2024 with two times restructuring. The mid-term review was carried out in July 2021. The extension, confirmed on June 27, 2023, poses challenges for conducting a survey to capture end of project results and achievement within the extended period, given the completion of the 2023 endline survey and constraints in budget allocation and monitoring and evaluation resources.

There are four PDO indicators and eight intermediate result indicators (IRI) in the RF to be reported. Of four PDO indicators, the result of two indicators (Productivity and Sales) need to be tracked from survey and other two (farmers adopting climate smart livestock practices and farmers reached with agriculture assets and services) can be tracked from project progress report and PMIS. Similarly, of eight intermediate result indicators, two IRIs (Beneficiaries Satisfaction and Livestock Risk Insurance) need to be tracked from survey other six IRIs can be tracked from project progress report and PMIS.

Against this backdrop, the project seeks the technical assistance from the WB to carry out this important piece of work. The objective includes;

2. Objective

Assist project to design brief survey to track end of project results on two PDO indicators on; (1) productivity of targeted livestock commodities such as milk (both cow and buffalo) and goat meat, and (2) sales of value added products in targeted value chain additionally, track two IRIs (1) Beneficiaries Satisfaction rate with relevance, timeliness and effectiveness and (2) Share of project beneficiaries with a livestock risk insurance policy (of which female)

Determine the representative sample size, prepare survey tools, analyze and interpret the survey results. Guide PMU and DLSUs in data collection and data quality checking. Prepare a brief and concise survey report.

3. Questionnaire tool

The questionnaire for the survey will be a simplified version of the endline survey that is shortened to capture the information needed to measure on the two PDO indicators and two IRIs. The consultant will review the latest household-level questionnaire used by the survey firm during the endline survey and retain the questionnaire section needed to measure the required information.

4. Sample Size Determination

The Sampling framework for this survey will be the same households that were used for endline survey. They are 1,182 HHs under task 1 to measure overall impact of the project and 1,053 HHs to measure the impact of the matching grant sub projects. The 1,182 HHs under task 1 includes 487 HHs for Dairy milk, 678 HHs for goat meat and 17 HHs for Chyangra. Similarly, 1,053 HHs under task 2 includes 503 HHs for Dairy milk, 486 HHs for Goat Meat and 64 HHs for Chyangra. From the overall HHs from Task 1 and Task 2 the consultant will assist the project to draw representative sample from each value chain which are doable to carry out in the limited time period to measure the changes in the two PDO indicators and two intermediate result indicators.

The Year 7 survey will interview households only and not interview institutions. It will combine households from both Task 1 and Task 2 of the endline survey. It will stratify the sampling by (i) the three subsectors needed for the productivity PDO indicator (cow, buffalo, goat) and (II) RMs. This will be similar to the sampling approach for the MG profitability assessment.

5. Role of PMU/DLSUs

The PMU will share the list of 1,182 HHs under Task 1 and 1,053 HHs under task 2 to the consultant. The consultant will design the survey, determine the sample size and prepare survey tools in reference with the survey tools used in the endline survey. Based on the provided samples and survey tools, the PMU will develop logistic plan and work plan for visiting sampled HHs. The M & E Officer of the DLSUs will act as a supervisor and focal point and mobilize its two junior technicians for data collection. The DLSUs chief will facilitate the whole survey work with priority. After finalization of the survey tools by the consultant, two days' orientation training will be provided to M & E officers and field technicians by the consultant and PMU on the use of tablets and collection of the data for each questionnaire. The captured data will be recorded in the tablets (there are more than 70 tablets in DLSUs) The data captured will be further verified for its quality and consistency by the PMU focal point. The verified data will be shared with the consultant for analysis. In addition, PMU will set up a task team consisting of PMU and DLSUs M & E staff to maintain regular contact and to solve the problems if there are any. The team will be led by Senior M & E Officer of PMU and M & E Officer from each DLSUs will be its members. They work as focal points. The responsibilities for each of the staff are as follows

S. No	Responsibilities	Project Director	PMU Focal Point	DLSU Chief	DLSU Focal Point	Field Technician
1	Over all Management. Review progress every week.					
2	Lead the task team, maintain regular contact with the DLSUs focal point, verify the captured data for its consistency and share with consultant for data analysis					

3	Regularly monitor, supervise the data collection work as per schedule and solve problems if there are any.					
4	M & E Officers at DLSUs will act as focal point for this whole task					
5	Data collection in the tablets and report to the respective focal point for any assistance					

6. Role of consultant

The consultant will determine the representative appropriate sample size from the list of HHs under task 1 and task 2 provided by PMU. (please be noted that there is a limited time available and limited staff at DLSUs). The number of sample size to be kept minimum in order to quickly complete the task as DLSUs are already heavily occupied in other project planned activities. The consultant will also assist the project in preparing appropriate survey tools to capture the end result of above described indicators. He/she will also assist project in independent analysis, interpreting the survey result with preparation of final concise survey report as mentioned in the objective.

7. Time Line of the survey

S.No	Activities	Timeline
1.	Appointment of the consultant by WB	Dec 20, 2023
2	PMU will provide the list of HHS to the respective consultant	Dec 25, 2023
3	The consultant will draw the samples from the list provided and forward it to PMU	Dec 27, 2023
4	Preparation of Survey tools by consultant to capture the end result of above four indicators as mentioned above	Jan 15, 2024
5	Training of DLSU staff on the survey tools by PMU and consultant virtually.	Jan 20-22, 2024
6	Formation and mobilization of field team by each DLSU	Jan 31, 2024
7	Data collection by field team	Feb 1- 28, 2024
8	Data validation by PMU focal point & consultant	March 1 – 7, 2024
9	Sharing of data by PMU to the consultant	March 7, 2024
10	Data analysis by the consultant	March 21, 2024
11	Preparation and submission of report by the consultant	March 31, 2024

8. Conclusion

The survey must be designed to capture the end-of-project results in the four specified indicators. Other results of the IRIs will be tracked from progress reports and the Project Management Information System (PMIS). Given the time and staff constraints at DLSUs, it is essential to optimize the sample size and survey tools. The consultant hired for this purpose will guide the project throughout the survey work. The delay in the appointment of the consultant will subsequently delay in other activities.

