

## CHAPTER - 6

### ANIMAL HUSBANDRY, DAIRY & FISHERIES

6.1 The animal husbandry sector comprises (i) Department of Animal Husbandry; (ii) Dairy Development; (iii) Fisheries and (iv) Veterinary Education & Research.

6.2 Agriculture plays an important role in Rajasthan economy and nearly one fourth of the total state income is generated by Agriculture and allied activities including Animal Husbandry. The Animal husbandry sector is harbouring a fabulous livestock wealth having very significant role in providing subsidiary to major sources of income to the large numbers of cultivators, small farmers, marginal farmers, BPL families and agricultural labourers. Milk enterprise generates income on regular basis as against the crop enterprise, which is mostly seasonal and is more prone to droughts. Cattle are mainly looked after by the women folk. The provision of assured market for the milk leads to their increased participation and the availability of cash income encourages them to take up to social development programmes.

6.3 As against twenty five well defined breeds of cattle and seven buffaloes breeds in the country, the state is endowed with seven breeds with finest drought hardy milch breeds (Rathi, Gir and Tharparkar), dual purpose breeds (Kankrej and Hariyana) and the famous draught breeds of Nagauri and Malvi.

6.4 Livestock production in general and cattle and buffaloes in particular is highly women oriented as it is labour intensive. Over 95% of households chore is related to the care and management of milch animals in livestock owning households are dealt by women and 60% of all labour engaged in rural livestock production are women. Live stock sector in Rajasthan is thus extremely livelihood intensive, closely interwoven into the social economic fabric of the rural society, making investments in development of this Sector the critical pathway for rural prosperity. The details of livestock population since 1951 are given below:

Table No. 6.1

| Item         | (No. in lakhs) |               |               |               |               |               |               |
|--------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|
|              | 1951           | 1961          | 1972          | 1983          | 1992          | 1997          | 2003          |
| Cattle       | 107.82         | 131.36        | 124.70        | 135.04        | 116.66        | 121.41        | 108.54        |
| Buffalo      | 30.45          | 40.19         | 45.92         | 60.43         | 77.75         | 97.70         | 104.14        |
| Sheep        | 53.87          | 73.60         | 85.56         | 134.31        | 124.91        | 145.85        | 100.54        |
| Goat         | 55.62          | 80.52         | 121.62        | 154.80        | 152.85        | 169.71        | 168.09        |
| Camel        | 3.41           | 5.70          | 7.45          | 7.56          | 7.46          | 6.69          | 4.98          |
| Others       | 3.99           | 3.72          | 3.53          | 4.36          | 4.82          | 5.19          | 5.07          |
| <b>Total</b> | <b>255.16</b>  | <b>335.09</b> | <b>388.78</b> | <b>496.50</b> | <b>484.45</b> | <b>546.55</b> | <b>491.36</b> |

Source: Livestock Census.

6.5 The scarcity of fodder and low grass land productivity has forced the reduction in livestock population.

**Objectives and strategy during Eleventh Five Year Plan:**

6.6 The objectives for Animal Husbandry are:

- Prompt community participation with Public Private Partnership.
- Improvement of out reach services to increase livestock health & production.
- Increases in the income of the people engaged in animal husbandry.
- Promotion of Livestock industries and marketing in the State.
- Active participation of the local breeders.
- Shift from veterinary health care to animal husbandry practices and breed improvement.
- Enabling the small producer to participate in the process of Globalisation, to gainfully participate in the process of growth and modernisation of the livestock sector.

6.7 In the Eleventh Plan, an amount of Rs. 17500.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 1694.92 lacs and amount proposed for 2008-09 is Rs. 2158.70 lacs. The scheme wise details are as under:-

**Training, Extension & Information System:**

6.8 In the year 1990-91 training cell was created to organize systematic training programmes. For providing training to the stockman government training schools at four places viz. Bassi (Jaipur), Jodhpur, Kota and Udaipur and at 39 places under private sector are functional. Human resource development and trainings are the essential component for the successful implementation of the various developmental programmes and to increase the productivity per unit time by optimum utilization of available resources and adoption of scientific methods of animal managements. Therefore, certain refresher training courses for the departmental para-veterinary staff would also be taken under this head. It is proposed to strengthen all departmental Stockman Training Schools with Photocopy machine, Audio-visual aids, digital camera, and Computer system with printer, furniture, along with furnishing of hostel and library facilities. In the Eleventh Plan, an amount of Rs. 30.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 4.10 lacs and amount proposed for 2008-09 is Rs. 4.51 lacs.

