

GOVERNMENT OF MANIPUR



ANNUAL ADMINISTRATIVE REPORT
2012-13



IRRIGATION & FLOOD CONTROL DEPARTMENT
February, 2013

ANNUAL ADMINISTRATIVE REPORT, 2012-13

Irrigation & Flood Control Department, Manipur

1 GENERAL:

The Irrigation and Flood Control Department, Manipur is committed for development of i) assured irrigation in the State by construction of Major and Medium Irrigation & Multipurpose projects and ii) management of flood problems in the State with flood fighting/flood control schemes of restoration/improvement and protection works.

1.1 ORGANISATION SET UP:

The Department is headed by 1 (one) Chief Engineer assisted by the following Engineer Officers with subordinate officers / staff in carrying out the works of the Department.

1. Additional Chief Engineer	:	2
2. Superintending Surveyor of Works	:	1
3. Superintending Engineer	:	6
4. Executive Engineer/Surveyor of Works/Engineer Officer	:	27
5. Assistant Engineer/ Assistant Surveyor of Works/ Engineer Assistant	:	60

1.2 FUNCTIONS OF OFFICES / BRANCHES :

The main functions of the offices / branches of the Department in brief are as follows:

1.2.1 CHIEF ENGINEER:

The Chief Engineer is the head of the Department and is overall in charge of the administration. The Superintending Surveyor of Works, Superintending Engineer, Irrigation Circle No.-I, Superintending Engineer, Irrigation Circle No.-II, Superintending Engineer, Flood Management Circle, and 1(one) Engineer Officer are directly working under the Chief Engineer. There are 2 (two) Additional Chief Engineers working under the Chief Engineer viz., Addl. Chief Engineer - I and Addl. Chief Engineer - II.

1.2.2 ADDITIONAL CHIEF ENGINEER-I:

The Addl. Chief Engineer-I is in charge of Khuga Multipurpose Project. The Addl. Chief Engineer is assisted by 1(one) Superintending Engineer, viz., the Superintending Engineer, Khuga Project Circle.

1.2.3 ADDITIONAL CHIEF ENGINEER-II:

The Addl. Chief Engineer-II is in charge of Thoubal Multipurpose Project. The Addl. Chief Engineer is assisted by 2(two) Superintending Engineers viz., the Superintending Engineer, Thoubal Circle No.-I & Thoubal Circle No.-II.

1.2.4 SUPERINTENDING SURVEYOR OF WORKS:

The Superintending Surveyor of Works is assisting the Chief Engineer in technical matters and also is in charge of Survey & Investigation Works. The Superintending Surveyor of Works is assisted by 1 (one) Executive Engineers viz. the Executive Engineer, Irrigation Investigation Division.

1.2.5 SUPERINTENDING ENGINEER, KHUGA PROJECT CIRCLE:

The Superintending Engineer, Khuga Project Circle is in charge of the works of Khuga Multipurpose Project. The Superintending Engineer is assisted by 4(four) Executive Engineers viz., i) the Executive Engineer, Khuga Head Work Division, ii) the Executive Engineer, Khuga Spillway & Intake Division, iii) the Executive Engineer, Khuga Canal Division No. I and iv) the Executive Engineer, Khuga Canal Division No. II.

1.2.6 SUPERINTENDING ENGINEER, IRRIGATION CIRCLE NO. I:

The Superintending Engineer, Irrigation Circle No.-I is in charge of Maintenance of Electrical and Mechanical works and Quality Control of Project works. The Superintending Engineer is assisted by 2 (two) Executive Engineers viz., i) the Executive Engineer, Electrical & Mechanical Division, ii) the Executive Engineer, Quality Control & Monitoring Division.

1.2.7 SUPERINTENDING ENGINEER, IRRIGATION CIRCLE NO. II:

The Superintending Engineer, Irrigation Circle No.-II is in charge of the works of Dolaithabi Barrage Project, Departmental Store and operation & maintenance of completed projects viz. Imphal Barrage Project, Singda Multipurpose Project, Sekmai Barrage Project, Khoupum Dam Project and Loktak Lift Irrigation Project. The Superintending Engineer is assisted by 4 (four) Executive Engineers viz., i) the Executive Engineer, Dolaithabi Barrage Division No.- I , ii) the Executive Engineer, Dolaithabi Barrage Division No.- II, iii) the Executive Engineer, Project Store Division and iv) the Executive Engineer, Irrigation maintenance Division-II.

