



# Meghalaya Milk Mission



Animal Husbandry & Veterinary Department  
Government of Meghalaya  
2018 - 2022

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**Shri Conrad K. Sangma**



सत्यमेव जयते




**Chief Minister  
Government of Meghalaya**

*I am happy to know that a Mission to promote Meghalaya's dairy milk sector has been conceived by the Animal Husbandry and Veterinary Department, for meeting the increasing demand for milk in the state. I express my gratitude to the Government of India for agreeing to support us through the NCDC (National Cooperative Development Corporation) in launching the Meghalaya Milk Mission. A good portion of our demand for milk in Meghalaya is being met through packaged milk, or imports from outside the state, which can be easily avoided, by making the required and timely investments. Dairy sector has the potential to ameliorate agrarian distress to a great extent, and it is necessary that as a state we begin focussing on the dairy sector from now on, so the impact will be felt in a few years. We should aspire to become self-sufficient in milk production, as soon as we can. Such self-sufficiency will also bring along rural employment, gainful ancillary economic activities and improved health and nutrition standards of the citizens. So, a healthy dairy sector will have a positive impact on the society at large.*

*Further, Dairy development is integrally connected to the Cooperative sector. A healthy Cooperative sector is a precursor to a vibrant Dairy sector. So, a similar focus on developing the cooperative sector should also be initiated in our state.*

*I compliment the Animal Husbandry & Veterinary Department, as well as the Cooperation Department for undertaking this task and I wish the Meghalaya Milk Mission a grand success.*

 (Conrad K. Sangma)

**Shri. Prestone Tynsong**



**Deputy Chief Minister  
Government of Meghalaya**

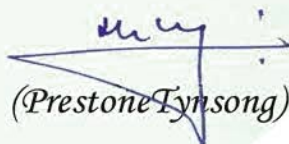


*I am happy that the Department of Animal Husbandry and Veterinary is launching the “Meghalaya Milk Mission” with the support provided by the Ministry of Agriculture and Farmers’ Welfare through the National Cooperative Development Corporation (NCDC).*

*Meghalaya’s Dairy sector is poised for major changes. The State witnessed a slow but steady growth in the Dairy Sector over the last decade. Dairying provides sustainable livelihoods to small, marginal and landless farmers and provides employment opportunities to the youth of the state.*

*I am sure that the Mission will boost the milk production and will catalyse the processing activities as well and thereby, it will help expand the state’s economic activity. The Mission will organize milk procurement, processing, marketing and focus on producing high quality milk production, feed and fodder. A very important aspect of the Mission is capacity building and information dissemination, oriented toward sustainability over a longer period. The successful implementation of the Meghalaya Milk Mission will prepare our dairy sector for future challenges and will certainly make our state move that much closer to self-sufficiency.*

*I wish the Meghalaya Milk Mission a grand success.*

  
(Prestone Tynsong)

# MEGHALAYA MILK MISSION

## 1. INTRODUCTION

Meghalaya has experienced a slow but steady growth in Dairying. Dairying for Milk in Meghalaya is a new concept and most Dairy farmers of the state are the first generation farmers. Traditionally, dairy farming in Meghalaya is for meat purposes and the animals are not milked. However, Meghalaya has a very favourable climate and excellent environmental conditions for the development of Dairying. The State has also been noticing high growth in the consumption of milk and milk products.

Having witnessed the development of sustainable Dairy Cooperative Societies Viz. Umlingka, Mawklot, Nongkseh, etc. at the village level and the formation of the Shillong Milk Union at the District level, the State Government has decided to launch a focussed initiative to develop the Dairy Sector through the Meghalaya Milk Mission.

The Meghalaya Milk Mission will take the State to a new level by integrating the AMUL model and the community approach. Initially, the Mission will be to assist the present Dairy farmers in increasing their milk production and parallelly, encouraging the new farmers in the development of Community farming based Dairy Cooperative Societies and development of Community Ranches. The Shillong Milk Unions will be tasked to develop modern infrastructure for Community Farms/Ranches for Breeding, Feed and Fodder, milk production, procurement, processing and cost-effective marketing strategy. The State level Dairy Development Agency will develop an efficient system for capacity building, monitoring and evaluation, with the objective of achieving genetic up-gradation of the Indigenous breeds.

This can be achieved through a dedicated approach by adopting of a modern methods of rearing and breeding of high yielding Indigenous breed of animals viz. Gir, Tharparkar, Red Sindhi, Sahiwal and other local breeds in a natural environment, developing fodder farms using organic manure and pesticides, breeding through natural services, an efficient health care service, a hygienic and modern method of milking, storage and transportation of milk using cold chain, processing through the use of modern technology and an effective marketing strategy.

The East Khasi Hills District Cooperative Milk Union Ltd. Shillong, commonly known as the Shillong Milk Union, was tasked with the formulation of a Detailed Project Report to develop Dairying in the District and at a later point, to other districts of the state.

## 2. RATIONALE FOR A FOCUSED MISSION:

The present method of assessing the quality is primitive. A Rate chart, based on quality (fat and SNF) has not been introduced so, fixed rate per litre of milk is paid. Once we with over to a Rate chart systems, the procurement quality will go up.

- There is a necessity to install Bulk Milk Coolers (BMCs), electronic milk testing equipment and automated milk collection units (AMCU) at DCS to ensure proper and regular testing of milk at DCS level. It will help in ensuring fairness and transparency and check adulteration of water in the milk. It is also essential to develop a mechanism for incentivizing good quality milk and imposing penalty for poor quality milk. At this time, there is hardly any capacity to undertake such tasks at the DCS level.
- Even the number of the DCS is very limited and there is scope for increasing the numbers even more and starting new cooperatives through training and exposure is also necessary. Based on the feasibility, a network of Bulk Milk Coolers also will have to be set up in clusters to initiate milk procurement in the evenings.
- Efforts also will have to be made to renovate/refurbish dairy plants to ensure milk quality and to build the capacities of the members through exposure visits/training and awareness campaigns regularly.
- Genetic up-gradation of local Indigenous cattle with high yielding indigenous cows such as Gir, Sahiwal, Red Sindhi, Rathi, Tharparkar etc., is important for a state like Meghalaya with limited diversity of animal wealth. There is also a necessity to introduce community ranches, to provide for veterinary services to the cattle at one place, efficiently.
- Feed and fodder farms are going to be needed for milch cattle, especially during off season.
- Specific efforts will also need to be made to induct better packaging technologies and improve marketing networks and create a unique brand for the milk of Meghalaya.
- The necessity to create an institutional infrastructure for better delivery of Dairy related activities in the state of Meghalaya, is acutely felt. The necessity to have a regular structure, manned by professional can never be under-estimated.

