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NATIONAL DAIRY RESEARCH AND DEVELOPMENT CENTRE
DEPARTMENT OF LIVESTOCK
MINISTRY OF AGRICULTURE & FORESTS
YUSIPANG, THIMPHU



MODALITIES FOR IMPLEMENTATION *OF* NATIONAL DAIRY INFORMATION SYSTEM (NDIS)



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INTRODUCTION

National Dairy Research & Development Centre (NDRDC, Yusipang) with the mandate for Dairy Research and Development embarks upon innovative approaches leveraging digital technologies to ease service delivery and reporting. Digitalization is expected to overcome the present constraint of manual reporting system which are prone to errors, duplication of works, increased work load and inefficiency in information generation. The NDIS is a web-based system to house records of important data pertaining to Dairy Research and Development in the country to ease real time data capturing and reporting. This initiative is in line with Royal Government of Bhutan's policy of digital by default.

SCOPE

The modality provides the framework for implementation of National Dairy Information System (NDIS) to ensure uniformity in real time data assimilation and reporting by the different stakeholder at Gewogs, Dzongkhag, Regional and National level.

OBJECTIVES

- Provide platform for online data assimilation including registration, breeding and reproduction, farm production, farmers organization and report generation
- Improve efficiency and accuracy of data collection, analysis and information dissemination
- Minimize human errors and promote paperless reporting

NDIS PORTAL AND MODULES

1 REGISTRATION

- Owners and Animal Registration
- Farm Organization and Infrastructure Registration
- Animal Exit

2 BREEDING & REPRODUCTION

- Detail of Artificial Insemination
- Detail of Natural Services
- Calf Growth Rate

3 DAIRY PRODUCTION

- Farm Level Production
- Milk Composition
- Drying off Update

4 FARMERS' ORGANIZATION

- Registered Groups and Cooperatives
- Milk Composition (Farmers Groups)

5 REPORT GENERATION

- Dairy Animal Registered
- Breeding and Reproduction
- Dairy Production
- Farmers Organization
- Animal Exit

MODALITY FOR IMPLEMENTATION OF NDIS

Modalities for implementation of NDIS involve registration of animals with National Bovine Identification Number (NBIN) using plastic ear

tags. Field implementation of NDIS engages different stakeholders with series of activities under each module. Therefore, the activity shall be incorporated in the Individual Work Plan (IWP) of concerned staff.

Budget for field implementation including purchase of the essential items, travel costs for field staff will have to be incorporated by concerned Geogs / Dzongkhags / RLDC.

ROLES & RESPONSIBILITY OF DIFFERENT STAKEHOLDERS

NDRDC, Yusipang

NDRDC shall,

- Provide overall guidance/technical backstopping for uptake of NDIS
- Provide hand on training to NDIS user at Gewog, Dzongkhag and Regional level
- Update the system with additional features as and when required
- Publish the report at different level and provide feedback to the implementing agencies and to the Department
- Liaise with relevant agencies to source funds for activity implementation

RLDC

- Incorporate budget required for implementation of NDIS activities in the client Dzongkhags
- Provide technical backstopping & monitoring of NDIS activities in the client Dzongkhag
- Provide feedback on field requirement for data base system improvement

Dzongkhag

- Provide budgetary support to implement NDIS activities in the Dzongkhag including purchase of ear tags and related consumables on an annual basis
- Guide Gewog Livestock Supervisors on data entry under different modules as required
- Incorporate NDIS activities in the IWP of concerned staff and Dzongkhag APA
- Liaise and create awareness with Local Government on the NDIS
- Liaise with RLDC and NDRDC for technical support where required
- Mobilize / pool staff from other Gewogs for registration of cattle for smooth implementation of NDIS where required

Gewogs

- Incorporate budget for field implementation of NDIS activities on an annual basis including provisions for consumables
- Liaise with Local Government for active community participation to implement NDIS activities
- Register all cattle under CHBPP, DFGs / Cooperatives under the gewog in phased manner (Login detail is provided in Annexure 1)
- Register all animals brought for AI/NS instantly (if unregistered) and its progenies within a month
- Record/Update all data of AI events instantly or within 24 hours via Mobile Apps or through computer
- Update monthly dairy production and post-production data of the DFGs and Cooperatives under the concerned Gewogs
- Liaise with Dzongkhag for required support to implement NDIS

LOGIN DETAILS AND INSTRUCTION

To Login into the NDIS database, please go to website: <https://www.citizenservices.gov.bt/dairy/> OR <https://www.ndrdc.gov.bt/> and Click on Online Services, drop down menu “National Dairy Information System” will appear. Click on this system to Login.

To access the NDIS, Login with your EID (User name) with Password (provided by NDRDC, Yusipang)

Please refer to User Manual provided in for a steps by step guidance for data entry and report generation (Provided as separate document)

Annexure 1. : Login Features

The following features will appear once logged in:

- 1) NDIS portal:
 - a. Home
 - b. Registration
 - c. Breeding & Reproduction
 - d. Dairy Production, Farmers Organization & Report Generation
- 2) Data entry features for Geog staff / CAIT and staff of Government cattle farm will be displayed
- 3) Dzongkhags can access reports of all the Geogs under the Dzongkhag
- 4) RLDCs can access the report of their mandated Dzongkhags
- 5) National level can access the report of all the Dzongkhags.

Login feature is compulsory for NDIS and is the requirement of the Department of Information, Technology and Telecom (DITT, MoIC) which is the competent Authority of the Royal Government of Bhutan for Approving digital (webbed) Development.

