

CHAPTER - I

AGRICULTURE & ALLIED SERVICES

1.1 CROP HUSBANDRY

1.1.1 The Outlay for the 12th Five Year Plan (2012-2017) under Crop Husbandry is ₹ 32950.00 lakh. The Actual expenditure during 2014-15 was ₹ 1541.68 lakh. The Available Outlay and anticipated expenditure during 2015-16 is ₹ 2055.00 lakh. **The tentative Budgeted Outlay during 2016-17 under Crop Husbandry is ₹ 5000.00 lakh.**

The important schemes being implemented under Crop Husbandry are Implementation RTI Act (Agriculture), Seed Farms, Seed Testing laboratory, Soil Testing Laboratory, State Soil Survey Organization, Provision to MECOFED, Bio-Control Laboratory, State Pesticide Testing Laboratory, Winter Cropping & Development of Cultivable Land, Maize Development through cluster approach, Organic Manure, Plant Protection including IPM, Integrated Farming of Micro Watershed, State Rice Mission, Ramie Crop, Agriculture Information Units, Farmers Institute (including clusters), Basic Agriculture Training Centre, Support to State Extension Reforms (SS), Training of Educated Rural Youth for Promotion of Self Employment through Farm Based Activities, Terra Madre Conference, Integrated Agriculture Training Centre (IATC), Land Use Survey, Implementation of E-governance, Agriculture Economics & Statistics, Agriculture Engineering (Mechanical), Agriculture Engineering (Workshop), Corpus Fund on Crop Insurance (RKBY), Assistance to Krishi Vigyan Kendras (KVK), Agriculture Studies, Agriculture Research Stations & Laboratories, Research Project on Rice-AICRIP (SS), National Food Security Mission (CSS), Rainfed Area Development (RAD) (CSS), Soil Health Card (CSS), Sub-Mission on Agriculture Extension (SMAE) (CSS), National e-Governance Plan for Agriculture (NeGP-A) (CSS), Sub-Mission on Seeds & Planting Material (SMSP) (CSS), Sub-Mission on Agricultural Mechanization (SMAM) (CSS) and Agriculture Census (Central Sector).

New initiative under the Crop Husbandry during 2016-17 is for Promotion of entrepreneurship for women and youth based on contract farming.

1.1.2: Agricultural Research & Education: The Department's Research Wing is engaged in adaptive trials of crop varieties and is equipped for crop research and development (R&D) activities. The Outlay under the Agricultural Research & Education during the 12th Five Year Plan (2012-2017) is ₹ 1500.00 lakh. The actual expenditure during 2014-15 under the Agriculture Research & Education was ₹ 99.44 lakh and the Available Outlay and anticipated expenditure during 2015-16 is ₹ 95.00 lakh. **The Tentative Budgeted Outlay during 2016-17 under the Agriculture Research & Education is ₹ 200.00 lakh.**

1.1.3: Agricultural Financial Institutions : The Outlay under the Agricultural Financial Institutions during the 12th Five Year Plan (2012-2017) is ₹ 200.00 lakh. The Actual Expenditure during 2014-15 under the Agriculture Financial Institutions was ₹ 20.00 lakh. The Available Outlay and anticipated expenditure during 2015-16 is ₹ 20.00 lakh. **The Tentative Budgeted Outlay during 2016-17 under the Agriculture Financial Institutions is ₹ 25.00 lakh.**

1.2 HORTICULTURE

1.2.1 Horticulture: The Outlay for the 12th Five Year Plan (2012-2017) under Horticulture is ₹ 28500.00 lakh. The Actual expenditure during 2014-15 was ₹ 6470.88 lakh. The Available Outlay and anticipated expenditure during 2015-16 is ₹ 12265.00 lakh. **The Tentative Budgeted Outlay during 2016-17 under Horticulture is ₹ 9940.00 lakh.**