For the above reasons, it has been felt by the Government that a dedicated Mission be launched.

### **3. OBJECTIVES OF THE MISSION**

Dairy farming is not just a source of livelihood but there is also a lot of science behind the rearing of the animals. It is as much an art as it is science. To educate and train the farmers to produce hygienic milk, to increase productivity and thereby rural prosperity, the Mission have its objectives clearly laid down.

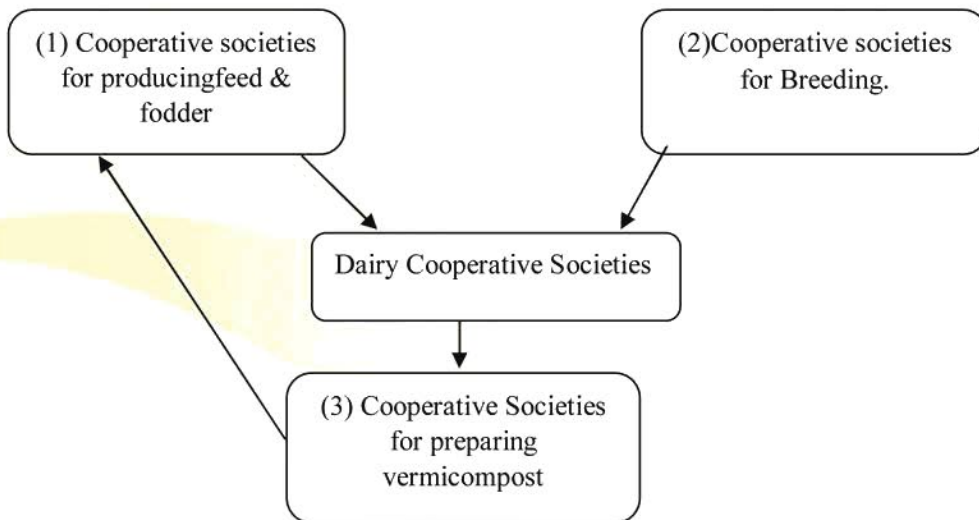
- To generate livelihoods through milch cattle, for the rural people of Meghalaya.
- To rear and breed good quality indigenous milch breeds (Gir, Sahiwal, Red Sindhi, Rathi, Tharparkar etc.) so the genetic strength of the animal breeds is properly utilized for the welfare of the state.
- To create and build the capacities of dairy cooperatives.
- To educate, train and encourage youth, to get into dairy farming to produce hygienic milk through indigenous breeds and make Meghalaya self-sufficient.
- To upgrade the local milch cattle by breeding them selectively so the strengths of superior strains will transfer to the native breeds.
- To provide for forward and backward linkages to Dairy farmers and create a viable set of entrepreneurial activities suitable for the youth of the state.

#### 4. PROJECT COMPONENTS:

##### (i) Induction of Cattle/Setting up of dairy farms:

10,000 Indigenous cows, namely (**Gir, Sahiwal, Red Sindhi, Rathi, Tharparkar, etc.**) Cross breeds will be procured under the project to be given to 2000 farmers with an average number of 5 animals/member of the DCS. More preference will be given to farmers willing to induct high yielding indigenous breeds of animals. Other infrastructure facilities like construction of shed, store room, chaff cutter, feeding troughs/pails, milk cans, and milking machines are also included. The project will be implemented in a phased manner over a period of 4 years i.e. 2018-19, 2019-20, 2020-21 & 2021-22 and the procurement process will be done in consultation with the DCS. (The MGNREGS convergence has been worked out for the construction of the shed). The project will encourage the rearing of indigenous high yielding milch cows, by educating and training farmers in breeding and genetic up-gradation of the local cows over a period of time by forming cooperatives.

**Affiliated and ancillary activities:** Farmers will also be trained to adopt management practices required to produce organic milk by giving feed and fodder free from pesticides, synthetic fertilizers or antibiotics. Organic milk can be achieved by rearing indigenous cattle in a thoroughly natural environment i.e. cattle are raised on pastures or with feed/fodder that comply with organic standards. An integrated approach as shown below will be followed for stable and sustainable dairy development for milk production.



Under the integrated approach, cooperative societies will be developed over a period of time for producing conventional milk as well as organic milk. Cooperative Societies for producing organic feed and fodder (1) will be formed for providing required feed/fodder to Dairy cooperative societies at reasonable rates. Also, these societies will use vermicompost, prepared by the societies.

The Project will also undertake development of Community Ranches at village level, for maintaining a big herd of cattle in an efficient manner. As Dairying is adopted by small and marginal farmers, residing in the outskirts of towns and with limited availability of land, adoption of “Community Farming” in the outskirts of Shillong and other Districts, will be a viable option to achieve the desired results. It is only when the Dairy Farmers are made aware of the proper rearing techniques; the quantity and quality of milk will improve. Community Farming will address to the land problems, as well as the utilisation of modern techniques, will help in better rearing of dairy animals. Apart from that, provision of veterinary services will be easier and cost-effective.

**Project Cost for this component is ₹ 19,640.00 lakhs**

**(ii) Strengthening of chilling infrastructure:**

To strengthen the present milk collection system of region and for increasing the shelf life of milk, installation of 79 bulk milk coolers of 500 litre capacity at potential milk collection centres, is envisaged. Along with BMCs, installation of Automated



Milk Collection Units (AMCU) and Electronic Milk Adulteration Testing equipment are also proposed for ensuring proper and regular testing of milk at DCS level. Purchase of 13 milk tankers of 3000 litre capacity is also proposed in the project for timely procurement of milk from collection centres. It will help in ensuring fairness and transparency and a good check on the adulteration with water and other adulterants in milk. It is also essential to develop a mechanism for incentivising good quality milk and imposing penalty for poor quality milk. Proposed chilling infrastructure will be installed over a period of 4 years. Initially the chilling infrastructure and other facilities will be developed in East Khasi Hills District and later on it will be established in other districts of the State.

**Project Cost for this component is ₹ 1,385.75 lakh.**

**(iii) Manpower Development & Training:**

Awareness programmes will be organised for encouraging farmers for forming village cooperative societies and take up the various activities related to increased milk production/ organic milk production for their development and employment generation. This will be done in a convergence mode, with the Cooperation Department.

Meghalaya Basin Development Authority (MBDA) is already engaged in activities of organising various meetings and awareness programmes among villages/villagers to educate them for forming Integrated Village Cooperative Societies (IVCS) for development. Integrating the IVCS with the present Milk Mission will be one agent that will be closely looked into.

