

CHAPTER - IV

IRRIGATION & FLOOD CONTROL

4.1 MEDIUM IRRIGATION

4.1.1 The projected outlay for Medium Irrigation for the Eleventh Plan (2007-2012) is Rs. 1000.00 lakhs. No expenditure has been incurred for the sector during the year 2007-2008. The approved outlay for the Annual Plan 2008-2009 is Rs. 40.00 lakhs which is expected to be utilised in full. **The proposed outlay for the Annual Plan 2009-2010 is Rs. 50.00 lakhs.**

4.1.2 During the 8th Plan, the Department took up for execution of Rongai Valley Medium Irrigation Project at an estimated cost of Rs.1630.00lakhs. The project provides for construction of 10.50m high barrage across river Rongai and 34.177 Km length Canal. The construction of barrage is almost completed (95%). The work is now suspended due to land acquisition and sanction of Revised estimate. The Revised estimate was submitted to the Central Water Commission for an amount of Rs. 13171.52 lakhs for necessary approval but returned with certain observations. The Revised estimate is now under updation as per the current Scheduled of Rates and remaining works can be taken up only when the Revised Estimate is sanctioned.

The salient features of the project as per the Revised Estimate are:-

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|--------------------------------|------------------|
| 1. Cultivable Command area | = 4775hect |
| 2. Net Irrigable area | = 3490hect |
| 3. Crop intensity to be raised | = 78% to 147.20% |

Apart from irrigation, the project will also help reduce the adverse effect of flood in the area.

The meeting of the Working Group of the Planning Commission held on 30.04.2008 decided to abandon the Rongai Valley Medium Irrigation Project and all accounts of the Project shall be closed. The Working Group also suggested that for the residual payment, the State Government will set a Committee which will work out the payment, also the project used in terms of Drinking Water Supply, Food storage, Pisciculture and recreation will explore.

4.1.3 The survey and investigation works of four more schemes named below are being taken up by WAPCOS India Limited since the beginning of the Tenth Plan. The Project Reports of all the four schemes are expected to be received soon.

1. Pynthorwah Irrigation Project in Jaintia Hills District
2. Pynthornein Irrigation Project in Jaintia Hills District
3. Mawramhah Valley Irrigation Project in West Khasi Hills District
4. Kodaldhowa Medium Irrigation Project in West Garo Hills District.

4.2. MINOR IRRIGATION

4.2.1. **The approved outlay for Minor Irrigation during the Eleventh Plan (2007-2012) is Rs. 17172.00 Lakhs** which includes Rs. 4940.00 lakhs as Central Assistance for Accelerated Irrigation Benefit Programme (AIBP) with a target of 16500 Hectares to be brought under irrigation.

4.2.2. During Annual Plan 2007-08, an expenditure of Rs. 1194.41 lakhs was incurred in this sector which includes Rs. 42.68 lakhs under A.I.B.P. An additional 1500.42 Hectares was brought under irrigation during 2007-08.

4.2.3. The approved outlay during Annual Plan 2008-09 is Rs. 3700.00 lakhs which includes Rs. 2500.00 lakhs for A.I.B.P. and Rs. 300.00 lakhs for Rain Water Harvesting. It is anticipated that 2070.00 hectares will be irrigated during 2008-09.

4.2.4. The proposed outlay for this sector during Annual Plan 2009-10 is Rs. 6700.00 lakhs including Rs.2778.00 lakhs for A.I.B.P. It is targeted that an additional 7194 hectares will be irrigated during the year.

4.2.5. There are 52 ongoing minor irrigation schemes with a total command area of 3066 Ha under Normal State Plan Schemes (outside AIBP). The cost of completion of these schemes is Rs 3033.00 lakhs. With the allocation of Rs 3000.00 lakhs during 2009-10, it is expected that all these schemes will be completed.

4.2.6. The ultimate irrigation potential in the State is 2.18 lakh hectares, of which only 27,666.29 hectares have been created as at the end of 2007-08 which is only about 12.7 percent of the ultimate irrigation potential.

4.2.7. 7 (seven) Minor Irrigation projects at a cost of Rs 644.76 lakhs was agreed by NABARD under RIDF-XI during 2005-2006. Out of these 7 (seven) projects, 2 (two) have been completed and the percentage of physical achievements in respect of remaining projects varies from 40% to 96%. Target date for completion of the above projects have been extended to 31st March, 2009. Another 14 (fourteen) M.I. projects have been approved by NABARD under RIDF-XII at a cost of Rs 1220.08 lakhs and these projects are now under implementation. The target date for completion of the above projects is 31st March 2009.