Annex 2.19: Consultants/consulting firm hired by NLSIP as of Nov 2023

S.N.	Name of consultant/consulting firm	Purpose	Duration		Remarks
1	Dr. Chandra Mani Adhikari	Preparation of PIM		45 Days	
2	Dhurba Prasad Dahal	Preparation of PIM		38 Days	
3	Mr. Hari Bol Kafle	Preparation of PIM		25 Days	
4	Mr. Iswor Kadariya	Project Development		15 Days	
5	Dr. Rabati Man Shrestha	Study on Insurence		27 Days	
6	Dr. Surya Bahadur Singh	Base line study		1 PM	
7	Dr. Krishna Prasad Poudel	Study on Dairy VC		27 Days	
8	Dr.Nirajan Bhattarai	VC Study-Chyangra			
9	Mr. Salil Devkota	Preparation of ESMF		2 Person Months	
10	Dr. Prabhakar Pathak, PTE (Lead)	Overall facilitation	Nov-18	June-23	54.5 Months
11	Mr. Yograj Pokharel-FMS	FM	Nov-18	Dec-22	Intermittent
12	Er. Satish Chandra Jha, PS	Procurement	Nov-18	Dec-22	48 Months later intermittent for 75 days
13	Dr. Kamlesh Trivedi (International)	Breeding	Apr-19	Jul-19	50 PD, Intermittent
14	Dr. Krishna Paudel (National)	Breeding	Apr-19	Jul-19	3 Person Month
15	Dr. M.R. Garg (International)	Nutrition	Apr-19	Jul-19	50 PD, Intermittent
16	DR. Chet Raj Uppretti (National)	Nutrition	Apr-19	Jul-19	3 Person Month
17	Mr. Novikov Andrei (International)	ICT	Apr-19	Jul-19	30 PD, Intermittent
18	Mr. Suresh Basnet (National)	ICT	Apr-19	Jul-19	65 PD, Intermittent
19	Dr. Surya Bahadur Singh (National)	PIM	Nov-18	May-19	
20	Dr. Krishna Paudel (National)	PIM	Nov-18	May-19	
21	Dr. Baikunth Parajuli (National)	PIM	Nov-18	May-19	
22	Dr. Damodar Sedhai (National)	Lab Quality Manual	Apr-19	Jul-19	60 PD, Intermittent
23	Dr. Parshuram Bhusal (National)	Lab Protocol	Apr-19	Jul-19	60 PD, Intermittent
24	Ms Bandana Dahal	IT			3 Months
Firms/Consultancy					

25	Apex-Inclusive JV (15)	Engineering Services	Mar-19	June 2023	Re-hired from Nov 2023 to June 2024.
26	Nepal Veterinary Council	Policy and Acts	Dec-18	Jul-19	
27	Nepal Environment Protection Centre (9)	Preparation of Guidelines, GoM, operation modality of FFS and FBS, Market Feasibility, Animal Identification and Impact Study of FMD,PPR, Mapping of POs	Apr-19	Jul-19	2.4 Months
28	Mr. Thakur Prasad Bhatta	Gender Specialist	24 Oct 2019	30 June 2023	12 Person Months (Intermittent)
29	Gorakhkali Manakamana Study in JV with Research Centre and National Environment and Health Study Centre, Bhaktapur (8)	Capacity Enhancement Needs Assessment (CENA)	2 December 2019	2 June 2020	6 Months
30	CMS led JV (21 initially)	Technical Assistance	Jan 02, 2020	June 30, 2023	Entire project period
31	Full Bright (FBC) (4)	Base Line Survey	Jan 28, 2020	July 15, 2020	5.5 months
32	Mr. Neeraj Silwal	Bio Medical Engineer	March 06 2020		12 months
33	Dr. Shreeram P. Neopane	Animal Breeding Expert	June 21, 2020		36 Months Resigned from Feb 2022)
34	Dr. Lok Nath Poudel	Animal Breeding Expert	Sept 13, 2022	June 30,2023	9 person months
35	Hiring of NABIC (12)	Providing Business Services to the GAs	Sept 01, 2020	Dec 31, 2022	28 Months
36	Sudan Pudasaini; Android Developer	For LIMS	Jan, 2021	April, 2021	4 Months each
37	Rupak Poudel; Junior Web Developer	For LIMS			4 Months each
38	Sudip Singh; Senior Web Developer;	For LIMS			4 Months each
39	ERMC & BFI (JV) (5)	End line survey		June 2023	5 Months
40	Dr. Prabhakar Pathak	PTE	Nov 1-2023	June 2024	7.7 months
41	Mr. Yoga Raj Pokharel	FMS	Nov 1-2023	June 2024	96 P.Days
42	Mr. Bhuwan Acharys	PS	Nov 1-2023	June 2024	70 P. Days

Annex 2.20: Distribution List of Project Procured Vehicles (2018/19)