1.2.2 The important schemes implemented by the Department are Direction and Administration, Right to Information, Organic Manure, Plant protection, National Mission on Oil Seed and Oil Palm (NMOOP), Plantation Crop Development, Spices Development, Tuber crops, Regional Centre for Training and production of Mushroom, Indigenous Crops Development, Tea Development Scheme, Horticultural Information Scheme, Capacity Building of Departmental Personnel, Establishment of Practical innovative training centre, Implementation of e-Governance, Agriculture Economics and Statistics, Mission organic, Vegetable Development Scheme, Grand-in-Aid to Agriculture Horticulture Society, Development and Maintenance of Orchard Cum-Horticulture Nursery, Fruit Development Scheme, Establishment of Directorate Horticulture, Floriculture Development Scheme, Development of Strawberry Cultivation, Vegetable Garden, Maintenance of Horticulture Hub, Fruit Processing, Post Harvest Management, Farmers markets and Laybye markets.

1.2.3 Agricultural Marketing: Agricultural Marketing plays a vital role in the development of rural economy. A properly organized marketing ensures remunerative returns to the farmers for their produce and in turn helps to augment production. Meghalaya has immense for development of horticulture through diversification and intensification of production plans. The Outlay under the Agricultural Marketing during the 12th Five Year Plan (2012-2017) is ₹ 6000.00 lakh. The actual expenditure during 2014-15 under the Agriculture Marketing was ₹ 300.00 lakh. The Available Outlay and the anticipated expenditure during 2015-16 is ₹ 285.00 lakh. **The Tentative Budgeted Outlay during 2016-17 under the Agriculture Marketing was ₹ 1750.00 lakh.**

1.3 SOIL AND WATER CONSERVATION

1.3.1 The Outlay for the 12th Five Year Plan (2012 -17) is ₹ 95,500.00 lakh. The actual expenditure during the First Three Years of the 12th Five Year Plan (2012-17) was ₹ 18080.81 lakh The Available Outlay during the Annual Plan 2015-16 is ₹ 3810.00 lakh and is expected to be fully utilized. **The Tentative Budgeted Outlay for the Annual Plan 2016-17 is ₹ 15900.00 lakh which includes ₹ 900.00 lakh of NABARD Loan, ₹ 12000.00 lakh for CSS including PMKSY, ₹ 700.00 lakh under Article 275(1), ₹ 500.00 lakh Convergence with CLEMP, ₹ 500.00 lakh for other Convergence Programme.**

1.3.2 Achievement during 2015-16 : During 2015-16, under Soil & Water Conservation Schemes in General Areas, 2379.5472 hectare was maintained for the existing plantations under Cash/Horticultural Crops Development Works. The total expenditure under the above schemes is ₹ 179.90 lakh. With support of NABARD Loan, 5 nos. River Valley Projects under RIDF-XVI and 10 nos. under RIDF-XX were implemented and the expenditure incurred is ₹ 1199.27 lakh. 13647 hectare was covered under Integrated Watershed Management Programme (IWMP) and the expenditure incurred is ₹ 2047.06 lakh.

1.3.3 Important programmes under the Sector for the 2016-17 can be seen as follows:-

(i) The World Bank supported Community Led Ecosystem Management Project is being taken up for implementation in the State. Various ongoing initiatives for natural resource rejuvenation and livelihood practices based on these will get substantially upscaled under these initiatives.

(ii) **Soil & Water conservation Projects under RIDFs of NABARD Loan:** - The Department was availing loan from NABARD started from the year 2000-2001. Projects sanctioned under various tranches of RIDFs from the year 2007-08 to 2014 – 2015 were 41 (forty one) nos.

(iii) **Accelerated Irrigation Benefits Programme (AIBP):** This is a Central Assistance scheme between the central and the state at a ratio of 90% : 10%. The expenditure incurred during 2013-14 was ₹ 4475.00 Lakh to create an irrigation potential of 3267 hectare. During 2014-15, no expenditure was incurred as no fund was released by the Government of India and during 2015-16 fund is yet to receive from the centre.