**Rajasthan State Live Stock Management and Training Institute:**

6.9 The building and essential infrastructural facilities have been made available at Jaipur with world bank assistance under Agriculture Development Project for imparting regular training to the officers of

Animal Husbandry Department. The building of institute and its hostel is completed. In the Eleventh Plan, an amount of Rs. 75.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 7.65 lacs and amount proposed for 2008-09 is Rs. 8.00 lacs for modernization, furniture and fixture etc.

#### **Establishment of Veterinary Polyclinics:**

6.10 There are at present 13 polyclinics in the state. It was envisaged earlier to establish polyclinics at all the district head quarters. At polyclinic specialized veterinary care is being provided under one roof. These Polyclinics are equipped with diagnostic aids like x-ray, clinical laboratory and there is facility to treat complex animal disease & infertility problems by the subject matter specialist. In the Eleventh Plan, an amount of Rs. 300.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 34.45 lacs and amount proposed for 2008-09 is Rs. 37.90 lacs.

#### **Disease Diagnostic Laboratories (DDL):**

6.11 There are five Regional Disease Diagnostic Centre(RDDC) in Rajasthan i.e. At Ajmer, Kota, Udaipur, Jodhpur and Bikaner. Jaipur has State level Disease Diagnostic Lab (SDDL). To provide chemicals, reagents and glassware for all the disease diagnostic labs is essential. For this purpose in the Eleventh Plan, an amount of Rs. 20.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 1.91 lacs and amount proposed for 2008-09 is Rs. 2.10 lacs.

#### **Biological Products Unit(B.P. Lab.)**

6.12 This institute is producing veterinary vaccines for the prevention of infections and contagious animal disease. In the Eleventh Plan, an amount of Rs. 4.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 0.22 lacs and amount proposed for 2008-09 is Rs. 0.24 lacs for strengthening & expansion of this unit.

#### **Strengthening of Nutrition Laboratory:**

6.13 It is most essential to strengthening of the existing facilities of nutrition lab so that through advance technology, analysis of samples of feed and fodder can be done. In the Eleventh Plan, an amount of Rs. 20.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 2.55 lacs and amount proposed for 2008-09 is Rs. 3.00 lacs.

#### **Veterinary Hospital and Dispensary:**

6.14 The existing facilities of animal health care are inadequate. There is one veterinary center for each 14299 animals where as the recommendation of National Commission on Agriculture is one Veterinary Center for each 5000 animals. Thus the state is lagging far behind the NCA recommendation. Therefore it is necessary to increase and

strengthen the existing veterinary health care facilities during 11th plan period to take care of precious livestock.

6.15 In the Eleventh Plan, an amount of Rs. 8419.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 683.67 lacs and amount proposed for 2008-09 is Rs. 1157.36 lacs.

#### **Private Veterinary Services:**

6.16 To fulfill the gap, the expansion of veterinary services would be taken up through involvement of community and NGO's. Under the scheme, if a Panchayat/NGO wants to open a veterinary hospital Government would provide salary of the veterinarian up to 5 years and equipment to the Panchayat/NGO. In the Eleventh Plan, an amount of Rs. 50.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 11.85 lacs and amount proposed for 2008-09 is Rs. 13.04 lacs.

#### **Veterinary Council:**

6.17 State Veterinary Council has been constituted under the provisions of Indian Veterinary Council Act. It regulates the veterinary practices in the state and skill and knowledge up-gradation of veterinarians. It is a Centrally Sponsored Scheme on 50:50 basis. In the Eleventh Plan, an amount of Rs. 150.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 10.50 lacs and amount proposed for 2008-09 is Rs. 10.50 lacs for state matching share.

#### **Livestock Development Programme:**

6.18 Dairy farming requires low investment and has the potential to create attractive livelihood opportunities for the economically challenged sections of rural Rajasthan, provided livestock can be genetically upgraded through systematic and scientific animal husbandry. For the improved and better services to livestock, it is desirable to test the semen before distribution to AI centers from the district supply unit for testing motility of semen to ensure quality. So, it is planned to procure 35 microscopes at a cost of Rs. 20000/- per microscope during 2007-2008 to increase milk yield. In the Eleventh Plan, an amount of Rs. 500.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 70.47 lacs and amount proposed for 2008-09 is Rs. 77.52 lacs for replacement of cryocan jars, AI equipments, input supply and feed supplement and medicines for the treatment of infertile animals.