1.2.8 SUPERINTENDING ENGINEER, FLOOD MANAGEMENT CIRCLE :

The Superintending Engineer, Flood Management Circle.is in charge of Flood Management works. The Superintending Engineer is assisted by 4 (four) Executive Engineers viz i) the Executive Engineer, Flood Control & Drainage Division No.I, ii) the Executive Engineer, Flood Control & Drainage Division No. II, iii) the Executive Engineer, Flood Control & Drainage Division No.III and iv) the Executive Engineer, Flood Control & Drainage Division No. IV.

1.2.9 SUPERINTENDING ENGINEER, THOUBAL CIRCLE NO. I:

The Superintending Engineer, Thoubal Circle No.-I is in charge of the works of Dam & Spillway of Thoubal Multipurpose Project. The Superintending Engineer is assisted by two Executive Engineers viz., i) the Executive Engineer, Thoubal Project Division No.-I and ii) the Executive Engineer, Thoubal Project Division No. II.

1.2.10 SUPERINTENDING ENGINEER, THOUBAL CIRCLE NO.-II:

The Superintending Engineer, Thoubal Circle No.-II is in charge of the works on Canals and Planning of machinery for Thoubal Multipurpose Project. The Superintending Engineer is assisted by 3 (three) Executive Engineers viz., i) the Executive Engineer, Thoubal Project Division No.-IV ii) the Executive Engineer, Task Force Division and iii) the Executive Engineer, Thoubal Project Division No. VI.

2 MAJOR AND MEDIUM IRRIGATION PROJECTS :

So far, the IFC Department has taken up 8 (eight) Major and Medium Irrigation & Multipurpose Projects viz i) Loktak Lift Irrigation Project (LLI), ii) Khoupum Dam Project, iii) Sekmai Barrage Project, iv) Imphal Barrage Project, v) Singda Multipurpose Project, vi) Thoubal Multipurpose Project, vii) Khuga Multipurpose Project and viii) Dolaithabi Barrage Project.

Out of the above, i) Khoupum Dam, ii) Imphal Barrage, .iii) Sekmai Barrage, iv) Loktak Lift Irrigation, v) Singda Multipurpose Project and vi) the Barrage Component at Keithelmanbi and a part of right & left canal of Thoubal Multipurpose Project have been completed. The ongoing Projects are i) Khuga Multipurpose Project, ii) Thoubal Multipurpose Project and iii) Dolaithabi Barrage Project.

The Headwork component of Khuga Project has been completed and commissioned on November, 2010 with a partial irrigation potential of 10,000 Ha. The whole irrigation component i/c canal system is targeted for completion during 2013.

The above 3(three) on-going projects could not be completed in time mainly due to fund constraint in the earlier part coupled with disturbed law and order situation of the State. The 3(three) projects are now included in the PM's Package and adequate flow of funds has been assured for early completion of these projects.

The Revised Annual Plan allocation for 2012-13 under Major & Medium Irrigation is Rs. 517.30 crores i/c Rs.460.00 crore (C.A under AIBP). The tentative outlay for the next year, 2013-14 under MMI is Rs. 503.30 crores including Rs. 460.00 crores (C.A under AIBP).

2.1 BENEFITS FROM COMPLETED/PARTIALLY COMPLETED PROJECTS:

i) IRRIGATION: -

Total Irrigation potential of 31,510 ha. has been created by this deptt. up to 3/2012 with utilization of 21,000 ha. In addition, 1200 ha. and 900 ha. of low lying areas of Loushipat and Poiroupat respectively have been reclaimed after having been taken up as a part of Thoubal Multipurpose Project. Running and Maintenance schemes are on the pipe line for bridging the gap between potential created and actually utilised under Bharat Nirman Programme.

ii) WATER SUPPLY: -

4 (four) MGD of raw water is supplied to the State PHED from Singda Multipurpose Project for water supply.

There is a provision of 5 (five) MGD of raw water to be supplied from Khuga Multipurpose Project to the State PHED. Now, out of this provision, State PHED has been drawing an average of 3 lakh gallons per day for water supply.

2.1.1 ADDITIONAL BENEFITS TO BE ACCRUED FROM ONGOING PROJECTS:

On completion of the ongoing projects, an ultimate annual irrigation of 55,940 ha, water supply facility of 15.00 MGD and power generation of 9.75 MW will be achieved. Out of these with the partial completion of Thoubal Multipurpose Project and Khuga Multipurpose Project, irrigation potential of 24,960 Ha. and water supply of 4 MGD has been created upto the end of 31-03-2012. The anticipated achievement of irrigation potential during 2012-13 upto the end of 31-03-2013 is 9,920 Ha.