S.N.	Offices	Vehicles	Motor Cycles	Scoters	Remarks
1	DLSU, Biratnagar	2	2	-	1 in 074/75
2	DLSU, Hetauda	2	2	-	1 in 074/75
3	DISU, Pokhara	2	2	1	1 in 074/75
4	DLSU, Butwol	2	2	-	1 in 074/75
5	RVL, Surkhet	1	-	-	
6	VH & SLSC, Jhapa	1	-	-	
7	VH & SLSC, Morang	1	-	-	
8	VH & SLSC, Sunsari	1	-	-	
9	VH & SLSC, Chitwan	1	-	-	
10	VH & SLSC, Kapilbastu	1	-	-	
11	LBO, Lahan	1	-	-	
12	GDF, Buditola	1	-	-	
13	Livestock Dir, State 4	1	-	-	
14	CRVH, Tripureswor	-	1	-	
15	CVL	-	1	-	
16	DLS	-	1	-	
17	NVC	1	-	-	
18	MoALD	1 (SUV)	3	3	SUV, 074/75
19	NLSIP	5+1(SUV)	8	5	Vehicle: 3+1 (SUV), Motor Cycle 5 & Scooter 2 in 074/75
	Total	25	22	9	

Annex 2.21: Distribution List of Project Procured Vehicles (F.Y. 076/77:2019/20)

S.N.	Offices	Vehicles	Motor Cycles	Scoters	Remarks
1	PMU	1	4	5	
2	VSDRL	0	2	0	
3	Veterinary Lab, Morang	0	1	1	
4	Livestock Farm, Goat, Kailali	0	1	0	
5	Yak Farm Solukhumbu	0	1	0	
6	LBO, Nepalgunj	0	1	0	
7	CVL, Tripureswor	0	1	2	
8	NBPL, Tripureswor	0	1	2	
9	Central Referral Hospital	0	1	1	
10	DLSU, Biratnagar	0	2	1	
11	DLSU, Hetauda	0	2	1	
12	DLSU, Pokhara	0	2	1	
13	DLSU Butwal	0	2	1	
14	Veterinary Lab Dhangadi	0	1	1	
15	MoALD, Singhadurbar	0	2	2	
16	DLS, Harhiar Bhawan	0	1	2	
17	NADIL, Chitwan	0	2	0	

S.N.	Offices	Vehicles	Motor Cycles	Scooters	Remarks
18	Animal Quarantine (Biratnagar, Birgung, Janakpur, Bhirabha, Nepaljung, Gaddachouki and Kathmandu)	0	7	0	
19	Rhizobium Laboratory, Dhanusa	0	1	0	
20	Forage Resource Center	0	1	0	
	Total	1	36	20	

Annex 2.22: Procurement of Computer

S.N.	F/Ys	Lab Top	Desk Top	Printer	Photo copier	Video Camera	Digital Camera	LCD Projector
1	073/74 (2016/17)	7	6	9	1	0	0	0
2	074/75 (2017/18)	10	12	3	0	0	0	0
3	075/76 (2018/19)	12	20	28	4	0	0	0
4	076/77 (2019/20)	0	0	0	0	2	3	3
5	077/78 (2020/21)	15	20	20	2	0	0	0
	Total	44	58	60	5	2	3	3
	Location	11 DLSUs, 31 PMU & 2 MoALD	21 DLSUs & 37 PMU	21 DLSUs & 39 PMU	4 DLSUs & 3 PMU	PMU	PMU	PMU

Annex 2.23: Total No. of PCNs Received Across DLSUs by Districts(Call 1 & 2)

DLSUs	Districts	Farmer Groups			Cooperatives			Producer's Associations			Total VC Wise		All Total	Remarks
		Dairy	Meat	Total	Dairy	Meat	Total	Dairy	Meat	Total	Dairy	Meat		
Morang	Pachthar	0	3	3	10	2	12	0	0	0	10	5	15	
	Illam	7	7	14	22	9	31	3	0	3	32	16	48	
	Jhapa	1	6	7	10	6	16	0	0	0	11	12	23	
	Morang	4	12	16	12	6	18	1	0	1	17	18	35	
	Sunsari	9	10	19	6	4	10	0	0	0	15	14	29	
	Dhankuta	2	13	15	3	4	7	0	0	0	5	17	22	
	Udayapur	3	9	12	10	5	15	0	0	0	13	14	27	
	Sub Total	26	60	86	73	36	109	4	0	4	103	96	199	
Hetauda	Siraha	6	4	10	6	5	11	0	0	0	12	9	21	
	Saptari	11	11	22	14	2	16	0	0	0	25	13	38	
	Dhanusha	13	4	17	18	8	26	0	0	0	31	12	43	
	Makawanpur	1	8	9	9	0	9	0	0	0	10	8	18	
	Chitwan	10	19	29	20	3	23	0	0	0	30	22	52	
	Kathmandu	12	11	23	3	4	7	2	0	2	17	15	32	
	Kavre	3	13	16	9	5	14	0	1	1	12	19	31	
	Sub Total	56	70	126	79	27	106	2	1	3	137	98	235	
Pokhara	Kaski	10	19	29	13	5	18	1	0	1	24	24	48	
	Syanga	7	36	43	7	8	15	0	0	0	14	44	58	
	Nabalu	14	15	29	6	3	9	0	0	0	20	18	38	
	Tanahu	6	12	18	8	5	13	1	0	1	15	17	32	
	Myagdi	8	8	16	0	2	2	0	0	0	8	10	18	
	Sub Total	45	90	135	34	23	57	2	0	2	81	113	194	
Butwal	Rupendehi	5	3	8	16	2	18	0	0	0	21	5	26	
	Kapilbastu	2	2	4	7	3	10	0	0	0	9	5	14	
	Nabalparasi	3	1	4	6	0	6	0	0	0	9	1	10	
	Palpa	0	1	1	4	4	8	0	0	0	4	5	9	