(iv) **Integrated Watershed Management Programme (IWMP):** Various initiatives under the Integrated Watershed Management Programme focus on natural resource rejuvenation. It is implemented on 90% : 10% sharing pattern between the Centre and the State Government. The IWMP has now been converted in a Watershed Component of PMKSY since 2015, under the Ministry of Agriculture, Government of India being the Nodal Ministry for this scheme. This programme includes the following components: (1) Accelerated Irrigation Benefits Programme (AIBP) – Major and Medium Irrigation including national projects. (2) PMKSY- (Har Khet Ko Pani) – Minor Irrigation both surface and ground water, repair restoration and renovation of water bodies, Command Area Development etc. (3) PMKSY -Per drop more crop (4) PMKSY - Watershed Development. The Central Share released by the GOI till date is ₹ 14582.35311 lakh & the State Share released its matching share at ₹ 1677.7778 lakh. The expenditure till date under the scheme IWMP is ₹ 14810.28 lakh.

(v) **Development of Rubber Plantation :** During the year 2013-14, an amount of ₹ 300.00 lakh was provided under Special Central Assistance which is proposed to raise 389.21 hectare of rubber plantation in the State. The total project cost for this is ₹ 455.65 lakh for a period of 3 (three) years. An amount of ₹ 81.11 lakh is approved for the 2nd year and ₹ 74.54 lakh is required for the 3rd year which is expected to be sanctioned during 2016-17.

(vi) **Commercial Crop Development Board :** The activities of the Board include promotion of commercial crops cultivation, processing and marketing of the commercial crops in the state. A tentative budgeted outlay of ₹ 50.00 lakh is proposed during 2016-17.

1.4 ANIMAL HUSBANDRY

1.4.1 The Twelfth Plan (2012-17) Outlay for A.H. & Veterinary Sector is ₹ 28800.00 lakh. The actual expenditure incurred during the Annual Plan 2014-15 was ₹ 1739.43 lakh. The Budgeted Outlay for the Annual Plan 2015-16 is ₹ 5050.00 lakh of which an amount of ₹ 2960.00 is anticipated to be utilized during the year. **The Tentative Budgeted Outlay for the Annual Plan 2016-17 is ₹ 4700.00 lakh which includes ₹ 700.00 lakh for NABARD Loan, ₹ 1500.00 lakh for Centrally Sponsored Schemes (CSS) and ₹ 800.00 lakh for Convergence Programme.**

1.4.2 The major programmes to be taken up for the Annual Plan 2016-17 are :-

1. Direction & Administration.
2. Veterinary Services & Animal Health.

3. Cattle Development.
4. Poultry Development.
5. Piggery Development.
6. Feed and Fodder Development.
7. Administrative Investigation & Statistics.
8. Research & Education.
9. Infrastructure Development (including improvements).

1.4.3 New State Plan Schemes: The following new schemes are proposed to be taken up during 2016-17:-

1. Construction of New District Veterinary Office Building in East Khasi Hills, Shillong
2. Setting up of new Cattle Breeding Farm in East Garo Hills District.
3. Setting up of A.I. Centre for Pigs
4. Demonstration Units at V.T. centres.
5. Scheme for State Awareness Programme on various diseases
6. Introduction of Fodder Production Machine
7. Preservation of Local Pigs at Pig Farm, Pynursla.
8. Construction / Re-construction / Renovation / Improvement of buildings at Poultry / Piggery / Cattle Farms and Veterinary Institutions.

1.4.4 CENTRALLY SPONSORED AND CENTRAL SECTOR SCHEMES: Core schemes approved by the Government of India during 2015-16 under Veterinary Services and National Livestock Mission will continue during the Annual Plan 2016-17. Other Centrally Sponsored Schemes will be implemented provided fund is released by the Government of India.