4.2.8. The broad breakup of the proposed outlay for Annual Plan 2009-10 in respect of Minor Irrigation Sector are indicated below :

(Rs. Lakhs)		
Sl No.	Programme	Annual Plan 2009-10 Proposed Outlay
1	Minor Irrigation Projects (of which, AIBP)	4323.00 (2778.00)
2	Ground Water Development	50.00
3	Direction & Administration including Buildings	250.00
4	Others	2077.00
	Total	6700.00

4.3. COMMAND AREA DEVELOPMENT

4.3.1. A gap exists between the irrigation potential created and the potential utilized. This is due to various reasons like inadequate provision of field channels, necessity for land shaping / land leveling, etc. In order to bridge this gap, the State Government is implementing a Centrally Sponsored Scheme, viz. Command Area Development which is funded on 50:50 (Central share : State share) basis. The State Government is committed to meet the State's share of Centrally Sponsored Schemes, as far as possible, so as to leverage more funds that are available under such Centrally Sponsored Schemes.

4.3.2. An outlay of Rs 500.00 lakhs was approved for Command Area Development sector during the Eleventh Five Year Plan (2007-2012). An expenditure of Rs. 8.53 lakhs was incurred during 2007-08 and the approved outlay of Rs. 45.00 lakhs during 2008-09 is anticipated to be utilized in full. The proposed outlay for Annual Plan 2009-2010 is Rs. 50.00 lakhs only.

4.4 FLOOD CONTROL

4.4.1 The projected outlay for Flood Control for the Eleventh Plan period (2007-2012) is Rs. 3300.00 lakhs. An amount of Rs. 226.20 lakhs has been incurred for Flood Control during the year 2007-2008. The approved outlay for the Annual Plan (2008-2009) is Rs. 315.00 lakhs which is expected to be utilised in full. **The proposed outlay for the year 2009-2010 is Rs.350.00 lakhs.** This will be utilized for ongoing schemes and also for a few new schemes.

4.4.2 Every year during monsoon, flood creates havoc especially in different parts of the state including Garo Hills, Khasi Hills and Jaintia Hills. The flash flood damages the standing crops by inundating vast areas of paddy fields, snaps road communication by washing away the road formation and semi permanent timber bridges. Due to this, the State Government has to incur heavy non-plan expenditure for repairing of roads and bridges every year. To counteract the flood menace, permanent measures for protecting paddy fields, cultivation lands and habitats are necessary. As such, enhanced allocation is required for flood control projects.

4.4.4 Centrally Sponsored Schemes:-

(I). The Ministry of Water Resources approved an amount of Rs. 8000.00 Crores for implementation of Flood Management Programme in the entire country (no specific allocation for States) during the 11th Plan (2007-2012). The funding pattern is 90:10. The Task Force – 2004 recommended 11 (Eleven) No of schemes of the State under the Flood Management Programme. 11(eleven) schemes have been identified against this provision by the State Government. The lists are indicated below:-

Sl. No.	Name of the Scheme	Proposed / Accepted Amount (in lakhs)	Estimated Amount (in lakhs)	A.A. No. with date	Remarks
1.	Protection measures of Majhipara-Salairtek Embankment from the erosion of River Brahmaputra from chainage. 2851.00m to 3300.00m	79.37	79.50	PW/SW/FC/19/2004/4/DT.31.03.05	
2.	Construction of Jinjiram form Phulbari to Nidanpur embankment along the left bank of river including embankments on both sides of river Rongai.	3000.00	3000.00	-	
3.	Protection of Ampati town from erosion of river Daru	800.00	800.00	-	
4.	Protection of Garobadha village from erosion of river Kaloo	500.00	500.00	-	
5.	Protection of Williamnagar town from erosion of river Simsang	1000.00	1000.00	-	
6.	Construction of raised platform to save public from the flood of river Jinjiram and Brahmaputra in Phulbari area-10 nos.	300.00	300.00	-	
7.	Reconstruction and strengthening of Salairtek Embankment over Old Jinjiram Phase-III from Chainage.4121.00m to 5270.00m	450.00	337.39	PW/SW/FC/1/2004/80 Dt.04.01.06	
8.	Raising of Kolonkini Bund	450.00	310.00	-	
9.	Re-alignment of Majhipara Solairtek embankment with deflector from ch.2300m-ch.3400m (Construction of Ring Bund)	500.00	409.00	-	
10.	Reconstruction of marginal embankment phase II for the protection against the river Jinjiram (3 rd -4 th km)	450.00	483.00	-	
11.	Reconstruction of marginal embankment phase III for the protection against the river Jinjiram (5 th -7 th km)	400.00	908.00	-	