DLSUs	Districts	Farmer Groups			Cooperatives			Producer's Associations			Total VC Wise		All Total	Remarks
		Dairy	Meat	Total	Dairy	Meat	Total	Dairy	Meat	Total	Dairy	Meat		
	Gulmi	0	1	1	4	4	8	0	0	0	4	5	9	
	Argakhachi	2	14	16	3	18	21	0	0	0	5	32	37	
	Berdiya	3	7	10	10	11	21	0	0	0	13	18	31	
	Sub Total	15	29	44	50	42	92	0	0	0	65	71	136	
	All total	142	249	391	236	128	364	8	1	9	386	378	764	

Source: PMIS

Annex 2.24: Activities continued after restructuring (Progress as of Nov. 2023)

S.N	Activities to be supported	Sub Activities	Current status	Outstanding activities	Physical Progress in %
A1	Development of Infectious Animal Disease Control Act Development of Draft Animal Welfare Act	<ol style="list-style-type: none"> 1. Develop concept note and seek approval from government. 2. Consultation workshop with all stakeholders 3. Formation of Drafting Committee. 4. Collection of suggestions and feedback through public notice 5. Drafting of the Act 6. Wider consultation with federal, provincial and local governments 7. Preparation of Final draft 8. Submission of final draft to MoALD for onward approval. 	<ol style="list-style-type: none"> 1. Concept note developed and approved by GoN 2. Consultation Workshop completed 3. Drafting Committee formed at MoALD 4. Suggestions and feedback received through various channel 5. Drafting continue. 	<ol style="list-style-type: none"> 1. Drafting of the Act 2. Wider consultation with federal, provincial and local governments 3. Preparation of Final draft 4. Submission of final draft to MoALD for onward approval 	75
A2	Development of National Animal Breeding Policy		National Animal Breeding Policy developed and approved by GoN on 2078/09/30 (Jan 14, 2022)	Completed	100
A3	Meat Inspection and slaughterhouse Act (Implementation Support only)	<ol style="list-style-type: none"> 1. Orientation of the amended Act, 2. Training and workshops, 3. printing and publication 	Amendment of Meat Inspection and slaughterhouse Act is yet to be achieved	These activities will be undertaken upon the amendment of the Act	Dropped
A4	Nepal Veterinary Council Act (Implementation Support)	<ol style="list-style-type: none"> 1. Orientation of the amended Act, 2. Training and workshops, 3. printing and publication 	Amendment of NVC Act is yet to be achieved	These activities will be undertaken upon the amendment of the Act	Dropped

S.N	Activities to be supported	Sub Activities	Current status	Outstanding activities	Physical Progress in %
A5	Preparation of PPR and FMD Roadmap	<ol style="list-style-type: none"> 1. FMD roadmap prepared by the project is integrated into Risk Based Strategic Plan 2. PPR roadmap prepared by the project is embedded into the national PPR disease control strategy 	<ol style="list-style-type: none"> 1. RBSP is yet to be approved by the government 2. National PPR disease control strategy is yet to be approved by the government. 	No further intervention from project.	80
A6	Development of National Animal Health Policy		National Animal Health Policy developed and approved by GoN on 2078/09/30 (Jan 14, 2022).	Completed	100
A7	Development of One Health Action Plan		<p>One Health Action Plan already drafted and is being submitted to DLS. But the Plan is yet to be approved. The project recognizes the coordinated approach between Department of Health, Environment and Livestock for this activity</p> <p>The plan is to be reviewed and endorsed by the technical coordination committee proposed in the One Health Strategy</p>	Completed from project side. No further intervention is planned.	70
A8	Veterinary Drug Act	The project through the NVC had initiated the work. However, since standalone veterinary drug Act is not permitted by	Dropped	Dropped	Dropped

S.N	Activities to be supported	Sub Activities	Current status	Outstanding activities	Physical Progress in %
		Government it had to be discontinued.			
A9	Animal Nutrition Strategy		1. Committee formed at DLS. 2. Revised Draft Strategy developed, 3. Submitted to DLS for onward submission on Aug 11, 2022.	Final draft submitted to DLS on June 21, 2023. No further intervention is required from project.	70
A10	Livestock Breeding Strategy		Strategy has already been developed which is now embedded into National Animal Breeding Policy	Completed	100
A11	Strategy on use of ICT in livestock service sector and development of Livestock Information Management System	1. Strategy to use ICT in livestock sector 2. Development of LIMS	Operation procedures for the use of ICT in livestock service sector developed and approved by DLS based on the ICT and LIMS strategy. LIMS prototype development	Strategy completed LIMS prototype developed and tested successfully in Gandaki Pradesh. Discontinued IDA funding as advised by TTL.	50
A12	ICT Infrastructure support including hardware, software, human, resources etc	Procurement of ICT infrastructure for LIMS	Dropped following the advice from WB	Dropped	Dropped

S.N	Activities to be supported	Sub Activities	Current status	Outstanding activities	Physical Progress in %
A13	Preparation on Strategy on Animal Identification and Traceability		Draft Strategy on Animal Identification and Traceability developed and submitted to DLS for onward submission	No further intervention from the project	50
A14	Preparation of Lab Quality Manual for VSDRL and Laboratory Protocols and SOPs for VSDRL accreditation		Accomplished. Laboratory Quality Manual and Protocols, SoPs prepared and already approved by DLS	Completed	100
A15	Study on Capacity Enhancement Needs Assessment (CENA)		Assessment (2 volumes) completed. Vol 1 for the project level and Vol 2 for the livestock sector	Completed	100
A16	Livestock Emergency Preparedness Plan		Draft plan prepared but will be finalized once the Infectious Animal Disease Control Act has been approved	Drafting of Infectious Disease Control Act is ongoing.	20
				Average Progress	75.41
				IDA Budget	0.30 million US\$
	Component B				
B1	Support mobilization of POs for target value chains including shed improvement and manure management. Hiring of 106 Social Mobilizers	<ol style="list-style-type: none"> 1. Formation and Mobilization of Pos (FGs & Coop) Target 1700 2. Shed Improvement and Manure Management: 3. Hiring of SMs (106) 	<ol style="list-style-type: none"> 1. 1,359 Pos formed and mobilized. 2. 1,020 shed improved 3. 106 Livestock Social Mobilizers hired 	Additional 341 Pos to be formed and mobilized. 15 Shed improvement	93.02