Under the proposed project, Society members/chairman and farmers will be trained for increasing milk production and adopting management practices required for production of organic milk including farm management, fodder production, health care, breeding aspects, insurance etc. Training of para-vets, officials of A.H & Veterinary Department and other functionaries is also proposed under the project. Meghalaya Institute of Entrepreneurship (MIE) will be appointed as nodal agency for training the personnel /stakeholders involved in the proposed project for successful implementation of scheme. AH&V Department will be available for providing all the necessary inputs and services required by the farmers and cooperatives. For enhancing the capacity development of personnel of the district level Union LINAC, NCDC will be approached.

The State Government of Meghalaya will establish a Meghalaya Dairy Development Agency (DDA), a separate Agency for promoting dairy in the society. It is proposed that the project will initially be implemented in East Khasi Hills District in the first year and later on the project will expand to Ri-Bhoi, Jaintia Hills District, West and East Garo Hills District, year after year.

### **Project Implementation:**

The Meghalaya Dairy Development Agency (MDDA) will serve as PMV (Project Monitoring Unit) to monitor the project in terms of identification of beneficiaries, documentation, scrutiny of applications, collection of beneficiaries' contribution, procurement of animals, funds flow from NCDC and follow up, repayment of principal & interest, etc. It will also impart training to farmers, para-vets, Veterinary Doctors, Chairman/Secretary of Societies officials of milk unions and primary societies. It will furnish all the requisite information / progress reports of the project to NCDC as and when required, through State Government.

**1 % from the total project cost will be provided as corpus fund to the Dairy Development Agency.**

A Technical Management Committee will be formed by the DDA for purchase of animals and monitoring of the implementation of the project. East Khasi Hills District Milk Union will be the implementing agency of project in its district and later on the respective Milk Unions of districts of Jaintia Hills, Garo Hills & Ri-Bhoi Districts will be the implementing agencies for the project in their respective districts.

**1 % from the total project cost will be provided as corpus fund to the Shillong Milk Union, which may be appointed to other district Unions.**

**Beneficiary Selection:** Selection of beneficiary members will be done by respective milk unions and Chairman/Secretary of the society. While a detailed set of criteria for the selection of beneficiaries will be evolved, tentatively, the following parameters are indicated as the basis of beneficiaries.

1. Credit history
2. Ability to make share capital of contribution;
3. Repaying capacity;
4. Capacity to mortgage properties to secure loan, etc.

At the time of selection of beneficiary, they will be made aware of all the pros and cons of the project implementation, technical know-how and process of repayment.

### Pattern of Assistance:

NCDC pattern of assistance to the State Government will be as under:

(₹ in lakh)

S.No.	Particulars	NCDC pattern of assistance to government (%)	Amount
1	NCDC Loan	70%	15,083.79
2	CSISAC subsidy	25%	5,387.07
3	Total NCDC Assistance	95%	20,470.86
4	Members contribution*	5%	1,077.41
	<b>Total Project cost</b>	<b>100%</b>	<b>21,548.27</b>

\*50 % of the members contribution of 5% will be borne by the State Government as share capital contribution, through Cooperation Department.

### Repayment of loan:

The term loan of ₹ 15,083.79 lakh from NCDC to government will be repaid over a period of 8 years with first year as grace period. State Government will stand as Guarantor for the repayment of loan and to ensure timely repayment from beneficiaries on its own terms.

### 5. OTHER SCHEMES UNDER THE MISSION.

- A. The East Khasi Hills District Cooperative Milk Union Ltd. is implementing the **National Programme for Dairy Development (NPDD) for East Khasi Hills District** at a total cost of ₹ 1,103.46 lakh.

The main component of the scheme are:

- Upgrading the capacity the Existing Dairy Plant from 10 TLPD to 50 TLPD.
- Providing remunerative market to milk producers by organizing Cooperatives and thereby encourage them to enhance Milk Production.
- Expanding marketing of Milk and milk products to all Eleven Districts.
- Establishing effective linkage between Primary Dairy Cooperative and State A.H. & Veterinary Department to provide production enhancement services such as technical inputs, animal feeds, A.I. and animal Health Services.

- To generate additional employment opportunity.
- To improve social, nutritional and economic status of residents of comparatively more disadvantages areas.
- The State has banned the use of Chemical fertilizers since 2014 and the increased dairy farming is expected through this programme would give impetus to the organic farming.

**B.** Proposal had been submitted to the Government of India under the **National Programme for Dairy Development** for the following Districts:

- a. West Garo Hills District with an outlay of ₹ 18.43 Cr,
- b. West Jaintia Hills District with an outlay of ₹ 18.09 Cr and
- c. Ri Bhoi District with an outlay of ₹ 17.00 Cr.

The objectives are as follows:

- (i) Setting of new Dairy Plant.
- (ii) Avoiding economic losses to the farmers by procuring milk in time from them.
- (iii) Providing a remunerative market to milk producers by organizing Cooperatives and thereby encourage them to enhance Milk Production.
- (iv) Organizing Marketing of Milk in all Districts Headquarters of the State as well as Urban and Sub urban centres.
- (v) Establishing effective linkage Primary Dairy Cooperative and State A.H. & Veterinary Department to provide production enhancement services such as technical inputs, animal feeds, A.I. and animal Health Services.
- (vi) To manufacture various milk products as per market demand.
- (vii) To generate additional employment opportunity.
- (viii) To improve social, nutritional and economic status of residents of comparatively more disadvantages areas.
- (ix) To encourage clean milk production in the District.

## **6. FODDER DEVELOPMENT**

The Mission is designed to address the problems of scarcity of animal feed and fodder resources, to give a push to the livestock sector making it a competitive enterprise for the State. The Mission will especially focus on increasing both production and productivity of fodder and

feed through adoption of improved and appropriate technologies best suited to specific agro-climatic region in both arable and non-arable areas. Through the Mission convergence and linkages with the Department of Agriculture to develop nutritive fodder for Dairy animals will be effectively pursued.

#### **I. Green Fodder Production Enhancement**

Green fodder provides optimal source of nutrients for the livestock. However its availability in the state is limited. With the limited land under fodder cultivation, there is a need to focus to improve productivity of fodder crops and common grazing lands and demonstrate to conserve surplus green fodder to enhance availability during the lean period.

#### **II. Improved Fodder Seed Production**

Seed is the most critical input to enhance the productivity of fodder crops. To ensure supply of quality seeds to the farmers, production of fodder seeds will be enhanced

#### **III. Silage Making Demonstration**

To ensure year round availability of quality fodder silage making, a practice to conserve surplus quantity of green fodder, is to be popularised. Through silage making large quantity of green fodder can be preserved for longer period without significant loss of quality and palatability. Silage contains around 65-70 percent moisture and preserved due to fermentation of sugars available in the green fodder through anaerobic fermentation. Silage can be fed to livestock in place of green fodder.