#### **Strengthening of Cattle Breeding Farm:**

6.19 Department has four cattle breeding farms at Nagaur, Dug (Jhalawar), Ramsar (Ajmer) and Kumher (Bharatpur). These farms were initially established for the rearing of elite breeding bulls. For breed improvement almost 50% success would depend on the provision of natural services through pedigree bulls because it is still the first choice among farmers. The department would procure bulls of Nagauri, Malvi,

Gir and Murrah buffalo bulls from the breeding tract within the country and distribute on subsidized cost to Goshalas and farmers. In the Eleventh Plan, an amount of Rs. 200.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 7.00 lacs and amount proposed for 2008-09 is Rs. 8.00 lacs for bull distribution and establishment of farmers training centers at all four cattle breeding farms.

**Goshala Development:**

6.20 For the development and monitoring of the Goshalas in the state a unit is working in directorate. Under this programme, In the Eleventh Plan, an amount of Rs. 4.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 0.51 lacs and amount proposed for 2008-09 is Rs. 0.56 lacs. Department is also providing grant to the Rajasthan Go Seva Ayog. In the Eleventh Plan, an amount of Rs. 150.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 23.02 lacs and amount proposed for 2008-09 is Rs. 25.00 lacs.

**Institutional Arrangement of Supplies (RLDB):**

6.21 Rajasthan Livestock Development Board has been constituted in the 9<sup>th</sup> Five Year Plan for regular input supply to the departmental institutions and development. RLDB is getting funds from Government of India for the various livestock development programmes under NPCBB (National Project for Cattle and Buffalo Breeding). Department has been providing grant to RLDB to meet out salary expanses. In the Eleventh Plan, an amount of Rs 200.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs.34.82 lacs and amount proposed for 2008-09 is Rs.38.00 lacs.

**Poultry Development:**

6.22 The sector needs promotion and support through extension and input services besides technical guidance. Intensive Poultry Development Block and Poultry Training Center, Ajmer requires to be strengthened. In the Eleventh Plan, an amount of Rs. 39.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 0.61 lacs and amount proposed for 2008-09 is Rs. 0.75 lacs for Intensive Poultry Development Block and Poultry Training Center, Ajmer and Poultry Farm Jaipur respectively.

**Equine Development:**

6.23 Marwari horse breed is well known worldwide and its main habitat is Rajasthan. It is proposed to establish few natural service centers in the state and pure bred stallion has to be provided for the improvement of the breed. It is also proposed to start a incentive programme to the breeders of Marwari horses. In the Eleventh Plan, an amount of Rs. 30.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 2.05 lacs and amount proposed for 2008-09 is Rs. 2.26 lacs.

### **Goat Development:**

6.24 As per 17<sup>th</sup> Livestock Census 2003, the goat population in Rajasthan is 168 lacs. For the development of goat in the state there is one goat farm, located at Ramsar. Buck distribution activity is the major breed improvement programme for the Sirohi goat. In the Eleventh Plan, an amount of Rs. 60.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 6.40 lacs and amount proposed for 2008-09 is Rs. 7.00 lacs.

### **Livestock Census:**

6.25 18th livestock census will start in the year 2007 with the help of the Revenue Board. It is a central assisted programme with 100% central share. In the Eleventh Plan, an amount of Rs. 4.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 0.60 lacs and amount proposed for 2008-09 is Rs. 0.66 lacs for office expenditure of the staff of department stationed at Revenue Board.

6.26 Department has vast area of institutions and offices including Joint Director offices at range level and at district level Dy. Director and Assistant Director level office. For the monitoring and supervision of different schemes and programmes vehicles are required. At present departmental vehicles are very old and requires major repairs. No. of offices have no vehicles. In the Eleventh Plan, an amount of Rs. 500.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 54.38 lacs and amount proposed for 2008-09 is Rs. 23.00 lacs for purchase of new vehicles and other expenses.

### **Sample survey for estimation of major livestock products**

6.27 In the Eleventh Plan, an amount of Rs. 300.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 45.05 lacs and amount proposed for 2008-09 is Rs. 45.00 lacs to meet out the 50% share for salary of staff working to promote this scheme.