(II). During the Eleventh Plan, 36 (thirty-six) new schemes are being proposed to the Brahmaputra Board / Ministry of Water Resources involving a cost of Rs. 168.47 crores. The lists are as indicated below:-

(A). **UNDER T.F.R-2004**

		(Rs. Crores)
SL NO.	Name of Schemes	Amount
1	Reconstruction and strengthening of Salairtek Embankment over Old Jinjiram river, Phase -III (Ch: 4121.00 m -5270.00 m)	3.373 4.169 (Re)
2	Raising of Kolongkini Bund to change the H.F.L. of River Jinjiram	3.10
3	Re-alignment of Majhipara - Salairtek Embankment with Deflector from Ch: 2300.00 m -3400.00 m (Construction of Ring Bund)	4.09
4	Re-construction of Marginal Embankment, Phase - II for the protection against the river Jinjiram (3rd - 4th Km)	4.83
5	Re-construction of Marginal Embankment, Phase - III for the protection against the river Jinjiram (5th - 7th Km)	9.08
6	Construction of Jinjiram from Phulbari to Nidanpur embankment along the left bank of river including embankment on both sides of river Rongai.	30.00
7	Protection of Ampati town from erosion of river Daru	8.00
8	Protection of Garobadha village from erosion of river Kaloo	5.00
9	Protection of Wiliamnagar town from erosion of river Simsang	10.00
10	Construction of Raised Platform to save Public from flood of river Jinjiram and Brahmaputra in Phulbari area - 10 Nos.	3.00
TOTAL (A)		81.269

(B). **UNDER STATE'S PRIORITY**

		(Rs. Crores)
Sl. No.	Name of Schemes	Amount
1	Protection of Shillong City from River Umkhrah	19.00
2	Anti Erosion measure in Tura town against the river Gandrak, Ringreng, Rongkhon in Ganol Basin	4.50
3	Protection of Shymding, Shakamal, Gumajhora and NEC road from River	1.50
4	Protection of Kynshi village and paddy fields from River Kynshi.	3.50
5	Protection of the erosion of River Myntang at Nongbahtushiar to Thlen	5.00
6	Protection of Baghmara, Kharukol area from river Simsang	5.00
7	Protection of Rynsku village from erosion of river Khasimara	2.00
8	Protection of Sheila Bazar from River Umiam	3.00
9	Protection of Mukgangre Ghat, Mukdanggra, Sangkarekre, Asimgre, Dengasi, Mukdongre from River Ganol	1.50
10	Protection of Borghat village from erosion of river Myntdu	2.00
11	Protection of Pohkhyllem, longstang and Tretangliang villages from Myntdu	2.80
12	Flood protection from Umtung river at Liarkhla - Kdonghulu - Pynthor	1.00

Sl. No.	Name of Schemes	Amount
13	Protection of village Megadop, Koinadubi, Kujikora, Dapgre, Chaipani, Duttapara, Palpara etc from erosion of river Bakla	3.00
14	Protection of Munai village from erosion of river Mula	11.00
15	Protection of Megua, Rongapara, Donigiri from River Bogai	2.00
16	Protection of Umkiang village from erosion of river Umkiang	1.00
17	Protection of Khadlymba village from the river Umngot.	2.20
18	Anti Erosion measure from erosion against the river Rom in West Garo	3.00
19	Raising/ Strengthening of existing embankment cum road against flooding of river Ganol near Garobadha/ Rangiakhora	2.00
20	Protection of Darong Adu village/ Purakhasia bazar from erosion of river Darong	2.00
21	Anti Erosion measures from the erosion of river Damasu	2.00
22	Protection of village Boiragophi, Patijora, Kalaipara, Lokaichar from erosion of river Rongkai	2.00
23	Protection of Marpara, Rimrangpara, Bagigre, Madanggre from River Norang.	3.20
24	Protection of Umtyngar - Byrsiej from river Umiam	1.00
25	Flood protection at Hatthymmai village from river Kasmar	1.00
26	Protection at 2nd Km of Macabe Road from river Umkhrah	1.00
	TOTAL (B)	87.20
	GRAND TOTAL (A+B)	168.469