#### **IV. Demonstration of Re-vegetation of Common Grazing Lands**

The grazing lands play an important role in the lives of rural people who are getting fodder, fuel, drinking water from such lands. However, such lands are being continuously degraded due to overgrazing and overexploitation by locals. Re-vegetation of such lands on scientific lines suiting to agro-climatic conditions is to be demonstrated through strengthening institutional arrangement at village level. Fodder production from such lands can be enhanced substantially by introducing high yielding cultivated fodder crops, grasses and pasture legumes. An integrated approach of growing cultivated crops, grasses, trees and shrubs under silvi-pastural/ horti - silvipasture system will improve overall productivity of such land.

The Mission aims to ensure efficient use of available fodder/feed, incorporating the following components:

- Setting of feed mills
- To strengthen of feed testing laboratories
- Introduction of chaff cutters
- To establish silage making units
- To demonstration of Azolla cultivation and production units
- To establish by-pass protein production units
- To demonstrate the use of Hydroponic.
- To establish Area Specific Mineral Mixture (ASMM)/feed pelleting/feed manufacturing units.

## 7. Targets

### a) Developing Community Ranch Model

As Dairying is adopted by small and marginal farmers, residing in the outskirts of town and with limited availability of land, development of “Community Ranches” in the villages will be a most viable option to focus upon, to achieve the desired results. It is only when the Dairy Farmers are trained and made aware of the proper rearing techniques, will the quantity, quality and clean milk be produced, which will in turn decrease the input costs and increase the output and revenue. Community Ranches will address the land problems and introduce modern techniques in rearing of the dairy animals, addressing most of the constraints and ease of monitoring by the implementing agencies. Listed below are a few points that will be taken up by the mission to improve animal health and milk production.

#### HOUSING:

- Separate housing for different stage of cattle (Calves, Heifer, Cow).
- Sufficient space for cattle to rest/ stand.
- Proper dung channel, drainage as well as dung pits.
- Separate milking parlour.
- Adequate air supply and disinfection of cattle sheds.
- Open area/space for pastures.
- Clean milk production.

#### FEEDING:

- Development of open Pastures (Silvi Pastures)
- Supply of good quality concentrate feed.
- Feeding schedule and proper rationing of feed to be fed to the animal based on milk production, age etc.
- Growing of Fodder plants.

#### WATER:

- Good and adequate drinking water to be supplied.
- Sufficient water to clean the sheds as well as the animals.
- Rain water harvesting can be done to conserve water as well as bore well.

#### VETERINARY SERVICES:

- Proper Vaccination schedule as well as deworming camp, etc. should be done.
- Isolation of treated cattle so that their attention can be taken care of.
- Regular check-up of cattle and basic Veterinary Services provision at village level.
- Proper management of AI and Veterinary Services.
- Proper record keeping.

#### ***b) Development of Integrated Community Dairy Farming Model***

Eventually the state will have to achieve organic milk production and development of integrated community dairy farm model aims at achieving the mission's goal.

The model aims at developing and formation of Dairy Cooperative Societies (DCS) on community lands to cater to all round Dairy Development by encouraging and motivating Dairy farmers to carry on the trade most suitable for them that will ultimately contribute to achieving an organic environment in the following:

- i) DCS for milk production.
- ii) DCS for growing feed and produce fodder.
- iii) DCS for production of organic fertiliser and pesticide through systematic and efficient waste management, from dung and urine respectively.
- iv) DCS for breeding through natural services.
- v) DCS to cater to the value addition of unproductive animals.
- vi) DCS for cultivation of fodder through Hydroponic.
- vii) DCS for growing of Azolla.





through the National Rural Livestock Mission (NRLM). Convergence with the Department of Agriculture for the development for Fodder Development will also be pursued by the Mission.

For the present, the Mission will focus in development and strengthening of the present Dairy Cooperative Societies (DCS), through convergence with the Department of Cooperation, whose success had been the main source of encouragement for the State Government to promote Dairy Development.

## **10. EMPLOYMENT GENERATION, CAPACITY BUILDING AND TRAINING**

### **Employment**

Through the various activities of Dairy Development, the Mission will provide direct and indirect employment to the youth of the state. Many youth will benefit from Dairy Farming activities, milk production, milk transportation through cold chain, milk processing, manufacture of milk products, transporting milk and milk products and marketing of the product so manufactured. Through the Mission, the Department will also encourage educated unemployed youth and assist them by providing training, technical guidance and quality control to develop entrepreneurship skill for homemade milk and milk products, like cheese, ice cream etc.

### **Training**

The Mission will also be imparting intensive training at the Department's Training Centres for the farming communities in various activities of Dairying and allied activities. Training as well as technical guidance including quality control, will also be imparted to the youth on homemade milk products. Entrepreneurship skill will also be developed amongst the youth in collaboration with the Meghalaya Institute of Entrepreneurship.

## **11. FORMATION OF THE MEGHALAYA DAIRY DEVELOPMENT AGENCY.**

The Meghalaya Dairy Development Agency will be formed and would be the nodal institution for promotion and development of Dairy and allied sectors in the State of Meghalaya. The Authority would promote all round development of Dairy Sector in Meghalaya by undertaking the following activities:

- i. To identify the training needs including value addition and skill development in the Dairy Sector including taking steps to prepare catalogue of types of skills, range and depth of skills to facilitate choice to individuals/groups.
- ii. To promote and develop the Dairy Sector and allied activities in the state of Meghalaya and make it competitive and sustainable for the economic growth of the state, rural development and creating opportunities for the citizens of the state.

- iii. To identify needs, design and develop interventions, build capacity of the intermediaries including NGOs, monitor and evaluate as well as conduct outcome and impact assessment of the interventions.
- iv. To promote entrepreneurship and enterprises in the dairy sector for the development of the state economy, food security and creation of opportunities in the rural and urban areas.
- v. To promote creation of District Milk Procurement & Marketing Agencies in the Districts.
- vi. To promote new Dairy Plants and Chilling Centres and strengthen the existing ones.
- vii. To promote and activate the DCS in the potential areas of Dairy Sector.
- viii. To identify the methods of bringing the milk processing in the organized sector.
- ix. To promote formation of Dairy SHGs in the potential milk producing areas of the State.
- x. To identify dairy sector markets, requirements of the products and their standards as well as create Institutional Interventions to facilitate access to markets, transportation, warehousing and trade of the products along with the access to funds for carrying out the required interventions
- xi. To identify the needs of technology for developing the market based products and also develop and /or support development of technology as may be identified from time to time.
- xii. To identify and facilitate the production and transportation of feed for the dairy sector through innovations and technology.
- xiii. To identify and facilitate the procurement of medical requirements including vaccines in the dairy sector.
- xiv. To build technology absorption capacity by creating interventions that will develop capacity of the stakeholders in the Dairy Sector including skills development of the entrepreneurs and service providers.
- xv. To build the quality standards, training, conduct examinations and certification for the producers and service providers and also standardization of processes across all activities in the Dairy Sector.
- xvi. To govern the Unions and Societies in the area of Milk collection and processing, dairy and allied sectors by acting as a regulatory authority or having an investment in the Unions.