S.N	Activities to be supported	Sub Activities	Current status	Outstanding activities	Physical Progress in %
B2	Training on disease surveillance and prevention such as (i) training on epidemiology, disease diagnosis, and laboratory procedures, (ii) training on system use including proper recording and tracing of field samples, (iii) train and equip field workers for sample collection	<ol style="list-style-type: none"> 1. Training on Disease Surveillance 2. Training on Epidemiology 3. Training on Disease Diagnosis and Laboratory Procedures 4. Training on Recording and Tracing of Field Samples 5. Training on Sample Collection 	4,890 staff in 170 events trained on different subjects	Completed	100
B3	Mass vaccination against FMD and PPR. Procurement of FMD vaccine logistics including automatic syringe(600)	<ol style="list-style-type: none"> 1. Vaccination against FMD (22 million heads) 2. Vaccination against PPR (46.7 million) 3. Procurement of automatic syringe (600) 	<ol style="list-style-type: none"> 1. 10.38 million heads of cattle and buffaloes vaccinated against FMD 2. 37.325 million heads vaccinated against PPR 3. 1063 automatic syringe (Vaccinator) procured 	<ol style="list-style-type: none"> 1. 11.62 million heads for FMD 2. 9.375 million heads against PPR 	69.43
B4	Parasite control	As per need	Anthelmintic procured and distributed in Mustang and Manang.	Will continue as per annual work plan	100
B5	MTOT/TOT to FFS facilitators (13 days)	<ol style="list-style-type: none"> 1. 4 MTOT/TOT-Officer level 2. 3 MTOT/TOT -Technician 	158 persons are trained through 7 slots.	Completed	100
B6	Implementation of FFS	335 FFS targeted	229 FFS are in operation	106 FFS yet to be initiated	68.4

S.N	Activities to be supported	Sub Activities	Current status	Outstanding activities	Physical Progress in %
B7	Training in one health approach (Food Safety, Zoonotic disease, GAHP, GVP)	Different training	96Events completed with participation of 4,641 stakeholders	Completed	100
B8	PPRS data management training for staff	5 events	5 events with participation of 171 staffs	Completed	100
B9	PCR, USG, X-ray, haematology, biochemical, etc. training for officers	<ol style="list-style-type: none"> 1. Training on PCR 2. Training on USG/x-ray 3. Training on haematology and bio-chemical 	<ol style="list-style-type: none"> 1. 1 events with 9 officers trained in PCR 2. 4 events with participation of 89 technicians trained in USG & digital x-ray 3. 1 events in haematology & bio-chemical- 26 participants 	Completed	100
B10	AI training for technicians	<ol style="list-style-type: none"> 1. Fresh AI Training 2. Refresher AI Training 	<ol style="list-style-type: none"> 1. Fresh AI Training in 10 events with 118 technicians 2. Refresher AI Training, 5 events with 67 technicians 	Completed	100
B11	Training to Pos Cooperative & Groups (Commercial goat, commercial diary and dairy diversification) 1 week	<ol style="list-style-type: none"> 1. Training to Pos 2. Technical training on goat, dairy and dairy diversifications (6 days) 	<ol style="list-style-type: none"> 1. Dairy diversification 6 days 4 events with 36 participants 2. Other 266 events in various training to Pos 	Completed	100
B12	Dairy diversification training per CTEVT approved curriculum (550 hrs.)	5 events	1. Dairy diversification 90 days 5 events with participation of 58 farmers	Completed	100
B13	Nursery development	Nursery establishment target; 40	25 nursery established	15 nurseries over due	62.5
B14	Contract farming for forage seed production	Target 1,000 ha	582 ha covered	418 ha over due	58.2

S.N	Activities to be supported	Sub Activities	Current status	Outstanding activities	Physical Progress in %
B15	Establishment of cold chains	<ol style="list-style-type: none"> 1. 2,332 cool boxes 2. Prefab cold room-7; 3. Prefab smaller size cold room-14; 4. 10 refrigerators procured and distributed as part of strengthening supply chain to QCPs 5. 67 Chilling Vats to Coop (1000 & 500 L) 	Completed	No further intervention	100
B16	Lab equipment support to local level livestock sections	<ol style="list-style-type: none"> 1. Double door laboratory refrigerator-100 	Completed	No further intervention	100
B17	SOPs for (i) Biosecurity of semen stations and field level delivery; (ii) Milk pooling stations; (iii) Market management; (iv) Slaughter house inspection		SoP prepared by NLBO/TA	Validation workshop	50
B18	Upgrading of labs / farms in Pokhara, Lahan, Chitlang and Budhitola	<ol style="list-style-type: none"> 1. Bull Mother and Bull shed at Pokhara-2 2. Store Room & Quarantine shed, Pokhara - 2 3. Bull Mother Shed, Lahan-1 4. Goat Shed at Buditola-2 5. Compound Wall and Rotational Grazing, Chitlang-1 	All completed	No further intervention	100