1.5. DAIRY DEVELOPMENT

1.5.1 The Twelfth Plan (2012-17) Outlay is ₹ 4850.00 lakh. The actual expenditure incurred during the Annual Plan 2014-15 was ₹ 204.72 lakh. The Budgeted Outlay for the Annual Plan 2015-16 is ₹ 600.00 lakhs of which an amount of ₹ 2900.00 lakh is anticipated to be utilized during the year. **The Tentative Budgeted Outlay for 2016-17 is ₹ 600.00 lakh which includes ₹ 100.00 lakh for CSS, ₹ 100.00 lakh for Convergence Programme and ₹ 200.00 lakh for Special Dairy Development Initiative.**

1.5.2 The programmes under Dairy Sector proposed to be taken up during 2016 -17 are summarized below:-

1. Direction & Administration: Scheme under State and District Level will continue which includes maintenance, strengthening and improvement of the administrative setup both at the State and District level.

2. Cattle-cum-Dairy Development: Under this scheme the Department proposed for maintenance of Dairy Plant, Chilling Plants. Procurement & marketing of milk is now being handled by the Registered District Societies in Shillong, Tura & Jowai. The Programme also includes Employment Generation Scheme for Educated Unemployed Youth, General Farmers/ SHG/Co-operative Societies in order to enhance milk production in the State

3. Education: The amount provided under this programme is for payment of scholarship/stipend to the sponsored students undergoing studies in Dairy Technology outside the State which also includes other expenditure like advertisement, publicity and other charges.

4. Infrastructure Development: Under this scheme, the Department proposed for construction works and improvement of existing buildings, water supply, fencing under Dairy Sector.

5. New State Plan Scheme : The new scheme proposed during 2016-17 is for construction of Residential, Non-Residential building, Retaining wall, Approach road etc. in Khasi, Jaintia and Garo Hills Districts.

6. Central Sector Schemes: The National Programme for Dairy Development (NPDD) will also continue for 2016-17.

1.6 FISHERIES

1.6.1 The Outlay for the 12th Five Year Plan (2012 -17) is ₹ 52900.00 lakh. The actual expenditure during the First Three Years of the 12th Five Year Plan (2012-17) was ₹ 8952.81 lakh. The Available Outlay of ₹ 543.00 lakh during the Annual Plan 2015-16 is expected to be utilized in full. **The Tentative Budgeted Outlay for the Annual Plan 2016-17 is ₹ 4000.00 lakh which includes ₹ 1500.00 lakh under Centrally Sponsored Schemes and ₹1200.00 lakh under Convergence.**

There has been a substantial increase in the production of fish in the State and with the investment for expansion of potential areas, an additional water area of 1904.4 ha benefitting 19,044 nos of beneficiaries have been covered under the State Aquaculture Mission, raising the fish production to 8,000 MT annually. Fish seeds of good quality are being raised through local hatcheries. There are 26 nos of such hatcheries established so far, as this has also improved the rural employment scenario in the State. Marketing of harvested fish in order to ensure remunerative returns to the fish farmers will be given due importance with the support of the National Fisheries Development Board. Further, support in terms of technology transfer to the rural population in post harvest value addition and processing will be augmented. Strategy in this field will be developed in collaboration with the reputed organizations in the country.

1.6.2 Brief note highlighting important scheme / projects to be taken during 2016-17:-

1. Area Expansion : The Department under the Meghalaya State Aquaculture Mission has during the year 2015 -16 has invested an amount of ₹ 56.77 cr has created an additional water area of 839.3 ha (approx) for fish culture and this has benefit 8393 nos farmers across the state .The Dept proposed to develop another 754.2 ha of Individual ponds during the year 2016-17. The total investment made so far under this sector is ₹.163.00 and about 2631.8 ha have been covered and 26054 nos of beneficiaries were assisted till date.

2. Development of Meghalaya State Fish Brood Bank: For culture of brood stock for breeding purposes which is one of the most important features required for optimum production and survivability of fish seed, the Department is able to achieve in the establishment of 1 (one) State Brood Bank at Umktieh Fish Farm, Ri Bhoi District during the last financial year, and proposes to establish another Brood bank at Tura through the funding support of NFDB which is proposed to be taken up during 2016-17.