- xvii. To set standards for quality check of the calves / feed / vaccination and other related items in order to maintain quality standard of the Dairy sector in the State.
- xviii. To undertake breeding of Cross Bred Cattle/Indigenous Cattle/Buffalo Cattle in the State and to share the knowledge with the stakeholders.
- xix. To build the capacity of the Dairy Sector to have access to funds and adequate insurance for the livestock and also engage the financial sector in the partnership for the development of the dairy sector.
- xx. To facilitate and participate in advocacy for the Government initiatives for the development of the Dairy sector and to support and /or partner in the implementation of the various schemes the Government launches from time to time both at the state and national level.
- xxi. To build strategic partnerships and alliances for access to markets, funds, technology, skills and practices by way of Memorandum of Understanding, Agreements, Collaborations, Joint Ventures etc, with various national and i n t e r n a t i o n a l agencies, Institutions, enterprises and individuals for the development of the Dairy sector and the attainment of the objectives of the Society.
- xxii. To borrow funds from the Government and its agencies, Banks, Financial Institutions, Venture Capitals and others for the purpose of activities in the attainment of the objectives of the Society.
- xxiii. To accept grants, donations, financial support and technical assistance from any national or international Government and its agency, national and multi-lateral Institution, Corporation, Company, Trust, Society and Foundations for the development of the livelihoods, environment and also for the investments in the interventions in the Dairy sector undertaken by the Society.
- xxiv. To manage assets given by the Departments and maintain full records of the same.
- xxv. To engage as and when required institutions, enterprises and individuals for the development of the dairy sector as advisors, consultants, managers and employees on such terms and conditions and payments as may be mutually agreed upon and in conformity with the national and international norms for such knowledge providers and their services.
- xxvi. To have investment and receive back money from the unions/federations/association in the form of fees/donation/charges/dividend as the name may be.
- xxvii. To become a member of any association/councils/unions as may be required for skill development in Dairy and allied Sector.

- xxviii. To employ/ engage/ take on deputation from other organizations including Appropriate Governmental Authority, temporarily or in regular employment, such professionals, skilled workers, technical advisors, consultants, managers or other persons in order to provide valuable inputs to further the object of the Society and to pay them such remuneration as may be considered expedient and commensurate with the Sector norms.
- xxix. To recruit trained manpower and source trainers and experts to ensure adequate participation by them in achieving the objects of the Society.

## **12. FUNDING PATTERN**

The Mission will be funded by the State and Central Governments through regular budget allocation. Funds may also be sought for from various Central Agencies viz. NCDC, NABARD, NDDDB, and such other funding Agencies. Through the Mission, Government Departments, DCSs, Milk Unions and the Meghalaya Dairy Development Authority will be funded to carry out various developmental activities to develop Dairying.

## **13. MISSION STRUCTURE & ADMINISTRATION**

The Department of Animal Husbandry & Veterinary, will be responsible for the Dairy Development under the Mission in the State. The Meghalaya Dairy Development Agency will be the Agency earmarked for the implementation of various development schemes through the Milk Unions and DCSs, to promote the dairy sector in the state.

## **14. MONITORING & EVALUATION**

The Department of Animal Husbandry and Veterinary will be the Monitoring and Evaluation authority of the Mission. The Department may at its discretion involve the various governmental establishment to monitor and evaluate the activities of the Mission and make recommendations. Some of the reputed establishment located in the state where assistance can be sought for viz. The North Eastern Hills University (NEHU), Indian Institute of Management (IIM), Indian Council for Agricultural Research (ICAR), National Institute of Technology, etc.

RASHTRIYA SAHAKARI VIKAS NIGAM  
NATIONAL COOPERATIVE DEVELOPMENT CORPORATION  
(Poultry Dairy & Livestock Section)

FAX : (011) 26965247  
PHONE : (011) 26859312  
Email :  
File No.NCDC:2-3/2018-PDLs/49/SA80033

4, Siri Institutional area  
Hauz Khas, NEW DELHI - 110 016

Dated: 08 /06/2018

From: MANAGING DIRECTOR, NCDC

To

The Commissioner & Secretary  
Government of Meghalaya  
Animal Husbandry and Veterinary Department  
Shillong  
Meghalaya

Sub: Central Sector Integrated Scheme for Agricultural Cooperation (CSISAC)- Sanction of financial assistance to Government of Meghalaya for purchase of Cattle for setting up Dairy Farms, strengthening of Chilling infrastructure and Manpower Development and Training under Meghalaya Milk Mission – Sanction of assistance-Regarding

Sir,

I am directed to refer to the State Government's letter No. VET(G)67/2018/77 dated 01.06.2018 on the above subject and to convey the approval of this Corporation for sanction of financial assistance of ₹204.71 crore ( Rupees Two Hundred and Four crore Seventy One lakh only) comprising loan of ₹150.84 crore and CSISAC Subsidy of ₹53.87 crore (subject to availability from GOI) towards induction of Cattle/setting up of Dairy Farms, strengthening of Chilling infrastructure and Manpower Development and Training under Meghalaya Milk Mission by East Khasi Hills District Cooperative Milk Union, Shillong, Meghalaya at a total block cost of ₹215.48 crore. Sanction will be against the (i) approval of Finance Department, State Government of Meghalaya, for the loan and (ii) hypothecation of all assets including cattle to NCDC.

2. The item wise details of block cost recommended by State Government and approved by NCDC are as under:-

(₹ In lakh)

S. No.	Components	Unit cost	Units/Nos.	Total cost
1	Induction of animals-setting up of dairy farms	9.82	2,000	19,640.00
2	Chilling Infrastructure with AMCU & Electronic Milk Testing Equipment's (BMC-500 Litre)	14.25	79	1,125.75
3	Milk Tankers(3000 litres capacity)	20.00	13	260.00
4	Training- Farmers/Society Members/beneficiaries	5,000	2,000	100.00
5	1% of the total Project cost as Corpus Fund to the Dairy Development Agency			211.26

6	1% of the total Project cost as Corpus Fund to the Shillong Milk Union			211.26
	<b>Total</b>			<b>21,548.27</b>
	<b>Or Say</b>			<b>215.48crore</b>

The cost details of component 1&2 are given at Annexure-1&2 respectively.