3. ONGOING PROJECTS :

The revised approved outlay for Irrigation Sector for 2012-13 is Rs 517.30 crore including CA (AIBP) of Rs 460.00 crore. The anticipated expenditure during 2012-13 is Rs 432.30 crore including CA (AIBP) of Rs. 375.00 crore. Brief notes of the ongoing projects are given below:

3.1 KHUGA MULTIPURPOSE PROJECT:

The Khuga Multipurpose Project was sanctioned by the Planning Commission in July, 1980 for an estimated cost of Rs.15.00 crore. The hydro-power component of 3 x 500 KW was separately sanctioned in October, 1983 for an estimated cost of 1.23 crore and with the latest revised cost of Rs.16.68 crore (2008). The project is earmarked and monitored by

the centre. The latest approved revised cost of the project is Rs. 433.91 crores. The Head work component has been completed and commissioned on 12th November, 2010 with a partial irrigation potential of 10,000 Ha. The whole irrigation component i/c canal system is targeted for completion during 2013.

The outlay for 2012-13 is Rs. 40.90 crores i/c CA(AIBP) of Rs.34.00 crores. The anticipated expenditure during 2012-13 is Rs. 37.50 crores i/c CA(AIBP) of Rs.30.60 crores. The progressive expenditure upto March, 2012 is Rs. 401.03 crores.

3.2 THOUBAL MULTIPURPOSE PROJECT:

The Project was approved by the Planning Commission in 1980 for Rs. 47.25 Crores. The project will create 33,390 ha. of annual irrigation, provide 10 MGD of drinking water and generate 7.50 MW of hydropower. The works relating to the project were started in 1980.

On the advice of the Planning Commission, the works on dam and spillway were deferred from 1983 and the barrage component with a part of the left canal system was completed in 1991. Since then, a partial irrigation potential of 14,961 ha. had been created upto March, 2012 and the low lying area of 1,200 ha. at Loushipat and 900 ha. at Poirou Khongjin have been reclaimed.

The works of dam and spillway was resumed from February, 1990. However, owing to the problems of land acquisition, rehabilitation and resettlement plan, law and order in the state, financial constraint in the earlier part etc., completion has been delayed. The progress of construction work has been reached now upto the extent of 87% for Dam, 79% for Spillway and upto the extent of 74% for canal system at the end of February, 2013. Now, it is targeted for completion by March 2015 in all respect.

The latest approved Revised cost of the project is Rs. 1387.85 crores.

The revised outlay for 2012-13 is Rs. 333.08 crores including Rs. 300.00 crores (AIBP). The anticipated expenditure during 2012-13 is Rs.283.08 crores including CA(AIBP) of Rs. 250.00 crores. The progressive expenditure up to March,2012 is Rs. 890.54 crores including CA(AIBP) of Rs. 482.84 crores.

3.3 DOLAITHABI BARRAGE PROJECT:

The project was sanctioned for Rs. 18.86 crores by the Planning Commission and sanctioned by the State Government in 1992. The project will create an irrigation potential of 7,545 ha. The project was originally planned for completion by 1996-97. However, owing to rescission of the original contract, financial constraint of the state, law and order in the State, the work is now targeted for completion during 2014.

Land acquisition for barrage has been completed and 80% for canals has been completed and remaining portion is in advance stage. Foundation excavation for main barrage and concrete work has been completed and 38% of concrete work including super structures has been achieved upto the end of February, 2013.

The latest approved Revised cost of the project Rs. 360.05 crores.

The revised outlay for 2012-13 is Rs. 139.02 crores including Rs. 126.00 crores CA(AIBP). The anticipated expenditure during 2012-13 is Rs.107.42 crores including CA(AIBP) of Rs. 94.40 crores. The progressive expenditure up to March,2012 is Rs. 209.99 crores including CA(AIBP) of Rs. 121.40 crores.

3.4 WATER SUPPLY FOR IMPHAL CITY FROM THOUBAL DAM BY 45 MLD (Million Litres per Day).

The scheme is for providing raw water of 45 MLD from the Thoubal Dam upto the treatment plant near Sanjenbam Village of Imphal East District to augment water supply of the Imphal City by 45 MLD. The above project is to extend the water supply component of Thoubal Multipurpose project upto the treatment plant as per the decision of the State Cabinet in its meeting held on 04-09-2012 and the Scheme is now considered as part of the Thoubal Multipurpose Project with funding from MoWR as per the decision of the meeting taken by Joint Secretary to Prime Minister on 07-09-2012.