3. Establishment of Mahseer Hatcheries: Through the support of the Directorate of Cold Water Fisheries, the Department is able to establish 1 (one) Mahseer hatchery in the State,

and it proposes to establish 1 (one) more Mahseer hatchery and the amount to be invested for this purpose is ₹10.00 lakh.

4. Other schemes includes establishment of Hatcheries, Feed Mills, Aqua Parks, Fish Sanctuaries and Fish Markets wherein the State Government has taking steps to increase setting up more numbers of such establishments in the State. Establishment of Feed Mills and Fish Markets through the funding support of the National Fisheries Development Board are being taken up.

1.7 FOOD STORAGE & WAREHOUSING

1.7.1 The Twelfth Plan (2012-17) projected outlay for food storage and warehousing sector is ₹ 1200.00 lakhs. The approved outlay for the Annual Plan (2014-15) was ₹ 100.00 lakh and the actual expenditure was ₹ 100.00 lakh. The Available Outlay for the Annual Plan (2015-16) is ₹ 95.00 lakh and the anticipated expenditure ₹ 95.00 lakh. **The Budgetted Outlay for the Annual Plan 2016-17 for implementation of the programmes viz., construction of new warehouses for buffer stocking of food-grains is ₹ 100.00 lakh.**

1.7.2 The Corporation has a total storage capacity of 15,700 M.T. During the 2015-16, an additional capacity of 2000 M.T has been created, and in the Annual Plan 2016-2017, a 1000 M.T. capacity is projected to be added. The achievement of the projected capacity creation is solely dependent on timely release of financial assistance for construction of Warehouses by Government of India and the State Government.

1.8 COOPERATION

1.8.1 The projected outlay for the Twelfth Plan (2012-17) is ₹ 8000.00 lakh. The Available Outlay during 2014-15 was ₹ 900.00 lakh and the actual expenditure during same year was ₹ 780.96 lakhs. The Available Outlay for 2015-16 is ₹ 750.00 lakh and the anticipated expenditure during 2015-16 is ₹ 750.00 lakh. **The Budgetted Outlay for the Annual Plan 2016-17 is ₹ 2625.00 lakh.**

1.8.2 As on 31.03.2015, there are 1460 numbers of Cooperative Societies in the State. During the year 2016-17, the Department is initiating new programmes and has budgetted an amount of ₹ 500.00 lakh for Capacity Building and Training, ₹ 1000.00 lakh for Convergence with IBDLP, Megha-LAMP and other livelihood programme to create Integrated Village Cooperative Societies.

1.8.3 The Department is striving in making the cooperative movement an effective instrument of transforming the rural economy through the cooperative societies by expanding the scope of activities so as to include micro credit, food processing, handloom, handicraft, dairy, marketing of agricultural produces etc. Steps have also been undertaken for promotion of rural tourism and to create gainful employment to the unemployed in the rural tourism sector. Micro business activities are also being promoted under the aegis of the Meghalaya Livelihood and Access to Markets Project (Megha-LAMP).

1.9 RASHTRIYA KRISHI VIKAS YOJANA

1.9.1 Rashtriya Krishi Vikas Yojana (RKVY): RKVY which is the Flagship Programme of the Government of India is being implemented in the state of Meghalaya through the Department of Agriculture as the Nodal Department, is an integrated programme to bring about all round development in agriculture through sub-sectors namely Agriculture,

Horticulture, Irrigation, Animal Husbandry and Veterinary, Soil and Water Conservation, and Co-operation. The Outlay for the 12th Five Year Plan (2012-2017) under RKVY is ₹ 30000.00 lakh. The Actual expenditure during 2014-15 was ₹ 6064.00 lakh. The Available Outlay and anticipated expenditure during 2015-16 is ₹ 2417.00 lakh. **The Tentative Budgeted Outlay during 2016-17 is ₹ 11000.00 lakh.**