3. The project will be financed under the Central Sector Integrated Scheme for Agricultural Cooperation (CSISAC). The approved pattern of funding will be as under:

(₹ In lakh)		
Particulars	% of project cost	Amount
Total Project Cost	100%	215.48
Loan	70%	150.84
Subsidy*	25%	53.87
Total NCDC Assistance	95%	204.71
Beneficiary contribution#	5%	10.77

\*Subject to availability from Government of India.

#50% of the member contribution of 5% will be borne by the State Government as share capital contribution.

4. Terms and Conditions of assistance

The assistance sanctioned is subject to the following terms and conditions.

a. Period of loan

The loan shall be for a period of 8 years with one year moratorium in respect of repayment of principal. There shall be no moratorium on payment of interest.

b. Interest rate

The loan shall carry rate of interest prevailing at the time of actual release of funds. Interest shall be charged on monthly compounding basis and compounding shall be done on the last day of each month. Payment of interest shall be made in yearly installment and at the time of repayment of loan. Presently, the effective rate of interest is 10.25 %. In case payment of installment is not received on or before due date, normal rate (effective + 1%) would be applicable. In case of default in payment of installment, penal interest @ 2.5% will be levied over and above the normal rate of interest on the defaulted installments of principal amount and accrued normal interest for the period of delay. The other terms and conditions of the Corporation shall be according to NCDC letters No.NCDC:1-1/84-Budt. dated 15/10/1984 and NCDC: 1-1/1990-Budt. dated 27.03.2018 and as amended from time to time and other terms & conditions as laid down by GOI.

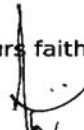
c. Release from NCDC

All releases will be in the form of reimbursement i.e. the State Govt. shall release assistance to the Federation and claim reimbursement from the Corporation.

i. First release of ₹51.18 crore as ways and means advance i.e. 25% of NCDC's assistance comprising ₹37.71 crore as loan and ₹13.47 crore as CSISAC subsidy will be made after the State Govt. has issued the administrative orders and released similar amount to the Union.


- ii. Further releases will be based on the progress of the project in relation to the actual expenditure (including beneficiary contribution), to be furnished as per Annexure-3, along with request for reimbursement.
  - iii. Subsidy will be subject to availability from Govt. of India otherwise, it will be released as loan from NCDC.
  - d. Validity of Sanction  
The sanction is valid up to 30/06/2022 by which date the State Government shall ensure completion of the project in all respects and drawal of the entire assistance from the Corporation. The project shall be implemented over a period of 4 years ie. 2018-19, 2019-20 & 2021-22 as per Annexure-4.
  - e. Utilisation  
The State Government should ensure that the assistance is utilised by the Society for the purpose for which it is sanctioned and there is no deviation in the project without prior approval of NCDC.
  - f. Cost Escalation  
Any escalation in cost beyond the approved cost should be met by the State Government/ Society.
  - g. Reporting  
The Union/State Government shall furnish quarterly progress reports on implementation of the project to NCDC in the prescribed format Annexure-3 and furnish to the Corporation such reports or any other information called for by the Corporation from time to time and afford facilities to the officers of the Corporation and / or its representative to inspect the accounts / records of the Society and to review the working of the Society.
  - h. Foreclosing of assistance  
The Corporation reserves the right to foreclose and recall assistance from the State Government at any time if any of the above mentioned conditions are not complied with.
  - i. Client Feedback Form  
The State Govt./Federation Should furnish Client Feedback Form in the format enclosed Annexure-5 to the Corporation.
5. The receipt of this letter may please be acknowledged.

Yours faithfully,

  
(Ashok B. Pillai)  
Chief Director (PDLS)  
For Managing Director

**Copy to:**

1. P.S. to the Minister i/c Animal Husbandry & Veterinary Department, Shillong, Meghalaya
2. Chief Secretary to the Government of Meghalaya, Shillong, Meghalaya
3. Agricultural Production Commissioner, Shillong, Meghalaya
4. Principal Secretary (Finance), Government of Meghalaya, Shillong, Meghalaya.
5. Registrar of Cooperative Societies, Shillong, Meghalaya
6. The Director, A.H.& Veterinary Department, Shillong, Meghalaya
7. The Managing Director, East Khasi Hills District Cooperative Milk Union Ltd., Shillong, Meghalaya
8. Department of Agriculture, Cooperation and Farmers' Welfare, Ministry of Agriculture and Farmers' Welfare, Krishi Bhavan, New Delhi-110001
9. The Regional Director, NCDC, Guwahati.
10. Accounts/Budget Section/PR Section, New Delhi.
11. Guard File



(Ashok B. Pillai)  
Chief Director (PDLS)  
For Managing Director



National Cooperative Development Corporation  
(Poultry, Dairy & Livestock Division)

**Annexure-1**

Annexure-1 to NCDC's Sanction letter No. NCDC:2-3/2018-PDLS/49/SA80033  
dated 08/06/2018

**Unit cost of 1 Dairy farm with 5 milch animals and other facilities**

(Rs. in  
lakh)

S.No.	Parameters	No.of units	Cost/unit in Rs.	Total cost
<b>A</b>	<b>Capital cost</b>			
1	Purchase of cross bred cows	5	80,000.00	4.00
*2	Construction of animal shed (50sq. Ft per adult)	300 sq. ft	500.00	1.00
3	Construction of store room for fodder	150 sq. ft	500.00	0.75
4	Transportation cost (Rs. per animal)	5	7,000.00	0.35
5	Cost of Chaff cutter and equipment (pail, trough, milk can etc.)	1	50,000.00	0.5
6	Insurance premium @ 4.5% per annum	5		0.18
	<b>Total (A)</b>			<b>6.78</b>
<b>B</b>	<b>Recurring expenditure</b>			
1	Cost of fodder- during lactation( 15 kg/day for 305 days)	5	Rs.12/kg	2.70
2	Cost of fodder- during dry period( 7.5 kg/day for 65 days)	5	Rs.12/kg	0.29
3	Veterinary Aid( Rs. 1000/animal/year)	5	Rs.1000/animal/year	0.05
	<b>Total (B)</b>			<b>3.04</b>
	<b>Total (A+B)</b>			<b>9.82</b>