### **Feed & Fodder Development**

6.28 In the Eleventh Plan, an amount of Rs. 3.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 0.50 lacs and amount of Rs. 0.55 lacs has been proposed during the 2008-09 for spillover liabilities of seed multiplication farm at Doodly for fodder development.

### **Special Component Sub Plan:**

6.29 Under this head departmental schemes like calf rallies, buck distribution and purchase of medicines are undertaken. In the Eleventh Plan, an amount of Rs. 3000.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 250.00 lacs and amount proposed for 2008-09 is Rs. 250.00 lacs.

**Tribal Sub Plan:**

6.30 Under this head departmental schemes like calf rallies, buck distribution, backyard poultry development and trainings are undertaken. In the Eleventh Plan, an amount of Rs. 2205.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 128.85 lacs and amount proposed for 2008-09 is Rs. 141.74 lacs.

**Cattle Fair:**

6.31 The state is organizing ten state level cattle fairs at different areas. There is a wide scope to develop these fairs for the attraction of tourists as well to provide better market facilities to the farmers in the fairs. There is a need to provide adequate facilities for the incoming animals and animal owners on the fair ground. On these cattle fair grounds capital works for providing enough drinking water, animal shelters, fodder stores etc. are required to be developed. In the Eleventh Plan, an amount of Rs. 75.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 8.00 lacs and amount proposed for 2008-09 is Rs. 8.00 lacs.

**Training/Seminars/Exhibitions:**

6.32 In the Eleventh Plan, an amount of Rs. 12.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 39.00 lacs and amount proposed for 2008-09 is Rs. 39.00 lacs for the participation of veterinarians in the trainings, seminars and exhibitions etc.

**Construction Works:**

6.33 In the Eleventh Plan, an amount of Rs. 250.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 144.75 lacs and amount proposed for 2008-09 is Rs. 98.80 lacs for the repair and renovation works of the buildings of the departmental offices and veterinary institutions.

**Assistance to States for Control of Animal Diseases:**

6.34 Under this Centrally Sponsored Scheme (75:25), it is intended to fill up the critical gaps in terms of strengthening the laboratories and creating a disease management system, and to equip the personnel by providing them training on various aspects of disease diagnosis, control and management. Under the scheme, the biological product laboratory and the state as well as regional disease diagnostic laboratories are under the process of modernization/ strengthening.

6.35 Public awareness programme would also be taken up. During the plan period the B.P. Lab would be upgraded to ISO 2001 level and tissue culture lab will be fully established. Strengthening cold chain facilities through out state will also be taken up. In the Eleventh Plan, an amount of Rs. 900.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 122.00 lacs and amount proposed for 2008-09 is Rs. 156.21 lacs.

## **Rajasthan Agriculture University, Bikaner & MPUAT Udaipur**

6.36 The Rajasthan Agriculture University Bikaner was established in 1987 to look after Agriculture Extension, Education and Research and to carry out production oriented agriculture research, rural mass education, adoption and propagation of new technologies in the field of agriculture including animal husbandry and allied services.

6.37 In the year 1999-2000 another Agriculture University was also established at Udaipur with a view to watch the interest of Agriculture Education and Research more effectively in the southern and eastern parts of the State. Now out of the 32 districts, 21 districts are served by RAU, Bikaner and 11 by Maharana Pratap University of Agriculture & Technology, Udaipur.

6.38 Following are the major activities related to Animal Husbandry which are under taken by these universities:

### **Veterinary Education and Research (Animal Husbandry)**

6.39 The responsibility of Animal Husbandry, Veterinary Education and Research and fisheries are entrusted to RAU, Bikaner & Maharana Pratap University of Agriculture & Technology, Udaipur in the State. A state livestock breeding strategy needs to be evolved to meet the requirement of milk, meat, egg and livestock products and to enhance the role of draught animals as a source of energy for farming operations and transport. Major thrust will be on genetic up-gradation of indigenous / native cattle and buffaloes using proven semen and high quality pedigreed bulls and by expanding artificial insemination network to provide services at the farmers' doorsteps. Following are the important thrust areas of research in the field of Veterinary & Animal Science, dairy technology and fisheries.

### **Livestock Research**

6.40 There is need for research on conservation and improvement of indigenous germplasm of Tharparker and Rathi Cattle, Surti Buffaloes, Gir cows, Deogarhi and Parbatsari goats and magra, Chotla, Mawari, Sonadi sheep etc.