S.N	Activities to be supported	Sub Activities	Current status	Outstanding activities	Physical Progress in %
B19	Upgrade training and extension curricula and handbook	<ol style="list-style-type: none"> 1. Upgrading the training and extension curricula 2. Production of Handbook for LSMs 	Completed	No further intervention	100
B20	Train village based paravets and agrovets	<ol style="list-style-type: none"> 1. Training to paravets/agrovets to run vet medicine shops-120 person 2. Other professional training to paravets-120 	<ol style="list-style-type: none"> 1. Item number one is dropped due to inability to obtain approval from DDA 2. Numerous training has been completed for paravets (AI, epidemiology, PPRS data management, sample collection and dispatch, MTOT/TOT to run FFS. 3. Food safety, GAHP and GVP awareness program 	No further intervention	50
B21	Introduction of herd health program to optimize animal health and herd productivity through better management practices and reduce food safety risks due to improper drug use	Herd Health program include , Vaccination, Drenching and Mastitis Control, target is -1000 herds	718 herd covered		71.8
B22	Upgrade facilities of 15 Quarantine Check posts and Development of Training centres	<ol style="list-style-type: none"> 1. Upgrading facilities of 15 QCPs <ul style="list-style-type: none"> • Supply of equipment's and disinfectants to QCPs • Construction of Biological pits-11 • Procurement of 4W vehicles-2, 2W vehicles-8 already procured 	All Completed	No further intervention	100

S.N	Activities to be supported	Sub Activities	Current status	Outstanding activities	Physical Progress in %
		2. Development of Training Centre's <ul style="list-style-type: none"> • Construction of Training Center at Karnali Pradesh, Surkhet • Model Meat Training Centre, Duhabi • Model Forage Training Centre, Ranjitpur 			
B23	Support breeding services for genetic improvement of cattle, buffalo and goats	<ol style="list-style-type: none"> 1. Hiring of Breeding expert 2. Procurement of AI Equipment's 3. Procurement of Semen Straw sealing/filling/counting/packing Machine-3 4. Procurement of Milk Analysers-20 5. Procurement of Breeding Bulls-6 imported 6. Procurement of Bulls from PPRS Herd-24 7. Procurement of Semen-10,000 dose 8. Procurement of breeding Murrah bulls from PPRS Herd-5 9. Procurement of Vehicle (4WD) -1 unit 10. Training and workshop-4 11. Procurement of Mountain goats-30 	<ol style="list-style-type: none"> 1. Completed 2. Completed 3. Completed 4. Completed 5. Completed 6. Completed 7. Completed 8. Completed 9. Completed 10. Completed 11. Completed 	No further intervention	100
B24	PPRS/PRS for genetic improvement	<ol style="list-style-type: none"> 1. Development of SoP for PPRS for cattle & buffaloes 2. Development of PRS for goats 3. PPRS Training 4. Development of Herd Plan 	<ol style="list-style-type: none"> 1. Developed and approved 2. Dropped 3. Completed 4. Completed 5. Ongoing 6. Ongoing 	Will continue	60

S.N	Activities to be supported	Sub Activities	Current status	Outstanding activities	Physical Progress in %
		5. Herd Registration 6. Performance Recording (Milk Recording, AI, PD, Calving Interval) 7. Procurement of Boer Goats 8. Training and workshop 9. Breeding Software 10. PRS Activities	7. Dropped 8. Ongoing 9. Dropped 10. Dropped		
B25	Optimizing feed use and supplementation regimes to dairy animals		Included in LIMS		Dropped
B26	Mineral mixture plant	Procurement of 2 MM Plants	Completed	No further plan	100
B27	Silage making machine	Procurement of 33 Units	Completed	No further intervention	100
B28	Establishment of forage seed processing and storage unit (5)	1. Construction of Seed Processing Storage Unit at Ranjitpur-1 2. Construction of Seed/storage and Processing Unit-4 (Sunsari, Dang, Nabalparashi, and Janakpur)	1. Completed 2. Civil works completed. Installation of equipment is completed in Sunsari	No new further intervention	81.25
B29	Forage and seed storage and training unit	Construction of forage seed processing training unit at Ranjitpur	Completed	No further plan	100
B30	DUMAS and automatic bomb calorimeter	1. Procurement of DUMAS 2. Procurement of Automatic Bomb Calorimeter	Completed. Installed at NAFQML under DoLS	No further plan	100
B31	Development of Gene Banks for forage and pasture germplasm		Dropped		Dropped

S.N	Activities to be supported	Sub Activities	Current status	Outstanding activities	Physical Progress in %
B32	Fodder and forage production in 10,000 ha	10,000 ha to be covered	8,550 ha covered (Morang-1476 ha; Hetauda -1,433 ha; Butwal-1,198 ha and Pokhara-4,443 ha)	1,450 ha overdue	85.5
B33	Development of comprehensive handbook for livestock extension practitioners	1. Production of Handbook on Livestock services technology for frontline extension workers	Completed and Distributed	No further intervention	100
B34	Small infrastructure support for Mountain Goat (Chyangra) production	Support such as construction of small culverts, lift irrigation, distribution of potable solar panel, small processing tools provided to the livestock farmer groups	Completed	No further intervention	100
B35	Survey of beneficiary satisfaction	Two round of survey completed along with HH survey	Completed	Included in the end line survey	100
B36	No. of farmers provided with or linked to livestock insurance to project grant beneficiaries (300)	1. Link with SPs grant beneficiaries 2. Provide Training to develop insurance agent in livestock - 6 slots	1. Insurance of livestock is mandatory to all SPs under MGS 2. 159 paravets trained as insurance agent.	No further intervention	100
B37	Construction of Livestock Physical Infrastructures	1. Construction of LSC-28, 2. NVC-1, 3. Construction of Lab Animal Experiential Building and Renovation of VSDRL, 4. Construction of Compound Wall at NVC, Trg Centre and Quarantine	1. completed 2. Completed 3. Completed 4. Completed 5. Completed 6. Travis 2 and cow shed completed	No new further intervention	100