\*₹0.50 lakhs of the actual cost will be met through convergence from MGNREGS

## **Annexure-2**

### **Unit cost of BMC 500 ltr. Capacity**

(Rs. in lakh)

S.No.	Particulars	Models
	BMC capacity (in litres)	500
1	Cost of BMC + AMCU +DG Set	8.50
2	Civil works	1.50
3	Electronic milk testing equipments	4.25
	<b>Total</b>	<b>14.25</b>

### **Chilling infrastructure facilities**

(Rs. in lakh)

S.No.	Component/Activity	Unit Cost	Units	Total Cost
1	Chilling Infrastructure with AMCU & Electronic Milk Adulteration Equipment (BMC-500 ltr)	14.25	79	1125.75
2	Milk Tankers (3000 ltr. Capacity)	20.00	13	260.00
	<b>Total</b>			<b>1385.75</b>

**Physical & Financial Progress of Meghalaya Milk Mission  
Progress Report as on .../.../20...**

(Rs. in lakhs)

Sl.	Scheme	Approved			Utilisation (as on _/_/_)		Total	
		Unit Cost	No./Units	Total Cost	Units	Amount	Units	Amount
1	Induction of animals-setting up of dairy farms	9.82	2,000	19,640.00				
2	Chilling Infrastructure with AMCU & Electronic Milk Testing Equipments (BMC-500 Litre)	14.25	79	1,125.75				
3	Milk Tankers(3000 litres capacity)	20.00	13	260.00				
	<b>Total (A)</b>			<b>21,025.75</b>				
<b>B Training</b>								
1	Training Farmers/Society Members/beneficiaries	0.05	2,000	100.00				
2	Training- A.H. & Veterinary Officers Dairy Development Officers and other officials	0.00	0	-				
3	1% Corpus Fund for Dairy Dev.Ay	211.26		211.26				
4	1% Corpus Fund for Milk Union	211.26		211.26				
	<b>Total (B)</b>			<b>522.52</b>				
	<b>Grand Total (A+B)</b>			<b>21,548.27</b>				
	<b>Say</b>			<b>215.48 crore</b>				

**Project Funding**

(Rs. in crore)

S.No.	Source of Funds	%	Approved	Funds actually raised
1	NCDC Loan	70%	150.84	
2	CSISAC subsidy*	25%	53.87	
3	NCDC assistance	95%	204.71	
4	Beneficiary contribution	5%	10.77	
5	<b>Total</b>	<b>100%</b>	<b>215.48</b>	

\*subject to availability from Government of India

**Assistance already released and now sought from NCDC**

Rs. in crore

S.No.	Particulars	Amount already released	Amount sought now
1	Loan		
2	Subsidy		
	<b>Total</b>		

Date:

Managing Director  
East Khasi Hills District Cooperative Milk  
Union, Ltd., Shillong

## Project Cost, Phasing and Pattern of Funding.

Sl.	Scheme	Unit	Physical Phasing					Financial Phasing (Rs. In lakh)					NCDC Assistance															
			Total	Yr-1	Yr-2	Yr-3	Yr-4	Total	Yr-1	Yr-2	Yr-3	Yr-4	Total	Loan @	Sub @	Total @	Beneficiary contribution @											
A.	Component	Cost																										
1	Induction of animals-setting up of dairy farms	9.82	2,000	400	600	600	400	2,000	20%	30%	5,892.00	3,928.00	20%	100%	19,540.00	13,748.00	28%	4,910.00	18,558.00	982.00	8%	100%	19,540.00					
2	Chilling Infrastructure with AMCU & Electronic Milk Testing Equipments (BMC-500 Litre)	14.85	79	16	24	23	16	79			342.00	228.00			1,125.75	788.03		281.44	1,069.46					58.29	1,125.75			
3	Milk Tankers(3000 litres capacity)	20.00	13	3	4	4	2	13			80.00	80.00			260.00	182.00		65.00	247.00						13.00	260.00		
	<b>Total (A)</b>														<b>21,025.75</b>	<b>14,716.03</b>		<b>5,296.44</b>	<b>19,974.46</b>						<b>1,051.29</b>	<b>21,025.75</b>		
B.	Training																											
1	Training - Farmers/Society Members/beneficiaries	0.05	2,000	400	600	600	400	2,000			30.00	30.00			100.00	70.00		25.00	95.00							5.00	100.00	
2	Training- A.H. & Veterinary Officers	0.00	0	0	0	0	0	0																				
3	Dairy Development Officers and other officials	211.26																										
	<b>Total (B)</b>														<b>211.26</b>	<b>147.88</b>		<b>52.81</b>	<b>200.69</b>							<b>10.56</b>	<b>211.26</b>	
4	1% Corpus Fund for Milk Union	211.26													<b>211.26</b>	<b>147.88</b>		<b>52.81</b>	<b>200.69</b>							<b>10.56</b>	<b>211.26</b>	
	<b>Total (A+B)</b>							<b>2,000</b>							<b>21,548.27</b>	<b>15,053.79</b>		<b>5,387.07</b>	<b>20,470.85</b>							<b>1,077.41</b>	<b>21,548.27</b>	

**NCDC**  
**CLIENT FEEDBACK (For and on behalf of MD)**

To,

Sir,

Your organization is a valuable client of ours, we at NCDC were privileged to serve you. You are requested to kindly give us your free and fair feedback in the format below. This is required as a part of our ISO 9001:2015 based systems for our improvement so that we can provide you better services in future. We request you to please spare a few moments for us for this.

Thanking you

Yours faithfully,

Client Feedback Form

Feedback on \_\_\_\_\_

(Name of the project)

Type of Service Availed (PI tick)

a.Sanction ( )

b.Legal Documentation ( )

c. Release of funds ( )

Sl. No.	Area of Service	Excellent 5	Very good 4	Good 3	Satisfactory 2	Poor 1
A	Guidance/Clarification provided was prompt, clear and adequate					
B	Overall services provided by NCDC					
( Please tick :√ )						
C	Would you like to avail financial assistance from NCDC in future ?	Yes	Most likely	No		
D	Would you recommend other cooperatives to avail the services from NCDC ?	Yes	Most likely	No		

In case of "No" for C & D, please specify the reasons.  
Suggestions/Comments, if any:

To  
MD, NCDC

Signature:  
Name:  
Organization:  
Designation:  
Date:

QF.09/00



राष्ट्रीय सहकारी विकास निगम

(ISO 9001:2015 प्रमाणित संगठन)

**NATIONAL COOPERATIVE DEVELOPMENT CORPORATION**

(An ISO 9001:2015 Certified Organisation)

(A Statutory Corporation Under Ministry of Agriculture & Farmers Welfare, Govt. of India)

**NCDC**

No. NCDC/ 09(MEG) 08/2018(GWT)

Dated: 15.06.2018

To

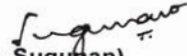
The Commissioner & Secretary  
Government of Meghalaya  
Animal Husbandry and Veterinary Department  
Shillong  
**Meghalaya**

Sub: Central Sector Integrated Scheme for Agricultural Cooperation (CSISAC) Sanction of financial assistance to government of Meghalaya for purchase of Cattle for setting up Dairy Farms, strengthening of Chilling infrastructure and Manpower Development and Training under Meghalaya Milk Mission Sanction of assistance - Regarding

Sir,

Please find enclosed a Corrigendum bearing No. NCDC: 2-3/2018-PDLS dated 15.06.2018 to NCDC sanction letter No. NCDC: 2-3/2018-PDLS/49/SA80033 dated 08.06.2018 on the above subject for information and further needful action of the state Govt. of Meghalaya.