The Fifth Revised Estimate of the Thoubal Multipurpose Project amounting to Rs. 1772.40 crores including Rs. 384.55 crores for the water supply component has been approved by the State PIB and is being submitted to Central Water Commission, New Delhi for approval by TAC of MoWR. The scheme is proposed to be taken up during 2013-14 after according approval of the Fifth Revised cost of the Thoubal Multipurpose Project.

3.5 POWER COMPONENT OF THOUBAL MULTIPURPOSE PROJECT:

The Thoubal Hydro Power component envisages installation of 3 units of 2.50 MW. The scheme was originally accorded techno-economic clearance by Central Electricity Authority, Government of India in its 52nd meeting held on 26-03-1984 at the estimated cost of Rs. 677.80 lakh. The 1st revised estimate including the transmission system amounting to Rs. 2896.92 lakh has been accorded techno-economic clearance by the Chief Engineer(Power), Government of Manipur on 27-12-2006 and the same was approved by the State PIB on 03-01-2006. The scheme is now targeted for completion during 2014-15.

The civil work for construction of power house has been started and targeted for completion during 2013-14. The outlay during 2012-13 is Rs. 4.00 crores and anticipated expenditure during Rs. 4.00 crores.

4. IMPROVEMENT/ MODERNISATION SCHEMES:

The cumulative irrigation potential created upto the end of the VIIth Plan under Major & Medium Irrigation Projects was 59.00 ha. with utilisation of 49,270 ha. Consequently, the total irrigation potential created had sharply declined to 28,150 ha. with utilisation of 19,980 ha. by the end of VIIIth Plan. This sudden fall is due to restriction in command area of Loktak Lift Irrigation (LLI), Sekmai Barrage and Imphal Barrage due to inundation of the command area in the periphery of Loktak Lake, human encroachment in the command area, heavy siltation of the canal beds & damages of the canal structure etc. The potential created under LLI alone reached upto its original ultimate potential of 40,000 ha. but it had sharply declined to 6000 ha. by the end of VIIIth Plan. This sudden fall in irrigation potential had a great impact on the State's total irrigation picture.

Schemes for modernization / improvement of completed projects have been planned for further restoration of the targeted benefits. However, these schemes could not be taken up properly during the IXth Plan, Xth Plan and XIth Plan owing to the financial constraint.

The modernization / improvement schemes are now planned for implementation in the provision for 2009-10(RE) and 2009-10(BE) under non-plan amounting to Rs.3.41 crore. The Detailed Project Report showing the year-wise phasing(2011-15) for Khoupum Dam, Imphal Barrage & Sekmai Barrage amounting to Rs.8.00 crores and Rs.2.00 crores earmarked for the year 2012-13 has been submitted to the Govt. for approval under 13th Finance Commission.

5. SURVEY AND INVESTIGATION WORKS:

The Department is continuing investigation works for taking up new projects under State Plan as well as with funding of MoWR, NEC etc. for expansion of irrigation benefits from natural water resources. The following 4(four) new projects are proposed to be taken up during 12th Plan.

PROJECTS AND TARGETED BENEFITS:

Sl. No.	Projects	CCA (in Ha.)	Ultimate Benefits		
			Annual Irrigation (in Ha)	Water Supply (in MGD)	Power Generation (in MW)
1.	Chakpi Multipurpose Project	9630.00	15260.00	3.00	7.50
2.	Regional Jiri Irrigation Project	5750.00	9770.00	1.20	-
3.	Iril Multipurpose Project	5500.00	8300.00	10.00	15.00
4.	Sekmai Multipurpose Project	9000.00	13600.00	1.80	-
	Total :	30110.00	46930.00	16.00	22.50

Out of the 4(four) projects DPR for Chakpi Multipurpose Project has been submitted to CWC, New Delhi for observation of the approval of TAC. The remaining 3(three) projects are at advance stage of investigation and preparation of DPRs are in progress.

The outlay during 2012-13 for Survey and Investigation of project is Rs.30.00 lakhs under State Plan and anticipated expenditure during 2012-13 is Rs. 30.00 lakhs.

**STATUS NOTE ON
FLOOD CONTROL SECTOR
(March, 2013)**

INTRODUCTION:

The Department has been taking up the following activities as normal works under State Flood Control (Plan) and Centrally Sponsored Schemes during Annual Plan 2012-13.