### **Dairy Technology Research**

6.41 Research on food products - technology standardization, packaging, by-product utilization and development new foods.

### **Fisheries & Limnology Research**

6.42 Studies on bio-diversity including survey of ichthyo fauna and other aquatic organisms contributing to the aquatic bio-diversity. To work out nutritional requirement of local commercially important fishes for formulating ideal fish diet to promote intensive fish culture.



## **Education**

6.43 In view of current needs of the State, syllabus has been re-oriented to include new disciplines viz. Veterinary Biochemistry, Livestock Product Technology and Epidemiology and Preventive Veterinary Medicine. In order to cater to the employer needs, new courses viz. Veterinary Ambulatory Clinic, Vety. Laboratory Diagnosis, Vety. Epidemiology and Computer Applications and Bio-statistics have been included. However, as per VCI norms, there are deficits in respect of equipments, and facilities in various departments of the College. One time financial assistance is required to make up the deficiencies of equipments and facilities. Significant infrastructure additions have been made under ADP, namely - Teaching Clinical Complex, Animal Biotechnology laboratory, Central Laboratory and Faculty House. These facilities need to be strengthened through equipment and work force. Other facilities requiring strengthening are Library, Internship Programme, Field Practical Mobility, Disease Investigation facility, PG Programmes, Internship stipend and PG Stipend.

6.44 In the Eleventh Plan, an amount of Rs. 335.00 lakhs and Rs. 325.00 lacs has been proposed for Rajasthan Agriculture University, Bikaner and MPUAT, Udaipur respectively. Likely expenditure during 2007-08 of Rs. 14.85 lacs and Rs. 25.00 lacs and amount proposed for 2008-09 is Rs. 15.50 lacs and Rs. 84.68 lacs for these Universities.

## **FISHERIES**

6.45 Rajasthan possesses a large area of inland water bodies which offer potential for development of both intensive and extensive system of culture based fisheries. From the available fresh water resources in the state 3.30 lakh ha. of inland water sheets in the form of reservoir (1.2 lakh ha.) tanks, and ponds (1.8 lakh ha.) and rivers (0.30 lakh ha.) have been identified for capture cum culture fishery management. Besides, there exists 0.04 lakh ha. brackish water bodies and perennial flowing system, 214 KM. Indira Gandhi Feeder Canal and about 500 KM under I.G.N.P. in north west Rajasthan.

6.46 Constraints in increasing production

- Uncertain and irregular monsoon.
- Draining/ pumping out of maximum stored water for Irrigation and Drinking purposes.
- Shortage of quality fish seed.
- Lack of traditional fishermen community.
- Lack of awareness among rural masses.
- Lack of technical know how in rural sector for fish culture.

6.47 The main objects of the fisheries and aquaculture development programme identified for Eleventh Five Year Plan are:

- Maximization of Biological Productivity with optimum utilization of available resources.
- Enhancement of the quality fish seed production.
- Generation of employment opportunities.
- Production of all commercially important fish species available in Rajasthan.
- Improvement in socio economical condition of Fishermen.
- Conservation of aquatic bio diversity and eco system.
- intensive training and demonstration for propogation of advance technologies in aquaculture practices.
- Propagation of cage and pan fish culture.
- Establishment of fish marketing yard, cold chain and retail outlets.
- Promotion of nutritional fish feed production units.
- Strengthening of the fisheries research and education net work.
- Strengthening the data base information net work.

6.48 In the Eleventh Plan, an amount of Rs. 615.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 85.00 lacs and amount of Rs. 38.92 lacs proposed for 2008-09. The Scheme wise details are as under:-

**Fish Seed Production:**

6.49 For the development of fishermen, the most important input component is the availability of quality fish seed. For renovation and extension fish farm with water supply system, In the Eleventh Plan, an amount of Rs. 113.70 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 12.90 lacs and amount proposed for 2008-09 is Rs. 12.50 lacs.

**Development of Inland Fisheries and aquaculture:**

6.50 Under Centrally Sponsored Scheme, 15 FFDA's are functional in the state with the object:

- (a) Development of water bodies through intensive fish culture particularly in rural area.
- (b) Generation of rural employment potential.
- (c) Additional source of income for local bodies.

6.51 In the Eleventh Plan, an amount of Rs. 77.30 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 2.00 lacs and amount proposed for 2008-09 is Rs. 10.40 lacs.