Yours faithfully,

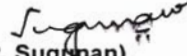
  
(M.P. Sugunan)

Regional Director (NE)

Encl: As above.

Copy to:

1. The Director, A.H & Veterinary Department, GS Rd, Mawkhar, Shillong, Meghalaya - 793002
2. Deputy Secretary (AH & Vety), Meghalaya, Shillong-793001
3. The Managing Director, East Khasi Hills District Cooperative Milk Union Ltd., Shillong, Meghalaya

  
(M.P. Sugunan)

Regional Director (NE)

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क्षेत्रीय निदेशालय (उ.पू. क्षेत्र), बोरा सर्विस स्टेशन बिल्डिंग, जी. एस. रोड, उलुबारी, गुवाहाटी - 781007  
Regional Directorate (N.E. Region), Bora Service Station Building, G.S. Road, Ulubari, Guwahati - 781007  
दूरभाष/Phone: 0361-2526327, 0361-2453696 फेक्स/ Fax: 0361-2525427  
ईमेल/e-mail: RO:Guwahati@ncdc.in, वेबसाइट/ Website: www.ncdc.in

RASHTRIYA SAHAKARI VIKAS NIGAM  
NATIONAL COOPERATIVE DEVELOPMENT CORPORATION  
(Poultry Dairy & Livestock Section)

FAX : (011) 26965247  
PHONE : (011) 26859312

4, Siri Institutional Area  
Hauz Khas, NEW DELHI - 110 016  
Website: [www.ncdc.in](http://www.ncdc.in)

No.NCDC:2-3/2018-PDLS/  
From: MANAGING DIRECTOR, NCDC

Dated: 15/06/2018

To  
The Commissioner & Secretary  
Government of Meghalaya  
Animal Husbandry and Veterinary Department  
Shillong  
Meghalaya

Corrigendum

Sub: Central Sector Integrated Scheme for Agricultural Cooperation (CSISAC)-  
Sanction of financial assistance to Government of Meghalaya for purchase of  
Cattle for setting up Dairy Farms, strengthening of Chilling infrastructure and  
Manpower Development and Training under Meghalaya Milk Mission -  
Sanction of assistance-Regarding

Ref: NCDC sanction letter No. NCDC:2-3/2018-PDLS/49/SA80033 dated 08/06/2018

Sir,

I am directed to state that para 3 of above referred NCDC sanction letter may please be read as follows:

The project will be financed under the Central Sector Integrated Scheme for Agricultural Cooperation (CSISAC). The approved pattern of funding will be as under:

Particulars	₹ in crore)	
	% of project cost	Amount
Total Project Cost	100%	215.48
Loan	70%	150.84
Subsidy*	25%	53.87
Total NCDC Assistance	95%	204.71
Beneficiary contribution#	5%	10.77

\*Subject to availability from Government of India.  
#50% of the member contribution of 5% will be borne by the State Government as share capital contribution.

Yours faithfully,

(Ashok B. Pillai)  
Chief Director (PDLS)  
For Managing Director

2018-6-18 10:17

## Copy to:

1. P.S. to the Minister i/c Animal Husbandry & Veterinary Department, Shillong, Meghalaya
2. Chief Secretary to the Government of Meghalaya, Shillong, Meghalaya
3. Agricultural Production Commissioner, Shillong, Meghalaya
4. Principal Secretary (Finance), Government of Meghalaya, Shillong, Meghalaya.
5. Registrar of Cooperative Societies, Shillong, Meghalaya
6. The Director, A.H.& Veterinary Department, Shillong, Meghalaya
7. The Managing Director, East Khasi Hills District Cooperative Milk Union Ltd., Shillong, Meghalaya
8. Deputy Secretary (Cooperation), Department of Agriculture, Cooperation and Farmers' Welfare, Ministry of Agriculture and Farmers' Welfare, Krishi Bhavan, New Delhi-110001
9. The Regional Director, NCDC, Guwahati.
10. Accounts/Budget Section/PR Section, New Delhi.
11. Guard File

(Ashok B. Pillai)  
Chief Director (PDLS)  
For Managing Director

2018-6-18 10:17





**Awareness  
Programme**



**Cow shed**



**Feed**

**Fodder  
Cultivation**



**Azolla Cultivation  
at DCS**

**Bulk Milk  
Coolers  
for DCS**



## Adulteration Testing Kit



## Automatic Milk Collection Unit



## DCS Building



**Road Milk Tanker**

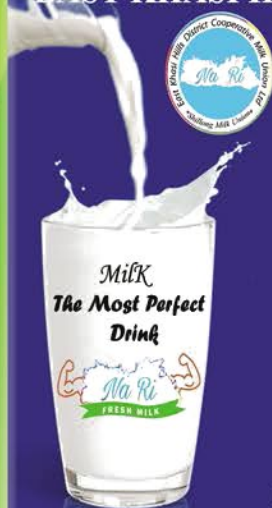
**Milk  
Processing**



**Milk and  
Milk Product**



## EAST KHASI HILLS DISTRICT CO-OPERATIVE MILK UNION LTD.



### BENEFITS OF DRINKING MILK

**LACTOSE** : gives energy/ ka ai bor.

**FAT** : enhances taste/ ka nangkham pynbang.

**milk Protein** : a body building agent and repairs muscle tissue/  
ka tei iaka met bad pynbha ia ki dohksah.

**Ca** : builds healthy bones and teeth/  
ka pynbha iaki shyieng bad ki bniat.

**MILK vitamins** : improves the immune system, normal vision and skin.  
Enhances healthy red blood cells and nerve tissue/  
Ka ai bor iaka met, pynbha ia ki khmat bad sniehdoh.  
Ka pynbha ia ka snam bad ki thjed ki jaw.