- i) Improvement of narrow river/stream sections and river banks.
- ii) Providing of Anti-Erosion and Flood Control works at vulnerable locations of rivers/streams in Hill and Valley Districts of Manipur.

The valley areas of Manipur are traversed by important rivers namely Imphal/Manipur River, Iril River, Thoubal River, Nambol River, Kongba River, Nambol River, Merakhong River, Wangjing River and Iril River etc. As such, occurrence of flash flood in valley areas is considered very frequent resulting heavy losses in terms of social and economical values during flood seasons.

The hilly areas of Manipur are also traversed by other important rivers and streams causing losses mainly due to erosion of river banks during flood seasons. However, in both the areas of hill and valley districts, the magnitude of the flood damages can not be predicted as it depends on the intensity of the rainfall occurred during flood season of the year.

ACTIVITIES:

The main activities of department during 2012-13 are implementation of anti-erosion and flood control schemes under NEC, FMP of MoWR (AIPB), RIDF (NABARD), SPA and J_NNURM.

Works taken up under Annual Plan: 2012-13

Sl. No.	Name of scheme	Remarks
(i)	a. 12 (twelve) ongoing schemes under FMP of MoWR (AIPB), sanctioned during 2007-08 b. 10 (ten) ongoing schemes under FMP of MoWR (AIPB) sanctioned during 2010-11	a) Completed, with release of balance Central share during 2012-13. b) 8(eight) schemes are completed and 2 (two) schemes targeted for completion during 2012-13, awaiting release of balance Central share
(ii)	5 (five) ongoing schemes under RIDF (NABARD) 2011-12.	One scheme has been completed and remaining 4(four) schemes are targeted for completion during 2013-14, awaiting release of balance loan.
(iii)	5 (five) ongoing schemes under NEC	1(one scheme has been completed and remaining 4(four) schemes are targeted for completion during 2013-14.
(iv)	1 (one) ongoing Scheme under J _N NURM 2009-10	Targeted for completion during 2013-14, awaiting deposit of the balance fund.
(v)	26 (twenty-six) New schemes under SPA, 2012-13	Targeted for completion during 2013-14 and awaiting release of SPA fund from MoF, Govt.of India during 2012-13.

Outlay for the year 2012-13**(A) - STATE**

(i)	Plan	: Rs. 500.00 lakhs
(ii)	State share of AIBP	: Rs. 470.00 lakhs
Total-		:Rs. 970.00 lakhs

(B) - CENTRAL ASSISTANCE

(i)	AIBP	: Rs. 7800.00 lakhs
(ii)	SPA	: Rs. 4000.00 lakhs.
(iii)	RIDF(NABARD)	: Rs. 2200.00 lakhs
		Rs.14000.00 lakhs

