

CHAPTER –IV

WATER RESOURCES, IRRIGATION AND FLOOD CONTROL

4.1 INTEGRATED WATER RESOURCE MANAGEMENT PROGRAMME

4.1.1. The Integrated Water Resource Management Programme has been taken up with the objective to (i) encourage planning and management on a natural water systems basis through a dynamic process that adapts to changing conditions; (ii) balance competing uses of water through efficient allocation that addresses social values, cost effectiveness, and environmental benefits and costs; (iii) participation of all units of government and other stakeholders in decision-making through a process of coordination and conflict resolution; (iv) promote water conservation, reuse, source protection, and supply development to enhance water quality and quantity etc.

4.1.2. During Annual Plan 2015-16, the budgeted outlay under this programme is ₹ 4900.00 lakh which include ₹ 1000.00 lakh of EAP. The anticipated expenditure during the year is ₹ 45.00 lakh.

4.1.3. During 2016-17, an allocation of ₹ 1200.00 lakh has been proposed under Integrated Water Resources Management.

4.2 MEDIUM IRRIGATION

4.2.1 Rongai Valley Medium Irrigation project:- Rongai Valley Medium Irrigation Project was sanctioned for an amount of ₹.1630.00 lakhs. The project provides for construction of 10.50 m high barrage across river Rongai and 34.177 Km length Canal. On the physical achievement 95% work on the barrage have been completed. The work is now suspended due to problem of land acquisition and moreover the revised estimate of ₹.13171.52 lakh was not considered by Central Water Commission.

The salient features of the project as the revised estimate are as below:-

1. Cultivable Command Area	=	4775 hect..
2. Net Irrigable	=	3490 hect.

Apart from irrigation, the project on completion will also help to reduce the adverse effect of flood in the area. The Adjusted Outlay during the year 2014-15 is ₹.20.00 lakh. The budgeted outlay for Major & Medium Irrigation for the year 2016-17 is ₹.100.00 lakh.

4.3 MINOR IRRIGATION

4.3.1. The identified ultimate irrigation potential of the State is approximately 2.18 lakh hectare. As on March 2015, the irrigation work in the State increased from 45137.73 to 73573.488 hectares which is about 34 % of the irrigation potential. The physical achievement during 2014-15 was 4766.758 Ha and the Financial achievement was ₹ 5222.16 lakh. The anticipated achievement in irrigation project during 2015-16 is 6400 Ha and the proposed targets for 2016-17 is also 6400 Ha.

4.3.2. The schemes are funded mainly by the Government of India under the Pradhan Mantri Krishi Sinchaya Yojana (PMKSY), Command Area Development and Water Management (CAD&WM) and Rationalisation of Minor Irrigation Statistics (RMIS). Projects are also being taken up under State Plan as well as loans from NABARD under RIDF. New initiatives taken up by the Department include implementation of Jalkund & multipurpose reservoirs for ensuring efficient use of water to the different needs of the communities.

4.3.2. The approved outlay during the Twelfth Plan (2012-2017) is ₹ 76000.00 lakh.

The year wise expenditure during 2014-15 and 2015-16 is as indicated below:-

Sl No.	Year	Allocation	Expenditure
1.	2014-15	11350.00	4772.63
2.	2015-16	11350.00	4290.00 (anticipated)
	Total	22700.00	9062.63

4.3.3. The Tentative budget for Annual Plan 2016-17 is ₹ 11200.00 lakh.

4.4 COMMAND AREA DEVELOPMENT

4.4.1. The Command Area Development Programme (CADP) was launched in December 1974 as a Centrally Sponsored to improve irrigation potential utilisation and optimise agricultural production from irrigated land through integrated and coordinated approach of efficient water management. The programme has been further restructured and renamed as 'Command Area Development and Water Management Programme (CADWM Programme)' to make it more comprehensive and beneficial to farmers. The scheme has been implemented as a State Sector Scheme during the XI Five Year Plan.

4.4.2. The proposed allocation for Command Area Development sector during the Twelfth Five Year Plan (2007-2012) is ₹ 350.00 lakh. During 2015-16, ₹ 110.00 lakh was provided for CAD and the anticipated expenditure is only ₹ 2.00 lakh.

4.4.3. During 2016-17, an amount of ₹ 200.00 lakh is budgeted for CAD.

4.5 FLOOD CONTROL

4.5.1 Every year the State of Meghalaya suffers badly due to flash floods during monsoon season. The areas most affected by the floods are the Garo Hills District, the Southern part of Jaintia Hills District and certain areas under East and West Khasi Hills Districts and Ri-Bhoi District. The flash flood damages the standing crops by inundating vast areas of paddy fields and very often snaps road communication by eroding the road formation and washing away of the road embankment and semi-permanent timber bridges. To restore road communication in the affected areas the Government annually incurs heavy expenditure for repairing and restoration of the damaged roads and bridges, Permanent measures of protection of roads and bridges, paddy fields, cultivation lands and habitats are therefore necessary.

During the Annual Plan 2014-15, 2 (Two) schemes were taken up for an amount of ₹ 61.00 lakh and during the year 2015-16, 10 (Ten) nos. of schemes were taken up with an anticipated expenditure of ₹ 50.00 lakh.

For the financial year 2016-17 the Department proposed to take up 10 (ten) schemes with the budget outlay of ₹180.00 lakh.

4.6 REPAIR, RENOVATION AND RESTORATION OF WATER BODIES

4.6.1 The Ministry of Water Resources, Government of India has launched the scheme of Repair, Renovation and Restoration (RRR) of Water Bodies as a State Sector scheme. The programme is being implemented by Soil & Water Conservation Department and Water Resources Department. Funds for this programme are provided by the Government of India as Central Assistance, of which 90% is grant from the Central Government and 10% is the contribution of the State Government.

4.6.2 The Budgetted outlay under the programme is ₹ 3400.00 lakh, of which an amount of ₹ 2840.00 lakh is provided to Soil & Water Conservation Department with the balance amount of ₹ 560.00 lakh being provided to Water Resources Department. The anticipated expenditure under the programme is ₹ 450.00 lakh.

4.6.3 For the financial year 2016-17 an amount of ₹ 3500.00 lakh is being earmarked towards the programme.