S.N	Activities to be supported	Sub Activities	Current status	Outstanding activities	Physical Progress in %
		5. Construction of Prefab Parasitology Laboratory 6. Others (Trust, Culverts, Travis and cowshed at Gousala)			
B38	Capacity building of financing institutions	Workshops-4	2 completed	2 workshop	50
B39	Update national curriculum for livestock professionals including vets and paravets.	1. Workshop with universities, NVC, AH&LPC and professional associations to revise national curriculum for Veterinarians. 2. Workshop with CTEVT to revise national curriculum for paravets	Both Completed		100
B40	Tools kits (flip book for each value chain) for public extension workers	1. Tool Kits for hygienic milk production and handling 2. Tool kit for silage production	1. Completed 2. Completed		100
B41	Preparation of profile of climate smart livestock practices promoted by the project	Publication of climate smart livestock best practices including the profile of project promoted practices	Completed		100
B42	Curriculum development for extension workers	AITC is regularly revising/improving the curricula of the extension workers as and when required		Dropped	Dropped
B43	Modernize service delivery	1. Digital X Ray – (8) 2. USG machine (37)	Procured Procured	No further plan	100

S.N	Activities to be supported	Sub Activities	Current status	Outstanding activities	Physical Progress in %
		3. Haematology analysers (23)	Procured		
		4. Bio-chemistry analysers (5)	Procured		
		5. Automatic bacteria identification machine (1)	Procured		
		6. Spectrophotometer with ELISA reader (1)	Procured		
		7. Roller culture system (1)	Procured		
		8. Lyopilyser (1)	Procured		
		9. Ultra de-freezer (1)	Procured		
		10. Crossflow filtration system (1)	Procured		
		11. Levelling machine (1)	Procured		
		12. Washing machine (1)	Procured		
		13 Digital fogger (1)	Procured		
		14. Bio-safety cabinet (5)	Procured		
		15. LCMS MS	Dropped		
		16. Washing Machine for VSDRL, Endoscopy Probe, Cautery machine, Coagulation analyser, Microscope with camera for CRVH, HPLC grade water purifier, Incinerator	Procured		
		17. Tractor for Janakpur Farm	Procured		
		18. 4WD vehicles (24)	Procured		

S.N	Activities to be supported	Sub Activities	Current status	Outstanding activities	Physical Progress in %
		19. Motorbikes (79)	Procured		
		20. Misc. support of goods and chemicals for labs, vet hospitals, and quarantine posts	Procured		
B44	One Health Approach with multi-sectoral collaboration	1. Procurement of PCR machine-5, PPE sets, chemicals, reagents and tests kits are under process 2. Construction of BSL 2 Plus Laboratory	Procured Not initiated	Construction of BSL 2 Plus Laboratory ongoing	50
B45	2 units of vehicle purchase for DFTQC to strengthen their supervision and monitoring capabilities for food safety measures in NLSIP command districts		Not initiated	Dropped	Dropped
B46	Disease outbreak response	Emergency fund created (Mass communication Medicine supply)	Supported DLS for the control of Lumpy Skin Disease epidemic	Will be utilized as and when required	100
B47	Miscellaneous Support Services in consulting services and goods			Dropped	Dropped
B48	Supply chain strengthening support to BMSS at Morang and LMSS at Butwal	1. Support to BMSS 2. Support to LMSS	Contract awarded Delivery pending	No further intervention	100

S.N	Activities to be supported	Sub Activities	Current status	Outstanding activities	Physical Progress in %
			Average Progress		98.72
			Budget	US\$ 21.13	
	Component C				
C1	Stakeholder dialogue platform at district, cluster and national level	Establishment of 34 platforms at all levels from district, cluster and central.	All are operational on a regular basis	Will continue until the end of project	100
C2	Market study of milk production and processing at State 7)		Dropped	Dropped	Dropped
C3	Digital display system in livestock market canters	Installation of Digital Display at four location	7. Achieved (DLS and QCP Thankot)		50
C4	Supporting capacity building of Pos in preparing bankable business plans for financing	1. Hiring of BSP (NABIC) 2. Building capacity of Pos to prepare their own business plan through training and workshop 3. Select Peer Reviewer for independent Evaluation of the business plan	1. NABIC as BSP is hired 2. 503 FPPs from Call 1, 3 FPPs from Call 2 and 748 FPPs from Call 3, altogether 1254 FPPs received. Training and workshop organised for the preparation of FPPs 3. 130 PRs selected and oriented	Completed	100
C5	Supporting BFIs develop adapted financial services and products for targeted value chains	NABIC to support	Completed		100

S.N	Activities to be supported	Sub Activities	Current status	Outstanding activities	Physical Progress in %
C6	Assessment of hazard analysis and critical control points for milk and goat value chains under One Health	Through DFTQC under MoU with the project	Ongoing		Report Yet to receive from DFTQC
C7	Provide training to stakeholders in animal product handling – food hygiene, food safety practices	Through DFTQC under MoU with the project	Ongoing		Report Yet to receive from DFTQC
C8	Effective feed and food safety monitoring and assessment through the provision of testing kits/technology to track adulteration and contamination	Through DFTQC under MoU with the project	Ongoing		Report Yet to receive from DFTQC
C9	Increase capacity of regional and central DFTQC labs for food safety testing	Through DFTQC under MoU with the project	Ongoing.		Report Yet to receive from DFTQC
C10	Monitoring of NLSIP funded SPs for their quality compliance	Through DFTQC under MoU with the project Through VSDRL	Ongoing		Report Yet to receive from DFTQC
C11	Develop and implement a consumer knowledge and awareness program to stimulate market demand for	Through DFTQC under MoU with the project	Ongoing		Report Yet to receive from DFTQC