### **Fisheries Extension, Education and Training:**

6.52 For creating awareness for fish culture techniques and adoption of advance practices among progressive fish farmer. In the Eleventh Plan, an amount of Rs. 19.50 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 12.40 lacs and amount proposed for 2008-09 is Rs. 2.50 lacs.

### **Group Accident Insurance Scheme for Active Fishermen:**

6.53 Fish Farmers / Fishermen affiliated with FFDAs and Rajasthan Tribal Area Development Cooperative Federation are proposed to be insured through this scheme under CSS. The 50% of the premium is paid by Government of India directly to FISHCOPPED, and 50% has to be contributed by state government. In the Eleventh Plan, an amount of Rs. 3.00 lakhs has been proposed. An amount proposed for 2008-09 is Rs. 0.50 lacs under group accident insurance scheme for active fishermen.

### **Fish Marketing:**

6.54 In the Eleventh Plan, an amount of Rs. 110.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 10.00 lacs and amount proposed for 2008-09 is Rs. 0.01 lacs for the state level fish marketing yard and purchase of mechanized boats.

### **National Scheme of Welfare of Fishermen:**

6.55 In the Eleventh Plan, an amount of Rs. 115.00 lakhs has been proposed. An amount proposed for 2008-09 is Rs. 13.00 lacs for the development of model fishermen village and saving cum relief programme.

### **Strengthening of Cooperative Society and SHG.**

6.56 To increase the participation of local person in the development of reservoir fisheries on culture basis, it is proposed to strengthen the cooperative and self help groups. In the Eleventh Plan, an amount of Rs. 35.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 1.00 lacs and amount proposed for 2008-09 is Rs. NIL lacs.

### **Research and Development**

6.57 In the Eleventh Plan, an amount of Rs. 60.00 lakhs has been proposed. Likely expenditure during 2007-08 is Rs. 8.00 lacs and amount proposed for 2008-09 is Rs. 0.01 lacs for the assistance to Fisheries College (MPUT) Udaipur, upgradation of Fisheries Survey and Investigation Unit, assistance to National Fisheries Board and Mobile Pathological Units.

### **DAIRY**

6.58 In Dairy Sector, The Rajasthan Co-operative Dairy Federation, even without any financial assistance in the 10<sup>th</sup> Five Year Plan, continued its

successful journey with an ever growing membership of 6.37 lakh milk producers with more than 23% growth in their economic status.

6.59 RCDF attained 1<sup>st</sup> rank among North Indian State Dairy Federations in Milk procurement and Liquid Milk Marketing during 2006-07. It recorded the highest milk collection of 20.28 lakh litres on a particular day in February, 2005. The average milk collection went up to 15.54 lakh litres per day in 2005-06. The RCDF policies resulted in an increase of over 45% in milk pricing pay back to the milk producers in last 10 years. The demand for Saras Milk and milk products also grew by 40% in a wide range of milk products.

6.60 Apart from the above, Social Welfare Schemes - Saras Suraksha Kavach and Saras Samuhik Arogya Bima Yojna, Centrally Sponsored Schemes SGSY & WDP (Women Development Programme) also contributed in the upliftment of rural citizens. The WDP also opened doorways for women's empowerment in the state through a network of 3,126 women dairy societies at the village level with 1.71 lakh women members.

6.61 During the 10<sup>th</sup> Five Year Plan, Centrally Sponsored Schemes - Clean Milk Production Programme (CMP) and Intensive Dairy Development Programme (IDDP) were launched by RCDF. CMP was launched with an outlay of Rs. 9.40 crores with the objective of milk quality improvement, increasing returns to milk producers and production enhancement in Ajmer, Bhilwara, Jaipur, Bundi, Churu, Jodhpur, Udaipur, Alwar, Sriganganagar and Pali districts. Similarly, IDDP with a total outlay of Rs. 26.07 crores has been launched for development of Dairy Infrastructure in Jhalawar, Baran, Rajsamand, Churu, Sriganganagar, Sirohi, Dholpur and Tonk districts.

6.62 The Rajasthan Co-operative Dairy Federation while marching ahead has set its goal of achieving 36 lakh litres of average milk collection by the end of the 11<sup>th</sup> Five Year Plan by an intensive coverage of villages, Induction of Milch Cattle, Breed Improvement and productivity Enhancement. A Nominal provision of Rs. 0.01 lac has been proposed for 2008-09 from the state government as grant in this sector.