(C) - NEC	: Rs. 118.00 lakhs
Grand total	: Rs. 15,088.00 lakhs

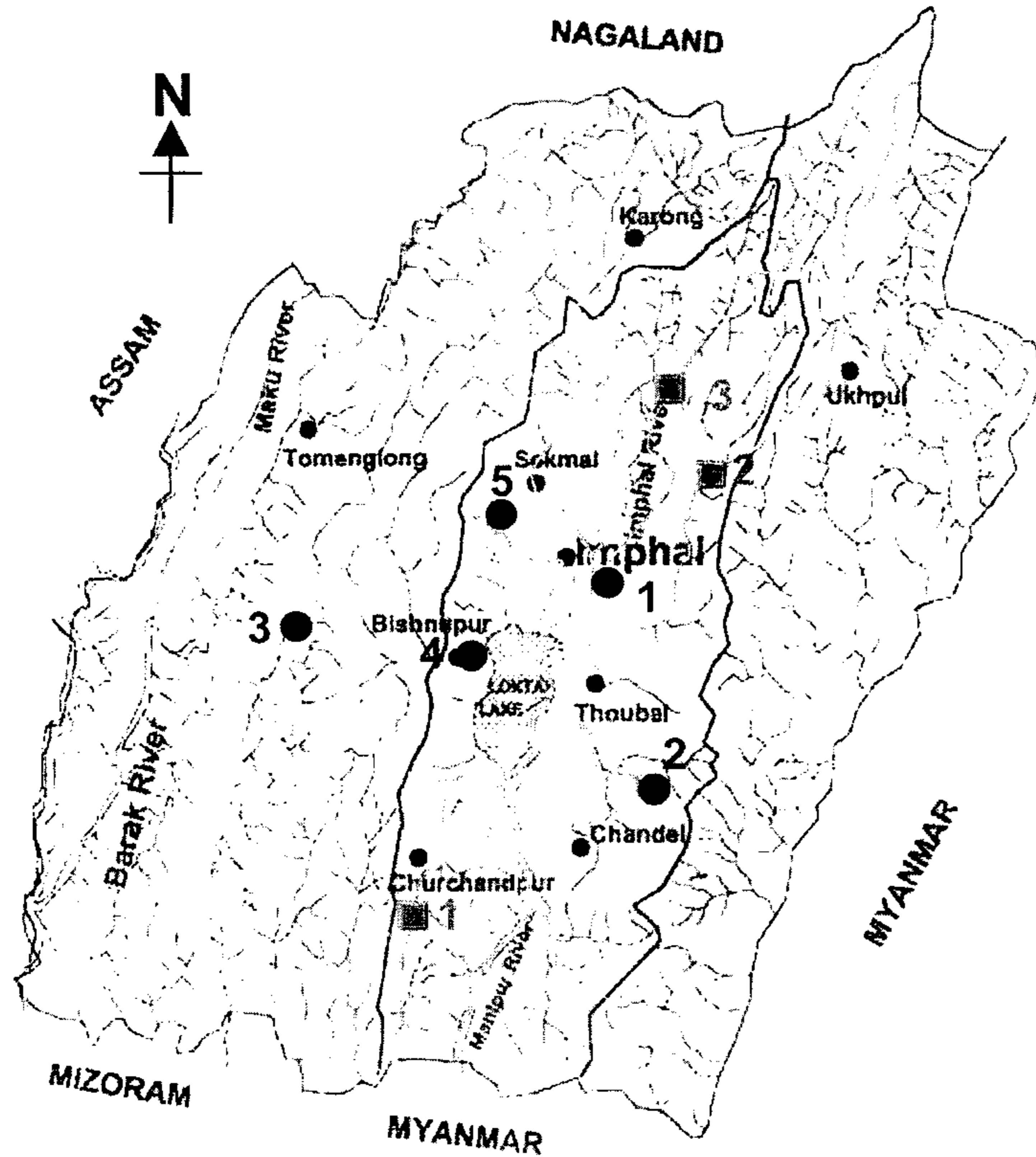
1. PHYSICAL ACHIEVEMENT DURING XII th PLAN
(During 2012-13)

Sl No.	Items	Unit	Achievement during XI th Plan. (2007-2012)	Target for XII th Plan (2012-2017)	Anticipated Achievement during 2012-13
1	i) Embankment	Km	121.00	186.00	10.00
	ii) Drainage.	Km	119.00	149.00	6.00
	iii) Anti Erosion	Km	91.00	196.00	18.00
	iv) Culvert/Regulator	No.	36.00	114.00	7.00

2. FINANCIAL ACHIEVEMENT DURING XII th PLAN
(During 2012-13)

(Rs. in lakhs.)

Sl No.	Name of Schemes.	Expenditure during 2012-13 (Anticipated upto 31-03-2013).	Remarks.
A.	State Flood Control Plan Works	970.00	Anticipated on W/C wages and State share of AIBP scheme
B.	Flood Control and Anti-Erosion Works under Flood Management Programme (AIBP)	7800.00	Anticipated expenditure is for ongoing and new propose schemes.
C.	Flood Control Schemes taken up under S.P.A.	4000.00	Grant for 26 schemes (Anticipated)
D.	RIDF schemes under NABARD.	2200.00	Loan component already incurred
E.	Flood Control Schemes Taken up Under NEC's Programme.	118.00	Incurred expenditure is for 2(two) schemes of NEC's share
	Total:-	15088.00	



**MAP SHOWING SITES OF
IRRIGATION PROJECTS**

I. F.C.D., MANIPUR.

- COMPLETED PROJECTS
- 1. IMPHAL BARRAGE PROJECT
- 2. SEKMAI BARRAGE PROJECT
- 3. KHOUPUM DAM
- 4. LOKTAK LIFT IRRIGATION
- 5. SINGDA DAM

- ONGOING PROJECTS
- 1. KHUGA MULTIPURPOSE PROJECT
- 2. THOUBAL MULTIPURPOSE PROJECT
- 3. DOLAITHABI BARRAGE PROJECT

ORGANISATIONAL CHART as on 28-02-2013.