S.N	Activities to be supported	Sub Activities	Current status	Outstanding activities	Physical Progress in %
	nutritious and safe livestock products				
C12	Certification program for traders, butchers, processors and retailers through DFTQC	Through DFTQC under MoU with the project	Ongoing		Report Yet to receive from DFTQC
C13	Financing minimum 300 business plans (sub projects)	1. 246 SPs under call 1, 2. 3 SPs under call 2 and 3. 380 SPs under call 3 (altogether 629 SPs were signed for partial financing)	1. 210 SPs under call 1 2. 3 SPs under call 2 and 3. 235 SPs under call 3 (after cancellation) altogether 450 SPs are at implementation)	Completion of all 450 SPs. No further signing for grant agreement	100
C14	Infrastructure Development of Livestock Market and collection centres	1. Construction of 4 new markets (Rangeli, Ratnanagar, Rupendehi and Berdiya) and completion of 1 old market at Damak initiated by PACT 2. Construction of dairy/milk collection centres; Jhapa, Nuwakot, Saptari, Siraha, Rasuwa, Kaski and Kapilbastu -7 3. Construction of goat collection centres; Tanahu, Argakhachi, Nabalpur and Saptari-4	1. 4 new Markets and one old market completed 2. 7 Milk/dairy collection centres completed; Kaski (Rupa), Kapilbastu (Banganga), Nuwakot (Bidur), Rasuwa (Kalikasthan), Siraha (Mirchaiya), Saptari (Surunga), Jhapa (Gauradaha) 3. 2 Goat collection centres (Tanahu Bhimad), Argakhachi (Sitganga), Completed others two (Nabalpur and Rupani) are ongoing	Ongoing works will be completed. No further intervention	100
C15	Consultant for facilitating Matching Grants distribution and utilization	Dropped	Dropped	Dropped	Dropped
				Over all Progress	91.66

S.N	Activities to be supported	Sub Activities	Current status	Outstanding activities	Physical Progress in %
				Budget	38.6 million US\$
	Component D				
D1	Establishment of GRM mechanism	<ol style="list-style-type: none"> 1. Development of SoP for GRM 2. Establishment of District level GRC-28 3. Establishment of DLSUs level GRC-4 4. Establishment of Central Level GRC-1 	<p>All completed</p> <p>Operational</p>		100
D2	Installation of PMIS	<ol style="list-style-type: none"> 1. Development of software 2. Installation 3. Operation 	<p>Operational</p> <p>Additional Features are added when required</p>		100
D3	ICT infrastructure establishment	<ol style="list-style-type: none"> 1. Procurement of Laptop computers-44, 2. Desk top computers -58 3. Printers-60, 4. Photocopier-5, 5. Video camera-2, 6. Digital camera-3 7. LCD projector-3 8. And others as appropriate 	All procured and completed		100
D4	Furniture and fixtures	Procurement of Furniture's as required	Major furniture procured		100
D5	Ensuring compliance with safeguards	Activities to be continued until the end of project	Ongoing		100
D6	Supervision; Monitoring and evaluation	Activities to be continued until the end of project	Ongoing		100

S.N	Activities to be supported	Sub Activities	Current status	Outstanding activities	Physical Progress in %
D7	Project establishment, operation and maintenance of PMU and DLSU	Activities to be continued until the end of project	Established and operational		100
D8	PIM preparation	Hiring of Consultants (as subject matter specialist; Animal Health, Breeding and Nutrition) -3	Completed		100
D9	Project related studies	10 studies to be completed (Preparation of PCN Guidelines; Grant operating manual; operation of FFS; market feasibility study; impact of FMD & PPR; mapping and assessment of producers' organization; animal identification and traceability; Buyer assessment in meat, dairy and Chyangra)	Completed		100
D10	Design and supervision consultant	Hiring of consulting firm	Apex Inclusive JV hired		100
D11	Baseline survey and end line survey	Hiring of Consulting firms	1. FBC hired and for BSL survey 2. ERMCM BFI JV	1. Completed 2. Completed	100
D12	Technical Assistance for Service Provider	Hiring of TASP	CMS JV is hired since Jan 2, 2020		100
D13	Individual consulting services	Hiring of PTE (until the end of project)	Ongoing		100

S.N	Activities to be supported	Sub Activities	Current status	Outstanding activities	Physical Progress in %
		Hiring of PS (until the end of project) Hiring of FMS (until the end of project) Hiring of PPRS Ex (until the end of project) Hiring of Gender Expert (intermittent) Hiring of Bio-medical Engineer (10 months)			
D14	Mission management	1. Management of WB regular mission 2. Management of WB High level visit 3. Others as appropriate	Ongoing		100
D15	Insurance of high value equipment	Insured Project procured high value equipment	No government policy	Dropped	Dropped
D16	Project brochures, leaflets, video documentary and You Tube clips, News Bulletin etc.	Publication and dissemination of project results through various means	Ongoing		100
D17	PSC Meeting; Central Level Technical Coordination Committee Meeting; State-Level Coordination Committee Meeting etc.	As required	Ongoing		100
D18	Miscellaneous support activities	As required	Dropped	Dropped	
				Overall Progress	100
				Budget	7.09 million
		Overall Progress		Budget 67.12	94.7

